

CALENDAR FOR WATER YEAR 1992

1991

OCTOBER						NOVEMBER						DECEMBER									
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S		
	1	2	3	4	5						1	2									
7	8	9	10	11	12	3	4	5	6	7	8	9	1	2	3	4	5	6	7		
14	15	16	17	18	19	10	11	12	13	14	15	16	8	9	10	11	12	13	14		
21	22	23	24	25	26	17	18	19	20	21	22	23	15	16	17	18	19	20	21		
28	29	30	31	24	25	26	27	28	29	30	22	23	24	25	26	27	28				
													29	30	31						

1992

JANUARY						FEBRUARY						MARCH								
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
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13	14	15	16	17	18	9	10	11	12	13	14	15	15	16	17	18	19	20	21	
20	21	22	23	24	25	16	17	18	19	20	21	22	22	23	24	25	26	27	28	
27	28	29	30	31	23	24	25	26	27	28	29	29	30	31						

APRIL						MAY						JUNE								
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13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	20	
20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26	27	
27	28	29	30	24	25	26	27	28	29	30	28	29	30							

JULY						AUGUST						SEPTEMBER									
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S		
		1	2	3	4							1			1	2	3	4	5		
6	7	8	9	10	11	2	3	4	5	6	7	8	6	7	8	9	10	11	12		
13	14	15	16	17	18	9	10	11	12	13	14	15	13	14	15	16	17	18	19		
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						30	31														



Water Resources Data Indiana Water Year 1992

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



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT IN-92-1
Prepared in cooperation with the State of Indiana
and with other agencies

U. S. DEPARTMENT OF THE INTERIOR

BRUCE BABBIT, Secretary

U.S. Geological Survey

Dallas L. Peck, Director

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

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:

D.V. Arvin	C.R. Keeton
P.R. Baker	T.M. Kelly
B.L. Benedict	R.G. Knapp
J.R. Davis	P.H. Laird
C.E. Deiwert	R.J. Lewins
T.J. Eaton	D.K. Majors
L.E. Hammil	S.E. Morlock
G.A. Hodgkins	H.T. Nguyen
R.E. Hoggatt	R.R. Ondrish
J. I. Ibsen	B.T. Reinking

The following individuals contributed significantly to the typing, drafting, and assembling of the report:

J. R. Davis	M. S. Hopkins	L. M. Huff	D. K. Majors
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This report was prepared in cooperation with the State of Indiana and with other agencies under the general supervision of J. A. Macy, District Chief, Indiana, and S. P. Sauer, Regional Hydrologist, Northeastern Region

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(d-discharge, e-gage heights, c-chemical, t-temperature, s-sediment,
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DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

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
WABASH RIVER BASIN			
Little Williams Creek at Connersville	03274950	9.6	1968-91
East Fork Whitewater River at Richmond	03275500	121	1949-78
Laughery Creek near Farmers Retreat (a)	03277000	248	1941-73
Friday Branch tributary near Saint Meinrad (b)	03303276	.096	1981
Little Pigeon Creek near Tennyson	03304000	187	1944-47
Pigeon Creek at Evansville	03322100	323	1960-85
Wabash River near New Corydon	03322500	262	1951-88
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
Big Monon Creek near Francesville (a)	03332400	152	1959-73
Tippecanoe River near Monticello (c)	03332500	1,732	1932-81
Wildcat Creek at Greentown	03333500	168	1945-61
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
Brouillets 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
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
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
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	1965-91
Pleasant Run at Brookville Road at Indpls.	03353160	10.1	1960-81
White River at Waverly	03353660	2,026	1966-88
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	1975-1982
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

Station name	Station number	Drainage area (mi ²)	Period of record
WABASH RIVER BASIN--Continued			
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 (d)
Indian Creek near Springville (a)	03373200	60.7	1961-73
White River at Hazleton (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	04090500	3.40	1979-1982
Burns Ditch at Gary	04093500	160	1943-91 (g)
Salt Creek near McCool	04094500	74.6	1945-91
Derby ditch at Beverly Shores	04095100	4.64	1980
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

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 Illinois, IL	05520000	220	1945-77
Oliver ditch near Aix	05521500	79.6	1948-51
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 through 1984.

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.

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

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The following stations were discontinued as surface-water-quality stations. Records of temperature, specific conductance, pH, dissolved oxygen or sediment 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
WABASH RIVER BASIN				
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
Trib to Friday Branch at St. Meinard	03303276	.096	C,T,S	1980-81
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 T	1970-76, 1970-75, 1980-81
Big Raccoon Creek near Fincastle	03340800	132	C,T,S 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	11139	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	1977-81
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, 1992

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 1992 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 175 gaging stations, stage at 7 gaging stations, stage and contents at 1 reservoir, water quality at 3 stream sites, sediment discharge at 1 gaging station, water levels at 80 lakes, and water levels at 94 observation wells. Locations of the streamflow and water-quality sites, and ground-water observation wells are shown on figures 4, 5, and 7. The number of lakes by county having 1992 water-level records are shown on figure 6. 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, Books and Open-File Reports, Federal Center, Building 41, Box 25425, Denver, CO 80225.

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-92-1." 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. Beginning with the 1990 water year, all water-data reports will also be available on Compact Disc - Read Only Memory (CD-ROM). All data reports published for the current water year for the entire Nation, including Puerto Rico and the Trust Territories, will be reproduced on a single CD-ROM disc.

Every five years since 1950 the Geological Survey has compiled data on water use in the United States. During 1987, this effort was completed again for 1985 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 1985 more than 8 billion gallons per day were withdrawn from the surface- and ground-water resources of Indiana to meet the needs of its citizens. Approximately 92 percent of this withdrawal was from surface-water sources. The largest single source was Lake Michigan, which accounted for about 40 percent of the water withdrawn.

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. A limited number of CD-ROM discs will be available for sale by the Books and Open-File Reports Section, U.S. Geological Survey, Federal Center, Box 25425, Denver, Colorado 80225.

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 Syracuse; 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

Precipitation patterns in Indiana differ seasonally and geographically. Although some precipitation falls each month, the greatest amounts usually fall during February, March, and April. Average annual amounts (fig. 1) range from about 34 inches in the northeastern part of the State to about 46 inches in the south-central part. Evapotranspiration consumption is relatively uniform and averages 26 inches per year (Clark, 1980).

Monthly precipitation totals in the northern region of Indiana were above normal (the term 'normal' in this discussion refers to mean monthly and annual precipitation totals for the period 1951-80) for the months of October, November, January and September. Monthly precipitation totals were below normal in this region for December, January, April, May, June, and August. In February, the monthly totals were below normal in the central and eastern portions of the northern region, while the western portion of the region saw a monthly total which was slightly above normal. In March, the monthly totals were slightly above normal in the central and eastern portions of the northern region, and slightly below normal in the western portion of the region. Departures of monthly precipitation totals from normal in the northern region for the year ranged from 5.35 inches above normal in the western portion of the region for October, to 1.79 inches below normal in the western portion for August. The precipitation totals for the year in the northern region were above normal, ranging from 2.99 inches above normal in the western portion of the region to 5.65 inches above normal in the eastern portion of the region.

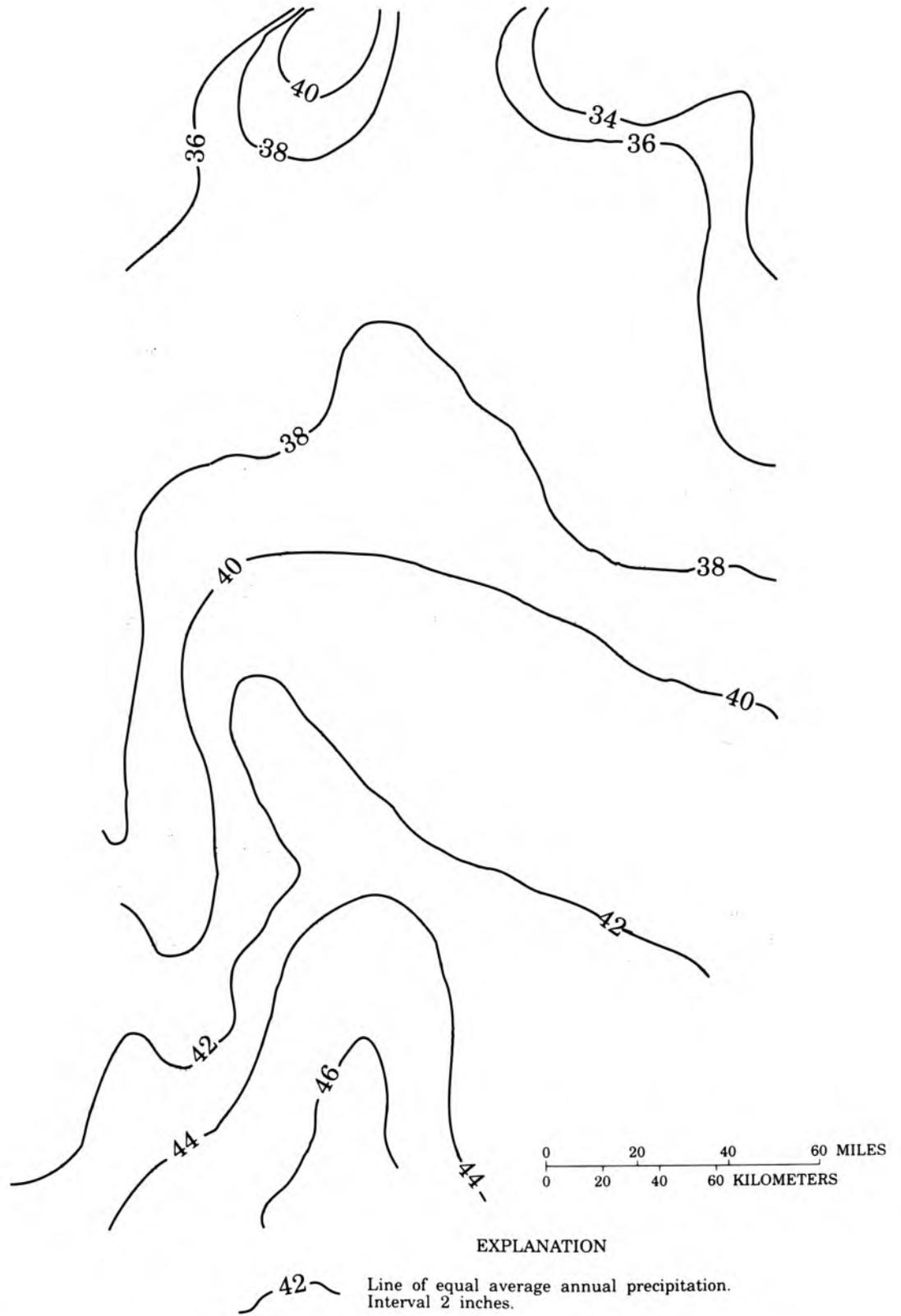


Figure 1.--Average annual precipitation in Indiana, 1951-1980.
(Data from National Oceanic and Atmospheric Administration, 1983.)

The central region of Indiana saw above normal monthly precipitation totals in October, April, July, and September. Below normal monthly precipitation totals in the central region occurred in December, January, February, March, May, and August. In November, monthly precipitation totals were above normal in the western and central portions of the central region, and below normal in the eastern portion of the region. In June, monthly precipitation totals were below normal in the western and central portions of the central region, while the monthly total was above normal in the eastern portion of the region. Departures of monthly precipitation totals from normal in the central region ranged from 7.36 inches above normal in the eastern portion of the region to 2.52 below normal in the western portion of the region. The precipitation totals for the year in the central region were above normal, ranging from 3.59 inches above normal in the eastern portion of the region to 5.49 inches above normal in the western portion of the region.

In the southern region of Indiana, monthly precipitation totals were above normal in December, July, and September, and below normal in January, February, March, April, and May. In October and November, monthly precipitation totals were below normal in the east and central portions of the southern region, and above normal in the western portion of the region. In August the central and eastern portions of the southern region saw above normal precipitation totals, while the western portion of the region experienced a below normal total. September saw above normal precipitation totals in the western and central portions of the southern region; below normal in the eastern portion. Departures of monthly precipitation totals from normal in the southern region ranged from 4.43 inches above normal in the eastern portion of the region to 1.91 inches below normal in the western portion of the region. The precipitation totals for the year in the southern region were below normal in the western and central portions, at 3.31 and 4.51 inches below normal, respectively. The precipitation total for the year in the eastern portion of the southern region was 1.39 inches above normal.

Surface Water

Runoff generally follows the precipitation patterns. Average annual runoff amounts (fig. 2) range from about 12 inches in the northern and central regions of the State, to about 18 inches in the extreme southern portion.

Streamflows at the three Indiana surface water index stations are indicative of the runoff occurring in the drainage basins above the stations. The three index stations 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 the northern part of the State's central region. The drainage area at this station is 682 square miles. Streamflows varied significantly through the year at this station. For October, the first month of the 1992 Water Year, the mean monthly

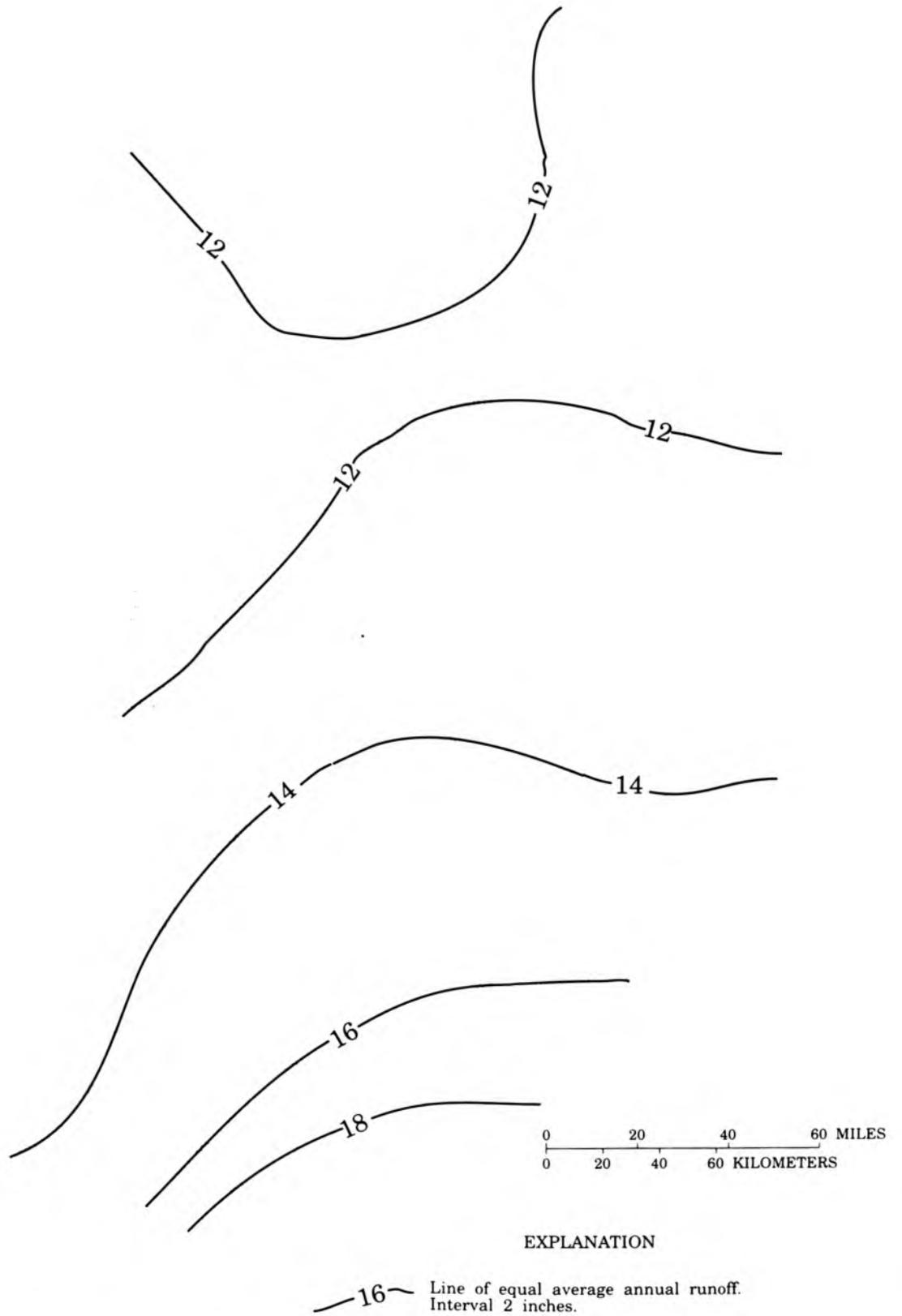


Figure 2.--Average annual runoff in Indiana, 1951-80.

(Data from Gebert, Graczyk, and Krug, 1985.)

discharge was very close to the median monthly discharge for October (the term 'median' in this discussion refers to median monthly and annual discharges for the period 1951 - 80). Monthly mean discharges were 141 percent above the median monthly discharges for December. Mean monthly discharges were below the median monthly discharges from December through March. The monthly mean discharges ranged from 38 percent of the monthly median discharge in March to 60 percent of the monthly median in December. The monthly mean discharge for April was 158 percent of the monthly median discharge, while the April monthly mean discharge was 44 percent of the monthly median. The monthly mean discharges for June through July were all well above the monthly median discharges for those months; the monthly means ranged from 439 percent to 1,538 percent of the monthly medians, for August and July, respectively. The mean annual discharge at this station was 120 percent of the median annual discharge. The 1992 annual runoff for this station was approximately 2.4 inches greater than the average yearly runoff for the period 1951-80.

The location of index station East Fork White River at Shoals is the western portion of Indiana's south region. The drainage area above this station is 4,957 square miles. Mean monthly streamflows from October through June of the 1992 Water Year for this station were all below the respective monthly median discharges, with a range of 23 to 85 percent of the monthly medians, in February and June, respectively. The monthly mean discharges were above the monthly medians for the July through September; the monthly means ranged from 202 to 651 percent of the monthly medians in September, and August, respectively. The mean annual discharge for the 1992 Water Year at this station was 58 percent of the median annual discharge. For this station, the 1992 annual runoff was approximately 6.2 inches below the mean annual runoff for the period 1951-80.

The index station Wabash River at Mount Carmel is located in the extreme eastern portion of south-central Illinois. The drainage area above this station is 28,635 square miles. The mean monthly discharge at this station in October was 73 percent of the monthly median for October. The November mean monthly discharge was 118 percent of the monthly median. The monthly mean discharges for December through June were below the respective monthly medians at this station; the monthly mean discharges ranged from 33 to 82 percent of the corresponding monthly medians, in March and April, respectively. For the period July through September, the mean monthly discharges were above the respective monthly median discharges, ranging from 205 to 318 percent of the monthly medians, in September and August, respectively. The mean annual discharge for the 1992 Water Year at this station was 70 percent of the median annual discharge. The 1992 annual runoff for this station was approximately 3.8 inches below the mean annual runoff for the period 1951-1980.

Median monthly discharges at the three Indiana index stations during the 1992 water year are compared to the median monthly discharges for the period 1951-80 as a bar graph in figure 3.

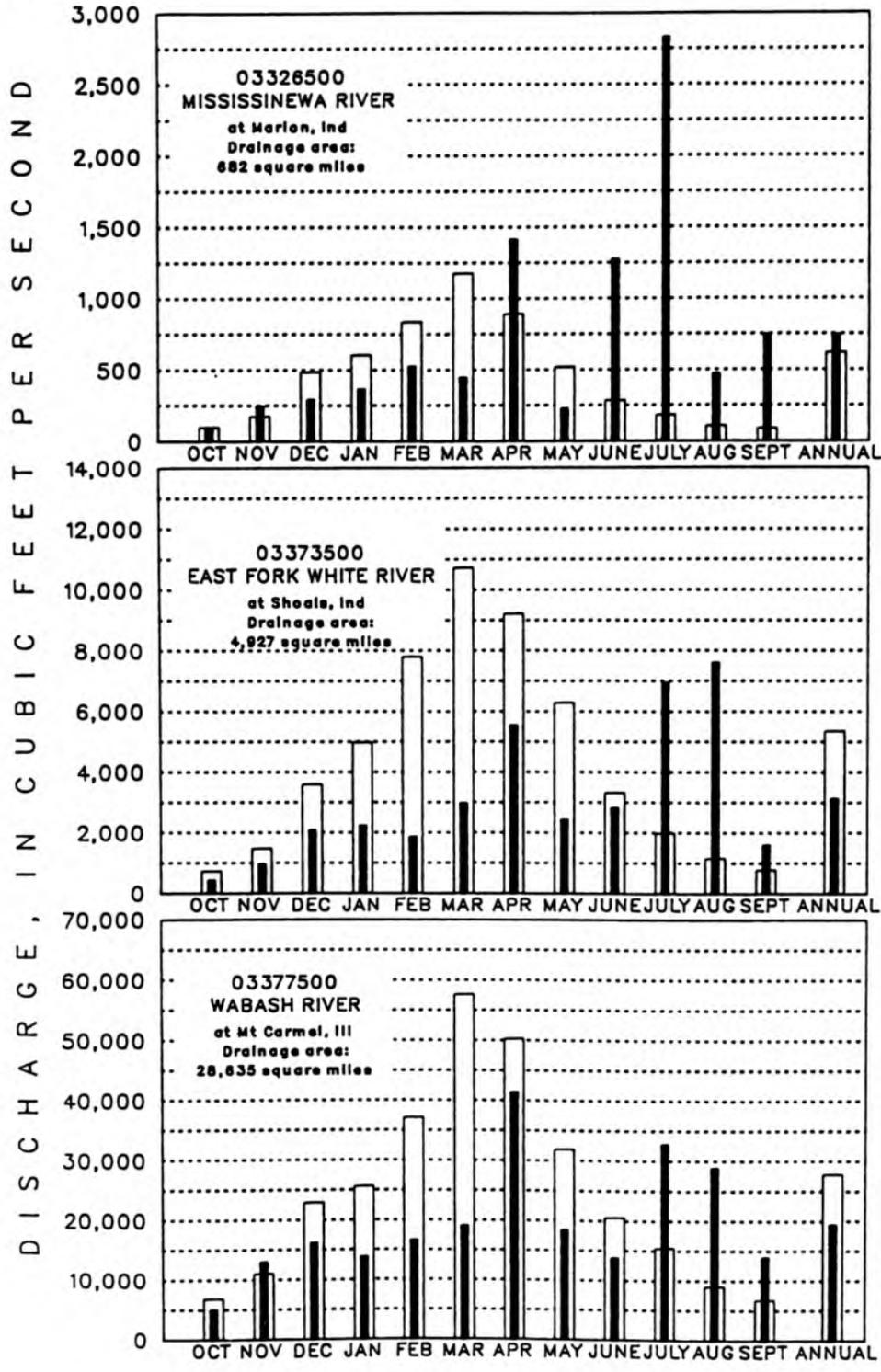


Figure 3. — Mean discharges at Indiana index stations during 1992 water year and median discharges for period 1951-80.

Groundwater

Ground water level changes are produced by natural causes 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).

The above mentioned pattern is generally followed in three index observation wells located within Indiana, when water level records are examined over a relatively long period, such as 10 years. The three wells are Elkhart 4, Decatur 2, and Martin 5. While the long term pattern described above is generally followed in the long term, water level fluctuations at these wells may diverge significantly from this pattern for a given year, as evidenced by 1992 levels.

The observation well Elkhart 4 is located in northeast Indiana, in a sand and gravel aquifer. 1992 Water Year water levels at this well increase from October through December, then decreased in January and February. Water levels increased in March to a high in April, then held relatively constant through May. The water levels decreased in June, increased through July and August, then slowly decreased through the end of the Water Year. All mean monthly minimums for the Water Year were all lower than the corresponding normal monthly minimum water levels (in this discussion, 'normal monthly minimum water levels' refers to the mean monthly minimums for the period 1982-91), except for the months of October, August, and September, when the monthly mean minimum water levels were greater than the corresponding normal monthly minimums.

Decatur 2 is located in east central Indiana, in a Devonian brown limestone aquifer. From October of the 1992 Water Year through February, water levels at this well increased. Water levels decreased in March, then began to increase again to reach a high in July. Water levels then decreased through August and September. In the 1992 Water Year, for the period October through May, the mean monthly minimum water levels for this well were lower than the normal monthly minimum water levels. The mean monthly minimum water levels were higher than the normal monthly minimum levels from June through September. The March mean minimum water level for the 1992 water year was the lowest March mean minimum monthly level for the period 1982-1991. This is most likely partly due to the lower than normal precipitation amounts in the central region from December through March. July and August of the 1992 Water Year saw the greatest mean minimum monthly levels for each of those months for the period 1982-90, most likely due in part to the much greater than normal precipitation that occurred in the central region.

Martin 5 is located in southwest Indiana in a Pennsylvanian Rock aquifer. Water levels for the 1992 Water Year at this well decreased from October through December, then steadily increased from January through April. Water levels decreased in May, increased slightly in June, then steadily

GROUND-WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

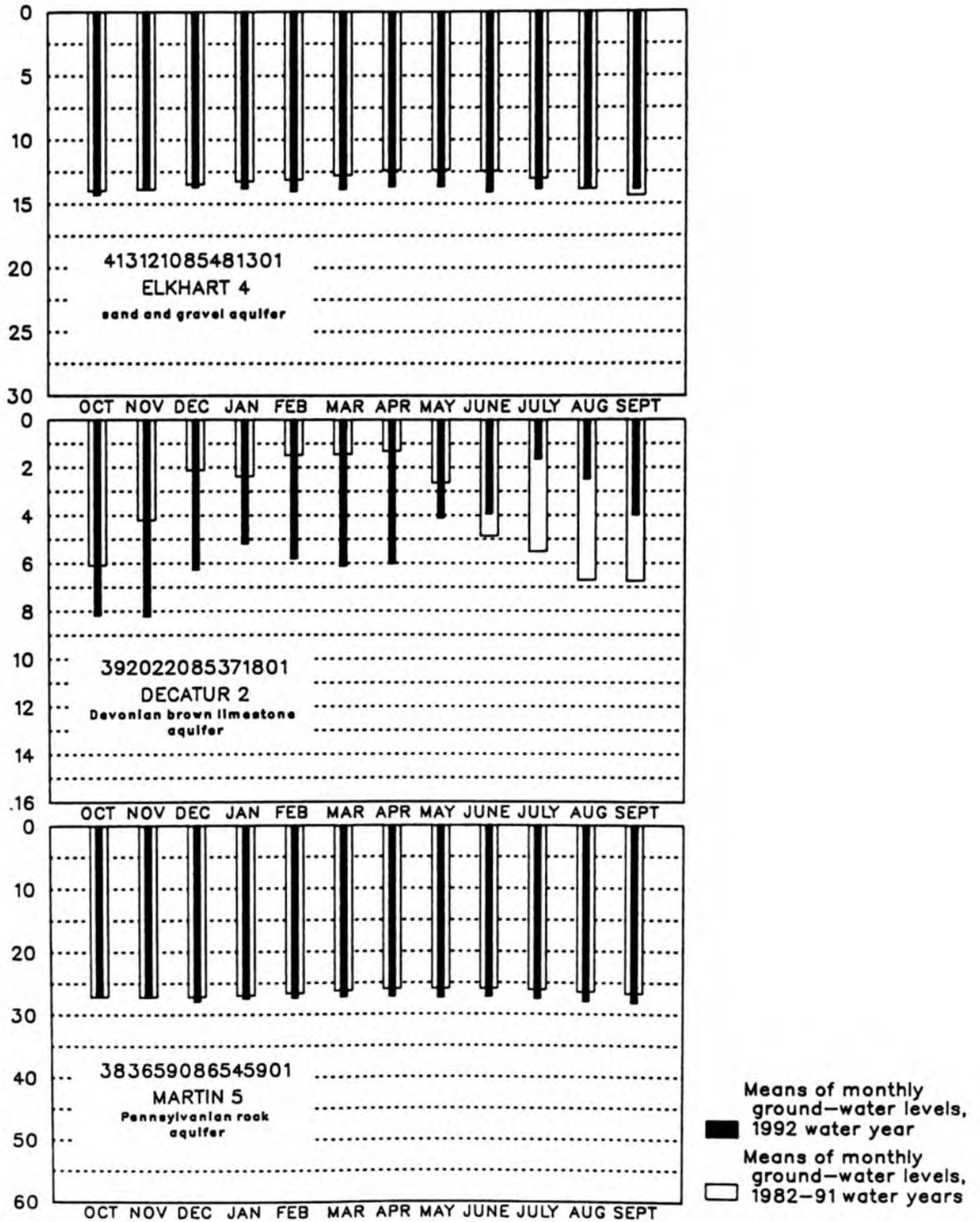


Figure 4. -- Monthly mean of daily minimum ground-water level at three Indiana ground-water observation wells during 1992 water year and mean of monthly ground-water levels for the period 1982-1991.

decreased July through September. In the 1992 Water Year, the mean monthly minimum water levels were all lower than the corresponding normal monthly minimums, with the exception of October. The mean monthly minimum water level for October of the Water Year was slightly higher than the normal monthly minimum water level for October.

Figure 4 shows a comparison of the mean monthly minimum water levels for the 1992 Water Year and the normal monthly minimum water levels for the period 1982-91.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Bench Mark Network is a nationwide network of 57 sites in small drainage basins around the country whose purposes are to provide consistent data on the hydrology, water quality, and related factors in undeveloped watersheds, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by the activities of man.

National Stream Quality Accounting Network (NASQAN) is a nationwide data-collection network of approximately 500 sites designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in natural or regional water-quality planning and management. NASQAN sites generally are located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are to: (1) Obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting; (2) describe the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs; (3) detect changes or trends with time in the pattern of occurrence of water-quality characteristics; and (4) provide a nationally consistent data base useful for water-quality assessment and hydrologic research.

EXPLANATION OF THE RECORDS

The surface-water and ground-water records published in this report are for the 1992 water year that began October 1, 1991, and ended September 30, 1992. 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.

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, in Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water-Resources Investigations (TWRI), Book 3, Chap. A6.

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."

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 monthly mean flow data for a designated period, by water year; and a summary statistics table that 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 be no need to 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 minimum monthly flows are provided immediately below those figures. The designated period of 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 heading. 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 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 is exceeded by 10 percent of the flow for the designated period.

50 PERCENT EXCEEDS.--The discharge that is exceeded by 50 percent of the flow for the designated period.

90 PERCENT EXCEEDS.--The discharge that is exceeded by 90 percent of the flow 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 ft³/s; to the nearest tenth between 1.0 and 10 ft³/s; to whole numbers between 10 and 1,000 ft³/s; and to 3 significant figures for more than 1,000 ft³/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 only. These stations are part of the Hydrologic Bench-Mark Network or the National Stream Quality Accounting Network (NASQAN). Locations of stations for which records on the quality of surface water appear in this report are shown on figures 4 and 5.

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.

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 given in publications on "Techniques of Water-Resources Investigations," Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4. All of these references are listed under "PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS" which appears at the end of the introductory text. Detailed information on collecting, treating, and shipping samples also may be obtained from the U.S. Geological Survey, Indiana District Office.

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 Stream Quality Accounting Network and the Hydrologic Bench-Mark Network 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 in analyzing sediment samples are given in TWRI, Book 5, Chap. C1. Methods used by the National Water-Quality Laboratory are given in TWRI, Book 5, Chap. A1, A4, and A5.

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.

WATER RESOURCES DATA - INDIANA, 1992

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 (nonideal 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.

NOTE: Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter ($\mu\text{g/L}$) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are with the range of 10's to 100's of nanograms per liter (ng/L). Present data above the $\mu\text{g/L}$ 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 will begin using new trace-element protocols in the near future.

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 6.

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 its 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 7.

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

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.
- M 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 22092

In addition to providing direct access to WATSTORE, data can be provided in various machine-readable formats on magnetic tape or 5-1/4 inch floppy disk; and, as noted in the introduction, on CD-ROM discs. Beginning with the 1990 water year, all water-data reports will also be available on Compact Disc - Read Only Memory (CD-ROM). All data reports published for the current water year for the entire Nation, including Puerto Rico and the Trust Territories, will be reproduced on a single CD-ROM disc. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Divisions's District offices. (See address on the back of the title page.) A limited number of CD-ROM discs will be available for sale by the Books and Open-File Reports Section, U.S. Geological Survey, Federal Center, Box 25425, Denver, Colorado 80225.

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 thread-like 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 $44.5\text{ }^{\circ}\text{C} \pm 0.2\text{ }^{\circ}\text{C}$ on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in the intestine of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as Gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms which produce red or pink colonies within 48 hours at $35\text{ }^{\circ}\text{C} \pm 1.0\text{ }^{\circ}\text{C}$ 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 [$(\text{ft}^3/\text{s})/\text{mi}^2$] 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 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.)

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.

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.

Micrograms per gram ($\mu\text{g/g}$) 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, $\mu\text{g/L}$) 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.

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:

<u>Classification</u>	<u>Size (mm)</u>	<u>Method of analysis</u>
Clay.....	0.00024 - 0.004	Sedimentation
Slit.....	.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 3.7×10^{10} radioactive disintegrations per second (dpm). A picocurie yields 2.22 dpm.

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 (ft³/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 planimeted. All areas shown are those for the stage when the planimeted 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- μ m 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- μ m 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- μ m 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 1.--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 (Cl^{-1})	.02821	Nitrate (NO_3^{-1})	.01613
Chromium (Cr^{+6})*	.11539	Nitrite (NO_2^{-1})	.02174
Cobalt (Co^{+2})*	.03394	Phosphate (PO_4^{-3})	.03159
Copper (Cu^{+2})*	.03148	Potassium (K^{+1})	.02557
Cyanide (CN^{-1})	.03844	Sodium (Na^{+1})	.04350
Fluoride (F^{-1})	.05264	Strontium (Sr^{+2})*	.02283
Hydrogen (H^{+1})	.99209	Sulfate (SO_4^{-2})	.02082
Hydroxide (OH^{-1})	.05880	Zinc (Zn^{+2})*	.03060

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

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

Range of concentration in 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.

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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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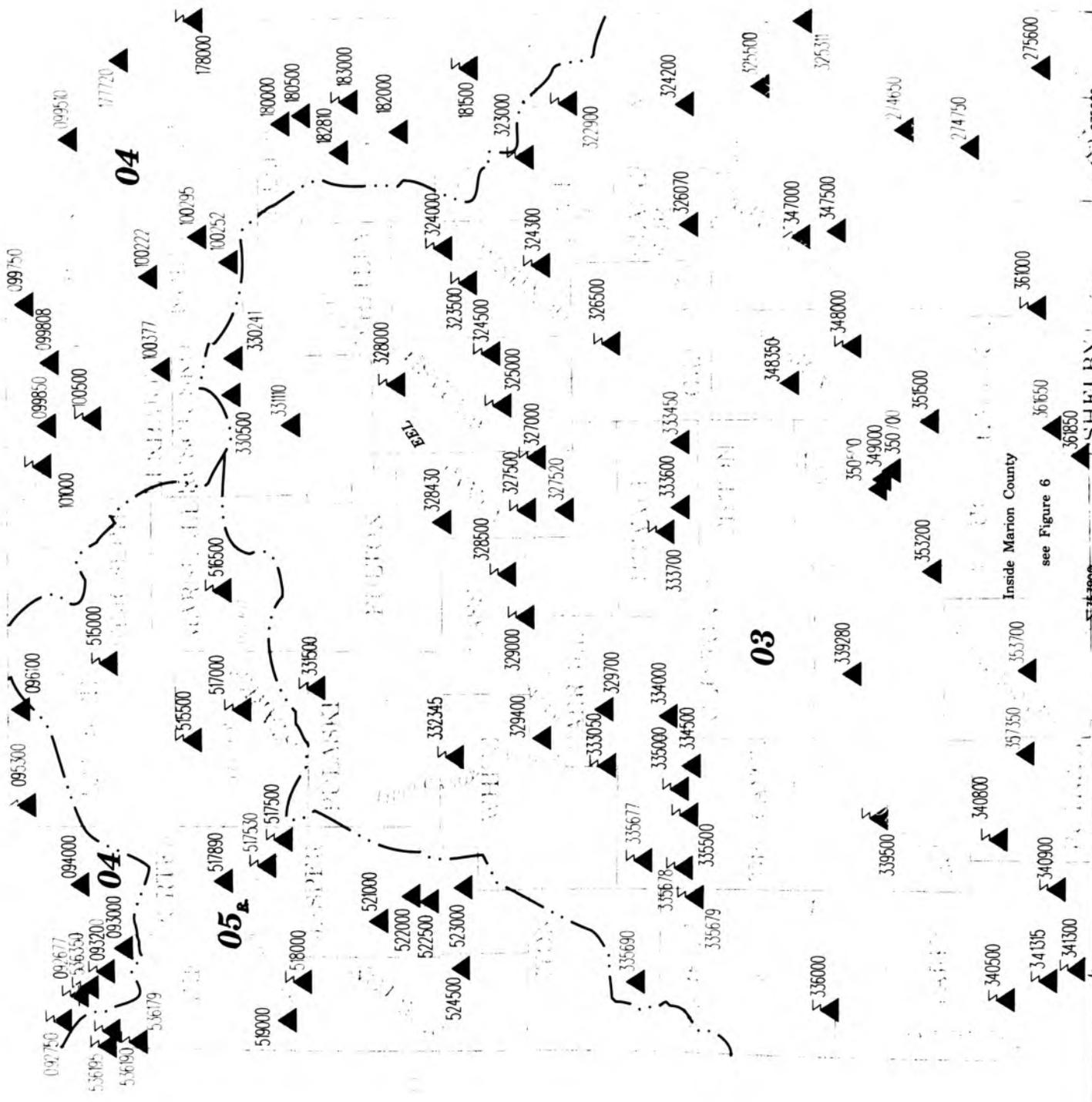
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Inside Marion County

see Figure 6

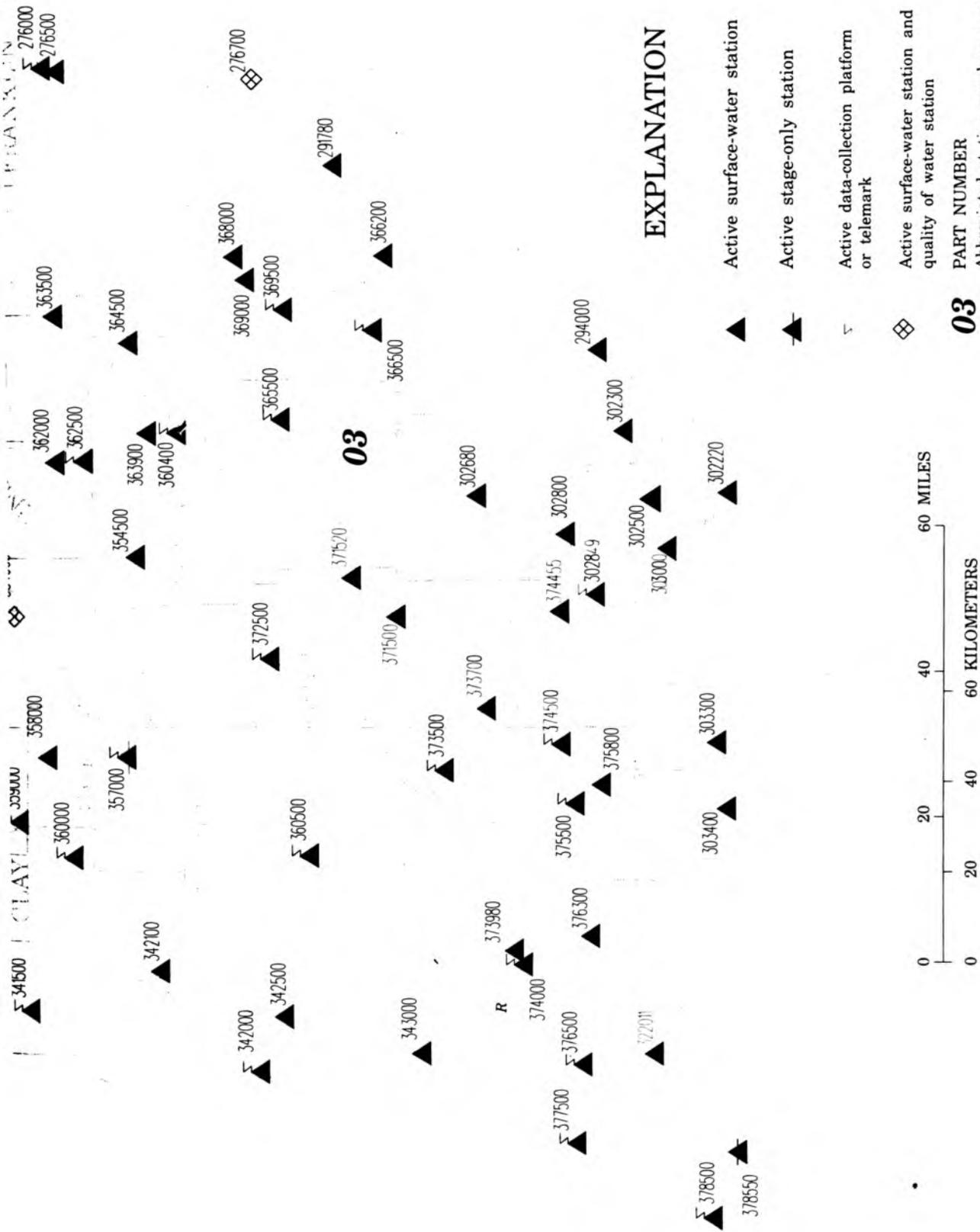


Figure 5.--Locations of streamflow and water-quality gaging stations in Indiana.

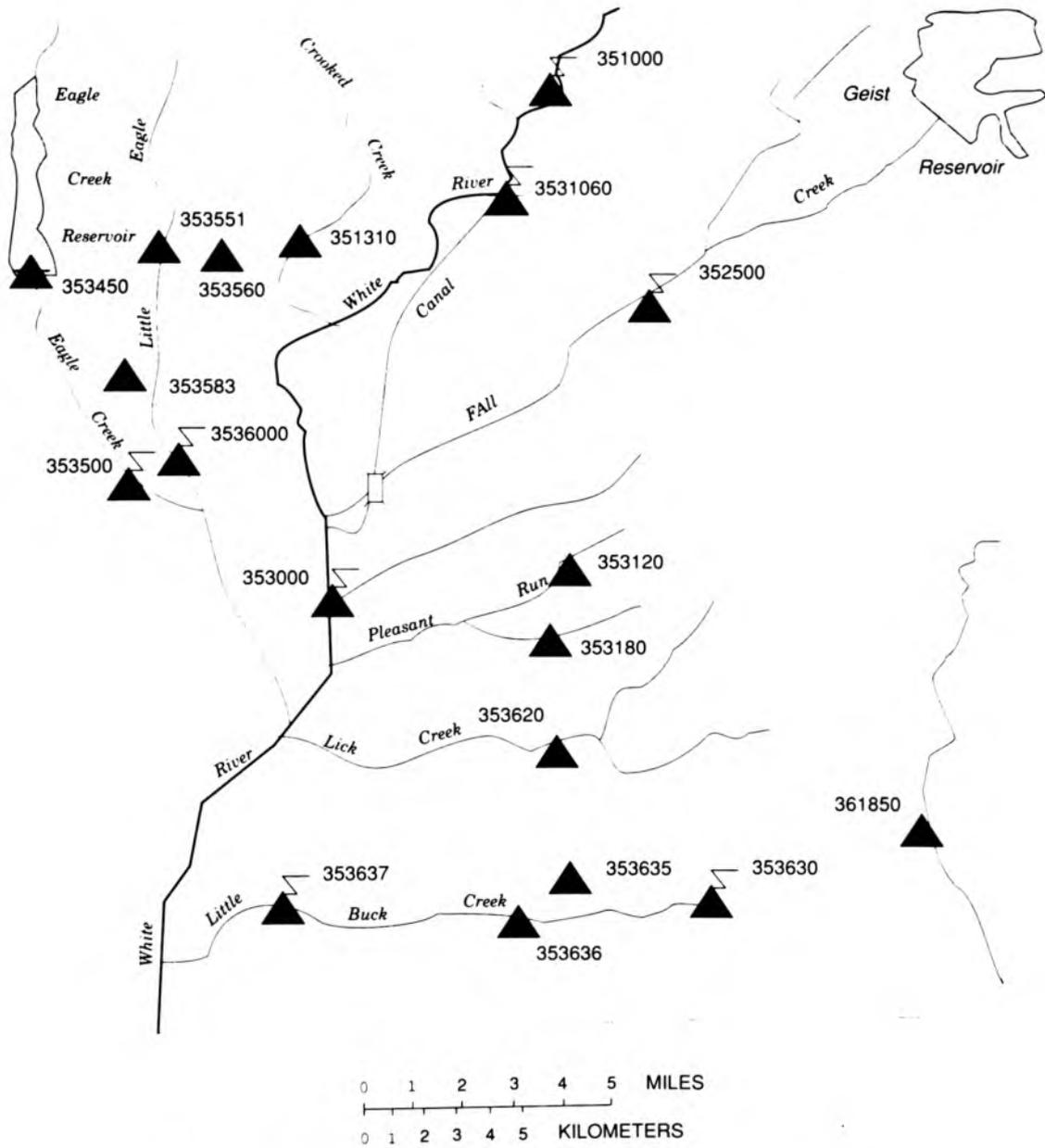


Figure 6.--Locations of streamflow and water-quality gaging stations in Marion County.

GREAT MIAMI RIVER BASIN

03274650 WHITEWATER RIVER NEAR ECONOMY, IN

LOCATION.--Lat 40°00'05", long 85°06'56", in NW¹/₄, NE¹/₄, 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 estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.48	.35	2.5	2.2	6.3	3.0	6.3	7.9	2.7	2.2	12	4.3
2	.43	.33	2.5	2.2	5.8	2.9	5.5	6.7	2.5	2.2	8.8	3.7
3	.44	.31	14	2.6	6.7	2.8	5.0	5.6	2.4	2.6	6.3	3.4
4	.42	.28	6.1	2.9	9.5	2.8	4.9	5.2	2.7	2.1	4.9	3.0
5	.44	.28	3.7	2.9	6.8	2.8	3.9	5.0	2.5	2.0	4.2	2.8
6	.42	.28	3.1	2.8	5.6	2.9	3.8	4.4	2.3	2.0	3.8	2.7
7	.43	.28	2.7	2.5	4.9	2.9	3.9	4.2	2.2	1.9	3.6	2.6
8	.42	.27	2.5	2.4	3.8	2.7	3.6	4.3	2.1	1.9	3.5	2.7
9	.41	.25	2.4	2.5	4.2	2.6	4.0	4.7	2.0	1.8	3.2	2.5
10	.39	.24	2.2	2.3	2.8	3.5	3.8	3.8	1.9	1.7	3.0	4.5
11	.40	.22	2.0	2.2	2.9	3.4	3.8	3.6	1.8	1.7	2.8	3.5
12	.39	.23	2.1	2.2	2.6	3.3	3.2	3.6	1.7	1.5	2.6	2.8
13	.40	.25	2.6	2.3	2.9	2.9	3.0	3.5	1.7	1.2	2.6	2.5
14	.39	.25	2.5	11	2.8	2.9	3.2	3.2	1.7	6.5	2.5	2.5
15	.36	.25	2.2	e8.0	17	2.7	3.2	3.3	1.7	21	2.4	2.2
16	.37	.25	2.1	e6.0	17	2.5	6.0	3.1	1.5	12	2.3	2.0
17	.37	.24	2.2	e4.7	11	2.7	105	3.2	1.5	45	2.2	2.0
18	.38	.25	2.0	e4.0	12	5.4	124	3.5	47	21	2.2	2.0
19	.38	1.1	1.6	e3.5	13	19	53	3.3	29	10	2.2	2.1
20	.40	6.6	1.6	e3.2	11	11	39	3.1	18	5.9	2.1	1.9
21	.41	9.0	1.9	e3.1	8.3	8.3	38	3.1	11	44	2.0	3.2
22	.41	4.0	1.9	3.0	7.0	7.8	24	3.0	6.5	23	2.0	6.8
23	.41	2.4	4.0	16	6.1	6.0	19	3.2	5.0	147	2.0	3.6
24	.41	1.8	4.6	e10	5.2	4.9	17	3.2	4.2	195	1.9	2.8
25	.47	1.4	3.2	e6.8	4.8	4.9	13	3.0	3.4	56	1.9	2.3
26	1.1	1.2	2.8	e4.8	4.4	5.2	10	3.0	2.9	31	2.1	2.1
27	1.1	1.2	2.5	e3.6	4.0	6.4	8.3	2.8	2.7	23	50	2.5
28	.63	1.5	2.4	e3.0	3.7	6.8	7.2	2.7	2.4	18	50	2.1
29	.44	2.1	2.6	3.6	3.2	6.3	6.8	2.6	2.3	15	19	1.8
30	.36	2.6	2.3	4.1	---	7.3	9.4	3.2	2.3	15	12	1.7
31	.32	---	2.2	7.8	---	6.9	---	3.0	---	23	6.6	---
TOTAL	14.18	39.71	93.0	138.2	195.3	155.5	540.8	118.0	171.6	760.5	226.7	84.6
MEAN	.46	1.32	3.00	4.46	6.73	5.02	18.0	3.81	5.72	24.5	7.31	2.82
MAX	1.1	9.0	14	16	17	19	124	7.9	47	195	50	6.8
MIN	.32	.22	1.6	2.2	2.6	2.5	3.0	2.6	1.5	1.7	1.9	1.7
CFSM	.04	.13	.29	.43	.65	.48	1.73	.37	.55	2.36	.70	.27
IN.	.05	.14	.33	.49	.70	.56	1.93	.42	.61	2.72	.81	.30

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1992, BY WATER YEAR (WY)

	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
MEAN	4.02	8.75	13.9	11.8	20.3	21.3	17.6	12.0	8.01	6.98	5.46	3.65											
MAX	39.9	53.0	39.7	33.0	56.0	41.6	38.0	42.6	22.4	27.5	61.5	32.2											
(WY)	1987	1973	1978	1975	1985	1978	1989	1973	1979	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 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1971 - 1992
ANNUAL TOTAL	2617.10	2538.09	
ANNUAL MEAN	7.17	6.93	11.1
HIGHEST ANNUAL MEAN			18.8
LOWEST ANNUAL MEAN			3.26
HIGHEST DAILY MEAN	110	195	569
LOWEST DAILY MEAN	.22	.22	.22
ANNUAL SEVEN-DAY MINIMUM	.24	.24	.24
INSTANTANEOUS PEAK FLOW		653	1100
INSTANTANEOUS PEAK STAGE		7.34	8.85
ANNUAL RUNOFF (CFSM)	.69	.67	1.07
ANNUAL RUNOFF (INCHES)	9.36	9.08	14.50
10 PERCENT EXCEEDS	17	12	26
50 PERCENT EXCEEDS	2.6	2.9	3.8
90 PERCENT EXCEEDS	.42	.42	.71

GREAT MIAMI RIVER BASIN

03275000 WHITEWATER RIVER NEAR ALPINE, IN
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSIS: October 1986 to current year.

SEDIMENT DISCHARGE: July 1968 to September 1976, October 1986 to current year (partial-record station).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE PER (US/CM) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM) (90095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	
OCT	31...	1400	109	698	742	8.0	7.9	21.0	16.0	745	9.2	96
JAN	08...	1245	159	688	707	8.4	8.3	2.0	5.0	749	12.3	98
MAR	05...	1300	183	652	666	8.3	8.2	16.0	12.5	748	10.8	103
APR	30...	1100	546	654	662	8.0	8.2	29.0	14.0	747	10.4	103
JUL	08...	1525	208	641	637	8.3	8.3	33.0	20.0	744	11.9	135
SEP	01...	1330	280	645	665	8.1	8.3	25.0	19.0	750	9.3	103

DATE	TUR- BID- ITY (NTU) (00076)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI KF AGAR (COLS. PER 100 ML) (31673)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	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)	ALKA- LINITY WAT DIS FIX END FIELD CACO3 (MG/L) (39036)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	
OCT	31...	19	170	46	240	0	62	20	60	4.7	280	285
JAN	08...	1.2	220	34	360	68	92	31	14	2.2	290	289
MAR	05...	1.3	2000	320	330	64	81	32	14	2.0	270	270
APR	30...	5.5	170	82	320	42	82	29	10	1.5	280	283
JUL	08...	1.4	290	35	320	48	80	30	10	2.0	270	275
SEP	01...	3.0	800	77	340	61	87	30	13	2.6	280	279

DATE	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	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 SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED AS (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	
OCT	31...	183	348	0	88	79	0.40	5.3	422	504	124	0.020
JAN	08...	293	345	4	54	31	0.20	6.2	451	421	194	0.010
MAR	05...	271	329	0	48	28	0.20	2.2	381	382	188	0.020
APR	30...	273	345	0	48	25	0.20	7.0	385	391	568	0.020
JUL	08...	241	314	11	43	24	0.10	4.7	363	374	204	0.020
SEP	01...	266	297	22	43	27	0.30	7.4	387	393	293	0.020

GREAT MIAMI RIVER BASIN

03275000 WHITEWATER RIVER NEAR ALPINE, IN --Continued
(National stream-quality accounting network station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	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)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
	OCT 31...	2.90	0.040	0.030	0.30	0.120	0.100	0.080	20	54	<3
JAN 08...	3.50	0.020	0.020	<0.20	0.080	0.070	0.070	<10	83	<3	3
MAR 05...	2.80	0.050	0.050	0.40	0.090	0.040	0.030	--	--	--	--
APR 30...	4.10	0.060	0.050	0.20	0.060	0.030	0.040	10	75	<3	5
JUL 08...	3.20	0.020	0.020	0.30	0.060	0.030	0.030	<10	77	<3	9
SEP 01...	3.30	0.030	0.050	0.30	0.080	0.070	0.070	--	--	--	--

DATE	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	SEDI- MENT, SUS- PENDEDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. & FINER THAN .062 MM (70331)
	OCT 31...	6	21	10	4	1	<1.0	210	<6	19	5.6
JAN 08...	7	6	10	<1	<1	<1.0	430	<6	17	7.3	25
MAR 05...	--	--	--	--	--	--	--	--	17	8.4	22
APR 30...	<4	10	10	1	<1	<1.0	390	<6	46	68	53
JUL 08...	<4	7	<10	5	<1	<1.0	380	<6	28	16	38
SEP 01...	--	--	--	--	--	--	--	--	51	39	51

03275600 EAST FORK WHITEWATER RIVER AT ABINGTON, IN

LOCATION.--Lat 39°43'59", long 84°57'35", in NE¹/₄, SW¹/₄, 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 fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	29	49	49	82	76	133	124	108	115	160	64
2	25	30	51	51	81	75	124	119	102	113	141	62
3	25	27	80	86	82	76	117	117	100	139	132	75
4	25	26	58	84	85	74	118	116	102	124	122	62
5	25	26	50	74	81	73	111	113	200	114	111	58
6	25	26	48	66	80	77	104	111	209	111	103	70
7	24	26	46	62	77	77	104	110	280	108	98	54
8	24	26	45	59	71	75	104	108	178	116	135	61
9	24	26	44	59	68	73	144	112	122	113	110	53
10	26	26	44	55	69	84	131	108	106	112	98	64
11	26	26	44	52	66	79	123	102	105	109	99	54
12	25	27	45	51	68	76	114	100	104	158	96	48
13	25	27	55	55	71	72	106	99	98	130	91	44
14	25	27	48	170	77	71	109	96	94	120	90	42
15	26	27	45	114	91	69	110	94	90	208	88	40
16	25	30	43	e85	95	66	113	91	85	159	85	39
17	25	27	44	e72	95	67	954	129	81	1380	81	39
18	26	28	43	e68	101	116	3320	135	1440	530	80	41
19	26	78	41	e68	104	324	2030	105	497	315	80	40
20	26	64	42	e68	101	240	889	101	241	301	77	39
21	26	51	45	69	100	198	1020	97	182	337	76	57
22	26	45	44	70	95	175	646	92	156	337	75	69
23	27	42	65	81	91	149	358	88	148	809	74	46
24	27	40	56	86	88	126	269	101	147	3350	78	41
25	30	39	50	75	86	113	219	101	147	774	77	38
26	50	37	48	74	83	112	183	95	142	1270	89	38
27	38	38	47	72	82	119	161	91	134	651	172	41
28	30	44	47	72	80	117	140	87	127	288	188	38
29	28	40	58	71	79	115	129	84	122	211	119	37
30	27	58	53	78	---	128	139	142	119	206	92	37
31	27	---	50	84	---	136	---	138	---	188	77	---
TOTAL	839	1063	1528	2280	2429	3428	12322	3306	5766	12996	3194	1491
MEAN	27.1	35.4	49.3	73.5	83.8	111	411	107	192	419	103	49.7
MAX	50	78	80	170	104	324	3320	142	1440	3350	188	75
MIN	24	26	41	49	66	66	104	84	81	108	74	37
CFSM	.14	.18	.25	.37	.42	.55	2.05	.53	.96	2.10	.52	.25
IN.	.16	.20	.28	.42	.45	.64	2.29	.61	1.07	2.42	.59	.28

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1992, BY WATER YEAR (WY)

	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
MEAN	82.7	161	298	248	339	380	357	321	165	168	119	59.2																
MAX	615	558	929	708	901	884	748	1049	419	773	773	242																
(WY)	1987	1973	1991	1969	1975	1978	1970	1968	1980	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 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1966 - 1992	
ANNUAL TOTAL	69198		50642			
ANNUAL MEAN	190		138		224	
HIGHEST ANNUAL MEAN					388	
LOWEST ANNUAL MEAN					92.3	
HIGHEST DAILY MEAN	2780	Mar 22	3350	Jul 24	9990	Dec 30 1990
LOWEST DAILY MEAN	24	Oct 7	24	Oct 7	11	Aug 18 1988
ANNUAL SEVEN-DAY MINIMUM	25	Oct 3	25	Oct 3	13	Aug 13 1988
INSTANTANEOUS PEAK FLOW			5800		20000	
INSTANTANEOUS PEAK STAGE			11.39		16.18	
ANNUAL RUNOFF (CFSM)	.95		.69		1.12	
ANNUAL RUNOFF (INCHES)	12.87		9.42		15.25	
10 PERCENT EXCEEDS	433		182		454	
50 PERCENT EXCEEDS	80		81		111	
90 PERCENT EXCEEDS	27		27		34	

03276000 EAST FORK WHITEWATER RIVER AT BROOKVILLE, IN

LOCATION.--Lat 39°26'02", long 85°00'12", in NE¹/₄NE¹/₄ 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 Brookville Lake since January 1974. Daily discharge computed from relation between discharge, head, and gate openings for Brookville Lake beginning Oct. 1, 1991.

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

AVERAGE DISCHARGE.--38 years, 401 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.--Maximum daily discharge, 3,910 ft³/s Aug. 1; minimum daily discharge 0.00 ft³/s Nov. 27, July 14-16, 21-26, Aug. 4-27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	256	758	247	93	370	138	41	315	387	97	3910	57
2	256	758	247	93	370	52	41	484	387	97	1540	57
3	256	757	248	267	225	15	41	484	387	97	128	57
4	312	756	248	371	138	41	41	484	387	97	.00	57
5	304	755	248	371	138	41	41	484	387	97	.00	57
6	256	754	248	371	90	41	41	484	540	627	.00	57
7	256	754	247	371	55	41	34	353	775	909	.00	57
8	256	753	247	371	55	41	41	436	1100	908	.00	57
9	256	752	212	370	55	41	41	387	1270	907	.00	263
10	256	751	191	197	55	41	41	387	680	1110	.00	387
11	256	751	158	93	55	41	41	391	386	1410	.00	387
12	256	750	138	93	55	41	41	237	386	1200	.00	387
13	256	749	138	93	55	41	41	144	386	255	.00	387
14	256	748	138	184	135	41	41	144	386	.00	.00	386
15	256	748	138	248	191	41	41	144	285	.00	.00	181
16	256	747	110	248	191	41	41	144	144	.00	.00	40
17	256	746	93	248	191	41	41	144	144	407	.00	57
18	256	746	93	248	191	41	41	144	771	3190	.00	57
19	256	745	93	248	296	41	42	144	1480	3450	.00	57
20	255	745	93	248	371	41	42	144	1670	400	.00	57
21	573	744	93	248	371	41	42	144	1660	.00	.00	57
22	467	744	93	248	371	41	42	182	1340	.00	.00	19
23	255	743	93	325	371	41	42	200	955	.00	.00	29
24	615	742	93	371	371	41	102	317	481	.00	.00	57
25	763	510	93	371	225	41	144	387	155	.00	.00	57
26	762	139	93	371	130	41	144	387	215	.00	.00	57
27	762	.00	93	371	138	41	236	387	386	1150	.00	57
28	761	165	93	371	138	41	315	387	386	3000	40	57
29	760	247	93	371	138	41	315	386	181	2590	57	57
30	760	247	93	370	---	41	315	387	97	2930	57	57
31	759	---	93	370	---	41	---	387	---	3690	57	---
TOTAL	12460	19304.00	4598	8613	5535	1353	2512	9629	18194	28618.00	5789.00	3606
MEAN	402	643	148	278	191	43.6	83.7	311	606	923	187	120
MAX	763	758	248	371	371	138	315	484	1670	3690	3910	387
MIN	255	.00	93	93	55	15	34	144	97	.00	.00	19
CAL YR 1991	TOTAL	164480.00	MEAN	451	MAX	2880	MIN	.00				
WTR YR 1992	TOTAL	120211.00	MEAN	328	MAX	3910	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 NE¹/₄, NW¹/₄, 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 fair. 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	231	606	320	320	651	402	729	890	724	354	5440	688
2	222	601	358	303	654	328	646	958	551	353	2670	612
3	214	595	852	650	555	287	590	921	578	843	1060	578
4	207	585	601	712	482	296	576	860	651	544	857	530
5	204	585	506	606	510	302	600	874	624	455	754	502
6	201	585	439	572	473	300	529	854	762	758	683	702
7	199	582	398	546	404	313	489	719	1000	1120	618	553
8	197	583	374	529	380	325	463	719	1310	1040	639	502
9	194	570	347	514	356	314	488	750	1400	970	639	667
10	197	569	325	416	334	312	599	754	976	1410	544	773
11	194	569	307	302	326	349	606	798	658	1530	486	759
12	192	573	275	292	317	350	546	700	636	2820	429	746
13	191	569	310	285	319	339	472	541	609	1040	390	724
14	191	569	389	944	382	326	436	508	595	599	365	591
15	190	569	336	890	470	313	429	486	543	1840	352	458
16	188	569	298	700	587	299	431	470	388	985	346	309
17	188	569	271	580	715	289	951	451	330	8590	331	341
18	187	569	264	520	670	363	3550	583	4520	5400	319	347
19	186	594	254	480	726	1050	6940	612	4770	4750	307	358
20	186	610	248	490	813	918	3340	533	2890	1990	291	352
21	285	686	251	505	782	746	4600	472	2370	1230	281	347
22	297	723	251	492	752	651	2590	452	1920	1780	269	571
23	225	698	293	588	721	593	1730	473	1470	1200	256	417
24	463	664	422	747	699	520	1400	674	962	3840	250	381
25	587	507	348	786	591	469	1220	684	678	5270	247	349
26	610	259	323	735	480	466	1100	638	562	2220	258	340
27	619	192	304	691	470	493	1010	601	710	3550	1010	333
28	631	235	292	676	455	482	991	598	674	4270	2480	325
29	627	275	302	660	434	487	940	589	484	3270	1150	315
30	616	291	350	643	---	563	921	784	369	5220	898	308
31	608	---	324	647	---	901	---	823	---	8110	787	---
TOTAL	9527	16151	10932	17821	15508	14146	39912	20769	34714	77351	25406	14778
MEAN	307	538	353	575	535	456	1330	670	1157	2495	820	493
MAX	631	723	852	944	813	1050	6940	958	4770	8590	5440	773
MIN	186	192	248	285	317	287	429	451	330	353	247	308
CFSM	.25	.44	.29	.47	.44	.37	1.09	.55	.95	2.04	.67	.40
IN.	.29	.49	.33	.54	.47	.43	1.21	.63	1.06	2.35	.77	.45

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 1992, BY WATER YEAR (WY)

	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	
MEAN	461	838	1290	1954	2025	2304	2128	1630	1113	749	510	420																
MAX	2796	3238	5468	9401	6290	5909	4664	5738	4710	3390	4271	4239																
(WY)	1927	1956	1991	1937	1950	1963	1964	1968	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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1916 - 1992

ANNUAL TOTAL	505899	297015	
ANNUAL MEAN	1386	812	1281
HIGHEST ANNUAL MEAN			2359
LOWEST ANNUAL MEAN			271
HIGHEST DAILY MEAN	13000	Mar 23	55000
LOWEST DAILY MEAN	183	Aug 27	60
ANNUAL SEVEN-DAY MINIMUM	187	Aug 23	66
INSTANTANEOUS PEAK FLOW			81800
INSTANTANEOUS PEAK STAGE			27.78
ANNUAL RUNOFF (CFSM)	1.13		1.05
ANNUAL RUNOFF (INCHES)	15.38		14.22
10 PERCENT EXCEEDS	4120	1220	2770
50 PERCENT EXCEEDS	582	569	610
90 PERCENT EXCEEDS	192	275	162

HOGAN CREEK BASIN

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: October 1968 to current year.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM) (90095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND-ARD UNITS) (00403)	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)
OCT 30...	1330	0.67	633	644	7.9	8.1	22.0	17.5	754	7.4	78
MAR 04...	1100	5.2	525	525	8.1	8.2	22.0	11.0	754	11.2	103
APR 29...	1045	11	487	489	8.6	8.4	16.0	13.0	753	14.1	135
JUL 09...	1145	186	361	331	8.0	8.0	31.0	22.0	750	8.2	96
DATE	TUR-BID-ITY (NTU) (00076)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREP-TOCOCCI, FECAL, KF AGAR PER (COLS./100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	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)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L) (39036)	ALKA-LINITY WAT DIS TOT IT (MG/L AS CACO3) (39086)
OCT 30...	4.5	70	270	280	91	87	14	22	7.3	180	184
MAR 04...	2.1	27	K6	240	72	73	14	14	3.4	170	168
APR 29...	1.7	17	K15	240	49	71	14	10	2.0	180	186
JUL 09...	180	K24000	K96000	150	24	48	7.5	5.4	4.5	130	127
DATE	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	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 (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
OCT 30...	196	225	0	88	43	0.20	6.7	381	380	0.69	<0.010
MAR 04...	164	205	0	80	24	0.20	0.16	316	311	4.45	0.010
APR 29...	181	227	0	62	15	0.30	0.65	295	287	8.84	<0.010
JUL 09...	128	155	0	24	8.9	<0.10	6.1	193	186	96.9	0.020
DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	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)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	
OCT 30...	0.140	0.020	0.010	0.30	0.070	0.050	0.040	<10	54	<3	
MAR 04...	0.240	0.020	0.030	0.30	0.040	0.010	<0.010	<10	39	<3	
APR 29...	<0.050	0.030	0.020	0.20	<0.010	<0.010	0.010	10	34	<3	
JUL 09...	1.10	0.080	0.090	0.90	0.230	0.080	0.080	70	32	<3	

HOGAN CREEK BASIN

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT) (80030)
OCT 30...	7	6	24	<10	<1	<1	<1.0	300	<6	0.9
MAR 04...	3	9	17	<10	<1	<1	<1.0	230	<6	<0.6
APR 29...	6	<4	16	<10	1	<1	<1.0	230	<6	--
JUL 09...	85	4	4	<10	2	<1	<1.0	120	<6	--

DATE	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT) (80040)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137) (03516)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90) (80050)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90) (80060)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L) (09511)	URANIUM DIS- SOLVED (UG/L AS U) (22703)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 30...	<0.6	9.3	<0.6	7.1	<0.6	0.04	0.37	6	0.01	73
MAR 04...	<0.6	4.6	<0.6	3.8	<0.6	0.04	0.59	3	0.04	10
APR 29...	--	--	--	--	--	--	--	6	0.18	62
JUL 09...	--	--	--	--	--	--	--	362	182	99

INDIAN-KENTUCK CREEK BASIN

03291780 INDIAN-KENTUCK CREEK NEAR CANAAN, IN

LOCATION.--Lat 38°52'41", long 85°15'26", in SW¹/₄/NW¹/₄, 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 good except for estimated daily discharges and those below 1 ft³/s, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.02	10	14	7.2	e4.1	38	7.1	2.7	2.1	7.2	1.6
2	.00	.02	254	63	6.3	e3.3	31	5.9	2.4	12	4.6	1.4
3	.00	.02	168	313	6.6	e3.1	27	5.7	2.3	281	15	1.4
4	.00	.04	20	57	6.5	e3.0	30	4.5	2.5	25	6.7	1.2
5	.00	.04	e10	30	e5.2	e2.9	30	4.4	3.0	12	3.5	1.3
6	.00	.04	e7.0	22	e4.3	e5.4	24	3.9	8.9	14	2.5	1.3
7	.00	.04	e5.8	17	e4.7	e31	22	3.1	34	6.8	2.2	1.3
8	.00	.04	e4.5	14	e4.1	e20	22	3.2	19	4.9	255	1.2
9	.00	.04	e3.5	13	e3.6	e11	21	5.1	9.2	3.5	39	1.4
10	.00	.04	e2.9	11	e3.3	e37	22	4.5	5.1	2.6	17	1.4
11	.00	.04	e2.5	9.1	e3.5	e36	27	3.2	3.1	14	10	1.3
12	.00	.04	e2.6	8.6	e3.3	e27	19	2.7	2.3	47	6.1	1.2
13	.00	.04	e66	9.4	e4.2	e19	16	3.4	2.1	10	4.2	1.2
14	.00	.04	e52	196	e5.4	e14	15	3.0	53	4.3	3.2	1.1
15	.00	.04	e20	43	e9.0	e11	14	2.6	17	21	2.9	1.0
16	.00	.07	e11	e27	e9.3	e8.0	17	2.5	7.2	17	2.4	.91
17	.00	.07	e8.0	e20	e6.2	e7.5	27	2.6	4.1	141	2.3	.90
18	.00	.07	6.9	e16	e6.2	e210	35	3.5	1470	34	2.0	1.1
19	.00	.07	5.6	e14	e6.2	e490	36	7.0	144	17	1.9	1.7
20	.00	.13	5.0	e12	e5.8	e110	37	3.2	47	9.8	1.8	1.5
21	.00	.14	6.5	e10	e5.5	e60	58	2.6	27	8.9	1.6	4.7
22	.00	.14	6.3	11	e4.8	e43	36	2.4	19	6.3	1.4	13
23	.00	.16	70	18	e4.8	e34	27	2.4	14	92	1.4	3.5
24	.00	.21	31	17	e4.5	e25	22	2.5	13	37	1.2	1.5
25	.00	.18	18	14	e4.8	e22	18	2.4	9.0	14	1.1	.95
26	.00	.18	13	11	e4.7	e60	15	2.1	6.0	438	1.1	.70
27	.01	.19	10	10	e4.2	e85	13	2.0	4.0	74	2.4	.65
28	.00	.26	9.2	9.8	e4.0	e40	11	1.9	2.8	29	12	.63
29	.00	.24	27	8.5	e3.7	e26	9.1	2.0	2.4	17	3.1	.45
30	.00	30	29	7.9	---	e60	8.7	11	2.1	14	2.0	.36
31	.00	---	18	8.3	---	67	---	5.9	---	15	1.7	---
TOTAL	0.01	32.65	903.3	1034.6	151.9	1575.3	727.8	118.3	1938.2	1424.2	418.5	51.85
MEAN	.001	1.09	29.1	33.4	5.24	50.8	24.3	3.82	64.6	45.9	13.5	1.73
MAX	.01	30	254	313	9.3	490	58	11	1470	438	255	13
MIN	.00	.02	2.5	7.9	3.3	2.9	8.7	1.9	2.1	2.1	1.1	.36
CFSM	.00	.04	1.06	1.21	.19	1.85	.88	.14	2.35	1.67	.49	.06
IN.	.00	.04	1.22	1.40	.21	2.13	.98	.16	2.62	1.93	.57	.07

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1992, BY WATER YEAR (WY)

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
MEAN	11.8	35.6	50.9	44.3	57.4	68.3	55.6	39.4	20.5	12.2	11.3	7.75												
MAX	83.6	137	173	169	136	134	104	193	64.6	45.9	58.6	57.9												
(WY)	1984	1980	1991	1982	1990	1975	1981	1983	1992	1992	1979	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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1970 - 1992

ANNUAL TOTAL	11002.55	8376.61	
ANNUAL MEAN	30.1	22.9	34.5
HIGHEST ANNUAL MEAN			55.8
LOWEST ANNUAL MEAN			17.0
HIGHEST DAILY MEAN	676	1470	1630
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		5360	7800
INSTANTANEOUS PEAK STAGE		9.88	11.34
ANNUAL RUNOFF (CFSM)	1.10	.83	1.25
ANNUAL RUNOFF (INCHES)	14.88	11.33	17.04
10 PERCENT EXCEEDS	68	37	73
50 PERCENT EXCEEDS	4.8	5.3	8.8
90 PERCENT EXCEEDS	.00	.04	.14

03302220 BUCK CREEK NEAR NEW MIDDLETOWN, IN

LOCATION.--Lat 38°07'13", long 86°05'16", in SE¹/₄, NE¹/₄, 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 14.4 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.71	9.0	12	54	17	30	168	20	38	9.3	58	5.4
2	1.1	12	77	53	12	28	130	20	29	9.3	35	6.2
3	1.4	10	180	120	11	27	111	29	26	54	117	7.7
4	1.4	9.2	51	107	12	34	104	20	41	21	103	6.3
5	1.2	7.8	32	83	11	33	78	19	40	13	50	6.2
6	1.2	7.7	25	70	11	35	65	17	31	11	31	5.5
7	1.2	7.9	20	57	12	95	59	16	26	8.4	22	5.0
8	1.1	6.8	17	50	11	83	51	15	21	7.5	666	5.9
9	1.1	6.5	15	46	9.2	70	42	18	18	6.7	345	4.6
10	1.5	5.8	14	41	9.3	282	41	16	15	6.1	156	4.4
11	1.8	5.7	12	37	9.5	184	38	13	13	5.6	96	e3.6
12	1.6	5.8	11	36	9.5	132	35	16	12	6.1	56	e2.9
13	1.4	6.1	91	36	14	100	32	33	21	5.0	40	e2.5
14	1.4	7.4	166	139	16	85	30	23	15	4.5	44	e2.4
15	1.6	9.2	91	110	23	72	34	18	11	7.2	42	e2.3
16	1.6	12	64	83	32	60	98	15	21	4.1	27	e2.2
17	1.6	12	49	66	27	58	80	12	13	3.6	39	e2.0
18	1.8	11	38	49	27	691	63	23	431	3.3	28	e3.5
19	1.7	15	30	40	25	1120	53	18	191	2.7	22	e9.0
20	1.7	52	32	38	21	405	47	17	109	2.3	17	e2.7
21	1.7	38	34	38	18	240	46	18	70	4.3	13	e3.0
22	1.8	18	32	35	16	185	40	25	47	4.0	10	e4.8
23	1.9	13	120	37	26	138	33	16	38	3.4	9.0	e15
24	2.3	10	111	34	93	96	32	14	46	4.1	8.1	e10
25	2.9	8.6	76	29	70	86	30	12	31	4.8	6.8	e6.4
26	3.1	6.8	60	27	56	83	28	11	23	14	6.1	e4.8
27	39	6.6	49	26	45	75	27	9.5	17	239	5.8	e5.4
28	31	6.7	45	20	40	66	25	8.7	13	121	9.6	e4.5
29	14	6.5	66	19	36	63	23	24	11	52	8.6	e5.0
30	8.7	6.9	75	18	---	204	22	86	9.6	77	6.4	e3.6
31	6.7	---	63	19	---	239	---	56	---	123	5.9	---
TOTAL	141.21	340.0	1758	1617	719.5	5099	1665	658.2	1427.6	837.3	2083.3	152.8
MEAN	4.56	11.3	56.7	52.2	24.8	164	55.5	21.2	47.6	27.0	67.2	5.09
MAX	39	52	180	139	93	1120	168	86	431	239	666	15
MIN	.71	5.7	11	18	9.2	27	22	8.7	9.6	2.3	5.8	2.0
CFSM	.07	.17	.87	.80	.38	2.52	.85	.33	.73	.41	1.03	.08
IN.	.08	.19	1.00	.92	.41	2.91	.95	.38	.81	.48	1.19	.09

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1992, BY WATER YEAR (WY)

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
MEAN	18.9	59.8	104	98.9	137	142	151	96.4	50.5	31.3	17.9	18.7												
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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1970 - 1992

ANNUAL TOTAL	23992.54	16498.91	
ANNUAL MEAN	65.7	45.1	76.8
HIGHEST ANNUAL MEAN			146
LOWEST ANNUAL MEAN			32.8
HIGHEST DAILY MEAN	1110	Mar 22	3970
LOWEST DAILY MEAN	.71	Oct 1	.52
ANNUAL SEVEN-DAY MINIMUM	1.1	Sep 30	.57
INSTANTANEOUS PEAK FLOW			3650
INSTANTANEOUS PEAK STAGE			8.81
ANNUAL RUNOFF (CFSM)	1.01		.69
ANNUAL RUNOFF (INCHES)	13.69		9.41
10 PERCENT EXCEEDS	168		97
50 PERCENT EXCEEDS	25		20
90 PERCENT EXCEEDS	1.6		3.2
			171
			28
			3.6
			14.40
			1.18
			16.01
			Apr 2 1970
			Apr 2 1970
			May 1 1983
			Jul 10 1988
			Jul 4 1988
			Apr 2 1970
			Apr 2 1970

03302300 LITTLE INDIAN CREEK NEAR GALENA, IN

LOCATION.--Lat 38°19'19", long 85°55'53", in NE¹/₄SW¹/₄ 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.19	.29	2.7	2.3	3.1	25	4.4	10	.75	3.6	e.50
2	.00	.26	36	3.9	2.2	2.9	19	6.5	7.1	.72	2.5	e.45
3	.00	.22	31	17	2.1	2.8	15	9.2	5.5	2.5	1.9	e.41
4	.00	.20	3.7	8.8	2.1	2.3	14	4.9	11	1.6	1.7	e.40
5	.00	.19	2.3	5.8	2.0	2.3	11	4.7	8.5	.93	1.4	e.36
6	.00	.19	1.9	4.6	2.0	2.4	10	4.1	6.1	.74	.96	e.58
7	.00	.19	1.7	3.7	2.0	34	9.6	3.8	5.6	.60	.85	e.69
8	.00	.19	1.6	3.3	1.9	21	8.4	3.7	5.1	.53	160	e.45
9	.00	.19	1.5	3.3	1.7	12	7.9	6.2	4.3	.50	17	e.35
10	.00	.17	1.5	2.9	1.7	55	7.3	4.8	3.8	.41	6.8	e.27
11	.00	.17	1.4	2.7	1.7	33	6.9	4.0	3.3	.44	4.5	e.24
12	.00	.17	1.4	2.6	1.7	21	6.4	3.4	3.0	.46	3.4	e.26
13	.00	.17	7.9	2.9	2.4	16	6.0	4.1	4.6	.33	2.5	e.23
14	.00	.17	7.2	28	2.8	12	5.6	3.6	4.5	.30	5.4	e.21
15	.00	.18	3.4	12	4.3	10	24	3.6	3.3	.48	3.8	e.19
16	.00	.20	2.4	e5.8	3.8	8.2	56	2.8	2.9	.32	2.6	e.15
17	.00	.21	2.2	e5.0	3.3	7.8	39	5.7	2.4	.46	2.2	e.21
18	.00	.21	1.8	e4.5	3.3	393	38	13	161	.39	1.9	e.84
19	.00	.25	1.6	e4.3	3.1	286	26	10	16	.44	1.6	e.50
20	.00	1.2	1.6	e4.0	2.9	85	22	6.1	7.1	.31	1.5	e.22
21	.00	.55	1.9	e3.7	2.8	43	22	23	4.7	.30	1.3	e.25
22	.00	.31	1.9	3.6	2.6	29	15	10	3.4	.30	1.2	e.60
23	.00	.26	19	4.3	3.3	19	11	5.7	2.9	10	2.0	e1.5
24	.00	.24	7.5	3.6	6.1	15	9.4	5.9	2.7	1.4	1.3	e.92
25	.00	.23	4.2	3.1	5.1	13	7.2	4.6	2.2	.55	.96	e.61
26	.00	.23	3.2	2.9	4.4	16	6.1	3.9	1.8	.60	.85	e.40
27	.29	.21	2.6	2.8	4.0	15	6.1	3.5	1.4	12	1.1	e.49
28	.35	.21	2.6	2.6	3.5	11	5.6	3.1	1.2	3.2	1.1	e.38
29	.23	.21	4.2	2.5	3.3	10	4.9	21	1.0	1.5	.86	e.42
30	.19	.22	3.6	2.4	---	34	4.7	45	.95	30	.74	e.33
31	.17	---	3.0	2.4	---	39	---	19	---	13	.71	---
TOTAL	1.23	7.59	166.09	161.7	84.4	1253.8	449.1	253.3	297.35	86.06	238.23	13.41
MEAN	.040	.25	5.36	5.22	2.91	40.4	15.0	8.17	9.91	2.78	7.68	.45
MAX	.35	1.2	36	28	6.1	393	56	45	161	30	160	1.5
MIN	.00	.17	.29	2.4	1.7	2.3	4.7	2.8	.95	.30	.71	.15
CFSM	.00	.02	.33	.32	.18	2.51	.93	.51	.62	.17	.48	.03
IN.	.00	.02	.38	.37	.20	2.90	1.04	.59	.69	.20	.55	.03

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1992, BY WATER YEAR (WY)

	1978	1980	1991	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
MEAN	4.99	16.3	32.1	31.5	41.7	45.4	45.5	26.0	13.9	9.41	5.87	4.67																
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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1969 - 1992

ANNUAL TOTAL	7792.20	3012.26	
ANNUAL MEAN	21.3	8.23	23.0
HIGHEST ANNUAL MEAN			45.0
LOWEST ANNUAL MEAN			8.23
HIGHEST DAILY MEAN	794	393	1300
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		1940	5500
INSTANTANEOUS PEAK STAGE		6.38	9.30
ANNUAL RUNOFF (CFSM)	1.33	.51	1.43
ANNUAL RUNOFF (INCHES)	18.00	6.96	19.41
10 PERCENT EXCEEDS	55	16	46
50 PERCENT EXCEEDS	1.6	2.6	6.2
90 PERCENT EXCEEDS	.00	.19	.25

BLUE RIVER BASIN

03302680 WEST FORK BLUE RIVER AT SALEM, IN

LOCATION.--Lat 38°36'19", long 86°05'40", in SW¹/₄/SE¹/₄ 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. Low-flow records not equivalent due to effluent from factory entering stream from right bank between sites.

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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.30	2.8	23	e16	e7.4	3.9	36	8.0	3.4	.58	5.5	1.9
2	.27	2.7	216	e14	e6.8	3.7	31	7.8	2.8	.84	3.8	1.9
3	.25	2.4	122	e15	e6.3	3.7	26	7.1	2.6	6.9	3.1	2.0
4	.25	2.2	44	e20	6.1	3.6	26	6.0	4.2	2.3	3.3	1.7
5	.91	2.7	27	e18	5.7	3.4	20	5.9	3.4	1.4	2.3	1.5
6	.49	2.2	21	e16	5.6	4.1	18	5.3	2.7	1.3	1.8	1.2
7	.47	2.0	17	e15	5.6	5.7	17	4.8	2.8	.84	1.4	.97
8	.38	2.0	14	e13	5.1	4.7	15	4.8	3.2	.81	507	.94
9	.50	2.1	12	e13	4.4	4.2	14	7.9	2.4	20	56	.76
10	1.4	1.9	9.4	e12	4.2	5.5	20	5.5	2.0	22	31	1.3
11	.94	1.7	8.0	e11	4.3	5.2	19	4.5	1.7	31	20	1.1
12	1.2	1.9	7.4	e10	4.0	5.0	15	4.2	1.9	19	14	.74
13	1.6	2.0	28	e10	5.4	4.8	13	4.4	2.2	7.9	9.9	.63
14	2.2	2.0	32	e50	5.2	4.6	13	3.5	3.3	5.0	7.1	.51
15	2.4	2.1	23	e40	7.1	4.6	21	3.3	2.3	6.2	5.6	.51
16	2.6	4.0	17	e31	6.3	4.1	31	2.8	2.8	4.2	4.6	.46
17	1.9	2.6	15	e24	5.7	4.6	62	2.6	2.0	7.0	3.9	.40
18	1.9	1.9	11	e20	6.1	133	98	2.5	8.6	4.7	3.3	.78
19	1.9	2.0	8.7	e17	6.0	213	57	2.4	4.3	3.4	2.9	1.6
20	1.8	2.7	7.8	e16	5.5	99	43	2.2	2.9	2.8	2.7	1.1
21	1.9	2.6	9.1	e15	5.3	60	34	2.0	2.3	2.4	2.4	1.5
22	2.0	2.1	7.7	e13	5.1	46	25	2.4	1.9	7.6	2.6	2.6
23	2.1	1.7	e11	e14	5.3	35	21	2.2	1.6	15	2.3	1.7
24	2.4	1.3	e37	e18	5.3	27	18	2.5	4.4	5.8	2.1	1.0
25	2.8	.98	e30	e16	5.0	26	15	2.1	2.5	4.6	2.1	.79
26	3.0	.79	e23	e13	4.6	27	14	1.9	1.7	4.0	1.9	1.7
27	3.8	.75	e17	e12	4.6	27	13	1.9	1.2	3.4	21	2.9
28	3.9	.91	e15	e11	4.6	23	11	1.7	.90	2.6	14	1.8
29	3.5	.82	e16	e9.6	4.4	23	10	2.6	.79	2.0	4.8	1.2
30	2.6	90	e20	e8.7	---	35	9.2	9.9	.60	23	2.9	.93
31	2.3	---	e18	e8.1	---	42	---	4.9	---	14	2.3	---
TOTAL	53.96	147.85	867.1	519.4	157.0	891.4	765.2	129.6	79.39	232.57	747.6	38.12
MEAN	1.74	4.93	28.0	16.8	5.41	28.8	25.5	4.18	2.65	7.50	24.1	1.27
MAX	3.9	90	216	50	7.4	213	98	9.9	8.6	31	507	2.9
MIN	.25	.75	7.4	8.1	4.0	3.4	9.2	1.7	.60	.58	1.4	.40
CFSM	.09	.26	1.47	.88	.28	1.51	1.34	.22	.14	.39	1.27	.07
IN.	.11	.29	1.70	1.02	.31	1.75	1.50	.25	.16	.46	1.46	.07

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1992, BY WATER YEAR (WY)

	7.76	24.5	34.7	31.9	42.0	45.4	42.8	24.5	11.0	15.3	8.05	6.70
MEAN	7.76	24.5	34.7	31.9	42.0	45.4	42.8	24.5	11.0	15.3	8.05	6.70
MAX	45.7	89.9	98.2	103	106	104	136	140	38.0	65.7	30.5	40.0
(WY)	1984	1986	1991	1982	1989	1989	1972	1983	1985	1988	1985	1982
MIN	.14	.74	2.33	.97	5.41	9.65	4.21	1.91	.088	.29	.13	.36
(WY)	1988	1972	1977	1977	1992	1976	1976	1988	1988	1991	1987	1984

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1970 - 1992

ANNUAL TOTAL	6771.59	4629.19	
ANNUAL MEAN	18.6	12.6	24.6
HIGHEST ANNUAL MEAN			43.1
LOWEST ANNUAL MEAN			10.7
HIGHEST DAILY MEAN	351	507	1730
LOWEST DAILY MEAN	.11	.25	.02
ANNUAL SEVEN-DAY MINIMUM	.11	.42	.03
INSTANTANEOUS PEAK FLOW		3530	9240
INSTANTANEOUS PEAK STAGE		11.28	15.58
ANNUAL RUNOFF (CFSM)	.98	.67	1.29
ANNUAL RUNOFF (INCHES)	13.26	9.06	17.56
10 PERCENT EXCEEDS	51	26	52
50 PERCENT EXCEEDS	3.8	4.4	7.4
90 PERCENT EXCEEDS	.30	1.1	.48

03302800 BLUE RIVER AT FREDERICKSBURG, IN

LOCATION.--Lat 38°26'02", long 86°11'31", in NE¹/₄,NW¹/₄, 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 mi², of which 76.9 mi² 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 fair.
 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 1991 TO SEPTEMBER 1992
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	6.5	222	125	77	43	520	116	136	17	175	31
2	2.8	6.8	227	116	69	40	400	106	109	16	90	26
3	2.6	6.9	1550	123	64	40	339	115	87	27	65	25
4	2.5	8.3	409	161	63	41	307	114	80	58	206	23
5	3.3	7.8	213	148	62	39	265	97	193	44	113	18
6	3.1	6.0	153	133	60	38	219	88	150	28	62	15
7	7.7	6.5	120	117	58	111	203	78	110	19	44	14
8	6.7	6.2	98	104	55	214	187	72	97	18	1140	12
9	4.6	6.0	83	102	49	144	169	77	89	15	2030	11
10	5.6	13	71	98	43	131	156	98	76	77	411	14
11	6.8	13	61	88	42	160	157	84	66	180	240	17
12	7.3	6.3	55	81	43	144	142	73	58	198	159	13
13	9.1	4.6	74	81	46	129	125	79	59	103	112	11
14	7.9	5.1	242	288	51	113	116	75	57	59	88	8.6
15	7.7	5.4	183	423	57	103	140	64	69	47	71	7.8
16	7.2	6.6	135	e250	64	92	238	58	83	42	59	8.0
17	6.4	27	109	e210	61	93	535	53	69	45	50	7.2
18	6.9	23	92	e170	59	457	965	51	137	47	43	7.0
19	7.6	17	73	e130	61	3440	728	50	281	41	39	7.4
20	7.4	16	62	e120	61	1500	515	48	118	30	35	9.5
21	8.2	19	62	118	57	854	450	85	77	28	30	11
22	9.0	21	65	109	55	633	360	187	59	26	25	22
23	10	16	124	118	55	471	281	105	50	357	22	25
24	15	15	355	139	56	359	240	90	46	186	22	21
25	21	12	230	118	55	300	203	100	43	88	19	17
26	21	11	171	105	53	294	177	78	41	67	25	16
27	9.9	11	138	96	53	282	158	65	32	69	31	17
28	13	10	119	91	52	244	147	55	26	67	170	20
29	15	15	131	85	46	223	133	56	21	41	93	18
30	28	162	156	82	---	287	125	180	18	31	57	13
31	13	---	141	82	---	683	---	207	---	580	40	---
TOTAL	279.6	490.0	5924	4211	1627	11702	8700	2804	2537	2651	5766	465.5
MEAN	9.02	16.3	191	136	56.1	377	290	90.5	84.6	85.5	186	15.5
MAX	28	162	1550	423	77	3440	965	207	281	580	2030	31
MIN	2.5	4.6	55	81	42	38	116	48	18	15	19	7.0
CFSM	.03	.06	.68	.48	.20	1.33	1.02	.32	.30	.30	.66	.05
IN.	.04	.06	.78	.55	.21	1.54	1.14	.37	.33	.35	.76	.06

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1992, BY WATER YEAR (WY)

	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
MEAN	68.2	267	431	458	561	619	584	357	212	165	96.3	65.9													
MAX	305	1135	1166	1341	1236	1193	1280	1808	743	588	463	239													
(WY)	1984	1980	1991	1982	1990	1978	1972	1983	1990	1973	1977	1979													
MIN	6.35	12.5	29.4	11.6	56.1	142	86.8	35.2	8.36	13.1	18.8	8.37													
(WY)	1988	1988	1977	1977	1992	1969	1976	1988	1988	1991	1975	1987													

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1969 - 1992	
ANNUAL TOTAL	99056.7		47157.1			
ANNUAL MEAN	271		129			
HIGHEST ANNUAL MEAN					544	1979
LOWEST ANNUAL MEAN					129	1992
HIGHEST DAILY MEAN	7210	Mar 23	3440	Mar 19	11500	May 17 1990
LOWEST DAILY MEAN	2.5	Oct 4	2.5	Oct 4	2.5	Oct 4 1991
ANNUAL SEVEN-DAY MINIMUM	3.0	Sep 30	3.6	Oct 1	3.0	Sep 30 1991
INSTANTANEOUS PEAK FLOW			5390	Aug 9	13500	May 2 1983
INSTANTANEOUS PEAK STAGE			14.49	Aug 9	24.37	May 2 1983
ANNUAL RUNOFF (CFSM)	.96		.46		1.14	
ANNUAL RUNOFF (INCHES)	13.02		6.20		15.48	
10 PERCENT EXCEEDS	718		246		739	
50 PERCENT EXCEEDS	84		64		116	
90 PERCENT EXCEEDS	6.6		8.0		15	

BLUE RIVER BASIN

03302849 WHISKEY RUN AT MARENGO, IN

LOCATION.--Lat 38°22'32", long 86°20'41", in SW¹/₄NW¹/₄ 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 current year.

GAGE.--Water-stage recorder. Datum of gage is 561.446 ft above sea level.

REMARKS.--Records poor.

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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.01	.20	.19	.19	9.1	.68	.17	.01	.01	.00
2	.00	.01	4.9	.20	.18	.18	6.2	.70	.17	.01	.00	.00
3	.00	.00	11	.21	.18	.17	4.4	.74	.17	.12	.00	.00
4	.00	.00	1.2	.20	.17	.17	3.7	.56	2.4	.05	.00	.00
5	.00	.00	.29	.18	.16	.17	2.5	.50	4.4	.02	.00	.00
6	.00	.00	.17	.18	.16	.18	2.1	.41	1.1	.01	.00	.00
7	.00	.00	.14	.17	.16	1.4	1.7	.35	.49	.01	.00	.00
8	.00	.00	.12	.17	.16	1.3	1.4	.36	.32	.01	.85	.00
9	.00	.00	.12	.19	.16	1.4	1.2	.35	.24	.00	.79	.00
10	.00	.00	.07	.17	.15	1.6	1.0	.35	.19	.00	.08	.00
11	.00	.00	.04	.16	.16	1.8	.83	.30	.17	.00	.03	.00
12	.00	.00	.05	.16	.17	1.7	.63	.34	.15	.00	.01	.00
13	.00	.00	.41	.18	.19	1.5	.49	.34	.14	.00	.01	.00
14	.00	.00	.46	5.4	.18	1.3	.44	.26	.16	.00	.00	.00
15	.00	.00	.28	3.6	.26	1.0	2.9	.23	1.5	.00	.00	.00
16	.00	.00	e.22	1.8	.26	.71	9.9	.20	.65	.00	.00	.00
17	.00	.00	e.16	e1.1	.21	.73	47	.28	.22	.00	.00	.00
18	.00	.00	e.12	e.60	.23	108	64	.26	.31	.00	.00	.00
19	.00	.00	e.11	e.35	.23	74	21	.22	.20	.00	.00	.00
20	.00	.02	e.10	e.30	.24	21	14	.22	.16	.00	.00	.00
21	.00	.02	.18	.28	.23	10	14	.19	.15	.00	.00	.33
22	.00	.01	.17	.27	.21	6.5	9.2	.17	.12	.00	.00	.49
23	.00	.00	2.3	.33	.24	4.0	6.0	.18	.11	.00	.00	.01
24	.00	.00	2.7	.32	.25	2.9	4.3	.26	.09	.00	.00	.00
25	.00	.00	1.2	.35	.23	3.1	2.9	.19	.05	.00	.00	.00
26	.00	.00	.61	.28	.23	4.4	2.1	.18	.03	.00	.00	.03
27	.14	.00	.32	.24	.21	3.8	1.7	.18	.02	.22	.00	.02
28	.05	.00	.26	.23	.20	2.8	1.3	.16	.01	.09	.00	.01
29	.00	.00	.30	.21	.25	2.5	1.1	.41	.01	.02	.00	.00
30	.00	.00	.26	.20	---	14	.92	.38	.01	.01	.00	.00
31	.00	---	.23	.20	---	15	---	.20	---	.01	.00	---
TOTAL	0.19	0.06	28.50	18.43	5.85	287.50	238.01	10.15	13.91	0.59	1.78	0.89
MEAN	.006	.002	.92	.59	.20	9.27	7.93	.33	.46	.019	.057	.030
MAX	.14	.02	11	5.4	.26	108	64	.74	4.4	.22	.85	.49
MIN	.00	.00	.01	.16	.15	.17	.44	.16	.01	.00	.00	.00
CFSM	.00	.00	.13	.08	.03	1.32	1.13	.05	.07	.00	.01	.00
IN.	.00	.00	.15	.10	.03	1.52	1.26	.05	.07	.00	.01	.00

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1992, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1987	1988	1989	1990	1991	1992
MEAN	.40	2.08	6.83	6.55	13.1	10.7	7.74	6.29	6.65	.55	.15	.94
MAX	1.75	5.94	32.2	14.6	22.8	22.0	13.3	26.8	37.3	1.93	.60	5.23
(WY)	1991	1989	1991	1990	1990	1991	1989	1990	1990	1989	1988	1989
MIN	.000	.001	.92	.59	.20	2.66	5.17	.22	.009	.010	.000	.000
(WY)	1988	1988	1992	1992	1992	1990	1988	1987	1988	1991	1991	1987

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1987 - 1992	
	Value	Date	Value	Date	Value	Date
ANNUAL TOTAL	1872.21		605.86			
ANNUAL MEAN	5.13		1.66		5.12	
HIGHEST ANNUAL MEAN					9.46	1990
LOWEST ANNUAL MEAN					1.66	1992
HIGHEST DAILY MEAN	310	Mar 22	108	Mar 18	855	Jun 7 1990
LOWEST DAILY MEAN	.00	Jul 5	.00	Oct 1	.00	Aug 9 1987
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 15	.00	Oct 1	.00	Aug 9 1987
INSTANTANEOUS PEAK FLOW			723	Mar 18	2920	Jun 7 1990
INSTANTANEOUS PEAK STAGE			5.85	Mar 18	12.39	Jun 7 1990
ANNUAL RUNOFF (CFSM)	.73		.24		.73	
ANNUAL RUNOFF (INCHES)	9.92		3.21		9.91	
10 PERCENT EXCEEDS	10		2.4		8.5	
50 PERCENT EXCEEDS	.15		.16		.29	
90 PERCENT EXCEEDS	.00		.00		.00	

ANDERSON RIVER BASIN

03303300 MIDDLE FORK ANDERSON RIVER AT BRISTOW, IN

LOCATION.--Lat 38°08'19", long 86°43'16", in SW¹/₄, NE¹/₄, 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.--NDR IN-72-1: Drainage area.

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

REMARKS.--Records fair except for 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.80	4.3	e4.0	5.5	144	11	16	3.9	12	.25
2	.00	.00	9.1	4.2	e3.9	5.7	95	9.7	13	3.8	7.7	.25
3	.00	.00	7.2	4.2	e4.0	5.6	66	9.7	11	12	5.6	.28
4	.00	.00	.23	4.2	e3.6	6.1	50	9.5	11	12	4.2	.12
5	.00	.00	.00	4.3	e3.3	7.2	41	8.5	11	11	3.2	.07
6	.00	.00	.00	4.0	e3.2	5.9	35	7.3	10	12	2.6	.05
7	.00	.00	.00	3.4	e3.3	9.0	28	6.2	9.5	7.8	2.1	.04
8	.00	.00	.00	3.8	e3.0	11	22	5.6	9.0	6.5	1.9	.00
9	.00	.00	.00	4.5	e2.7	10	19	5.2	8.3	5.8	1.7	.00
10	.00	.00	.00	4.9	e2.3	12	17	4.9	7.6	5.4	1.4	.00
11	.00	.00	.06	7.3	10	16	16	5.0	7.0	5.0	1.2	.00
12	.00	.00	.03	8.7	9.2	15	14	5.1	6.4	4.6	1.1	.00
13	.00	.00	1.5	9.1	3.4	13	13	7.2	5.9	4.3	1.0	.00
14	.00	.00	3.6	24	2.2	12	12	8.7	5.3	4.2	.98	.00
15	.00	.00	2.0	19	5.9	11	17	6.0	5.0	4.9	.86	.00
16	.00	.00	2.1	12	14	9.6	35	5.2	4.8	3.9	.80	.00
17	.00	.00	2.0	9.2	7.7	9.4	65	7.6	5.7	3.8	.74	.00
18	.00	.00	3.5	7.0	7.1	291	97	12	20	3.4	.74	.00
19	.00	.00	3.6	5.2	7.7	573	84	57	18	3.4	.74	.00
20	.00	.00	5.5	4.4	7.4	378	77	79	12	3.8	.66	.00
21	.00	.00	6.8	4.0	6.3	230	82	163	9.0	6.3	.71	3.1
22	.00	.00	9.0	3.8	5.6	102	65	98	7.2	5.9	.71	.04
23	.00	.00	35	4.7	6.5	62	45	50	6.8	5.1	.77	.00
24	.00	.00	17	6.2	6.6	47	34	33	7.6	4.6	.74	.00
25	.00	.00	10	5.9	6.5	43	29	24	6.3	10	.67	.00
26	.00	.00	8.4	7.0	6.5	43	24	18	5.6	20	.58	.00
27	.00	.00	6.5	3.8	6.2	41	19	13	5.2	14	.60	.00
28	.00	.00	5.3	3.0	6.0	39	15	10	4.8	30	.63	.00
29	.00	.00	4.7	3.2	6.0	38	13	16	4.4	26	.39	.00
30	.00	.18	4.5	5.1	---	168	12	26	4.1	26	.27	.00
31	.00	---	4.5	4.5	---	200	---	21	---	25	.29	---
TOTAL	0.00	0.18	152.92	198.9	164.1	2419.0	1285	742.4	257.5	294.4	57.58	4.20
MEAN	.000	.006	4.93	6.42	5.66	78.0	42.8	23.9	8.58	9.50	1.86	.14
MAX	.00	.18	35	24	14	573	144	163	20	30	12	3.1
MIN	.00	.00	.00	3.0	2.2	5.5	12	4.9	4.1	3.4	.27	.00
CFSM	.00	.00	.12	.16	.14	1.96	1.08	.60	.22	.24	.05	.00
IN.	.00	.00	.14	.19	.15	2.26	1.20	.69	.24	.28	.05	.00

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1992, BY WATER YEAR (WY)

	1965	1964	1964	1964	1992	1990	1963	1988	1988	1968	1965	1964
MEAN	9.72	40.2	75.0	78.3	100	127	114	68.0	28.1	18.1	12.3	10.9
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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1962 - 1992

ANNUAL TOTAL	18125.61	5576.18	
ANNUAL MEAN	49.7	15.2	56.6
HIGHEST ANNUAL MEAN			122
LOWEST ANNUAL MEAN			15.2
HIGHEST DAILY MEAN	721	Mar 19	4870
LOWEST DAILY MEAN	.00	Jul 31	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 31	.00
INSTANTANEOUS PEAK FLOW		800	6360
INSTANTANEOUS PEAK STAGE		13.90	19.33
ANNUAL RUNOFF (CFSM)	1.25	.38	1.42
ANNUAL RUNOFF (INCHES)	16.94	5.21	19.32
10 PERCENT EXCEEDS	148	31	140
50 PERCENT EXCEEDS	4.5	4.8	15
90 PERCENT EXCEEDS	.00	.00	.20

CROOKED CREEK BASIN

03303400 CROOKED CREEK NEAR SANTA CLAUS, IN

LOCATION.--Lat 38°07'05", long 86°53'24", in SW¹/₄SE¹/₄ 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 mi².

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

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

REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	1.4	3.0	.87	.43	.45	12	1.2	.19	.04	2.0	.00
2	.00	.17	48	1.3	.39	.45	8.1	1.2	.16	.04	.75	.00
3	.00	.03	17	1.6	.41	.43	6.1	1.0	5.4	129	16	.00
4	.00	.01	3.1	1.2	.42	.42	4.9	.75	5.4	6.3	8.5	.00
5	.00	.00	1.3	.91	.36	.46	3.5	.73	2.5	4.8	1.8	.00
6	.00	.00	.74	.82	.36	.47	3.1	.56	1.3	19	.58	.00
7	.00	.00	.51	.66	.35	.73	2.9	.48	1.1	2.9	.32	.00
8	.00	.00	.39	2.8	.27	.52	2.4	.40	.79	1.2	.28	.00
9	.00	.00	.34	3.0	.18	.56	2.0	.47	.50	.50	.18	.00
10	.00	.00	.27	1.6	.22	1.8	1.8	.33	.33	.24	.14	.00
11	.00	.00	.24	1.1	.34	.99	1.5	.27	.26	.24	.14	.00
12	.00	.00	.32	1.1	.42	.84	1.3	.57	.18	.12	.09	.00
13	.00	.00	12	1.7	1.0	.62	1.1	.55	.26	.08	.07	.00
14	.00	.00	4.3	26	1.1	.66	1.1	.15	.22	.25	.06	.00
15	.00	.00	1.3	6.0	9.7	.64	6.1	.15	.14	2.7	.05	.00
16	.00	.00	.70	e2.0	2.5	.49	49	.12	.11	.10	.05	.00
17	.00	.00	.59	e1.5	1.6	2.8	37	.14	.09	.16	.05	.00
18	.00	.08	.37	e1.0	1.9	187	30	.98	2.9	.13	.04	.00
19	.00	.27	.20	e.70	1.3	103	35	.56	.09	.09	.04	.00
20	.00	5.2	.23	e.65	.94	22	40	.28	.06	.09	.04	.00
21	.00	.49	1.7	e.80	.82	12	26	.21	.06	5.1	.03	.00
22	.00	.52	.83	.99	.74	7.5	12	.17	.04	.26	.02	.00
23	.00	.06	30	1.9	1.2	4.5	7.4	.30	7.4	.11	.01	.00
24	.00	.03	5.6	1.3	1.5	3.2	5.1	1.1	4.5	.08	.01	.00
25	.00	.01	2.4	.96	1.1	3.8	3.8	.18	.23	35	.00	.00
26	.00	.00	1.4	.72	.87	6.1	3.1	.12	.09	5.6	.00	4.0
27	11	.00	.99	.71	.74	5.5	2.5	.11	.06	36	.01	.14
28	.44	.00	1.1	.62	.70	3.4	2.0	.08	.05	6.9	.03	.04
29	.06	.00	2.3	.58	.53	6.6	1.8	4.1	.04	2.2	.02	.02
30	.03	.01	1.5	.63	---	90	1.6	1.8	.04	25	.01	.01
31	.01	---	1.0	.57	---	23	---	.48	---	11	.00	---
TOTAL	11.54	8.28	143.72	66.29	32.39	490.93	314.2	19.54	34.49	295.23	31.32	4.21
MEAN	.37	.28	4.64	2.14	1.12	15.8	10.5	.63	1.15	9.52	1.01	.14
MAX	11	5.2	48	26	9.7	187	49	4.1	7.4	129	16	4.0
MIN	.00	.00	.20	.57	.18	.42	1.1	.08	.04	.04	.00	.00
CFSM	.05	.04	.59	.27	.14	2.01	1.33	.08	.15	1.21	.13	.02
IN.	.05	.04	.68	.31	.15	2.32	1.49	.09	.16	1.40	.15	.02

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1992, BY WATER YEAR (WY)

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
MEAN	2.50	9.86	15.4	13.6	21.8	21.7	19.5	9.29	5.13	5.04	2.79	2.32												
MAX	9.54	28.8	49.1	43.7	51.7	51.9	60.7	56.1	19.6	47.5	19.4	11.6												
(WY)	1991	1980	1991	1982	1989	1975	1983	1990	1986	1979	1977	1982												
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 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1970 - 1992
ANNUAL TOTAL	2917.21	1452.14	
ANNUAL MEAN	7.99	3.97	10.7
HIGHEST ANNUAL MEAN			17.4
LOWEST ANNUAL MEAN			3.97
HIGHEST DAILY MEAN	453	187	833
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		680	4100
INSTANTANEOUS PEAK STAGE		8.78	10.13
ANNUAL RUNOFF (CFSM)	1.02	.50	1.36
ANNUAL RUNOFF (INCHES)	13.81	6.87	18.46
10 PERCENT EXCEEDS	15	6.2	22
50 PERCENT EXCEEDS	.34	.45	1.6
90 PERCENT EXCEEDS	.00	.00	.00

PIGEON CREEK BASIN

03322011 PIGEON CREEK NEAR FORT BRANCH, IN

LOCATION.--Lat 38°15'08", long 87°31'11", in NW¹/SW¹/₄, 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 poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.57	1.4	5.7	e4.8	e3.5	e3.2	51	5.6	3.4	1.3	1.1	1.5
2	.36	1.4	487	e5.6	e3.3	e3.1	43	5.2	3.1	1.2	1.1	1.5
3	.33	1.1	269	6.8	e3.1	e2.9	36	4.9	3.6	27	12	1.6
4	.28	1.1	e16	5.1	e2.9	e2.8	19	4.6	7.5	1.8	1.4	94
5	.59	1.2	e8.5	e4.6	e2.7	e2.6	15	5.3	8.6	1.2	1.1	3.9
6	.43	1.3	e5.2	e4.2	e2.5	e2.8	14	4.7	3.8	1.1	1.1	2.0
7	.37	1.4	e4.0	e3.9	e2.4	e3.6	14	4.1	3.3	1.1	1.1	1.6
8	.38	1.3	e3.0	e5.2	e2.3	e2.7	12	4.1	2.8	1.1	1.2	1.4
9	.40	1.3	e2.6	8.4	e2.2	e3.6	11	4.3	2.7	1.0	1.1	1.4
10	.50	1.4	e2.3	7.2	e2.4	e5.4	10	3.9	2.4	175	1.1	50
11	.43	1.4	e2.0	e6.0	e3.0	e4.4	9.5	3.7	2.3	359	1.1	3.5
12	.38	1.7	e2.5	e6.0	e4.0	e3.9	8.5	5.7	2.1	5.2	1.0	2.0
13	.34	1.9	22	11	e9.0	e3.5	7.8	6.8	2.4	2.6	1.1	1.5
14	.46	2.2	e12	e35	e7.1	e3.8	7.9	3.9	2.1	7.0	1.1	1.4
15	.44	2.7	e7.0	e20	14	e3.5	29	3.6	2.0	45	1.0	1.3
16	.35	3.2	e4.4	e11	8.2	e3.2	27	3.4	1.9	2.8	1.1	1.3
17	.35	3.4	e3.1	e8.5	e5.6	e4.0	17	9.1	1.8	45	1.0	1.3
18	.43	4.3	2.2	e6.4	e7.7	184	26	11	1.7	2.7	1.0	1.3
19	.44	5.3	1.8	e5.9	e5.8	100	14	4.6	1.5	1.9	1.0	1.3
20	.51	26	2.2	e5.5	e4.8	30	52	3.9	1.5	1.7	1.0	7.6
21	.49	e10	4.4	e5.0	e4.3	21	27	3.5	1.4	2.3	1.0	33
22	.49	e4.3	4.2	e6.0	e4.0	18	13	3.2	1.3	2.0	3.0	15
23	.48	3.0	23	e10	e6.4	14	10	20	17	14	10	2.8
24	.46	e2.5	e12	e8.0	e5.0	13	8.9	67	65	2.6	27	1.8
25	.45	e2.1	e6.0	e6.8	e4.3	14	8.0	7.5	2.7	7.0	9.6	1.6
26	.47	e1.8	e4.2	e5.5	3.9	15	7.3	5.4	1.6	4.0	5.2	55
27	1.6	e1.7	e4.5	e5.2	3.7	13	6.9	4.4	1.3	1.7	157	8.4
28	.74	e1.6	e5.5	e4.8	e3.5	11	6.3	3.8	1.3	1.3	42	3.4
29	1.0	e1.5	e9.7	e4.5	e3.4	23	6.1	5.8	1.0	1.2	2.8	2.4
30	1.2	31	e7.0	e4.1	---	368	6.1	5.6	1.2	1.2	1.7	1.9
31	1.2	---	e4.6	e3.8	---	73	---	3.8	---	1.2	1.6	---
TOTAL	16.92	124.5	947.6	234.8	135.0	956.0	523.3	232.4	154.3	723.2	293.6	306.7
MEAN	.55	4.15	30.6	7.57	4.66	30.8	17.4	7.50	5.14	23.3	9.47	10.2
MAX	1.6	31	487	35	14	368	52	67	65	359	157	94
MIN	.28	1.1	1.8	3.8	2.2	2.6	6.1	3.2	1.0	1.0	1.0	1.3
CFSM	.02	.12	.86	.21	.13	.87	.49	.21	.15	.66	.27	.29
IN.	.02	.13	1.00	.25	.14	1.00	.55	.24	.16	.76	.31	.32

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1992, BY WATER YEAR (WY)

	1991	1989	1991	1991	1989	1989	1990	1990	1990	1990	1991	1991	1987
MEAN	12.3	21.5	48.9	47.6	86.3	66.1	30.3	43.5	16.1	24.7	23.0	7.83	
MAX	38.8	62.9	176	98.4	170	164	75.1	203	40.4	52.5	75.5	20.5	
(WY)	1991	1989	1991	1991	1989	1989	1989	1990	1990	1989	1989	1989	
MIN	.55	2.13	18.4	6.96	4.66	15.3	14.6	2.21	1.38	4.71	1.29	1.06	
(WY)	1992	1988	1988	1987	1992	1990	1991	1988	1988	1991	1991	1987	

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1987 - 1992
ANNUAL TOTAL	12623.63	4648.32	
ANNUAL MEAN	34.6	12.7	35.5
HIGHEST ANNUAL MEAN			62.3
LOWEST ANNUAL MEAN			12.7
HIGHEST DAILY MEAN	1780	Mar 22	1780
LOWEST DAILY MEAN	.28	Oct 4	.28
ANNUAL SEVEN-DAY MINIMUM	.39	Oct 2	.39
INSTANTANEOUS PEAK FLOW		1510	2810
INSTANTANEOUS PEAK STAGE		14.23	16.86
ANNUAL RUNOFF (CFSM)	.98	.36	1.00
ANNUAL RUNOFF (INCHES)	13.27	4.88	13.62
10 PERCENT EXCEEDS	38	20	44
50 PERCENT EXCEEDS	4.0	3.6	5.6
90 PERCENT EXCEEDS	.55	1.0	1.0

WABASH RIVER BASIN

03322900 WABASH RIVER AT LINN GROVE, IN

LOCATION.--Lat 40°39'22", long 85°01'58", in SE¹/₄SE¹/₄, 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 of Grand Lake, diversion from or into St. Marys River basin, and into Miami and Erie Canals.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	30	43	44	277	63	319	136	237	62	1130	285
2	5.8	30	41	41	260	57	344	119	131	56	727	259
3	5.4	28	242	41	276	53	233	103	89	60	504	253
4	5.4	27	304	80	404	50	177	92	73	65	437	236
5	6.0	25	118	167	404	51	147	84	89	56	395	293
6	6.2	24	97	116	276	104	117	78	144	50	359	536
7	6.7	24	68	80	210	124	103	71	194	47	335	441
8	7.1	24	58	62	e155	236	97	66	226	48	325	446
9	7.1	23	53	54	e100	219	88	70	160	48	311	677
10	6.6	23	47	50	e86	259	82	77	107	47	299	2060
11	6.4	24	42	45	e78	529	90	69	75	44	283	2300
12	6.4	25	40	43	e74	375	89	62	59	50	269	1600
13	10	26	70	43	70	236	83	59	51	1170	262	671
14	9.7	25	112	285	74	160	71	57	45	2120	261	383
15	8.4	26	85	601	196	128	71	54	45	3350	246	288
16	7.5	25	52	e300	786	103	182	53	43	4120	247	253
17	6.8	25	52	e220	594	94	1570	56	43	4310	246	230
18	6.4	25	47	e160	384	113	2590	87	928	4160	229	219
19	6.6	27	39	e130	755	880	3620	78	1630	3750	220	221
20	6.4	92	34	e110	842	1320	3520	61	1630	3080	214	231
21	6.3	570	33	e92	532	852	2600	53	817	2100	205	888
22	6.8	424	33	e80	301	464	1920	48	311	1280	196	1920
23	7.2	206	37	308	211	338	1300	47	146	796	189	2270
24	7.1	106	53	939	160	223	712	46	411	916	187	1810
25	7.5	63	63	621	128	170	399	51	682	1310	185	772
26	77	43	52	343	109	227	255	49	259	1310	181	410
27	214	40	47	251	96	260	200	49	132	845	230	304
28	135	39	43	169	83	232	172	44	92	597	822	273
29	64	44	40	139	74	176	164	43	78	480	1230	247
30	40	48	45	120	---	246	149	97	69	517	744	229
31	34	---	48	202	---	319	---	310	---	1040	372	---
TOTAL	735.9	2161	2138	5936	7995	8661	21464	2369	8996	37884	11840	21005
MEAN	23.7	72.0	69.0	191	276	279	715	76.4	300	1222	382	700
MAX	214	570	304	939	842	1320	3620	310	1630	4310	1230	2300
MIN	5.4	23	33	41	70	50	71	43	43	44	181	219
CFSM	.05	.16	.15	.42	.61	.62	1.58	.17	.66	2.70	.84	1.55
IN.	.06	.18	.18	.49	.66	.71	1.76	.19	.74	3.11	.97	1.72

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1992, BY WATER YEAR (WY)

	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	91.8	251	535	462	700	786	668	350	328	225	116	115																
MAX	553	1853	1514	1563	1717	2397	2085	1172	1914	1222	709	753																
(WY)	1991	1973	1991	1974	1976	1978	1972	1989	1981	1992	1990	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 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR
ANNUAL TOTAL	125020.8	131184.9						
ANNUAL MEAN	343	358						
HIGHEST ANNUAL MEAN								
LOWEST ANNUAL MEAN								
HIGHEST DAILY MEAN	6000	Jan 1	4310	Jul 17	8400	Mar 17	1978	
LOWEST DAILY MEAN	5.4	Oct 3	5.4	Oct 3	4.3	Jul 9	1988	
ANNUAL SEVEN-DAY MINIMUM	5.9	Sep 30	5.9	Oct 1	5.1	Jul 7	1988	
INSTANTANEOUS PEAK FLOW			4350	Jul 17	9560	Mar 17	1978	
INSTANTANEOUS PEAK STAGE			11.55	Jul 17	13.87	Mar 17	1978	
ANNUAL RUNOFF (CFSM)	.76		.79		.85			
ANNUAL RUNOFF (INCHES)	10.27		10.77		11.51			
10 PERCENT EXCEEDS	1050		860		1120			
50 PERCENT EXCEEDS	63		118		110			
90 PERCENT EXCEEDS	9.7		25		11			

WABASH RIVER BASIN

03323000 WABASH RIVER AT BLUFFTON, IN

LOCATION.--Lat 40°44'30", long 85°10'19", in NW¹/₄, NE¹/₄, sec.4, T.26 N., R.12 E., Wells County, Hydrologic Unit 05120101, on downstream side of left abutment of Main Street (State Highway 1) bridge in Bluffton, 2 mi downstream from Sixmile Creek, and at mile 434.5.

DRAINAGE AREA.--532 mi².

PERIOD OF RECORD.--October 1930 to September 1971 (discharge). October 1987 to current year (stage only).
Gage-height records collected at same site since December 1910 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 793.01 ft above sea level.

REMARKS.--Gage-height accuracy to tenths of a foot during the stage-only period of record.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 16.07 ft Feb. 15, 1950; minimum gage height, 0.61 ft July 21, 1932.

EXTREMES FOR CURRENT YEAR.--Maximum gage height at 2400 hr 10.7 ft, July 17; minimum gage height at 2400 hr, 1.0 ft Oct. 4, 6, 11-13, 15, 18, Nov. 8, 12.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.4	1.6	1.5	2.6	1.6	3.1	2.0	2.6	1.6	5.2	2.6
2	1.1	1.1	1.5	1.4	2.6	1.6	3.0	2.0	2.0	1.9	3.8	2.4
3	1.1	1.1	2.7	1.4	2.9	1.5	2.6	1.9	2.0	1.6	3.4	2.4
4	1.0	1.1	2.6	1.5	3.3	1.5	2.2	1.8	2.0	1.6	3.3	2.6
5	1.1	1.2	2.0	2.0	2.9	1.5	2.2	1.9	1.6	1.6	3.0	2.7
6	1.0	1.1	1.9	1.8	2.6	2.2	2.0	1.8	2.2	1.6	2.7	3.4
7	1.1	1.1	1.8	1.8	2.2	2.2	1.9	1.6	2.4	1.5	2.7	3.1
8	1.1	1.0	1.5	1.6	2.2	2.4	2.0	1.8	2.6	1.5	2.7	3.3
9	1.1	1.1	1.5	1.5	1.8	2.4	1.9	1.6	2.2	1.6	2.7	6.0
10	1.1	1.1	1.5	1.5	1.9	3.1	1.8	1.8	1.9	1.5	2.7	8.1
11	1.0	1.1	1.4	1.5	1.9	3.4	1.8	1.6	1.6	1.5	2.4	7.6
12	1.0	1.0	1.4	1.4	1.9	2.7	2.0	1.6	1.6	4.8	2.6	5.7
13	1.0	1.1	1.8	1.5	1.8	2.4	1.8	1.6	1.6	7.6	2.4	3.7
14	1.2	1.1	1.9	3.3	1.6	2.0	1.8	1.6	1.6	8.7	2.6	3.0
15	1.0	1.2	1.8	3.7	3.3	2.0	4.8	1.5	1.5	9.8	2.4	2.7
16	1.2	1.2	1.5	2.4	4.6	1.8	1.3	1.6	1.6	10.2	2.4	2.6
17	1.1	1.1	---	2.6	3.4	1.8	8.3	3.0	3.7	10.7	2.4	2.6
18	1.0	1.2	---	3.1	3.0	---	9.6	2.4	6.1	10.3	2.4	2.4
19	1.1	4.2	1.5	2.7	4.5	6.0	10.2	1.9	6.2	9.8	2.4	2.3
20	1.1	4.8	1.4	1.9	4.1	5.8	9.9	1.6	6.2	9.0	2.4	2.6
21	1.1	4.2	1.5	1.9	3.3	4.2	8.6	1.6	3.5	7.1	2.4	6.8
22	1.1	3.0	1.2	1.9	2.6	3.4	6.9	1.6	2.6	5.0	2.3	7.2
23	1.1	2.3	1.4	3.8	2.3	2.7	5.6	1.6	2.2	3.9	2.3	7.5
24	1.1	1.9	1.5	4.6	2.0	2.3	4.1	1.5	3.7	4.8	2.3	6.4
25	1.6	1.5	1.6	3.7	2.0	2.4	3.1	1.6	3.4	5.6	2.3	3.8
26	2.2	1.5	1.4	2.9	1.9	2.6	2.6	1.8	2.4	5.3	2.2	2.9
27	2.4	1.5	1.5	2.4	1.9	2.6	2.6	1.8	2.2	4.1	2.6	2.6
28	2.2	1.5	1.5	2.0	1.9	2.6	2.3	1.6	1.9	3.5	4.6	2.7
29	1.6	1.5	1.5	2.0	1.8	2.3	2.3	1.5	1.6	3.3	5.3	2.6
30	1.4	1.6	1.5	2.0	---	3.0	2.2	2.9	1.6	5.8	3.5	2.4
31	1.4	---	1.5	2.4	---	2.7	---	3.1	---	5.4	2.7	---
MEAN	1.2	1.7	---	2.2	2.6	---	3.8	1.8	2.6	4.9	2.9	3.9
MAX	2.4	4.8	---	4.6	4.6	---	10.2	3.1	6.2	10.7	5.3	8.1
MIN	1.0	1.0	---	1.4	1.6	---	1.3	1.5	1.5	1.5	2.2	2.3

WABASH RIVER BASIN

03323500 WABASH RIVER AT HUNTINGTON, IN

LOCATION.--Lat 40°51'20", long 85°29'53", in SW¹/₄, NE¹/₄, 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 mi².

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.--41 years, 598 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,900 ft³/s Feb. 10, 1959; maximum gage height 23.20 ft Feb. 10, 1959 (backwater from ice); minimum daily discharge, 0.00 ft³/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, 4060 ft³/s Apr. 22; minimum daily discharge, 53 ft³/s Apr. 16.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	254	160	70	199	126	486	238	358	141	2160	305
2	77	128	135	74	229	126	504	167	382	87	2110	330
3	76	95	136	91	282	125	449	132	390	71	1770	329
4	76	79	298	75	357	105	335	125	368	76	1230	284
5	76	63	236	80	516	85	222	126	233	81	606	236
6	76	63	187	83	566	90	183	145	126	91	376	305
7	75	78	172	100	322	104	200	154	145	95	347	371
8	75	85	136	132	214	161	182	153	221	89	327	413
9	75	85	102	138	140	257	180	153	254	83	318	459
10	74	95	108	100	135	242	160	153	253	83	314	521
11	74	129	94	68	142	407	142	135	186	83	314	846
12	74	117	80	69	113	583	139	118	135	84	314	1850
13	73	92	120	71	102	471	153	112	125	775	313	2530
14	73	65	161	73	112	290	160	98	95	905	289	2600
15	72	57	173	645	133	209	99	83	70	343	111	2490
16	72	57	131	519	743	196	53	103	70	1080	125	1430
17	71	57	127	252	1150	155	271	112	76	2080	285	593
18	71	71	103	217	1150	165	925	113	808	2870	284	285
19	71	77	66	213	596	338	1060	171	1310	3680	283	247
20	70	110	74	210	541	1360	2530	213	1600	3970	282	251
21	70	577	90	174	894	1760	3790	203	2160	3940	280	257
22	70	1120	73	118	812	1290	4060	166	1720	3890	240	287
23	69	1170	70	171	560	852	3350	127	638	3890	213	1250
24	69	943	85	780	217	531	3710	140	149	3470	204	2090
25	69	615	82	1080	195	337	3870	153	491	2790	206	2220
26	172	239	70	671	216	240	2490	128	582	2730	209	2580
27	270	128	79	232	160	322	1050	100	226	2240	209	2390
28	370	143	87	173	136	369	736	87	153	1300	239	1300
29	441	141	73	211	137	325	506	83	153	1860	744	554
30	364	141	67	206	---	334	322	83	147	1630	1140	270
31	308	---	75	197	---	417	---	258	---	1820	739	---
TOTAL	3750	7074	3650	7293	11069	12372	32317	4332	13624	46327	16581	29873
MEAN	121	236	118	235	382	399	1077	140	454	1494	535	996
MAX	441	1170	298	1080	1150	1760	4060	258	2160	3970	2160	2600
MIN	69	57	66	68	102	85	53	83	70	71	111	236

CAL YR 1991 TOTAL 206257 MEAN 565 MAX 5900 MIN 21
WTR YR 1992 TOTAL 188262 MEAN 514 MAX 4060 MIN 53

WABASH RIVER BASIN

03324000 LITTLE RIVER NEAR HUNTINGTON, IN

LOCATION.--Lat 40°54'14", long 85°24'22", in NE¹/₄, NW¹/₄, 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 fair. 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	293	207	83	211	97	328	135	151	46	133	40
2	21	389	194	86	205	94	295	120	98	44	76	35
3	23	216	1130	124	261	85	220	108	78	47	58	34
4	138	151	524	176	440	82	193	98	72	52	49	36
5	148	122	235	140	337	79	156	90	75	43	44	45
6	93	105	182	123	217	80	130	81	116	37	41	152
7	58	92	155	108	185	83	124	77	75	35	39	119
8	47	81	154	97	e134	85	115	75	71	38	37	82
9	45	78	152	105	e107	78	104	80	57	41	36	142
10	33	77	135	105	e92	156	103	90	51	405	36	2610
11	29	77	121	99	e86	306	147	74	46	295	34	1950
12	35	78	285	93	e84	198	149	66	44	181	33	700
13	36	79	1180	96	e82	152	108	73	43	1110	33	267
14	32	80	496	479	e88	129	102	67	44	1230	37	152
15	29	81	261	e420	511	119	105	63	72	2310	35	100
16	27	84	e170	e270	1230	103	297	60	56	1740	33	72
17	24	93	e135	e190	517	114	1790	58	52	886	30	67
18	23	88	e118	e170	474	124	2060	73	1670	531	28	59
19	25	199	e107	e154	509	407	2000	68	927	272	34	61
20	31	1350	e100	e145	400	884	856	58	318	171	41	52
21	27	2120	105	e136	280	432	521	53	169	183	35	1120
22	26	1110	113	135	218	635	356	50	116	125	28	2170
23	25	509	116	629	189	673	302	63	93	92	e27	1030
24	38	337	128	950	163	307	339	73	85	74	e26	386
25	313	225	109	e290	154	231	263	55	81	65	e26	223
26	1560	162	96	e190	152	261	212	50	82	61	e27	155
27	2740	143	89	e150	137	258	180	51	59	59	222	172
28	2150	169	84	e140	124	216	174	50	53	56	250	177
29	1010	261	92	134	111	183	151	45	50	53	131	122
30	479	247	94	137	---	342	148	87	47	56	80	97
31	374	---	87	194	---	294	---	222	---	181	61	---
TOTAL	9660	9096	7154	6348	7698	7287	12028	2413	4951	10519	1800	12427
MEAN	312	303	231	205	265	235	401	77.8	165	339	58.1	414
MAX	2740	2120	1180	950	1230	884	2060	222	1670	2310	250	2610
MIN	21	77	84	83	82	78	102	45	43	35	26	34
CFSM	1.18	1.15	.88	.78	1.01	.89	1.52	.30	.63	1.29	.22	1.58
IN.	1.37	1.29	1.01	.90	1.09	1.03	1.70	.34	.70	1.49	.25	1.76

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 1992, BY WATER YEAR (WY)

	86.2	141	282	308	410	491	415	235	218	93.3	61.7	52.9
MEAN	86.2	141	282	308	410	491	415	235	218	93.3	61.7	52.9
MAX	701	717	1010	1693	1164	1765	1396	555	809	630	501	414
(WY)	1955	1973	1967	1950	1959	1982	1957	1974	1958	1986	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 1991 CALENDAR YEAR FOR 1992 WATER YEAR WATER YEARS 1945 - 1992

ANNUAL TOTAL	97211	91381	232
ANNUAL MEAN	266	250	450
HIGHEST ANNUAL MEAN			67.0
LOWEST ANNUAL MEAN			1954
HIGHEST DAILY MEAN	4600	Jun 1	2740
LOWEST DAILY MEAN	18	Aug 6	21
ANNUAL SEVEN-DAY MINIMUM	21	Aug 24	26
INSTANTANEOUS PEAK FLOW			3020
INSTANTANEOUS PEAK STAGE			13.67
ANNUAL RUNOFF (CFSM)	1.01		.95
ANNUAL RUNOFF (INCHES)	13.75		12.93
10 PERCENT EXCEEDS	531		513
50 PERCENT EXCEEDS	106		110
90 PERCENT EXCEEDS	23		36

03324500 SALAMONIE RIVER AT DORA, IN

LOCATION.--Lat 40°48'42", long 85°41'02", in NE¹/₄,NE²/₄, 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 mi².

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. Daily discharge computed from relation between discharge, head, and gate openings for Salamonie Lake beginning Oct. 1, 1974.

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

AVERAGE DISCHARGE.--68 years, 512 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,500 ft³/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 ft³/s Oct. 30, 1968, result of abnormal regulation.

EXTREMES FOR CURRENT YEAR.-- Maximum daily discharge, 3,710 ft³/s Apr. 30; minimum daily, 24 ft³/s Apr. 8-17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	407	805	477	111	258	154	649	3020	294	70	2040	142
2	406	794	382	104	330	79	348	1970	340	70	2030	120
3	404	784	224	104	501	41	129	1370	339	70	2240	120
4	403	772	473	105	474	41	112	638	339	70	2710	85
5	402	761	591	110	509	41	69	289	339	41	2870	56
6	401	519	329	129	388	41	45	271	298	26	2810	48
7	399	279	203	141	205	41	31	205	197	26	2130	48
8	398	324	202	143	205	192	24	182	164	39	1140	143
9	396	344	156	143	205	137	24	182	132	48	479	183
10	394	342	165	143	144	42	24	182	87	48	151	184
11	1500	340	165	143	73	83	24	182	70	48	169	778
12	1200	337	142	130	42	106	24	138	39	61	58	773
13	390	335	237	123	36	107	24	120	26	622	26	1100
14	388	332	345	124	36	107	24	120	26	1210	50	1740
15	386	330	360	446	37	66	24	85	26	188	40	1840
16	385	328	357	600	107	43	24	70	26	191	45	2110
17	383	325	293	485	320	43	24	70	26	194	87	1480
18	381	323	178	317	411	43	26	70	277	195	95	252
19	380	383	98	248	507	43	26	105	1350	196	95	120
20	378	414	82	210	667	688	26	120	2160	196	95	120
21	377	784	98	210	678	839	26	120	1960	196	95	121
22	375	1440	105	209	469	546	26	120	1940	329	95	343
23	322	1590	105	211	318	452	26	120	1460	389	95	1470
24	297	1540	105	656	262	337	162	120	601	491	95	1850
25	296	1020	105	909	230	297	223	120	243	1350	95	2140
26	298	389	131	722	191	221	297	120	147	1730	85	1900
27	182	470	144	478	168	428	1390	120	120	1850	70	1120
28	376	503	161	316	153	543	2990	120	86	2610	70	542
29	655	494	169	255	154	544	3690	120	70	2890	466	120
30	822	486	151	221	---	617	3710	120	70	2560	410	120
31	814	---	129	222	---	800	---	171	---	2050	261	---
TOTAL	14595	17887	6862	8468	8078	7762	14241	10760	13252	20054	21197	21168
MEAN	471	596	221	273	279	250	475	347	442	647	684	706
MAX	1500	1590	591	909	678	839	3710	3020	2160	2890	2870	2140
MIN	182	279	82	104	36	41	24	70	26	26	26	48

CAL YR 1991 TOTAL 183849 MEAN 504 MAX 5040 MIN 25
WTR YR 1992 TOTAL 164324 MEAN 449 MAX 3710 MIN 24

WARASH RIVER BASIN

03325311 LITTLE MISSISSINAWA RIVER AT UNION CITY, IN

LOCATION.--Lat 40°11'46", long 84°49'45", in SE¹/₄, SE¹/₄, 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.16	.67	.60	4.0	3.7	5.8	6.0	2.8	3.8	43	2.0
2	.02	.17	.87	.65	4.4	3.5	5.2	5.7	2.4	3.4	26	1.8
3	.05	.13	4.6	1.3	5.6	3.5	5.1	4.6	2.2	3.6	18	1.8
4	.08	.10	e1.9	2.3	8.2	3.7	5.2	4.2	2.4	2.7	10	1.5
5	.12	.09	e1.2	1.9	6.5	3.9	3.8	3.9	2.3	3.0	6.7	1.4
6	e.09	.11	e1.1	1.7	5.7	4.0	3.9	3.2	2.1	2.6	4.8	2.2
7	e.08	.12	1.0	1.4	4.8	3.7	4.3	3.0	2.0	2.1	3.7	1.6
8	e.06	.11	.89	1.2	3.6	3.4	3.9	3.4	1.9	2.0	3.4	1.5
9	e.06	.07	.79	1.3	e2.6	4.0	4.0	3.5	1.8	1.8	2.7	1.4
10	e.05	.07	.66	1.1	e2.2	4.8	3.8	2.6	1.7	1.6	2.5	2.7
11	e.08	.09	.60	.95	e1.9	4.4	4.1	2.6	1.5	1.4	2.3	2.0
12	e.07	.11	.64	.95	e1.8	4.2	3.5	2.8	1.5	24	1.9	1.4
13	e.06	.13	.75	1.0	e1.9	3.9	3.2	2.6	1.5	226	1.9	1.3
14	e.06	.11	.77	10	e2.0	3.9	3.8	2.3	1.5	89	1.6	1.2
15	e.05	.10	.61	e5.6	15	3.2	3.8	2.2	1.3	108	1.6	1.0
16	e.05	.11	.56	e4.5	19	3.1	15	2.0	1.2	57	1.4	.98
17	e.05	.10	e.50	e3.6	11	3.4	176	3.4	1.3	81	1.2	.97
18	e.05	.10	e.45	e3.1	11	8.8	130	4.2	165	54	1.2	1.3
19	e.05	.46	e.38	e2.7	18	31	91	2.6	77	31	1.1	1.1
20	e.05	1.7	e.35	e2.4	13	16	66	2.2	40	20	.96	.97
21	e.05	3.2	e.40	e2.3	8.4	10	71	2.0	24	46	.86	5.0
22	e.05	1.6	.55	e2.2	7.4	9.5	44	1.9	14	30	.80	17
23	e.04	.99	1.1	e13	6.5	6.9	31	2.0	52	21	.79	7.3
24	e.04	.72	1.3	e10	6.0	6.0	23	3.2	89	32	.77	4.0
25	e.14	.47	.99	e4.5	6.0	6.1	17	2.2	38	19	.79	2.9
26	1.1	.34	.82	e3.5	5.2	5.9	14	1.9	26	12	.92	2.5
27	.49	.36	.72	e3.0	5.2	5.5	10	1.6	13	8.3	11	2.7
28	.22	.48	.71	e2.6	4.0	5.1	8.4	1.4	8.3	5.9	21	2.2
29	.14	.67	.87	e2.5	3.9	5.4	7.9	1.5	5.8	5.1	6.7	1.8
30	.15	.74	.72	2.9	---	5.9	6.9	4.7	4.5	37	3.8	1.7
31	.13	---	.62	4.6	---	5.7	---	4.1	---	104	2.5	---
TOTAL	3.75	13.71	28.09	99.35	194.8	192.1	774.6	93.5	588.0	1038.3	185.89	77.22
MEAN	.12	.46	.91	3.20	6.72	6.20	25.8	3.02	19.6	33.5	6.00	2.57
MAX	1.1	3.2	4.6	13	19	31	176	6.0	165	226	43	17
MIN	.02	.07	.35	.60	1.8	3.1	3.2	1.4	1.2	1.4	.77	.97
CFSM	.01	.05	.09	.33	.69	.64	2.67	.31	2.03	3.46	.62	.27
IN.	.01	.05	.11	.38	.75	.74	2.98	.36	2.26	3.99	.72	.30

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1992, BY WATER YEAR (WY)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992		
MEAN	3.97	7.20	14.0	6.72	16.3	15.3	17.5	10.6	8.89	10.5	2.39	3.02
MAX	23.1	28.5	53.4	15.3	38.6	23.8	33.7	26.4	24.2	33.5	11.2	24.0
(WY)	1987	1986	1991	1989	1990	1991	1989	1989	1987	1992	1990	1989
MIN	.035	.084	.91	1.19	4.66	3.05	8.60	.93	.23	.065	.004	.000
(WY)	1983	1988	1992	1988	1989	1983	1991	1988	1988	1988	1988	1983

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1983 - 1992
ANNUAL TOTAL	2174.01	3289.31	
ANNUAL MEAN	5.96	8.99	9.65
HIGHEST ANNUAL MEAN			14.8
LOWEST ANNUAL MEAN			3.53
HIGHEST DAILY MEAN	113	226	480
LOWEST DAILY MEAN	.02	.02	.00
ANNUAL SEVEN-DAY MINIMUM	.03	.05	.00
INSTANTANEOUS PEAK FLOW		408	586
INSTANTANEOUS PEAK STAGE		6.98	8.67
ANNUAL RUNOFF (CFSM)	.62	.93	1.00
ANNUAL RUNOFF (INCHES)	8.36	12.65	13.56
10 PERCENT EXCEEDS	19	19	27
50 PERCENT EXCEEDS	1.1	2.5	2.6
90 PERCENT EXCEEDS	.04	.12	.07

WABASH RIVER BASIN

03325500 MISSISSINEMA RIVER NEAR RIDGEVILLE, IN

LOCATION.--Lat 40°16'49", long 84°59'44", in SE¹/₄SE¹/₄ sec.7, T.21 N., R.14 E., Randolph County, Hydrologic Unit 05120103, on right bank 30 ft downstream from county road bridge, 0.8 mi downstream from Mud Creek, 2 mi east of Ridgeville, and at mile 99.5.
 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.
 REMARKS.--Records fair except for periods of estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e1.9	3.8	31	15	77	e25	58	55	28	33	355	23
2	e2.0	4.6	44	16	73	e23	56	52	22	29	173	18
3	1.9	4.0	314	42	83	e21	48	47	19	29	112	19
4	e2.5	3.3	e64	98	158	e21	48	42	20	27	79	146
5	e4.0	2.8	e40	57	117	e21	37	40	23	24	61	237
6	e5.0	2.8	e30	42	79	e22	32	36	67	30	52	724
7	e3.5	3.1	27	32	65	e35	34	32	46	26	46	105
8	e2.5	2.8	26	26	50	e45	32	33	47	24	44	86
9	e2.0	2.6	22	26	e33	e39	30	38	29	22	39	59
10	e2.1	2.5	18	22	e28	e82	29	32	22	22	35	257
11	e2.1	2.5	15	18	e25	e100	31	28	18	19	34	89
12	e2.1	2.7	15	17	e23	e75	51	28	16	106	29	51
13	e2.1	2.9	29	19	e25	e54	35	28	15	3920	29	38
14	e2.1	3.0	33	364	28	e40	35	25	14	3230	26	32
15	e2.1	2.9	22	e160	346	e33	38	24	14	2630	22	26
16	e2.0	3.2	e17	e80	e760	e29	164	22	12	857	24	20
17	e2.0	2.9	e14	e60	e190	e26	2540	20	10	3090	19	17
18	e2.0	2.8	e12	e45	e160	e70	1540	30	2790	1290	16	15
19	e2.0	44	e10	e39	e800	484	786	22	1830	313	16	40
20	e2.0	169	e8.6	e35	e350	222	493	20	762	206	14	24
21	e2.1	270	e9.8	e32	e140	120	789	19	383	246	13	193
22	e2.2	84	11	e31	e95	101	356	18	191	163	13	489
23	e2.3	42	29	e230	e70	75	179	18	123	169	13	147
24	e2.4	25	47	e170	e54	58	124	19	595	759	12	78
25	e3.5	14	28	e80	e45	53	100	19	331	245	12	55
26	97	9.2	20	e50	e36	57	87	18	190	143	15	44
27	80	8.2	16	e42	e32	62	75	17	130	106	193	44
28	21	23	15	e38	e29	54	71	15	70	78	417	38
29	8.4	33	21	36	e27	50	66	14	48	66	98	31
30	6.0	34	22	41	---	57	64	29	39	497	49	28
31	4.3	---	17	82	---	54	---	42	---	1740	32	---
TOTAL	277.1	810.6	1027.4	2045	3998	2208	8028	882	7904	20139	2092	3173
MEAN	8.94	27.0	33.1	66.0	138	71.2	268	28.5	263	650	67.5	106
MAX	97	270	314	364	800	484	2540	55	2790	3920	417	724
MIN	1.9	2.5	8.6	15	23	21	29	14	10	19	12	15
CFSM	.07	.20	.25	.50	1.04	.54	2.01	.21	1.98	4.88	.51	.80
IN.	.08	.23	.29	.57	1.12	.62	2.25	.25	2.21	5.63	.59	.89

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1992, BY WATER YEAR (WY)

	30.2	77.3	154	177	212	254	220	117	146	93.8	42.6	33.2
MEAN	30.2	77.3	154	177	212	254	220	117	146	93.8	42.6	33.2
MAX	272	589	872	865	548	714	810	352	1417	709	454	337
(WY)	1987	1973	1991	1950	1950	1978	1964	1981	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 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1947 - 1992	
ANNUAL TOTAL	32385.6		52584.1			
ANNUAL MEAN	88.7		144			
HIGHEST ANNUAL MEAN					129	
LOWEST ANNUAL MEAN					223	1958
HIGHEST DAILY MEAN	1910	Mar 18	3920	Jul 13	29.8	1954
LOWEST DAILY MEAN	1.9	Aug 26	1.9	Oct 1	11300	Jun 10 1958
ANNUAL SEVEN-DAY MINIMUM	2.0	Oct 14	2.0	Oct 14	.10	Oct 24 1946
INSTANTANEOUS PEAK FLOW			5580	Jul 13	.23	Oct 5 1946
INSTANTANEOUS PEAK STAGE			15.43	Jul 13	13900	Jun 10 1958
ANNUAL RUNOFF (CFSM)	.67		1.08		16.25	Jun 10 1958
ANNUAL RUNOFF (INCHES)	9.06		14.71		.97	
10 PERCENT EXCEEDS	224		245		13.21	
50 PERCENT EXCEEDS	27		33		278	
90 PERCENT EXCEEDS	2.3		3.4		28	
					3.8	

03326070 BIG LICK CREEK NEAR HARTFORD CITY, IN

LOCATION.--Lat 40°25'20", long 85°21'04", in SE¹/₄, SE¹/₄, 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 poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.46	1.7	7.0	4.8	18	5.3	21	8.3	3.8	4.1	12	2.0
2	.43	2.7	6.3	4.7	16	5.2	18	7.4	3.0	3.9	6.4	1.9
3	.60	1.8	81	5.3	17	4.5	13	6.4	2.6	6.7	4.7	4.3
4	.74	1.4	21	6.3	27	3.9	12	5.8	6.3	4.7	3.5	2.8
5	1.2	1.3	8.9	5.7	19	3.7	11	5.8	6.6	3.7	2.8	42
6	2.0	1.2	5.8	4.8	13	4.7	9.4	5.4	6.9	3.2	2.4	48
7	1.1	1.2	5.1	3.7	12	13	8.8	4.9	5.4	2.8	2.2	15
8	.98	1.1	5.7	3.1	9.1	17	7.4	4.9	5.0	3.0	2.6	26
9	.87	1.0	5.5	3.8	5.4	10	6.9	6.1	3.8	2.9	2.3	14
10	.76	1.1	4.8	3.7	4.8	21	6.4	5.5	3.1	5.0	2.0	225
11	.88	1.0	3.7	3.2	5.4	21	6.3	4.8	2.6	4.1	3.5	33
12	1.1	1.1	4.3	3.2	4.3	18	6.6	4.6	2.4	15	2.5	13
13	1.3	1.1	28	4.6	5.0	12	5.6	4.5	2.4	1080	2.2	7.8
14	1.1	1.0	19	100	4.7	9.6	5.6	4.1	2.4	400	2.1	4.4
15	.99	1.0	11	30	72	8.2	6.6	4.0	2.3	664	1.9	3.2
16	1.0	1.0	5.4	18	103	6.8	70	3.7	1.8	238	1.9	2.6
17	.96	.99	4.7	10	28	7.7	485	3.4	7.1	328	1.7	2.3
18	.97	1.0	3.2	8.0	35	20	565	3.8	1100	84	1.7	2.7
19	1.1	2.0	2.1	6.8	32	133	210	3.3	179	29	2.8	3.9
20	1.2	27	2.0	6.2	30	61	63	3.1	40	16	2.2	2.8
21	1.3	131	2.7	5.8	20	23	73	2.8	21	12	1.7	230
22	1.1	29	3.1	6.4	16	20	27	2.7	15	9.4	1.7	140
23	1.1	15	12	70	13	16	20	2.7	12	8.4	1.6	25
24	1.1	7.6	19	50	11	12	17	2.7	11	48	1.7	11
25	1.7	4.4	9.6	15	9.6	12	14	2.6	9.0	12	1.7	6.6
26	9.1	2.8	6.0	9.5	8.7	25	12	2.6	6.7	7.0	1.8	4.7
27	18	2.7	4.8	8.2	7.8	30	11	2.6	5.5	5.1	5.4	5.4
28	7.6	10	4.2	8.1	7.1	25	11	2.5	5.0	4.1	9.6	4.6
29	3.3	16	5.4	8.2	6.0	17	9.6	2.2	4.6	5.2	4.0	3.7
30	2.2	9.2	6.5	10	---	30	9.5	4.8	4.3	33	2.7	3.1
31	1.8	---	5.6	22	---	21	---	5.4	---	40	2.3	---
TOTAL	68.04	279.39	313.4	449.1	559.9	616.6	1741.7	133.4	1480.6	3082.3	97.6	890.8
MEAN	2.19	9.31	10.1	14.5	19.3	19.9	58.1	4.30	49.4	99.4	3.15	29.7
MAX	18	131	81	100	103	133	565	8.3	1100	1080	12	230
MIN	.43	.99	2.0	3.1	4.3	3.7	5.6	2.2	1.8	2.8	1.6	1.9
CFSM	.08	.32	.35	.50	.66	.68	1.99	.15	1.69	3.41	.11	1.02
IN.	.09	.36	.40	.57	.71	.79	2.22	.17	1.89	3.93	.12	1.13

* Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1992, BY WATER YEAR (WY)

	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
MEAN	7.85	22.8	41.0	28.4	47.8	59.7	42.4	24.4	28.8	18.4	9.36	9.04										
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	1.63	.76	3.41	9.38	4.85	2.37	1.21	1.11	.95	.61										
(WY)	1983	1977	1977	1977	1978	1983	1976	1988	1988	1977	1988	1983										

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1972 - 1992

ANNUAL TOTAL	7738.39	9712.83	28.2
ANNUAL MEAN	21.2	26.5	39.4
HIGHEST ANNUAL MEAN			9.21
LOWEST ANNUAL MEAN			1991
HIGHEST DAILY MEAN	486	Mar 18	1580
LOWEST DAILY MEAN	.36	Sep 10	.19
ANNUAL SEVEN-DAY MINIMUM	.50	Sep 6	.32
INSTANTANEOUS PEAK FLOW			1600
INSTANTANEOUS PEAK STAGE			15.37
ANNUAL RUNOFF (CFSM)	.73		.91
ANNUAL RUNOFF (INCHES)	9.86		12.37
10 PERCENT EXCEEDS	50		30
50 PERCENT EXCEEDS	4.7		5.4
90 PERCENT EXCEEDS	.75		1.3

WABASH RIVER BASIN

03327000 MISSISSINewa RIVER AT PEORIA, IN

LOCATION.--Lat 40°43'24", long 85°57'27", in SW¹/₄SW¹/₄ 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 was 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. Data-Collection Platform installed on Aug. 21, 1986.

REMARKS.--Flow regulated by Mississinewa Lake since April 1968. Daily discharge computed from relation between discharge, head, and gate openings for Mississinewa Lake beginning Oct. 1, 1974.

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

AVERAGE DISCHARGE.--40 years, 727 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, 5,330 ft³/s June 24; minimum daily, 41 ft³/s Mar. 5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	317	705	357	206	377	167	326	1750	300	292	4130	288
2	384	903	357	166	415	126	264	3070	317	264	4120	261
3	383	895	389	206	485	104	265	3040	427	357	4090	195
4	382	628	731	206	543	68	222	3000	238	406	4060	154
5	381	409	1170	206	670	41	159	1980	146	256	4330	154
6	425	407	572	206	737	42	107	863	211	181	4530	254
7	449	362	278	206	429	42	71	369	288	347	4470	1000
8	447	306	297	207	294	42	62	323	288	466	4680	921
9	419	294	297	234	208	42	62	323	247	289	4720	741
10	295	307	244	264	149	171	62	261	217	181	2180	2670
11	397	306	206	167	150	271	62	175	217	181	391	3780
12	429	357	207	119	150	251	63	219	176	249	269	2770
13	441	441	355	152	112	273	63	318	146	1360	225	1000
14	440	158	503	193	92	273	51	359	146	2030	225	839
15	439	60	541	394	93	164	43	310	149	519	104	1240
16	415	175	540	706	95	110	43	198	154	535	73	1090
17	402	437	413	775	99	110	294	193	154	1080	196	881
18	380	531	229	708	354	111	472	299	1980	1680	277	702
19	366	606	177	364	683	112	494	359	3280	2450	314	450
20	365	859	177	291	916	964	508	317	2440	3190	289	1050
21	364	1030	177	332	1220	1180	1180	187	2960	3490	225	1470
22	363	1400	207	411	896	643	2040	146	3610	3480	225	1600
23	382	1640	235	309	635	381	2330	146	4440	2900	155	1980
24	395	1610	203	625	460	481	2950	242	5330	3270	92	2740
25	394	1440	213	1210	355	531	3170	328	4820	3790	154	2920
26	577	988	255	1150	356	463	3140	195	3450	4260	154	2880
27	493	601	304	714	301	411	2180	161	1580	4240	193	2100
28	228	402	306	489	197	480	1150	181	510	4210	286	1280
29	410	357	242	323	167	588	1040	196	429	4170	1020	950
30	785	357	177	344	---	765	1050	217	332	3790	957	734
31	915	---	190	377	---	708	---	217	---	3830	371	---
TOTAL	13262	18971	10549	12260	11638	10115	23923	19942	38982	57743	47505	39094
MEAN	428	632	340	395	401	326	797	643	1299	1863	1532	1303
MAX	915	1640	1170	1210	1220	1180	3170	3070	5330	4260	4720	3780
MIN	228	60	177	119	92	41	43	146	146	181	73	154

CAL YR 1991 TOTAL 282156 MEAN 773 MAX 6090 MIN 37
WTR YR 1992 TOTAL 303984 MEAN 831 MAX 5330 MIN 41

WABASH RIVER BASIN

03327520 PIPE CREEK NEAR BUNKER HILL, IN

LOCATION.--Lat 40°40'06", long 86°05'44", in NE¹/₄SE¹/₄, 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 fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	23	115	39	100	69	197	158	115	34	380	18
2	5.0	22	101	40	95	65	216	134	84	36	219	17
3	6.6	18	181	49	114	60	191	113	69	38	158	16
4	8.4	16	185	58	171	57	173	98	66	34	116	15
5	11	12	133	59	186	57	148	91	65	30	85	14
6	12	11	102	58	156	62	128	79	57	27	67	15
7	6.7	11	85	56	137	61	127	70	50	24	57	17
8	5.1	9.7	75	51	112	57	115	68	44	24	53	26
9	4.5	9.0	68	54	85	52	108	76	40	22	46	30
10	5.1	8.5	59	52	74	170	102	71	38	23	41	662
11	6.7	8.0	54	47	70	282	115	63	35	21	37	677
12	6.5	8.2	67	45	61	208	109	63	34	48	33	312
13	4.9	9.1	200	47	61	168	111	74	33	439	31	197
14	5.4	7.5	242	113	63	143	109	66	33	935	28	137
15	5.4	7.6	159	237	121	128	102	59	89	1820	26	92
16	6.0	7.9	116	e130	437	120	328	55	65	1100	24	68
17	5.9	7.5	99	e100	290	140	1660	56	46	804	23	54
18	5.6	8.7	81	e85	290	157	2150	132	867	627	22	48
19	6.1	12	60	e74	308	525	2140	119	867	381	25	42
20	6.0	126	54	e73	236	483	1330	82	395	238	24	37
21	6.4	503	56	e73	188	299	868	65	195	185	21	574
22	5.7	412	54	e73	158	231	657	62	126	141	19	905
23	5.9	235	56	183	139	182	450	71	101	136	18	525
24	5.4	156	59	379	122	144	342	62	84	413	21	303
25	9.9	107	60	219	112	129	264	60	69	407	35	200
26	81	77	54	147	105	132	210	51	58	278	24	150
27	172	65	50	112	100	137	171	48	49	233	29	221
28	141	62	46	97	93	134	145	43	43	158	37	224
29	77	83	48	85	83	127	131	39	39	115	31	160
30	46	111	47	82	---	162	156	48	37	129	25	123
31	29	---	41	97	---	205	---	121	---	443	20	---
TOTAL	707.3	2153.7	2807	3014	4267	4946	13053	2397	3893	9343	1775	5879
MEAN	22.8	71.8	90.5	97.2	147	160	435	77.3	130	301	57.3	196
MAX	172	503	242	379	437	525	2150	158	867	1820	380	905
MIN	4.5	7.5	41	39	61	52	102	39	33	21	18	14
CFSM	.14	.45	.57	.61	.93	1.00	2.74	.49	.82	1.90	.36	1.23
IN.	.17	.50	.66	.71	1.00	1.16	3.05	.56	.91	2.19	.42	1.38

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1992, BY WATER YEAR (WY)

	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	51.9	114	192	161	241	307	242	160	132	84.3	52.5	42.6													
MAX	238	660	563	731	648	902	637	411	429	334	296	226													
(WY)	1991	1986	1991	1974	1990	1982	1972	1989	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 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1968 - 1992	
ANNUAL TOTAL	41697.3		54235.0			
ANNUAL MEAN	114		148			
HIGHEST ANNUAL MEAN					148	1974
LOWEST ANNUAL MEAN					236	1977
HIGHEST DAILY MEAN	2230		2150		67.6	1977
LOWEST DAILY MEAN	3.9		4.5		4210	Feb 24 1985
ANNUAL SEVEN-DAY MINIMUM	4.3		5.5		3.3	Feb 1 1977
INSTANTANEOUS PEAK FLOW			2290		3.5	Jan 27 1977
INSTANTANEOUS PEAK STAGE			11.03		5140	Dec 31 1990
ANNUAL RUNOFF (CFSM)	.72		.93		17.91	Dec 31 1990
ANNUAL RUNOFF (INCHES)	9.76		12.69		.93	
10 PERCENT EXCEEDS	287		304		361	
50 PERCENT EXCEEDS	62		73		55	
90 PERCENT EXCEEDS	5.4		11		11	

WABASH RIVER BASIN

03328430 WEESAU CREEK NEAR DEEDSVILLE, IN

LOCATION.--Lat 40°54'34", long 86°07'36", in NW¹/₄NW¹/₄ 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 good except for estimated daily discharges, which are fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.73	12	17	4.7	5.9	5.2	14	e5.2	4.2	1.5	2.8	.70
2	.76	16	12	4.9	5.9	4.9	11	e4.8	3.6	1.5	2.3	.70
3	1.0	8.5	25	6.6	6.6	4.7	9.8	e4.6	3.1	1.8	2.0	.71
4	4.9	5.7	14	7.6	9.1	4.5	9.1	e4.2	3.3	1.5	1.7	.62
5	4.4	4.2	8.9	6.7	7.8	4.5	7.9	e4.0	3.1	1.4	1.5	.63
6	2.2	3.7	7.0	6.0	6.4	6.9	7.3	e3.9	2.8	1.3	1.4	.64
7	1.5	3.3	6.5	5.3	5.7	14	7.0	e3.7	3.4	1.3	1.3	.64
8	1.1	2.9	6.9	5.1	5.0	9.5	6.5	e3.6	2.7	1.3	1.2	.73
9	1.0	2.7	7.8	6.6	4.3	8.2	6.1	e4.3	2.5	1.3	.96	1.9
10	1.1	2.5	6.7	6.8	3.9	45	6.6	e3.9	2.4	61	.96	16
11	1.2	2.5	6.0	6.1	3.9	35	11	e3.7	2.2	22	.86	5.5
12	1.2	2.5	17	5.7	3.6	23	9.5	e3.8	2.2	34	.88	2.7
13	1.1	2.5	41	6.0	3.7	17	7.8	e3.7	2.1	142	.94	1.9
14	e1.1	2.4	20	9.7	3.5	14	7.3	e3.6	3.8	77	.83	1.6
15	e1.1	2.5	13	e8.4	15	13	7.4	e3.6	3.4	123	.85	1.4
16	e1.1	3.2	9.9	e6.6	22	11	8.7	e3.6	2.5	58	.82	1.3
17	e1.0	3.5	8.6	e6.0	14	15	15	e3.5	3.6	87	.78	1.2
18	e1.0	6.0	7.0	e5.3	22	17	124	e3.5	58	54	.75	1.2
19	e1.1	11	5.8	e4.8	21	41	e52	e3.5	17	26	.82	1.1
20	e1.1	69	5.4	e4.6	18	32	e28	3.4	6.8	47	.74	1.1
21	e1.1	43	5.4	e4.4	13	18	e19	3.4	4.3	50	.70	97
22	e1.1	22	5.3	e4.4	11	21	e14	4.3	3.4	23	.66	84
23	e1.1	14	5.8	19	9.3	15	e12	4.2	3.0	18	.74	34
24	e1.1	10	7.1	14	8.1	12	e13	3.8	2.7	13	.75	18
25	12	7.5	6.1	e8.5	8.2	11	e10	3.4	2.4	11	.70	11
26	40	6.0	5.3	e6.3	7.8	10	e8.5	3.4	2.1	12	.70	8.5
27	61	6.0	5.0	e5.6	6.8	15	e7.0	3.2	1.9	8.5	1.1	33
28	23	9.6	4.7	e5.4	6.4	15	e6.5	3.0	1.8	5.0	1.2	23
29	12	12	5.0	5.3	5.5	13	e6.1	2.8	1.6	3.6	.85	14
30	9.6	26	4.8	5.4	---	21	e5.6	3.8	1.6	3.4	.78	9.5
31	9.5	---	4.7	6.0	---	15	---	5.4	---	3.6	.74	---
TOTAL	201.19	322.7	304.7	207.8	263.4	491.4	457.7	118.8	157.5	895.0	33.31	374.27
MEAN	6.49	10.8	9.83	6.70	9.08	15.9	15.3	3.83	5.25	28.9	1.07	12.5
MAX	61	69	41	19	22	45	124	5.4	58	142	2.8	97
MIN	.73	2.4	4.7	4.4	3.5	4.5	5.6	2.8	1.6	1.3	.66	.62
CFSM	.73	1.21	1.11	.76	1.02	1.79	1.72	.43	.59	3.25	.12	1.41
IN.	.84	1.35	1.28	.87	1.10	2.06	1.92	.50	.66	3.75	.14	1.57

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1992, BY WATER YEAR (WY)

	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
MEAN	5.04	8.62	13.6	9.74	17.5	21.7	15.7	10.6	8.51	5.71	4.58	4.41											
MAX	28.5	28.2	35.9	25.8	47.6	53.7	34.5	24.6	31.6	28.9	47.0	21.6											
(WY)	1991	1986	1991	1974	1985	1982	1983	1983	1986	1992	1990	1989											
MIN	.79	.95	.61	.30	2.62	3.50	4.60	3.30	1.17	.80	.66	.45											
(WY)	1975	1977	1977	1977	1978	1981	1971	1977	1988	1988	1988	1988											

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1971 - 1992	
ANNUAL TOTAL	3349.36		3827.77			
ANNUAL MEAN	9.18		10.5		10.4	
HIGHEST ANNUAL MEAN					16.7	
LOWEST ANNUAL MEAN					5.52	
HIGHEST DAILY MEAN	91	Mar 18	142	Jul 13	436	Aug 18 1990
LOWEST DAILY MEAN	.73	Oct 1	.62	Sep 4	.26	Feb 1 1977
ANNUAL SEVEN-DAY MINIMUM	.76	Sep 26	.66	Sep 1	.27	Jan 29 1977
INSTANTANEOUS PEAK FLOW			185		518	Aug 18 1990
INSTANTANEOUS PEAK STAGE			4.60		7.37	Mar 13 1982
ANNUAL RUNOFF (CFSM)	1.03		1.18		1.18	
ANNUAL RUNOFF (INCHES)	14.05		16.05		15.99	
10 PERCENT EXCEEDS	21		22		24	
50 PERCENT EXCEEDS	5.9		5.3		4.3	
90 PERCENT EXCEEDS	.94		1.1		.99	

WABASH RIVER BASIN

03329400 RATTLESNAKE CREEK NEAR PATTON, IN

LOCATION.--Lat 40°42'46", long 86°41'49", in NW¹/₄SW¹/₄ sec.7, T.26 N., R.2 W., Carroll County, Hydrologic Unit 05120105, on left bank 5 ft downstream from bridge on County Road 900 West, and 2.5 mi northeast of Patton.
 DRAINAGE AREA.--6.83 mi².
 PERIOD OF RECORD.--October 1968 to current year.
 GAGE.--Water-stage recorder. Datum of gage is 644.97 ft above sea level. Prior to Nov. 28, 1979, at datum 1.00 ft higher.
 REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.25	13	10	3.7	4.0	4.7	6.3	4.4	2.5	1.1	2.5	1.1
2	e.40	10	11	4.4	4.3	4.4	5.8	4.2	2.5	1.6	2.3	1.1
3	.93	7.9	20	5.8	4.9	4.2	5.7	3.6	2.4	1.8	2.3	1.2
4	5.2	6.5	11	5.5	5.6	4.0	5.5	3.6	2.5	1.2	2.9	1.1
5	5.2	5.7	8.8	5.1	5.1	4.1	4.7	3.4	2.4	1.1	2.2	1.0
6	1.5	4.7	7.2	4.8	5.0	4.4	4.7	3.0	2.1	.98	1.9	1.0
7	.81	4.0	6.8	4.3	4.6	4.2	4.9	3.0	3.5	1.1	1.8	1.0
8	.61	3.6	7.0	6.0	3.9	3.8	4.5	3.2	2.6	1.0	1.8	1.2
9	.57	3.4	9.9	8.0	3.3	4.0	4.5	3.2	2.2	.95	1.7	3.8
10	.65	3.3	8.0	6.7	3.4	10	4.6	2.9	2.0	1.2	1.6	15
11	e.70	3.1	6.9	5.9	3.3	11	11	3.0	1.9	1.0	1.5	4.8
12	e.72	3.0	10	5.6	3.1	9.4	8.1	3.2	1.9	1.3	1.4	2.9
13	e.64	3.0	16	5.5	3.4	8.6	6.6	3.0	1.9	3.0	1.4	2.2
14	e.66	2.9	11	6.0	3.2	8.3	6.1	3.0	1.9	20	1.3	1.9
15	e.64	3.0	8.3	e4.7	8.3	8.4	5.9	3.0	1.8	26	1.3	1.7
16	e.62	3.2	7.0	e4.3	8.4	9.1	8.3	3.0	1.7	14	1.2	1.6
17	e.61	3.3	6.4	e4.1	7.3	9.3	7.0	3.0	2.1	34	1.2	1.6
18	e.59	3.7	5.2	e3.8	22	16	32	2.9	5.3	13	2.0	1.5
19	e.70	4.1	4.7	e3.6	15	28	35	2.9	2.5	7.1	3.2	1.5
20	e.64	63	4.8	e3.5	12	16	25	2.9	2.1	5.6	1.6	1.5
21	e.62	35	4.8	e3.4	9.8	12	15	2.9	1.8	4.4	1.4	12
22	e.60	21	4.8	e3.8	8.7	11	11	7.2	1.7	3.5	1.3	16
23	e.58	15	5.0	8.9	7.6	8.9	10	6.0	1.8	4.0	1.2	6.7
24	e.56	11	4.8	6.7	6.8	7.7	11	3.5	1.7	3.3	1.3	4.4
25	10	8.1	4.5	e4.8	6.6	7.4	9.1	3.2	1.6	5.3	1.2	3.5
26	45	7.0	4.3	e4.2	6.4	7.3	7.4	3.0	1.4	6.1	1.2	10
27	60	6.8	3.9	e3.9	5.8	7.4	6.1	2.7	1.3	4.7	1.7	25
28	21	8.8	4.1	e3.8	5.7	6.6	5.3	2.6	1.3	3.3	2.2	12
29	15	9.4	4.2	e3.7	4.7	6.7	5.2	2.6	1.3	3.1	1.5	7.8
30	16	14	3.7	4.2	---	6.8	4.7	3.1	1.2	3.2	1.3	6.1
31	17	---	3.6	4.3	---	6.6	---	2.6	---	3.2	1.2	---
TOTAL	209.00	290.5	227.7	153.0	192.2	260.3	281.0	103.8	62.9	181.13	52.6	152.2
MEAN	6.74	9.68	7.35	4.94	6.63	8.40	9.37	3.35	2.10	5.84	1.70	5.07
MAX	60	63	20	8.9	22	28	35	7.2	5.3	34	3.2	25
MIN	.25	2.9	3.6	3.4	3.1	3.8	4.5	2.6	1.2	.95	1.2	1.0
CFSM	.99	1.42	1.08	.72	.97	1.23	1.37	.49	.31	.86	.25	.74
IN.	1.14	1.58	1.24	.83	1.05	1.42	1.53	.57	.34	.99	.29	.83

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1992, BY WATER YEAR (WY)

	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
MEAN	3.15	4.71	7.76	6.51	9.41	11.6	10.7	9.37	7.52	3.99	2.89	3.37	3.99	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89
MAX	12.4	17.2	19.5	20.6	27.4	29.2	23.6	28.4	22.1	19.5	22.5	21.5	19.5	22.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5
(WY)	1991	1973	1991	1969	1990	1982	1974	1981	1975	1969	1990	1977	1975	1969	1990	1977	1977	1988	1988	1988	1988	1988	1988	1988	1988
MIN	.27	.39	.11	.069	1.73	1.57	2.38	2.04	.93	.45	.19	.073	.93	.45	.19	.073	.073	.073	.073	.073	.073	.073	.073	.073	.073
(WY)	1989	1977	1977	1977	1978	1981	1971	1976	1977	1977	1988	1988	1977	1977	1988	1988	1988	1988	1988	1988	1988	1988	1988	1988	1988

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1969 - 1992
ANNUAL TOTAL	2481.55	2166.33	
ANNUAL MEAN	6.80	5.92	6.73
HIGHEST ANNUAL MEAN			11.6
LOWEST ANNUAL MEAN			3.02
HIGHEST DAILY MEAN	96	63	234
LOWEST DAILY MEAN	.25	.25	.06
ANNUAL SEVEN-DAY MINIMUM	.26	.61	.06
INSTANTANEOUS PEAK FLOW		148	491
INSTANTANEOUS PEAK STAGE		4.19	5.30
ANNUAL RUNOFF (CFSM)	1.00	.87	.99
ANNUAL RUNOFF (INCHES)	13.52	11.80	13.39
10 PERCENT EXCEEDS	14	11	16
50 PERCENT EXCEEDS	4.7	4.1	2.9
90 PERCENT EXCEEDS	.33	1.2	.52

03330241 TIPPECANOE RIVER AT NORTH WEBSTER, IN

LOCATION.--Lat 41°18'58", long 85°41'32", in SE¹/₄NE¹/₄ 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	e38	e56	16	33	23	64	27	18	12	31	e13
2	2.6	e22	e56	16	33	22	63	31	20	12	31	e13
3	2.3	e13	56	17	32	22	63	34	19	12	31	e13
4	2.8	e9.0	56	16	32	22	62	34	20	11	28	e14
5	12	e8.6	55	16	32	22	34	34	21	11	15	e15
6	18	e8.6	55	16	32	22	20	33	24	11	15	e15
7	17	e8.6	55	16	32	22	19	32	23	10	e14	e15
8	17	e8.6	55	17	32	22	19	32	20	10	e14	e15
9	17	e8.6	54	18	31	22	19	32	20	11	e14	e16
10	16	e8.6	54	26	31	23	20	29	20	11	e14	e32
11	15	e8.6	53	36	30	23	49	17	19	12	e14	45
12	14	e8.6	54	34	30	48	63	17	21	12	e14	20
13	13	e8.6	54	34	30	81	61	17	22	12	e14	11
14	12	e8.6	54	36	30	79	60	17	21	22	e14	13
15	15	e8.6	53	35	30	78	41	17	21	45	e13	8.3
16	17	e8.6	53	35	31	76	29	17	20	41	e13	9.3
17	17	e8.6	53	34	31	76	28	37	20	35	e13	10
18	17	e8.6	53	34	33	75	28	45	20	36	e13	13
19	16	e9.0	52	34	35	74	39	9.4	20	36	e13	13
20	15	e74	51	33	43	37	50	8.8	20	38	e13	12
21	13	e73	51	33	66	17	51	12	16	39	e12	16
22	12	e71	51	32	65	18	52	18	12	38	e12	27
23	12	e65	51	33	63	18	68	16	11	37	e12	25
24	12	e62	50	33	60	19	76	14	11	36	e11	24
25	13	e60	38	33	59	53	74	14	11	35	e12	18
26	19	e58	18	33	58	69	72	13	12	35	e12	20
27	45	e57	18	34	57	69	72	13	12	34	e12	39
28	60	e56	18	34	56	67	53	13	12	33	e13	28
29	59	e56	18	34	41	66	28	15	12	33	e13	19
30	57	e56	18	34	---	65	28	18	12	32	e13	18
31	e54	---	17	34	---	64	---	18	---	32	e13	---
TOTAL	614.4	899.4	1430	886	1168	1394	1405	684.2	530	784	476	549.6
MEAN	19.8	30.0	46.1	28.6	40.3	45.0	46.8	22.1	17.7	25.3	15.4	18.3
MAX	60	74	56	36	66	81	76	45	24	45	31	45
MIN	2.3	8.6	17	16	30	17	19	8.8	11	10	11	8.3
CFSM	.40	.61	.94	.58	.82	.91	.95	.45	.36	.51	.31	.37
IN.	.46	.68	1.08	.67	.88	1.05	1.06	.52	.40	.59	.36	.41

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1992, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1987	1988	1989	1990	1991	1992
MEAN	54.9	49.0	61.2	73.2	61.7	59.0	64.5	42.7	40.0	20.5	22.6	27.3
MAX	142	99.2	98.8	176	119	102	88.0	77.4	93.9	38.1	80.1	87.7
(WY)	1991	1989	1987	1991	1990	1990	1991	1987	1989	1990	1990	1990
MIN	15.2	23.7	14.0	28.6	31.5	30.6	46.8	15.4	3.07	4.36	2.00	6.53
(WY)	1990	1990	1990	1992	1989	1989	1992	1988	1988	1988	1988	1988

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1987 - 1992	
ANNUAL TOTAL	19190.2		10820.6			
ANNUAL MEAN	52.6		29.6		48.0	
HIGHEST ANNUAL MEAN					70.5	
LOWEST ANNUAL MEAN					29.6	
HIGHEST DAILY MEAN	359	Jan 3	81	Mar 13	359	Jan 3 1991
LOWEST DAILY MEAN	2.2	Sep 27	2.3	Oct 3	.06	Aug 18 1988
ANNUAL SEVEN-DAY MINIMUM	2.6	Sep 24	8.2	Oct 1	.36	Aug 14 1988
INSTANTANEOUS PEAK FLOW			82	Mar 13	364	Jan 2 1991
INSTANTANEOUS PEAK STAGE			4.90	Sep 10	6.49	Jan 2 1991
ANNUAL RUNOFF (CFSM)	1.07		.60		.97	
ANNUAL RUNOFF (INCHES)	14.48		8.16		13.23	
10 PERCENT EXCEEDS	130		59		107	
50 PERCENT EXCEEDS	38		22		31	
90 PERCENT EXCEEDS	8.6		11		7.2	

03331110 WALNUT CREEK NEAR WARSAW, IN

LOCATION.--Lat 41°12'17", long 85°52'11", in NW¹/₄, NE¹/₄, 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 good, except for estimated daily discharges, which are fair. Flow occasionally regulated by lakes upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.54	12	20	e9.9	14	13	26	19	6.8	3.0	8.1	6.8
2	.64	14	20	e9.8	14	13	24	18	6.1	2.6	7.0	5.8
3	.89	12	24	e11	15	12	22	16	5.5	2.8	6.2	4.8
4	2.2	9.7	25	e15	16	12	21	15	5.8	3.2	5.6	4.3
5	2.2	8.6	21	14	17	11	19	14	6.0	2.9	4.8	4.0
6	2.1	7.7	18	13	16	12	18	13	5.4	2.3	4.2	3.7
7	2.1	7.3	16	e12	15	13	17	12	10	1.9	3.6	3.6
8	1.8	6.6	15	e11	14	13	16	11	11	2.1	3.2	4.0
9	1.6	6.2	15	e11	13	13	16	11	9.3	2.0	3.2	5.9
10	1.5	5.9	14	e12	12	20	15	11	8.1	2.7	3.1	32
11	1.8	5.7	13	e11	12	30	19	11	7.2	3.2	3.5	37
12	1.6	5.7	14	e11	11	32	22	10	6.2	4.2	3.6	32
13	1.8	5.6	25	e12	11	29	21	10	5.2	8.2	4.1	26
14	2.1	5.5	28	e14	11	25	20	9.5	4.7	10	3.8	19
15	2.0	5.8	25	e12	14	23	20	9.3	4.4	16	3.3	15
16	2.0	6.4	21	e11	22	21	28	8.7	4.1	15	3.1	12
17	1.9	6.4	18	e10	24	22	26	8.9	4.1	34	3.0	10
18	1.7	6.9	16	e9.4	24	24	32	9.0	7.3	41	3.2	8.5
19	2.0	8.7	e13	e8.8	26	26	35	8.1	8.0	33	3.7	7.6
20	1.9	39	e12	e7.9	25	29	34	6.6	6.7	28	3.5	6.8
21	1.8	48	e12	7.4	23	29	33	6.2	5.7	30	3.2	10
22	1.8	41	e12	9.8	21	29	29	6.6	4.9	23	2.9	19
23	1.7	33	e13	14	19	31	28	6.6	4.6	18	2.6	21
24	1.7	25	e14	20	18	29	30	6.4	3.9	15	2.5	19
25	4.1	19	13	20	18	26	30	6.0	3.3	13	2.4	16
26	16	15	12	19	17	25	28	5.7	3.1	11	2.5	14
27	35	14	e11	17	16	26	26	5.0	3.2	9.5	5.0	16
28	26	14	e10	15	15	27	23	4.4	3.4	8.2	12	18
29	18	15	e10	e14	14	27	21	3.9	3.3	7.8	13	16
30	15	19	e11	e13	---	27	20	5.2	3.2	8.4	10	14
31	13	---	e10	e13	---	26	---	7.5	---	8.8	8.4	---
TOTAL	168.47	428.7	501	388.0	487	695	719	294.6	170.5	370.8	148.3	411.8
MEAN	5.43	14.3	16.2	12.5	16.8	22.4	24.0	9.50	5.68	12.0	4.78	13.7
MAX	35	48	28	20	26	32	35	19	11	41	13	37
MIN	.54	5.5	10	7.4	11	11	15	3.9	3.1	1.9	2.4	3.6
CFSM	.28	.73	.82	.64	.86	1.14	1.22	.48	.29	.61	.24	.70
IN.	.32	.81	.95	.74	.92	1.32	1.36	.56	.32	.70	.28	.78

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1992, BY WATER YEAR (WY)

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
MEAN	8.66	13.6	21.6	17.5	25.1	36.4	34.7	20.4	17.2	6.90	6.06	6.78												
MAX	54.6	40.2	48.3	49.7	60.6	110	66.5	60.8	80.3	20.9	53.7	27.0												
(WY)	1991	1973	1991	1991	1985	1982	1981	1981	1981	1981	1990	1980												
MIN	1.04	2.18	1.43	.91	2.87	14.0	14.3	6.35	2.34	1.73	1.07	.80												
(WY)	1977	1979	1977	1977	1979	1989	1976	1988	1988	1988	1971	1976												

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1970 - 1992
ANNUAL TOTAL	6462.73	4783.17	
ANNUAL MEAN	17.7	13.1	17.9
HIGHEST ANNUAL MEAN			28.2
LOWEST ANNUAL MEAN			10.0
HIGHEST DAILY MEAN	194	Jan 1	389
LOWEST DAILY MEAN	.47	Sep 30	.54
ANNUAL SEVEN-DAY MINIMUM	.53	Sep 26	1.5
INSTANTANEOUS PEAK FLOW			49
INSTANTANEOUS PEAK FLOW			2.33
ANNUAL RUNOFF (CFSM)	.90		.67
ANNUAL RUNOFF (INCHES)	12.27	9.08	12.38
10 PERCENT EXCEEDS	38	26	42
50 PERCENT EXCEEDS	15	12	10
90 PERCENT EXCEEDS	1.2	2.9	1.7

WABASH RIVER BASIN

03333050 TIPPECANOE RIVER NEAR DELPHI, IN

LOCATION.--Lat 40°35'38", long 86°46'12", in SW¹/₄, SW¹/₄, 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 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).

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. Flow regulated by upstream reservoirs.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	789	795	2230	3450	5570	2180	5110	1240	703	569	299	262
2	819	963	2100	2550	4750	1940	4760	1470	664	318	298	267
3	827	537	1840	2570	4420	2120	4560	1150	772	309	276	334
4	744	821	1800	2510	3550	1700	4240	1220	521	414	244	402
5	539	857	1760	1500	3000	1860	3790	1150	784	419	131	536
6	706	513	1750	1200	1800	1870	4630	1170	501	278	249	267
7	600	697	1540	1200	1400	1820	6300	1020	499	306	319	264
8	589	591	2880	1250	1600	1790	5320	932	737	306	270	435
9	864	895	3070	1400	1400	2190	4750	1180	465	306	400	433
10	596	491	3240	1550	2010	1920	4340	1080	425	322	606	498
11	872	638	2660	1500	2230	1890	3880	946	524	387	531	272
12	457	754	2490	1400	1570	1970	3690	985	550	380	251	460
13	648	737	2530	1810	1500	1840	3230	1050	462	299	434	273
14	473	465	2010	1430	1350	1860	3260	777	578	442	291	268
15	768	731	4140	1430	2750	1530	2880	1050	457	362	269	272
16	773	536	6680	1130	3400	1450	2560	822	459	373	269	320
17	470	638	5200	1550	3150	1660	2280	888	352	351	265	546
18	625	756	4550	2140	3390	1460	2480	916	488	417	259	293
19	778	463	4140	2220	3690	1490	2300	854	363	444	421	306
20	469	795	6430	4210	3900	1450	2060	770	527	307	283	566
21	680	463	7270	4290	3240	1270	2050	854	457	403	380	468
22	644	525	5610	3880	3070	1260	2000	753	405	386	265	391
23	632	762	5150	3260	3560	1260	2010	865	590	438	338	324
24	883	761	4830	2260	3390	2410	1890	1110	326	501	271	329
25	589	1090	4550	2090	2890	3380	1480	780	481	300	351	315
26	693	1910	4260	1520	2630	4220	1760	1080	324	299	295	349
27	943	1610	3820	1400	2300	3230	1680	923	320	302	261	268
28	799	2050	4090	1150	2350	3300	1560	945	315	306	258	629
29	727	2560	5480	1300	1890	3570	1460	901	328	306	257	294
30	756	2480	4250	2170	---	6760	1460	818	407	302	257	276
31	963	---	4160	3240	---	6440	---	779	---	308	259	---
TOTAL	21715	27884	116510	64560	81750	73090	93770	30478	14784	11160	9557	10917
MEAN	700	929	3758	2083	2819	2358	3126	983	493	360	308	364
MAX	963	2560	7270	4290	5570	6760	6300	1470	784	569	606	629
MIN	457	463	1540	1130	1350	1260	1460	753	315	278	131	262
CFSM	.37	.50	2.01	1.11	1.51	1.26	1.67	.53	.26	.19	.16	.19
IN.	.43	.55	2.32	1.28	1.63	1.45	1.87	.61	.29	.22	.19	.22
CAL YR 1987	TOTAL 562648	MEAN 1542	MAX 7270	MIN 399	CFSM .82	IN. 11.20						
WTR YR 1988	TOTAL 556175	MEAN 1520	MAX 7270	MIN 131	CFSM .81	IN. 11.07						

03333050 TIPPECANOE RIVER NEAR DELPHI, IN

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	283	624	1520	1790	1910	1110	1260	941	2990	1060	1060	8620
2	609	581	1050	2130	1570	1050	1350	1120	5650	757	836	9550
3	299	796	1540	1620	1780	985	2790	976	5000	828	819	6510
4	367	563	1210	1540	1730	1070	4470	906	5890	777	820	4210
5	351	755	1130	1400	1350	1570	4020	1030	4670	830	810	2910
6	421	891	1130	1830	1070	1060	3410	782	3950	734	462	2270
7	344	589	1190	2150	1070	1180	2860	741	3400	738	533	2120
8	439	815	1200	5090	823	1100	2560	776	3130	499	615	1960
9	291	603	942	4450	1030	1110	2380	985	2590	723	582	2900
10	456	1080	1090	4000	1140	974	1970	819	2660	502	600	3120
11	414	1230	763	3660	1290	1040	1820	926	2130	930	532	2490
12	289	1430	758	3590	1410	1170	1900	610	3260	2290	650	2140
13	290	1420	779	2840	1410	981	1570	1040	3970	1810	401	1820
14	295	1430	934	2910	1310	989	1590	785	3110	1220	595	2010
15	572	1250	842	2730	1380	1370	1330	630	3220	1130	834	2780
16	338	1480	857	2370	1560	1110	1480	817	2560	872	777	2420
17	383	1760	660	2260	1170	1210	1320	709	2190	764	378	2010
18	810	1700	550	2090	1370	1540	1350	566	2140	756	716	1850
19	637	1450	507	1750	1700	2040	1320	1090	1930	1370	310	1500
20	682	1960	884	2080	1220	1940	1090	3710	2870	1780	431	1480
21	564	2310	1230	1770	1460	1660	1080	2710	2440	1670	802	1350
22	740	2560	924	2020	1230	1720	1130	1870	1760	2300	570	1340
23	748	2460	1310	1660	1120	1890	920	1760	1650	1560	539	1170
24	856	2030	1630	1670	1050	1620	920	1540	1350	1190	576	1130
25	821	2160	1530	1660	1200	1470	1130	1730	1350	1050	542	937
26	526	1950	1210	1900	1370	1460	1340	3270	1350	1020	797	1220
27	735	1780	1720	2120	1120	1470	1210	2800	1150	870	530	740
28	679	1790	2240	2190	1220	1420	1150	2320	1300	820	1140	868
29	601	1570	2350	1910	---	1580	1610	3990	878	625	1580	967
30	607	1620	2050	1900	---	1120	1280	5170	978	912	988	818
31	615	---	2020	2070	---	1110	---	3690	---	956	876	---
TOTAL	16062	42637	37750	73150	37063	41119	53610	50809	81516	33343	21701	75210
MEAN	518	1421	1218	2360	1324	1326	1787	1639	2717	1076	700	2507
MAX	856	2560	2350	5090	1910	2040	4470	5170	5890	2300	1580	9550
MIN	283	563	507	1400	823	974	920	566	878	499	310	740
CFSM	.28	.76	.65	1.26	.71	.71	.96	.88	1.45	.58	.37	1.34
IN.	.32	.85	.75	1.46	.74	.82	1.07	1.01	1.62	.66	.43	1.50
CAL YR 1988	TOTAL 486515	MEAN 1329	MAX 6760	MIN 131	CFSM .71	IN. 9.68						
WTR YR 1989	TOTAL 563970	MEAN 1545	MAX 9550	MIN 283	CFSM .83	IN. 11.23						

WABASH RIVER BASIN --Continued

03333050 TIPPECANOE RIVER NEAR DELPHI, IN

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	850	836	1080	791	1920	6640	2720	2020	1780	1640	2040	3350
2	985	830	924	784	3440	5990	2970	2030	1940	1230	1620	3070
3	755	613	802	971	4020	5630	2780	1760	2400	1220	1530	2670
4	650	900	818	1110	3650	4820	2620	2100	2020	1040	1930	2540
5	793	805	993	1940	3430	4580	2660	2650	1680	1020	2700	2270
6	908	909	1010	1650	3010	4100	2560	2280	1800	951	1950	2260
7	719	716	947	1630	2710	3720	2190	2140	1610	751	1920	2170
8	805	979	745	1680	2580	3610	2210	1940	1740	642	1570	2100
9	794	661	791	1700	2580	5230	2210	1870	2100	808	1390	1970
10	642	936	795	1720	2490	6550	2530	2030	2380	809	1310	1830
11	754	765	1080	1510	2040	13600	3800	1650	2080	1110	964	1810
12	870	772	684	1300	2030	11500	3520	2020	1860	1180	2370	1930
13	530	828	443	1210	2030	9080	3520	2500	1790	1440	4630	1660
14	884	801	921	1310	1900	7800	3570	3440	1520	1490	4720	1910
15	646	1350	515	1150	2400	6620	4420	3010	1440	1500	3950	1520
16	766	1990	640	1200	3660	5880	3640	6700	1470	1730	3280	1910
17	844	2200	700	1250	3840	5060	3580	7090	1260	1500	2880	1680
18	716	2160	740	1840	3570	4520	3120	5560	1250	1400	5570	1680
19	716	1760	780	2070	3960	4060	2940	4740	1110	1060	9020	1600
20	890	1660	800	2070	3480	3600	2920	4800	1120	1320	8560	1610
21	920	1630	820	2160	3280	3430	3600	4250	1170	3210	12400	1600
22	1080	1460	800	2130	8520	3300	3630	3940	1120	3390	12800	1590
23	1110	1260	800	1920	14300	3120	3490	3450	1350	3840	11000	1590
24	1040	1260	800	2080	11500	3010	3080	3220	1070	3350	9840	1370
25	947	1280	800	2220	9640	2730	2870	3060	1330	3390	8560	1400
26	936	1120	800	2500	9120	2690	2620	3010	1030	3000	7260	1330
27	921	1090	800	2340	8000	2530	2670	2780	1220	2520	6180	1370
28	936	1240	800	2120	7380	2450	2370	2570	1200	2370	5350	1230
29	836	922	800	2040	---	2430	2300	2250	1760	2230	4840	1300
30	836	973	796	1820	---	2570	2250	1910	1870	2800	4390	1270
31	837	---	881	1860	---	2610	---	1820	---	2450	3810	---
TOTAL	25916	34706	25105	52076	130480	153460	89360	94590	47470	56391	150334	55590
MEAN	836	1157	810	1680	4660	4950	2979	3051	1582	1819	4849	1853
MAX	1110	2200	1080	2500	14300	13600	4420	7090	2400	3840	12800	3350
MIN	530	613	443	784	1900	2430	2190	1650	1030	642	964	1230
CFSM	.45	.62	.43	.90	2.49	2.65	1.59	1.63	.85	.97	2.59	.99
IN.	.52	.69	.50	1.04	2.60	3.05	1.78	1.88	.94	1.12	2.99	1.11
CAL YR 1989	TOTAL 553248	MEAN 1516	MAX 9550	MIN 310	CFSM .81	IN. 11.01						
WTR YR 1990	TOTAL 915478	MEAN 2508	MAX 14300	MIN 443	CFSM 1.34	IN. 18.22						

03333050 TIPPECANOE RIVER NEAR DELPHI, IN

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1180	1060	3220	13500	2490	2560	3650	3170	2850	950	335	353
2	926	263	2800	12400	2680	3000	3030	2840	3080	759	386	338
3	1170	1320	3120	11300	2790	3500	2790	2710	3150	1120	345	382
4	1350	1880	4040	9200	2980	3310	2940	2700	2830	863	384	432
5	1330	3390	3110	7910	3500	3200	2900	2640	2710	925	346	406
6	1180	6270	3500	6990	3690	3090	2800	2700	2640	725	401	338
7	1570	5140	2640	6150	3830	2910	2680	2690	2170	660	376	338
8	1800	4550	2880	5390	3590	2590	2750	2450	2150	964	753	380
9	4310	4360	2370	5100	3580	2650	2550	2130	1950	745	436	363
10	10500	3860	2430	4590	3490	2290	2550	2460	1680	1560	561	338
11	10700	3470	2350	4630	3290	2220	2430	2220	1780	1000	495	339
12	8600	3310	2370	5040	2920	2320	2250	2150	1590	1020	462	348
13	7950	2860	2190	4590	3050	2980	2380	2140	1450	833	443	407
14	7290	2900	1880	4460	2830	3100	2730	2150	1450	728	409	468
15	6660	2400	2540	4830	2320	3210	5340	2610	1470	724	333	430
16	5980	2450	2340	7440	2010	3650	6920	2590	1420	447	371	484
17	5470	2250	2540	8450	2380	5030	6050	3520	1410	668	450	300
18	5500	2230	2760	6760	2720	8890	6160	6430	1400	481	407	236
19	4940	1970	2530	6270	3350	9930	5490	6260	1400	689	651	376
20	4560	1980	2570	6140	3500	8800	4900	4130	1210	425	407	373
21	4310	1850	2740	5690	3540	7290	4650	3440	1070	502	512	403
22	3740	1920	4110	4860	3430	5960	4100	2890	1080	443	484	403
23	3500	1830	3840	4500	3060	6080	3910	2690	755	451	470	374
24	3240	1860	3200	3820	3090	5870	3910	3150	911	403	461	276
25	3110	1680	2170	3220	2820	5190	3390	4320	811	408	358	353
26	2820	1680	2540	3140	2610	5210	3510	5110	895	383	446	364
27	2810	1700	1950	3090	2530	6260	3350	3740	751	458	352	347
28	2570	3220	1840	2940	2190	5430	3310	3100	704	401	334	377
29	3560	4360	7530	3050	---	4850	3130	2680	695	299	443	356
30	4180	3290	18400	2970	---	3780	3200	2640	688	441	358	403
31	2920	---	15900	2700	---	3720	---	2390	---	403	396	---
TOTAL	129726	81303	118400	181120	84260	138870	109750	96840	48150	20878	13365	11085
MEAN	4185	2710	3819	5843	3009	4480	3658	3124	1605	673	431	369
MAX	10700	6270	18400	13500	3830	9930	6920	6430	3150	1560	753	484
MIN	926	263	1840	2700	2010	2220	2250	2130	688	299	333	236
CFSM	2.24	1.45	2.04	3.13	1.61	2.40	1.96	1.67	.86	.36	.23	.20
IN.	2.58	1.62	2.36	3.60	1.68	2.76	2.18	1.93	.96	.42	.27	.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1991, BY WATER YEAR (WY)

	1988	1989	1990	1991	1988	1989	1990	1991	1988	1989	1990	1991
MEAN	1560	1554	2401	2991	2952	3279	2887	2199	1599	982	1572	1273
MAX	4185	2710	3819	5843	4660	4950	3658	3124	2717	1819	4849	2507
(WY)	1991	1991	1991	1991	1990	1990	1991	1991	1989	1990	1990	1989
MIN	518	929	810	1680	1324	1326	1787	983	493	360	308	364
(WY)	1989	1988	1990	1990	1989	1989	1989	1988	1988	1988	1988	1988

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR		FOR 1991 WATER YEAR		WATER YEARS 1988 - 1991	
ANNUAL TOTAL	1159180		1033747		2101	
ANNUAL MEAN	3176		2832		2832	
HIGHEST ANNUAL MEAN					1520	
LOWEST ANNUAL MEAN					18400	
HIGHEST DAILY MEAN	18400	Dec 30	18400	Dec 30	18400	Dec 30 1990
LOWEST DAILY MEAN	263	Nov 2	236	Sep 18	131	Aug 5 1988
ANNUAL SEVEN-DAY MINIMUM	860	Jul 4	349	Sep 18	255	Aug 2 1988
INSTANTANEOUS PEAK FLOW			18900		18900	
INSTANTANEOUS PEAK STAGE			12.87		12.87	
ANNUAL RUNOFF (CFSM)	1.70		1.52		1.12	
ANNUAL RUNOFF (INCHES)	23.07		20.58		15.27	
10 PERCENT EXCEEDS	5980		5760		4280	
50 PERCENT EXCEEDS	2450		2610		1550	
90 PERCENT EXCEEDS	1250		392		415	

WABASH RIVER BASIN --Continued

03333050 TIPPECANOE RIVER NEAR DELPHI, IN

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	341	2400	2290	1160	1460	1640	2470	1960	985	520	1400	737
2	270	2020	2380	1490	1420	1830	2190	1820	963	676	1060	610
3	438	1600	2640	1500	1360	1480	2070	1810	866	592	1300	607
4	759	1680	2900	1510	1590	1520	2130	1670	872	486	929	556
5	965	1150	2230	1500	1600	1550	1930	1530	810	591	1050	428
6	503	1350	2220	1500	1470	1490	1960	1430	957	608	740	456
7	596	1250	1930	1500	1470	1580	1680	1400	1590	557	790	611
8	546	1110	1980	1360	1400	1560	1820	1320	1840	428	803	647
9	600	1150	2120	1810	1370	1490	1610	1110	1770	664	880	545
10	502	949	2080	1690	1160	2250	1440	1530	1210	652	649	2030
11	407	1080	1760	1460	1240	2440	2150	1230	1330	1050	685	2320
12	485	917	2060	1680	1200	2670	2210	1170	1010	736	492	1960
13	435	863	2700	1460	1130	2430	1760	1580	771	1470	607	1390
14	499	955	3010	1510	1180	2530	1790	1110	1030	1790	539	1260
15	468	1050	2430	1650	1410	2400	1570	1030	853	3420	634	1210
16	440	1040	2120	884	1880	2100	1890	1330	771	3010	463	937
17	398	1000	2090	1030	1880	2520	2250	1010	831	3270	693	1010
18	466	1080	1760	1130	3050	2480	3160	1130	1120	3080	617	1060
19	542	1270	1530	1050	3580	3580	4340	1120	1080	2410	649	712
20	477	2500	1800	1070	3030	3600	3650	1040	884	2340	490	748
21	440	4100	1600	1090	2820	3100	3930	874	739	2050	480	1190
22	499	3830	1390	1700	2720	3130	3330	1080	813	1830	382	1470
23	484	3300	1640	1700	2310	2720	3010	969	762	2320	656	1310
24	510	2950	1610	1790	2080	2400	3010	815	788	2480	498	1120
25	917	2640	1390	1780	2010	2350	2990	1060	668	2070	475	852
26	1380	2170	1540	1630	2180	2350	2580	634	663	2220	543	1540
27	2990	2100	1490	1450	2070	2280	2360	944	438	1890	768	2520
28	2630	1930	1410	1770	1920	2130	2020	795	700	1460	931	2460
29	2470	2170	1410	1460	1560	2230	2310	811	657	1320	744	1960
30	2210	2420	1400	1400	---	2460	2060	780	439	1370	666	1630
31	2400	---	1400	1560	---	2380	---	854	---	1650	557	---
TOTAL	27067	54024	60310	45274	53550	70670	71670	36946	28210	49010	22170	35886
MEAN	873	1801	1945	1460	1847	2280	2389	1192	940	1581	715	1196
MAX	2990	4100	3010	1810	3580	3600	4340	1960	1840	3420	1400	2520
MIN	270	863	1390	884	1130	1480	1440	634	438	428	382	428
CFSM	.47	.96	1.04	.78	.99	1.22	1.28	.64	.50	.85	.38	.64
IN.	.54	1.08	1.20	.90	1.07	1.41	1.43	.74	.56	.98	.44	.71

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1992, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1988	1989	1990	1991	1992		
MEAN	1422	1604	2310	2685	2726	3079	2788	1998	1468	1102	1401	1258
MAX	4185	2710	3819	5843	4660	4950	3658	3124	2717	1819	4849	2507
(WY)	1991	1991	1991	1991	1990	1990	1991	1991	1989	1990	1990	1989
MIN	518	929	810	1460	1324	1326	1787	983	493	360	308	364
(WY)	1989	1988	1990	1992	1989	1989	1989	1988	1988	1988	1988	1988

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1988 - 1992	
ANNUAL TOTAL	845719		554787			
ANNUAL MEAN	2317		1516		1984	
HIGHEST ANNUAL MEAN					2832	
LOWEST ANNUAL MEAN					1516	
HIGHEST DAILY MEAN	13500	Jan 1	4340	Apr 19	18400	Dec 30 1990
LOWEST DAILY MEAN	236	Sep 18	270	Oct 2	131	Aug 5 1988
ANNUAL SEVEN-DAY MINIMUM	349	Sep 18	447	Oct 11	255	Aug 2 1988
INSTANTANEOUS PEAK FLOW			4890	Apr 19	22100	Dec 30 1990
INSTANTANEOUS PEAK STAGE			5.77	Apr 19	12.87	Dec 30 1990
ANNUAL RUNOFF (CFSM)	1.24		.81		1.06	
ANNUAL RUNOFF (INCHES)	16.83		11.04		14.42	
10 PERCENT EXCEEDS	4950		2520		3840	
50 PERCENT EXCEEDS	2120		1430		1500	
90 PERCENT EXCEEDS	385		546		447	

03333450 WILDCAT CREEK NEAR JEROME, IN

LOCATION.--Lat 40°26'29", long 85°55'08", in NE¹/₄, SE¹/₄, 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 good 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e1.3	e6.0	52	29	85	53	202	101	93	49	426	18
2	e1.4	e5.4	47	30	82	51	229	96	74	46	258	17
3	e2.0	e4.8	61	34	96	47	194	87	62	69	181	18
4	e2.5	e3.8	e52	36	133	44	171	78	60	68	135	17
5	5.1	e3.1	e43	35	144	43	129	75	57	46	104	18
6	e2.7	e3.0	e38	35	127	46	105	65	49	41	85	20
7	e2.0	e2.8	35	35	116	49	104	57	42	35	73	23
8	e1.8	e2.6	31	33	e86	47	97	58	38	34	67	32
9	e1.7	e2.4	29	36	e70	41	88	67	33	32	59	39
10	e1.6	e2.2	26	35	e60	55	83	60	32	47	50	201
11	e1.5	e2.2	23	32	e60	104	88	51	30	79	45	174
12	e1.4	e2.3	25	32	e52	103	124	53	28	182	40	88
13	1.4	e2.4	90	34	56	86	91	63	28	3980	36	51
14	1.4	e2.0	109	102	59	79	82	57	217	6030	33	34
15	1.5	e2.0	83	e120	86	72	79	51	307	3270	30	25
16	1.7	e2.1	e60	e92	210	63	138	45	151	1470	28	21
17	3.2	e2.1	e48	e83	176	71	976	47	123	1060	26	17
18	1.9	e2.6	e40	e74	182	75	1490	65	2910	1040	25	16
19	e1.6	e4.0	e35	e58	257	373	1490	50	2540	667	28	15
20	e1.5	25	e31	e56	193	352	935	42	1080	462	26	14
21	e1.5	165	e32	63	151	232	721	38	618	380	23	175
22	e1.4	139	34	60	126	186	571	36	386	282	21	716
23	e1.4	86	39	101	115	145	406	39	267	224	20	526
24	e1.4	54	51	e150	103	113	313	164	198	275	20	271
25	e5.0	35	48	e120	93	102	247	125	146	213	20	164
26	29	24	42	e100	85	110	198	73	112	205	20	115
27	41	21	38	84	81	111	160	54	89	186	24	122
28	28	22	35	75	74	99	133	43	72	148	29	140
29	18	37	37	66	68	94	120	37	64	124	28	107
30	e10	47	35	65	---	159	116	47	57	159	23	84
31	e7.0	---	31	78	---	216	---	108	---	547	19	---
TOTAL	182.9	712.8	1380	1983	3226	3421	9880	2032	9963	21450	2002	3278
MEAN	5.90	23.8	44.5	64.0	111	110	329	65.5	332	692	64.6	109
MAX	41	165	109	150	257	373	1490	164	2910	6030	426	716
MIN	1.3	2.0	23	29	52	41	79	36	28	32	19	14
CFSM	.04	.16	.30	.44	.76	.76	2.26	.45	2.27	4.74	.44	.75
IN.	.05	.18	.35	.51	.82	.87	2.52	.52	2.54	5.47	.51	.84

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1992, BY WATER YEAR (WY)

	1967	1977	1977	1977	1963	1981	1971	1976	1988	1988	1966	1991
MEAN	44.7	91.9	171	142	213	289	226	144	119	86.6	38.5	50.3
MAX	252	541	622	687	649	793	689	372	544	692	199	589
(WY)	1970	1973	1991	1974	1976	1982	1964	1989	1980	1992	1973	1989
MIN	1.72	2.95	2.49	1.02	11.2	52.6	38.7	17.9	8.20	7.13	3.80	2.09
(WY)	1967	1977	1977	1977	1963	1981	1971	1976	1988	1988	1966	1991

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1962 - 1992	
ANNUAL TOTAL	44521.3		59510.7			
ANNUAL MEAN	122		163		134	
HIGHEST ANNUAL MEAN					234	
LOWEST ANNUAL MEAN					50.2	
HIGHEST DAILY MEAN	1800		6030		6030	
LOWEST DAILY MEAN	1.3		1.3		.89	
ANNUAL SEVEN-DAY MINIMUM	1.4		1.5		.90	
INSTANTANEOUS PEAK FLOW			7120		7120	
INSTANTANEOUS PEAK STAGE			13.31		13.71	
ANNUAL RUNOFF (CFSM)	.84		1.11		.92	
ANNUAL RUNOFF (INCHES)	11.34		15.16		12.49	
10 PERCENT EXCEEDS	376		236		327	
50 PERCENT EXCEEDS	45		57		46	
90 PERCENT EXCEEDS	1.9		3.2		4.9	

WABASH RIVER BASIN

03335000 WILDCAT CREEK NEAR LAFAYETTE, IN

LOCATION.--Lat 40°26'26", long 86°49'45", in SW¹/₄NW¹/₄, 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107	245	544	269	503	553	867	702	331	264	3720	258
2	107	215	506	271	493	517	989	649	312	260	2440	240
3	110	210	519	277	479	491	974	583	300	317	1690	232
4	130	194	697	313	499	472	999	541	275	535	1270	220
5	161	174	589	330	566	458	987	506	269	367	997	216
6	155	158	491	327	595	461	828	481	264	317	797	212
7	175	156	427	314	571	468	728	447	249	293	669	212
8	153	147	379	305	530	441	669	419	240	281	586	217
9	140	139	358	303	463	415	636	409	223	273	522	381
10	132	137	338	303	403	519	621	421	212	276	471	501
11	129	130	319	288	367	911	703	406	201	297	426	1270
12	128	130	320	274	344	1010	730	403	192	1680	387	840
13	129	129	372	273	330	905	700	421	188	5450	359	568
14	131	127	666	298	329	883	664	419	198	8760	337	418
15	128	129	661	298	424	832	617	389	300	12000	316	340
16	128	130	470	250	701	782	685	379	391	12700	299	288
17	133	126	380	430	884	777	3230	364	438	10400	282	256
18	135	135	340	500	1130	823	5490	392	539	7370	268	238
19	142	160	300	400	1610	1590	6090	401	2010	4470	263	220
20	142	424	280	350	1420	1800	6030	382	2880	2950	285	211
21	142	1120	290	401	1210	1560	4850	348	2860	2150	266	1070
22	151	1210	305	377	1030	1280	3130	329	1360	1690	245	2770
23	149	804	306	416	908	1110	2420	312	941	1470	239	2430
24	146	581	338	580	817	948	1910	367	726	1860	232	1730
25	164	449	363	730	757	846	1560	333	595	1900	314	1160
26	438	377	336	680	717	815	1310	383	500	2300	332	897
27	1190	344	329	560	678	796	1100	385	427	2400	320	1280
28	1170	334	302	494	632	761	939	339	360	1710	516	1200
29	701	391	290	437	597	734	827	309	312	1260	454	895
30	445	493	290	412	---	743	764	312	284	1420	341	723
31	286	---	279	426	---	785	---	337	---	4590	288	---
TOTAL	7677	9498	12384	11898	19987	25486	52047	12868	18377	92010	19931	21493
MEAN	248	317	399	384	689	822	1735	415	613	2968	643	716
MAX	1190	1210	697	730	1610	1800	6090	702	2880	12700	3720	2770
MIN	107	126	279	250	329	415	617	309	188	260	232	211
CFSM	.31	.40	.50	.48	.87	1.04	2.19	.52	.77	3.74	.81	.90
IN.	.36	.44	.58	.56	.94	1.19	2.44	.60	.86	4.31	.93	1.01

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 1992, BY WATER YEAR (WY)

MEAN	309	505	854	780	1121	1399	1317	895	803	575	353	318
MAX	1298	2519	2474	3711	3227	3991	3657	2614	5210	2968	1511	2546
(WY)	1970	1986	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 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1955 - 1992
ANNUAL TOTAL	252161	303656	
ANNUAL MEAN	691	830	767
HIGHEST ANNUAL MEAN			1359
LOWEST ANNUAL MEAN			310
HIGHEST DAILY MEAN	12500	Jan 1	22100
LOWEST DAILY MEAN	73	Sep 11	47
ANNUAL SEVEN-DAY MINIMUM	80	Sep 6	51
INSTANTANEOUS PEAK FLOW		13900	25000
INSTANTANEOUS PEAK STAGE		16.98	21.52
ANNUAL RUNOFF (CFSM)	.87	1.04	.97
ANNUAL RUNOFF (INCHES)	11.81	14.23	13.12
10 PERCENT EXCEEDS	1410	1600	1730
50 PERCENT EXCEEDS	391	420	357
90 PERCENT EXCEEDS	99	161	112

WABASH RIVER BASIN

03335677 MARSHALL DITCH NEAR MONTMORENCI, IN

LOCATION.--Lat 40°30'42", long 87°01'10", in NW¹/₄SW¹/₄, sec.20, T.24 N., R.5 W., Tippecanoe County, Hydrologic Unit 05120108, on right bank at mile 1.7, and 2.9 mi northeast of Montmorenci.

DRAINAGE AREA.--1.58 mi².

PERIOD OF RECORD.--October 1990 to current year.

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. Minimum daily discharge, no flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.09	.35	.09	.18	.47	.49	.62	.13	.03	1.7	.02
2	.00	.06	.44	.13	.26	.41	.45	.57	.13	.02	1.2	.02
3	.00	.04	1.1	.18	.35	.39	.48	.46	.13	.02	.91	.02
4	.00	.03	.48	.17	.39	.37	.52	.45	.14	.02	.70	.02
5	.00	.03	.35	.17	.35	.37	.43	.40	.12	.02	.59	.02
6	.00	.02	.24	.16	.34	.39	.46	.35	.11	.02	.51	.02
7	.00	.02	.23	.13	.27	.36	.45	.36	.10	.02	.48	.02
8	.00	.02	.21	.52	.18	.32	.38	.40	.10	.02	.42	.03
9	.00	.02	.15	.71	.14	.38	.37	.36	.09	.02	.35	1.3
10	.00	.02	.14	.48	.16	1.7	.43	.31	.09	.02	.30	4.0
11	.00	.02	.12	.39	.13	1.3	.52	.32	.08	.25	.23	.62
12	.00	.02	.46	.36	.13	1.1	.37	.33	.09	2.5	.19	.42
13	.00	.02	1.1	.35	.15	1.0	.39	.28	.10	6.2	.17	.30
14	.00	.02	.58	.30	.12	.98	.39	.27	.08	65	.13	.22
15	.00	.02	.38	e.24	1.2	.92	.38	.26	.07	21	.12	.16
16	.00	.02	.30	e.18	1.1	1.1	.44	.25	.06	4.6	.10	.15
17	.00	.03	e.24	e.15	.90	1.0	.70	e.24	.08	3.3	.08	.14
18	.00	.04	e.35	e.14	5.1	e.1.8	5.3	.21	.06	2.4	.07	.13
19	.00	.05	e.20	e.13	2.7	e.3.8	3.0	.21	.05	2.0	.06	.08
20	.00	2.1	.15	e.13	2.0	1.8	2.9	.20	.06	4.0	.05	.10
21	.00	.90	.13	.15	1.4	1.3	2.0	.20	.05	3.6	.04	4.2
22	.00	.44	.15	.22	1.2	1.2	1.4	.20	.05	2.7	.04	1.1
23	.00	.30	.15	.70	.99	.87	1.2	.21	.07	12	.03	.69
24	.00	.18	.14	.32	.83	.75	1.1	.17	.05	3.9	.03	.52
25	.00	.11	.12	.25	.76	.72	.98	.18	.04	19	.03	.43
26	.95	.10	.12	.16	.75	.71	.83	.18	.03	19	.04	2.0
27	.24	.09	.10	.16	.63	.61	.74	.15	.03	5.3	.05	4.4
28	.04	.22	.13	.14	.62	.53	.70	.14	.03	1.8	.04	1.5
29	.02	.27	.12	.15	.44	.56	.71	.16	.03	1.3	.03	1.0
30	.12	.56	.08	.18	---	.61	.63	.19	.03	14	.02	.84
31	.14	---	.08	.19	---	.59	---	.15	---	4.0	.02	---
TOTAL	1.51	5.86	8.89	7.73	23.77	28.41	29.14	8.78	2.28	198.06	8.73	24.47
MEAN	.049	.20	.29	.25	.82	.92	.97	.28	.076	6.39	.28	.82
MAX	.95	2.1	1.1	.71	5.1	3.8	5.3	.62	.14	65	1.7	4.4
MIN	.00	.02	.08	.09	.12	.32	.37	.14	.03	.02	.02	.02
CFSM	.03	.12	.18	.16	.52	.58	.61	.18	.05	4.04	.18	.52
IN.	.04	.14	.21	.18	.56	.67	.69	.21	.05	4.66	.21	.58

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1992, BY WATER YEAR (WY)

	1990	1991	1992	1990	1991	1992	1990	1991	1992	1990	1991	1992
MEAN	.96	.42	3.25	.82	.77	2.03	.89	.61	.21	3.24	.14	.41
MAX	1.87	.65	6.22	1.40	.82	3.14	.97	.93	.34	6.39	.28	.82
(WY)	1991	1991	1991	1991	1992	1991	1992	1991	1991	1992	1992	1992
MIN	.049	.20	.29	.25	.72	.92	.80	.28	.076	.085	.004	.000
(WY)	1992	1992	1992	1992	1991	1992	1991	1992	1992	1991	1991	1991

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1990 - 1992	
ANNUAL TOTAL	243.05		347.63			
ANNUAL MEAN	.67		.95		1.16	
HIGHEST ANNUAL MEAN					1.36	
LOWEST ANNUAL MEAN					.95	
HIGHEST DAILY MEAN	19	Mar 14	65	Jul 14	128	Dec 29 1990
LOWEST DAILY MEAN	.00	Aug 3	.00	Oct 1	.00	Aug 3 1991
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 14	.00	Oct 1	.00	Aug 14 1991
INSTANTANEOUS PEAK FLOW			364		374	
INSTANTANEOUS PEAK STAGE			6.17		6.17	
ANNUAL RUNOFF (CFSM)	.42		.60		.73	
ANNUAL RUNOFF (INCHES)	5.72		8.18		9.94	
10 PERCENT EXCEEDS	1.3		1.6		1.6	
50 PERCENT EXCEEDS	.27		.21		.35	
90 PERCENT EXCEEDS	.00		.02		.00	

03335678 INDIAN CREEK NEAR MONTMORENCI, IN

LOCATION.--Lat 40°25'53", long 87°02'16", in SE¹/₄/SE¹/₄ sec.13, T.23 N., R.6 W., Tippecanoe County, Hydrologic Unit 05120108, on right bank 1.8 mile upstream from mouth, 1.4 mile downstream from Goose Creek and 3.0 miles southwest on Montmorenci.

DRAINAGE AREA.--27.8 mi².

PERIOD OF RECORD.--October 1990 to current year.

GAGE.--Water-stage recorder. Datum of gage is 530.05 ft above sea level.

REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.42	2.3	11	2.3	8.1	8.4	13	11	2.8	.22	44	1.3
2	.48	2.0	8.2	3.2	8.9	8.1	12	10	2.5	.37	28	1.3
3	.87	1.6	23	4.5	9.6	7.3	12	9.3	2.3	2.1	22	1.4
4	.96	1.4	24	4.5	11	6.8	17	8.8	2.9	1.6	15	1.2
5	1.6	1.4	e15	4.0	9.8	6.7	14	e9.0	2.9	.82	12	.99
6	.51	1.4	6.8	4.0	10	6.9	13	8.0	2.3	.50	9.6	.85
7	.37	1.4	5.4	3.6	8.2	7.1	12	7.5	2.7	1.1	8.5	.63
8	.44	1.4	4.5	5.7	6.7	6.4	11	7.7	2.0	1.6	7.7	1.7
9	.46	1.5	3.6	15	10	6.4	10	7.8	e1.9	1.0	6.3	2.8
10	.48	1.4	2.9	11	13	51	12	6.6	e1.7	.99	5.4	82
11	.62	1.4	2.7	8.0	5.2	45	24	6.2	1.6	1.1	4.7	17
12	e.71	1.4	4.8	7.2	7.0	34	16	6.8	1.5	18	3.8	8.8
13	e.72	1.4	14	7.0	5.3	28	13	6.5	1.4	91	3.7	5.9
14	.76	1.4	12	8.4	5.5	25	13	5.5	1.4	150	3.3	4.2
15	.65	1.5	7.0	23	48	22	12	5.5	1.4	344	2.9	2.9
16	.63	1.5	15	18	46	20	25	5.0	1.2	73	2.6	2.2
17	.70	1.4	5.5	e15	31	21	64	5.7	1.1	43	2.5	1.9
18	.64	1.7	8.6	e11	151	45	177	5.4	1.8	25	2.4	1.8
19	1.0	1.7	11	e8.6	67	106	99	4.6	1.3	15	2.2	1.7
20	.87	44	4.2	e6.7	44	45	77	4.3	1.4	27	1.9	1.7
21	.82	24	3.9	e9.8	31	30	51	3.8	1.4	25	1.8	109
22	.72	9.4	3.4	e14	24	28	34	e3.5	1.2	14	1.7	50
23	.66	5.5	4.4	e25	19	21	27	4.0	1.3	45	1.6	20
24	.73	3.8	4.0	54	16	17	25	4.3	1.2	33	1.5	12
25	3.3	3.7	3.6	45	15	16	22	3.7	1.0	120	1.4	8.9
26	5.4	5.8	3.1	38	13	17	18	3.7	.87	158	1.5	31
27	8.1	2.3	2.9	25	12	17	16	3.6	.74	136	6.5	109
28	1.7	3.5	2.8	6.7	11	14	14	3.3	.65	49	6.3	40
29	1.5	5.0	2.9	5.8	9.3	14	14	3.1	.61	35	3.0	22
30	2.4	18	2.8	6.5	---	15	e13	3.9	.39	113	1.9	16
31	3.5	---	2.5	8.5	---	14	---	3.7	---	95	1.6	---
TOTAL	42.72	154.2	225.5	409.0	655.6	709.1	880	181.8	47.46	1620.40	217.3	560.17
MEAN	1.38	5.14	7.27	13.2	22.6	22.9	29.3	5.86	1.58	52.3	7.01	18.7
MAX	8.1	44	24	54	151	106	177	11	2.9	344	44	109
MIN	.37	1.4	2.5	2.3	5.2	6.4	10	3.1	.39	.22	1.4	.63
CFSM	.05	.18	.26	.47	.81	.82	1.06	.21	.06	1.88	.25	.67
IN.	.06	.21	.30	.55	.88	.95	1.18	.24	.06	2.17	.29	.75

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1992, BY WATER YEAR (WY)

	1990	1991	1992	1990	1991	1992	1990	1991	1992	1990	1991	1992
MEAN	12.0	9.16	44.5	21.5	20.7	41.3	25.8	11.5	3.41	27.2	4.16	9.45
MAX	22.6	13.2	81.7	29.7	22.6	59.7	29.3	17.0	5.24	52.3	7.01	18.7
(WY)	1991	1991	1991	1991	1992	1991	1992	1991	1991	1992	1992	1992
MIN	1.38	5.14	7.27	13.2	18.8	22.9	22.4	5.86	1.58	2.16	1.32	.23
(WY)	1992	1992	1992	1992	1991	1992	1991	1992	1992	1991	1991	1991

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1990 - 1992	
ANNUAL TOTAL	5194.56		5703.25		19.3	
ANNUAL MEAN	14.2		15.6		23.0	
HIGHEST ANNUAL MEAN					15.6	
LOWEST ANNUAL MEAN					997	
HIGHEST DAILY MEAN	282	Mar 13	344	Jul 15	Dec 29 1990	1991
LOWEST DAILY MEAN	.08	Sep 8	.22	Jul 1	Sep 8 1991	1992
ANNUAL SEVEN-DAY MINIMUM	.11	Sep 5	.51	Oct 6	Sep 5 1991	1992
INSTANTANEOUS PEAK FLOW			895	Jul 14	Dec 29 1990	1992
INSTANTANEOUS PEAK STAGE			5.90	Jul 14	Dec 29 1990	1992
ANNUAL RUNOFF (CFSM)	.51		.56		7.60	
ANNUAL RUNOFF (INCHES)	6.95		7.63		.69	
10 PERCENT EXCEEDS	28		39		9.43	
50 PERCENT EXCEEDS	5.4		6.0		41	
90 PERCENT EXCEEDS	.36		1.0		8.1	
					.67	

WABASH RIVER BASIN

03335679 LITTLE PINK CREEK AT GREEN HILL, IN

LOCATION.--Lat 40°24'34", long 87°06'53", in NE¹/₄, SE¹/₄, sec.29, T.23 N., R.6 W., Warren County, Hydrologic Unit 05120108, on right bank at southwest edge of Green Hill, 1.2 mile downstream from Armstrong Creek and at mile 6.1.

DRAINAGE AREA.--42.3 mi².

PERIOD OF RECORD.--October 1990 to current year.

GAGE.--Water-stage recorder. Datum of gage is 599.90 ft above sea level.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e1.3	23	32	5.0	32	17	24	22	5.0	4.8	186	e9.8
2	e1.0	15	25	6.2	23	16	21	21	4.8	5.6	108	e8.0
3	e1.8	5.2	43	9.3	17	17	20	18	5.1	12	79	e7.3
4	e2.4	3.6	35	11	14	15	28	17	5.7	11	61	e6.6
5	e5.0	2.5	32	9.6	12	15	35	16	6.1	9.1	49	e6.4
6	e3.3	2.3	21	7.5	9.0	16	28	14	5.7	5.4	41	e6.3
7	e2.5	2.2	18	6.3	7.0	15	25	12	6.2	6.0	36	e6.2
8	e1.8	1.5	16	9.9	5.7	12	21	12	5.7	8.3	31	20
9	e1.6	1.9	13	28	4.9	11	19	13	5.2	10	25	35
10	e1.5	1.1	11	23	2.7	49	20	11	e4.8	12	22	100
11	e1.5	1.0	10	19	2.3	57	30	10	e4.6	13	18	81
12	e1.5	.99	12	16	1.5	46	27	12	e4.3	33	15	44
13	e.90	.94	40	14	2.1	41	21	11	e4.0	83	13	23
14	1.6	.81	33	16	2.3	40	21	8.6	e3.7	144	e10	14
15	1.6	1.2	24	e15	30	37	20	8.0	e3.5	465	e9.0	9.1
16	1.2	1.2	20	e12	42	36	30	7.1	e3.2	312	e7.0	8.8
17	1.2	.85	17	e11	29	38	67	8.4	e3.0	188	e6.1	17
18	1.2	1.5	13	e9.5	153	43	162	7.4	e5.0	118	e5.2	25
19	2.1	2.8	12	e8.6	138	125	167	6.0	e4.3	77	e4.3	29
20	2.2	59	10	e7.8	88	84	120	5.7	e4.1	81	e3.6	23
21	2.3	67	11	e9.6	64	60	91	5.4	e4.0	102	e2.9	108
22	2.2	42	10	12	51	53	65	5.1	e3.5	63	e2.5	99
23	2.4	31	11	23	43	43	52	6.0	e3.3	66	e2.1	61
24	2.5	26	11	28	36	36	48	5.9	e3.2	91	e1.9	34
25	6.3	21	9.6	20	32	33	43	4.9	e2.8	133	e1.8	19
26	24	19	8.2	14	e29	33	38	4.9	e2.5	282	e7.0	38
27	50	19	7.8	11	26	32	34	4.7	e2.0	312	e25	155
28	20	23	7.1	8.1	24	26	30	4.6	e1.6	201	e30	118
29	e6.0	30	7.7	6.7	20	26	28	4.4	e2.2	124	e23	73
30	e11	33	e6.9	7.1	---	27	26	5.7	e3.2	192	e16	38
31	31	---	e6.0	13	---	25	---	5.6	---	283	e13	---
TOTAL	194.90	439.59	533.3	397.2	940.5	1124	1361	297.4	122.3	3447.2	854.4	1222.5
MEAN	6.29	14.7	17.2	12.8	32.4	36.3	45.4	9.59	4.08	111	27.6	40.7
MAX	50	67	43	28	153	125	167	22	6.2	465	186	155
MIN	.90	.81	6.0	5.0	1.5	11	1.9	4.4	1.6	4.8	1.8	6.2
CFSM	.15	.35	.41	.30	.77	.86	1.07	.23	.10	2.63	.65	.96
IN.	.17	.39	.47	.35	.83	.99	1.20	.26	.11	3.03	.75	1.08

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1992, BY WATER YEAR (WY)

	1990	1991	1992	1990	1991	1992	1990	1991	1992	1990	1991	1992
MEAN	33.9	23.3	75.2	49.1	35.2	66.6	43.6	29.2	12.4	57.6	15.5	20.9
MAX	61.5	31.9	133	85.3	38.0	96.9	45.4	48.9	20.6	111	27.6	40.7
(WY)	1991	1991	1991	1991	1991	1991	1992	1991	1991	1992	1992	1992
MIN	6.29	14.7	17.2	12.8	32.4	36.3	41.8	9.59	4.08	3.93	3.46	1.06
(WY)	1992	1992	1992	1992	1992	1992	1991	1992	1992	1991	1991	1991

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1990 - 1992

ANNUAL TOTAL	11528.74	10934.29	
ANNUAL MEAN	31.6	29.9	38.7
HIGHEST ANNUAL MEAN			47.5
LOWEST ANNUAL MEAN			29.9
HIGHEST DAILY MEAN	272	465	1250
LOWEST DAILY MEAN	.55	.81	.55
ANNUAL SEVEN-DAY MINIMUM	.68	1.0	.68
INSTANTANEOUS PEAK FLOW		600	1490
INSTANTANEOUS PEAK STAGE		7.65	10.03
ANNUAL RUNOFF (CFSM)	.75	.71	.91
ANNUAL RUNOFF (INCHES)	10.14	9.62	12.43
10 PERCENT EXCEEDS	75	69	93
50 PERCENT EXCEEDS	19	13	20
90 PERCENT EXCEEDS	1.2	2.2	2.1

WABASH RIVER BASIN

03335690 MUD PINE CREEK NEAR OXFORD, IN

LOCATION.--Lat 40°31'24", long 87°20'30", in NE¹/₄SE¹/₄ 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 718.00 ft above sea level.

REMARKS.--Records good except for July 12 to Aug. 6 and Sept. 10, 11, which are poor, and for estimated daily discharges, which are fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.42	127	68	18	18	30	31	25	8.0	7.7	140	4.9
2	.37	87	63	22	21	28	28	24	8.1	8.2	107	4.9
3	.66	49	146	32	30	26	29	21	8.1	17	88	4.9
4	5.2	32	80	31	41	26	41	21	8.8	8.6	70	3.9
5	6.3	26	57	29	34	26	36	20	17	7.8	55	3.7
6	2.6	21	45	27	31	30	34	17	11	6.8	44	4.0
7	1.4	16	45	24	27	47	33	17	340	7.6	37	3.6
8	1.2	12	49	29	e19	47	30	18	131	10	34	19
9	.91	12	42	39	e17	45	30	18	74	7.0	28	14
10	.86	12	37	34	e16	87	31	15	51	7.1	23	131
11	.80	11	34	30	e15	78	43	15	38	9.0	19	56
12	.76	10	57	29	e14	65	36	16	31	113	16	32
13	.75	11	105	29	17	60	33	14	36	202	14	22
14	.84	11	70	e26	15	59	33	13	34	243	12	17
15	.86	12	50	e24	43	54	31	13	24	578	9.6	12
16	.91	16	40	e23	50	56	31	12	21	230	8.3	10
17	.72	17	37	e21	44	58	28	14	21	191	7.2	9.1
18	.69	34	27	e20	214	67	87	12	40	124	6.7	8.8
19	.96	44	23	e19	136	165	121	12	22	80	6.2	7.0
20	1.1	424	25	e20	96	100	84	12	19	100	5.4	7.1
21	.83	265	26	e21	72	70	66	11	15	85	4.9	28
22	.77	145	26	22	61	65	48	11	14	56	4.4	29
23	.80	101	29	47	53	52	41	12	15	202	4.2	17
24	.80	70	27	e33	47	45	47	11	13	149	4.1	14
25	2.2	47	24	e23	44	43	44	11	12	310	3.7	12
26	38	39	23	e17	42	41	37	10	11	413	9.1	14
27	120	39	20	e17	39	38	32	9.8	9.2	414	40	36
28	34	67	22	17	37	34	30	9.0	9.0	152	22	27
29	34	82	22	17	29	35	30	8.8	8.9	188	11	21
30	316	91	19	19	---	34	27	10	8.2	256	7.2	17
31	230	---	17	19	---	33	---	8.7	---	225	5.6	---
TOTAL	805.71	1930	1355	778	1322	1644	1252	441.3	1058.3	4407.8	846.6	589.9
MEAN	26.0	64.3	43.7	25.1	45.6	53.0	41.7	14.2	35.3	142	27.3	19.7
MAX	316	424	146	47	214	165	121	25	340	578	140	131
MIN	.37	10	17	17	14	26	27	8.7	8.0	6.8	3.7	3.6
CFSM	.66	1.63	1.11	.64	1.16	1.35	1.06	.36	.90	3.61	.69	.50
IN.	.76	1.82	1.28	.73	1.25	1.55	1.18	.42	1.00	4.16	.80	.56

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1992, BY WATER YEAR (WY)

	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
MEAN	13.9	27.1	50.1	34.4	62.9	75.3	60.9	57.2	45.4	19.5	17.2	14.9
MAX	91.2	169	154	123	158	237	147	159	145	142	122	94.4
(WY)	1978	1986	1991	1974	1990	1979	1979	1981	1980	1992	1981	1977
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 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1972 - 1992
ANNUAL TOTAL	14640.06	16430.61	
ANNUAL MEAN	40.1	44.9	39.8
HIGHEST ANNUAL MEAN			59.2
LOWEST ANNUAL MEAN			16.2
HIGHEST DAILY MEAN	447	578	2100
LOWEST DAILY MEAN	.32	.37	.10
ANNUAL SEVEN-DAY MINIMUM	.45	.79	.24
INSTANTANEOUS PEAK FLOW		809	5710
INSTANTANEOUS PEAK STAGE		8.81	13.22
ANNUAL RUNOFF (CFSM)	1.02	1.14	1.01
ANNUAL RUNOFF (INCHES)	13.82	15.51	13.71
10 PERCENT EXCEEDS	91	100	92
50 PERCENT EXCEEDS	25	26	15
90 PERCENT EXCEEDS	.86	5.3	.95

03339280 PRAIRIE CREEK NEAR LEBANON, IN

LOCATION.--Lat 40°06'16", long 86°31'32", in NW¹/₄SW¹/₄, 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 Dear 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 1991 TO SEPTEMBER 1992
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	4.6	9.6	6.4	26	14	26	22	8.4	6.7	38	5.2
2	1.6	5.9	10	8.5	21	14	24	21	8.0	7.2	26	5.4
3	2.1	3.4	19	10	21	14	24	19	7.5	14	21	5.5
4	1.6	3.2	16	8.8	22	13	40	17	9.1	6.5	17	5.1
5	13	3.0	10	9.6	19	15	37	16	48	17	14	5.0
6	2.3	3.0	8.3	8.1	18	16	31	15	15	14	12	5.1
7	.86	3.1	7.3	7.8	17	16	29	13	13	14	12	8.7
8	.90	3.1	6.0	7.8	14	15	25	14	9.9	13	11	13
9	.89	2.8	6.4	9.4	12	14	24	15	7.0	9.7	10	6.5
10	.71	2.9	5.6	7.9	11	35	23	13	8.6	18	9.3	25
11	1.2	3.0	5.3	7.4	11	27	28	13	8.0	19	8.6	10
12	.97	3.0	13	7.5	10	25	23	18	7.9	74	7.4	6.8
13	.98	3.3	17	7.9	11	23	19	15	7.7	32	7.0	5.9
14	2.9	2.9	13	16	11	23	20	12	7.6	18	6.6	5.6
15	2.8	3.8	10	e43	32	21	20	13	7.3	26	6.4	5.4
16	1.0	3.9	9.7	e30	32	20	125	12	6.9	27	6.0	5.1
17	.94	2.9	7.8	e23	24	24	357	11	11	102	5.9	5.0
18	.91	15	7.1	e18	81	39	631	11	148	58	6.4	5.0
19	4.4	8.4	6.3	e15	62	86	324	11	37	30	5.8	4.8
20	1.9	48	6.1	e13	43	47	323	11	22	20	5.4	4.6
21	1.0	36	8.9	e12	36	38	173	10	16	28	5.2	663
22	.86	15	7.2	23	31	33	110	11	13	19	5.0	416
23	.82	9.0	15	51	28	26	77	11	13	67	4.9	168
24	1.0	7.1	13	33	24	23	62	11	11	235	16	96
25	5.1	6.1	11	25	22	24	48	10	10	104	11	59
26	61	5.3	9.0	17	21	26	38	9.6	9.2	101	6.4	51
27	24	6.4	8.3	16	20	28	32	8.6	8.1	74	31	121
28	6.7	11	8.7	17	19	23	28	8.3	7.5	45	16	74
29	4.6	7.1	8.7	16	16	23	26	8.9	7.0	30	8.9	45
30	3.7	15	7.5	19	---	25	24	12	7.3	67	7.1	34
31	3.9	---	6.7	32	---	23	---	9.4	---	60	5.7	---
TOTAL	156.34	247.2	297.5	526.1	715	793	2771	401.8	500.0	1356.1	353.0	1869.7
MEAN	5.04	8.24	9.60	17.0	24.7	25.6	92.4	13.0	16.7	43.7	11.4	62.3
MAX	61	48	19	51	81	86	631	22	148	235	38	663
MIN	.71	2.8	5.3	6.4	10	13	19	8.3	6.9	6.5	4.9	4.6
CFSM	.15	.25	.29	.51	.74	.77	2.78	.39	.50	1.32	.34	1.88
IN.	.18	.28	.33	.59	.80	.89	3.10	.45	.56	1.52	.40	2.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1992, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992
MEAN	9.85	15.3	40.9	26.9	54.8
MAX	24.7	29.7	158	48.9	139
(WY)	1991	1990	1991	1991	1990
MIN	3.52	6.68	6.03	11.0	8.62
(WY)	1989	1988	1989	1989	1992

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1988 - 1992
ANNUAL TOTAL	9907.04	9986.74	
ANNUAL MEAN	27.1	27.3	36.4
HIGHEST ANNUAL MEAN			48.1
LOWEST ANNUAL MEAN			19.3
HIGHEST DAILY MEAN	671	663	e1900
LOWEST DAILY MEAN	.71	.71	.71
ANNUAL SEVEN-DAY MINIMUM	.93	.93	.93
INSTANTANEOUS PEAK FLOW		1030	2710
INSTANTANEOUS PEAK STAGE		9.68	13.99
ANNUAL RUNOFF (CFSM)	.82	.82	1.10
ANNUAL RUNOFF (INCHES)	11.10	11.19	14.88
10 PERCENT EXCEEDS	69	47	74
50 PERCENT EXCEEDS	10	13	12
90 PERCENT EXCEEDS	1.8	3.8	2.8

e Estimated

WABASH RIVER BASIN

03341300 BIG RACCOON CREEK AT COXVILLE, IN

LOCATION.--Lat 39°39'09", long 87°17'37", in SW¹/₄SW¹/₄ 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 mi².

PERIOD OF RECORD.--October 1956 to September 1988 (discharge). October 1988 to current year (gage height only). 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.--Flow regulated by Cecil M. Harden Lake.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 108,000 ft³/s June 28, 1957, gage height, 21.23 ft, from rating curve extended above 35,000 ft³/s on basis of an estimate made by slope-area study; minimum daily, 6.5 ft³/s Oct. 10, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 12.56 ft Apr. 18, minimum gage height, 3.30 ft Oct. 1, 2.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.30	5.41	6.46	4.09	4.52	4.09	4.81	7.62	4.00	3.44	6.46	4.16
2	3.33	5.39	5.56	4.23	4.48	4.06	4.70	5.60	3.98	3.82	5.60	4.18
3	3.32	5.38	4.70	4.35	4.46	4.02	4.66	5.17	3.97	4.34	5.33	3.90
4	3.34	5.38	4.41	4.33	4.43	3.99	4.68	5.02	3.96	3.87	5.15	3.76
5	3.49	5.38	4.34	4.28	4.40	3.97	4.57	4.91	3.95	3.78	6.40	3.70
6	3.42	5.38	4.21	4.25	4.38	3.97	4.52	4.83	3.93	3.67	6.52	3.66
7	3.40	5.36	4.16	4.22	4.17	4.02	4.49	4.76	4.13	5.95	6.54	3.64
8	3.39	5.35	4.09	4.28	4.11	3.95	4.46	4.71	3.96	4.54	6.57	3.78
9	3.38	5.36	4.09	4.27	4.09	3.93	4.68	4.67	3.91	4.58	6.51	3.74
10	3.38	5.35	4.05	4.18	4.04	5.24	5.08	4.61	3.89	4.55	6.51	4.09
11	3.37	5.33	4.01	4.15	4.02	4.68	4.98	4.58	3.87	4.51	6.45	4.27
12	3.37	5.32	4.15	4.15	4.00	4.59	4.91	4.69	3.81	4.14	6.40	4.35
13	3.46	5.29	4.29	4.20	4.00	4.48	4.70	4.63	3.70	4.09	5.59	4.19
14	3.40	5.26	4.23	4.35	3.97	4.43	4.66	4.56	3.67	4.30	4.57	4.06
15	3.38	5.36	4.25	4.24	4.94	4.34	4.77	4.55	3.62	4.09	4.38	4.29
16	3.40	5.36	4.22	5.27	4.43	4.26	6.92	4.38	3.60	4.08	4.14	4.13
17	3.39	5.34	4.18	4.96	4.39	4.24	9.49	4.24	3.57	4.99	4.04	3.95
18	3.39	5.43	4.12	4.76	5.55	6.08	12.26	4.17	3.56	4.37	3.97	3.89
19	4.10	5.70	4.17	4.75	5.30	5.71	9.33	4.12	3.54	4.21	3.88	3.88
20	3.52	6.77	4.11	4.51	4.97	5.24	8.50	4.09	3.54	4.16	3.82	3.87
21	3.59	6.14	4.18	4.22	4.78	4.99	7.36	4.05	3.53	4.13	3.78	8.35
22	3.58	5.84	4.14	4.27	4.75	4.92	6.60	4.05	3.52	4.47	3.75	6.63
23	3.58	5.67	4.65	4.83	4.63	4.73	6.26	4.14	3.53	4.66	3.71	5.67
24	3.58	5.57	4.50	4.70	4.49	4.61	6.00	4.30	3.54	6.04	3.72	7.08
25	4.72	5.82	4.41	4.80	4.41	4.73	5.72	4.14	3.51	5.62	3.67	7.35
26	5.81	6.41	4.32	5.11	4.32	4.78	5.57	4.07	3.49	6.33	3.75	7.16
27	5.00	6.51	4.26	5.21	4.26	4.74	6.53	4.05	3.46	5.60	4.32	8.03
28	4.92	6.51	4.23	4.89	4.21	4.60	7.58	4.05	3.47	5.28	3.96	8.53
29	4.93	6.49	4.20	4.71	4.15	4.65	7.69	4.06	3.46	5.43	3.80	8.55
30	5.39	6.52	4.15	4.62	---	4.92	7.65	4.09	3.45	11.77	3.71	8.50
31	5.40	---	4.12	4.58	---	4.78	---	4.04	---	7.56	3.64	---
MEAN	3.84	5.68	4.35	4.51	4.44	4.57	6.14	4.55	3.70	4.92	4.86	5.18
MAX	5.81	6.77	6.46	5.27	5.55	6.08	12.26	7.62	4.13	11.77	6.57	8.55
MIN	3.30	5.26	4.01	4.09	3.97	3.93	4.46	4.04	3.45	3.44	3.64	3.64

WTR YR 1992 MEAN 4.72 MAX 12.26 MIN 3.30

03341315 BIG RACCOON CREEK NEAR MECCA, IN

LOCATION.--Lat 39°42'33", long 87°19'23", in NW¹/₄, NE¹/₄, sec.32, T.15N., R.8W., Parke County, Hydrologic Unit 05120108, on left bank at downstream side of bridge on U.S. Highway 41, 1.2 mi southeast of Mecca, 4.8 mi downstream from Rock Run, 6.5 mi south of Rockville, and at river mile 7.4.

DRAINAGE AREA.--473 mi².

PERIOD OF RECORD.--October 1988 to current year.

GAGE.--Water-stage recorder. Datum of gage is 475.00 ft above sea level.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by Cecil M. Harden Lake. Periods of high flow occasionally are in backwater.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	325	578	134	184	140	242	1030	121	61	867	97
2	39	319	563	136	175	133	235	941	117	62	521	151
3	42	315	270	160	171	127	224	352	113	224	415	138
4	42	314	190	168	167	122	225	291	112	134	318	114
5	48	314	160	161	165	119	219	269	112	96	373	96
6	52	314	150	156	162	117	206	253	111	90	593	90
7	49	314	139	150	146	124	201	238	121	134	616	87
8	47	309	131	148	132	122	197	229	126	286	636	87
9	47	307	126	153	122	115	199	222	112	189	627	98
10	48	309	125	147	120	213	298	215	107	200	615	128
11	47	308	121	139	118	262	273	206	105	183	614	149
12	45	306	121	136	115	217	280	204	103	179	593	173
13	78	305	143	137	115	203	237	218	92	117	576	178
14	54	296	151	152	112	193	219	202	84	142	274	149
15	48	305	150	e145	151	185	222	196	81	137	197	158
16	46	312	147	e160	210	174	807	193	77	123	161	172
17	47	309	145	e180	165	167	2220	163	75	184	138	139
18	47	318	141	e170	290	196	2470	149	73	210	126	122
19	49	334	131	e160	359	562	2410	141	71	155	116	114
20	93	720	136	e154	288	366	1690	135	70	140	105	113
21	68	632	139	e146	243	289	1240	130	70	136	98	1220
22	70	466	141	e140	223	260	839	125	69	131	93	1030
23	69	404	166	e175	214	241	622	125	69	179	90	566
24	69	367	201	225	199	220	544	180	70	583	89	742
25	115	347	181	203	185	212	465	151	70	424	86	799
26	291	422	171	223	176	228	413	134	67	591	82	1020
27	348	575	161	277	167	236	399	126	65	501	138	786
28	252	590	154	253	157	221	671	125	64	355	153	1190
29	242	585	150	223	150	215	1010	125	63	301	110	1350
30	298	586	144	200	---	231	1040	125	62	986	95	1350
31	323	---	138	192	---	245	---	126	---	2170	87	---
TOTAL	3152	11627	5564	5303	5181	6455	20317	7319	2652	9403	9602	12606
MEAN	102	388	179	171	179	208	677	236	88.4	303	310	420
MAX	348	720	578	277	359	562	2470	1030	126	2170	867	1350
MIN	39	296	121	134	112	115	197	125	62	61	82	87
CFSM	.21	.82	.38	.36	.38	.44	1.43	.50	.19	.64	.65	.89
IN.	.25	.91	.44	.42	.41	.51	1.60	.58	.21	.74	.76	.99

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1992, BY WATER YEAR (WY)

	1989	1990	1991	1992	1989	1990	1991	1992
MEAN	371	519	527	523	692	643	618	598
MAX	887	733	1400	1234	1394	1314	690	988
(WY)	1990	1991	1991	1991	1991	1990	1989	1990
MIN	102	315	151	171	179	208	460	217
(WY)	1992	1989	1990	1992	1992	1992	1990	1991

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1989 - 1992	
ANNUAL TOTAL	156693		99181			
ANNUAL MEAN	429		271			
HIGHEST ANNUAL MEAN					515	1990
LOWEST ANNUAL MEAN					271	1992
HIGHEST DAILY MEAN	2500	Jan 1	2470	Apr 18	6280	May 26 1989
LOWEST DAILY MEAN	39	Sep 20	39	Oct 1	30	Oct 1 1988
ANNUAL SEVEN-DAY MINIMUM	40	Sep 15	44	Oct 1	35	Oct 9 1988
INSTANTANEOUS PEAK FLOW			3430	Apr 18	8700	May 26 1989
INSTANTANEOUS PEAK STAGE			15.27	Apr 18	21.32	Dec 30 1990
ANNUAL RUNOFF (CFSM)	.91		.57		1.09	
ANNUAL RUNOFF (INCHES)	12.32		7.80		14.80	
10 PERCENT EXCEEDS	1200		587		1210	
50 PERCENT EXCEEDS	174		167		293	
90 PERCENT EXCEEDS	45		72		74	

WARASH RIVER BASIN

03342100 BUSSEYON CREEK NEAR HYMERA, IN

LOCATION.--Lat 39°12'54", long 87°18'41", in NW¹/₄/NW¹/₄, 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 good except for 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.09	2.9	5.0	2.3	2.4	2.0	36	7.7	1.1	.28	20	e1.6
2	.09	2.0	15	7.8	2.1	2.1	25	6.2	1.7	.32	13	e1.4
3	.07	1.4	23	26	2.0	1.9	19	5.0	3.7	.80	29	e1.9
4	.07	1.0	12	16	2.0	1.8	17	3.9	2.5	.59	14	e2.5
5	.27	.83	8.9	12	1.7	1.8	13	3.6	4.0	.38	e8.0	1.3
6	.25	.69	6.0	8.4	1.6	2.1	9.9	3.1	3.9	.33	e5.2	e20
7	.18	.59	4.8	6.1	1.6	2.9	7.7	2.6	15	2.3	7.0	e11
8	.15	.48	4.0	6.5	1.4	2.9	6.3	2.4	13	2.3	e9.0	e5.6
9	.12	.37	3.3	8.9	1.5	2.7	6.8	2.3	9.4	6.7	5.4	e25
10	.13	.32	2.7	8.4	1.5	9.6	6.4	1.9	6.2	4.3	4.4	e16
11	.13	.29	2.3	7.2	1.5	9.1	7.9	1.6	3.8	2.2	3.8	e9.2
12	.12	.28	8.2	5.3	1.4	7.6	5.9	3.7	2.5	6.9	3.1	e6.2
13	.13	.27	10	8.7	1.7	5.9	4.7	3.9	1.9	3.0	3.1	e4.3
14	.19	.24	6.0	37	1.8	5.1	4.1	3.5	1.5	16	2.7	e2.7
15	.15	.24	4.1	e17	5.8	4.2	155	6.3	1.3	73	2.4	2.0
16	.13	.27	3.2	e10	4.4	3.4	582	3.2	1.1	26	2.2	e1.8
17	.15	.24	2.9	e6.9	4.0	4.6	321	1.7	.81	26	e2.1	e1.7
18	.15	.75	2.7	e6.0	39	20	519	1.2	.65	16	e1.9	e2.4
19	.16	2.7	2.0	e5.4	24	27	123	1.1	.51	11	e1.8	e1.7
20	.16	110	1.7	4.9	16	16	110	1.0	.45	22	e2.8	e5.0
21	.16	46	3.0	4.6	12	12	70	.94	.40	26	1.3	e70
22	.17	25	2.8	5.1	9.0	9.5	46	.89	.34	17	e1.3	37
23	.18	16	25	9.7	7.1	7.2	35	.92	2.0	15	e1.2	24
24	.18	12	18	7.7	5.7	5.3	28	2.9	1.6	14	1.4	17
25	.24	8.8	11	5.6	4.5	5.7	23	2.7	.98	17	1.7	12
26	14	6.2	7.7	4.2	3.6	6.3	18	2.1	.60	38	e4.2	9.9
27	52	4.7	5.4	3.7	3.1	5.7	15	1.6	.42	47	e10	24
28	19	3.6	4.4	3.3	2.8	4.4	13	1.3	.30	17	2.8	10
29	10	2.9	3.8	3.1	2.3	4.7	11	1.2	.27	10	2.4	7.2
30	6.1	8.6	3.0	2.9	---	109	9.6	1.4	.27	60	2.0	5.4
31	3.9	---	2.5	2.8	---	56	---	1.2	---	42	1.7	---
TOTAL	108.82	259.66	214.4	263.5	167.5	358.5	2248.3	83.05	82.20	523.40	170.9	339.8
MEAN	3.51	8.66	6.92	8.50	5.78	11.6	74.9	2.68	2.74	16.9	5.51	11.3
MAX	52	110	25	37	39	109	582	7.7	15	73	29	70
MIN	.07	.24	1.7	2.3	1.4	1.8	4.1	.89	.27	.28	1.2	1.3
CFSM	.21	.52	.41	.51	.35	.69	4.49	.16	.16	1.01	.33	.68
IN.	.24	.58	.48	.59	.37	.80	5.01	.18	.18	1.17	.38	.76

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1992, BY WATER YEAR (WY)

	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	2.66	13.9	27.1	21.9	28.7	36.7	33.2	22.0	9.55	13.9	5.11	8.44														
MAX	14.7	72.6	96.8	105	67.4	112	74.9	86.2	41.1	79.3	25.4	60.9														
(WY)	1970	1986	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 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1967 - 1992	
ANNUAL TOTAL	5449.69		4820.03			
ANNUAL MEAN	14.9		13.2		18.5	
HIGHEST ANNUAL MEAN					36.1	
LOWEST ANNUAL MEAN					6.93	
HIGHEST DAILY MEAN	305	Mar 22	582	Apr 16	828	Jan 29 1969
LOWEST DAILY MEAN	.01	Sep 20	.07	Oct 3	.00	Oct 12 1966
ANNUAL SEVEN-DAY MINIMUM	.02	Sep 15	.14	Oct 7	.00	Oct 23 1966
INSTANTANEOUS PEAK FLOW			967	Apr 16	1890	Sep 12 1974
INSTANTANEOUS PEAK STAGE			18.56	Apr 16	19.16	Jul 8 1982
ANNUAL RUNOFF (CFSM)	.89		.79		1.11	
ANNUAL RUNOFF (INCHES)	12.14		10.74		15.08	
10 PERCENT EXCEEDS	37		24		47	
50 PERCENT EXCEEDS	3.2		3.9		3.4	
90 PERCENT EXCEEDS	.12		.31		.08	

WABASH RIVER BASIN

03342500 BUSSEYON CREEK NEAR CARLISLE, IN

LOCATION.--Lat 38°58'27", long 87°25'33", in NW¹/₄ 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	39	84	55	47	47	447	129	35	18	158	27
2	3.8	33	87	56	44	44	281	107	32	18	95	25
3	3.6	27	263	132	42	42	210	91	30	44	176	25
4	3.6	22	183	166	41	42	178	77	33	36	137	29
5	4.4	19	98	113	39	41	153	73	34	29	77	32
6	6.0	18	82	90	37	43	123	62	32	21	61	29
7	6.7	17	71	77	38	45	105	54	37	18	52	264
8	5.0	16	66	70	36	48	95	50	65	47	72	186
9	4.1	14	60	88	28	47	86	47	49	42	105	94
10	4.0	14	53	87	29	52	86	43	39	163	65	307
11	4.4	14	47	75	39	85	90	40	34	83	54	214
12	4.0	14	50	67	40	73	83	42	30	71	46	115
13	4.0	14	82	76	38	65	71	75	67	77	41	86
14	4.5	13	86	216	38	56	62	58	79	137	37	68
15	4.7	13	65	231	58	52	106	48	39	945	34	58
16	4.9	13	53	e120	98	47	548	44	36	475	32	50
17	5.4	13	48	e96.0	78	44	823	41	33	263	30	45
18	5.0	13	44	e83.0	198	55	1520	51	29	237	28	41
19	4.8	19	32	e75.0	288	269	1880	54	26	143	25	40
20	4.9	364	41	e69.0	190	222	2210	45	22	110	27	36
21	4.7	491	47	66	138	139	2280	39	20	428	26	67
22	5.0	272	53	68	110	114	1590	37	19	240	24	281
23	5.0	158	147	77	94	96	974	114	18	128	21	145
24	4.5	107	225	83	83	81	598	198	38	93	21	93
25	4.0	80	144	73	75	76	380	70	39	91	22	72
26	38	65	101	64	67	87	287	52	28	116	26	66
27	365	58	83	58	62	90	234	43	23	265	70	137
28	179	55	73	55	57	81	194	39	21	210	117	141
29	83	52	71	52	52	73	165	35	19	110	49	88
30	57	71	68	51	---	224	151	41	19	160	35	65
31	44	---	60	51	---	575	---	40	---	266	30	---
TOTAL	880.8	2118	2667	2740.0	2184	3055	16010	1939	1025	5084	1793	2926
MEAN	28.4	70.6	86.0	88.4	75.3	98.5	534	62.5	34.2	164	57.8	97.5
MAX	365	491	263	231	288	575	2280	198	79	945	176	307
MIN	3.6	13	32	51	28	41	62	35	18	18	21	25
CFSM	.12	.31	.38	.39	.33	.43	2.34	.27	.15	.72	.25	.43
IN.	.14	.35	.44	.45	.36	.50	2.61	.32	.17	.83	.29	.48

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1992, BY WATER YEAR (WY)

	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955
MEAN	44.3	151	268	307	375	465	430	305	171	113	53.0	70.7
MAX	263	1137	1421	2380	1317	1284	1102	1230	988	1101	633	701
(WY)	1950	1986	1983	1950	1950	1978	1945	1981	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 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1944 - 1992	
ANNUAL TOTAL	69637.4		42421.8		229	
ANNUAL MEAN	191		116		548	
HIGHEST ANNUAL MEAN					10.8	
LOWEST ANNUAL MEAN					1950	
HIGHEST DAILY MEAN	4250	Jan 1	2280	Apr 21	8500	Jan 5 1950
LOWEST DAILY MEAN	3.6	Oct 3	3.6	Oct 3	.00	Jul 12 1954
ANNUAL SEVEN-DAY MINIMUM	3.9	Sep 29	4.2	Oct 9	.00	Jul 12 1954
INSTANTANEOUS PEAK FLOW			2440		8800	Jan 5 1950
INSTANTANEOUS PEAK STAGE			13.56		20.30	May 9 1961
ANNUAL RUNOFF (CFSM)	.84		.51		1.00	
ANNUAL RUNOFF (INCHES)	11.36		6.92		13.63	
10 PERCENT EXCEEDS	566		223		639	
50 PERCENT EXCEEDS	56		57		52	
90 PERCENT EXCEEDS	5.5		17		5.0	

03348350 PIPE CREEK AT FRANKTON, IN

LOCATION.--Lat 40°13'38", long 85°45'58", in SE¹/₄, NE¹/₄, 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 fair.

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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	10	58	26	67	46	93	125	41	66	454	22
2	5.2	11	45	25	61	45	106	100	34	62	267	21
3	5.2	9.6	81	26	62	44	88	83	30	83	202	20
4	5.3	9.1	83	27	74	42	83	71	30	69	161	19
5	7.3	9.0	54	26	74	41	76	66	30	56	131	18
6	9.1	8.9	42	25	63	43	66	58	29	49	108	27
7	8.2	8.9	36	25	58	52	64	51	27	42	93	27
8	8.2	8.8	33	24	51	59	61	49	25	39	84	35
9	7.7	8.5	31	25	42	52	58	56	24	35	74	56
10	6.9	7.9	29	25	37	53	55	51	23	47	64	226
11	7.0	8.2	27	24	36	58	55	44	22	91	56	179
12	7.8	8.3	27	23	35	55	56	43	21	599	50	88
13	8.0	8.6	62	24	34	51	51	44	20	2650	44	49
14	8.1	8.6	82	78	35	48	49	39	20	3840	40	31
15	8.3	8.9	58	133	85	47	49	38	20	1630	37	22
16	8.2	9.0	44	●92	266	44	64	35	19	1190	33	17
17	7.8	8.8	38	●64	164	43	748	33	20	897	29	14
18	7.9	9.0	34	●52	152	49	1270	34	2510	747	27	13
19	9.2	11	●28	●45	163	225	1390	33	2640	492	39	12
20	9.5	33	26	●40	132	193	807	31	1140	325	30	11
21	8.8	220	27	●38	112	128	609	30	741	276	25	231
22	9.1	148	26	●37	91	104	401	28	439	237	22	533
23	8.8	81	32	78	81	87	273	28	266	306	21	253
24	8.9	53	57	150	70	70	214	30	216	327	20	156
25	13	38	51	87	63	64	170	28	171	240	20	105
26	31	30	39	63	59	74	140	27	141	201	20	78
27	41	27	34	51	56	84	118	26	114	174	30	98
28	26	30	31	46	53	79	101	25	95	144	70	97
29	16	52	30	43	50	75	90	24	83	131	54	67
30	12	56	30	43	---	82	108	30	74	376	32	48
31	11	---	27	58	---	86	---	47	---	882	25	---
TOTAL	335.6	940.1	1302	1523	2326	2223	7513	1407	9065	16303	2362	2573
MEAN	10.8	31.3	42.0	49.1	80.2	71.7	250	45.4	302	526	76.2	85.8
MAX	41	220	83	150	266	225	1390	125	2640	3840	454	533
MIN	5.1	7.9	26	23	34	41	49	24	19	35	20	11
CFSM	.10	.28	.37	.43	.71	.63	2.22	.40	2.67	4.65	.67	.76
IN.	.11	.31	.43	.50	.77	.73	2.47	.46	2.98	5.37	.78	.85

● Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1992, BY WATER YEAR (WY)

	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
MEAN	33.8	76.7	142	116	175	206	173	92.0	111	68.0	47.6	47.5													
MAX	176	416	482	409	416	544	467	224	409	526	234	529													
(WY)	1991	1973	1991	1974	1990	1982	1972	1989	1980	1992	1990	1989													
MIN	5.70	7.95	7.31	5.29	19.2	42.4	33.3	19.1	10.3	7.94	4.97	4.76													
(WY)	1989	1977	1977	1977	1978	1981	1971	1976	1988	1977	1988	1983													

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1969 - 1992	
ANNUAL TOTAL	37963.7		47872.7			
ANNUAL MEAN	104		131		107	
HIGHEST ANNUAL MEAN					180	
LOWEST ANNUAL MEAN					32.7	
HIGHEST DAILY MEAN	1160	Mar 18	3840	Jul 14	3840	Jul 14 1992
LOWEST DAILY MEAN	5.1	Sep 29	5.1	Oct 1	3.0	Oct 11 1988
ANNUAL SEVEN-DAY MINIMUM	5.2	Sep 28	6.5	Oct 1	3.2	Oct 9 1988
INSTANTANEOUS PEAK FLOW			5630	Jul 13	5630	Jul 13 1992
INSTANTANEOUS PEAK STAGE			15.00	Jul 13	15.00	Jul 13 1992
ANNUAL RUNOFF (CFSM)	.92		1.16		.95	
ANNUAL RUNOFF (INCHES)	12.50		15.76		12.86	
10 PERCENT EXCEEDS	281		225		253	
50 PERCENT EXCEEDS	45		46		40	
90 PERCENT EXCEEDS	7.3		9.1		9.3	

WABASH RIVER BASIN

03351000 WHITE RIVER NEAR NORA, IN

LOCATION.--Lat 39°54'35", long 86°06'20", in NW¹/₄, NW¹/₄, sec.20, T.17 N., R.4 E., Marion County, Hydrologic Unit 05120201, on downstream side of center pier of bridge on 82nd Street, 2 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 fair. Flow slightly 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	139	338	700	398	864	637	941	1300	606	760	8440	564
2	139	312	674	383	924	594	973	1290	543	709	5220	487
3	143	285	792	388	890	575	971	1160	491	806	2860	454
4	140	260	1070	402	925	549	989	1020	467	854	2050	497
5	208	245	1040	393	1030	530	950	935	469	1180	1550	555
6	192	231	764	378	1050	543	856	868	490	1220	1270	460
7	178	226	648	380	960	617	785	789	468	918	1070	762
8	166	222	577	379	868	669	760	751	438	833	977	760
9	157	215	529	386	763	637	754	773	424	727	900	613
10	161	209	490	383	670	680	712	823	399	686	804	916
11	152	204	449	375	611	769	700	744	361	617	722	1950
12	147	204	451	356	585	764	750	721	333	2300	654	1410
13	145	205	537	362	568	747	675	787	317	5050	605	914
14	142	206	665	567	561	703	619	722	307	7830	560	693
15	144	210	682	876	740	664	607	676	309	12400	527	578
16	147	206	605	e940	1260	607	791	635	418	10700	488	510
17	148	202	520	e800	1810	570	3990	595	389	8430	463	444
18	145	200	492	e700	1570	631	7480	602	5360	8080	436	416
19	143	232	435	e640	1660	1230	10700	609	12700	7710	420	400
20	144	583	397	e610	1780	1940	11100	555	16600	3820	427	372
21	143	1140	404	e600	1590	1700	7090	527	9850	3250	400	1040
22	149	1720	411	e620	1330	1380	5060	518	3850	2940	375	3690
23	147	1330	464	674	1150	1180	3690	772	2620	2600	358	3160
24	160	914	535	966	1040	1010	2850	817	2070	3770	345	2040
25	217	695	588	1470	943	906	2290	700	2110	5870	333	1400
26	780	554	586	1190	862	890	1930	600	1720	5060	362	1090
27	1140	481	524	943	790	938	1680	536	1340	2890	653	1110
28	1120	486	478	830	750	867	1470	479	1080	2280	1080	1160
29	731	494	456	761	720	839	1330	447	932	1820	1540	1010
30	486	648	437	717	---	889	1220	511	834	1790	1030	821
31	372	---	413	757	---	888	---	591	---	5940	719	---
TOTAL	8525	13457	17813	19624	29264	26143	74713	22853	68295	113840	37638	30276
MEAN	275	449	575	633	1009	843	2490	737	2276	3672	1214	1009
MAX	1140	1720	1070	1470	1810	1940	11100	1300	16600	12400	8440	3690
MIN	139	200	397	356	561	530	607	447	307	617	333	372
CFSM	.23	.37	.47	.52	.83	.69	2.04	.60	1.87	3.01	1.00	.83
IN.	.26	.41	.54	.60	.89	.80	2.28	.70	2.08	3.47	1.15	.92

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 1992, BY WATER YEAR (WY)

	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942
MEAN	360	633	1109	1568	1706	2099	2065	1367	1092	693	459	381	
MAX	1699	3651	4366	9015	4805	5113	5878	6815	6093	3672	2612	4397	
(WY)	1991	1973	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 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1930 - 1992	
ANNUAL TOTAL	485819		462441			
ANNUAL MEAN	1331		1263		1124	
HIGHEST ANNUAL MEAN					2052	
LOWEST ANNUAL MEAN					235	
HIGHEST DAILY MEAN	27800	Jan 1	16600	Jun 20	31500	May 19 1943
LOWEST DAILY MEAN	137	Sep 11	139	Oct 1	49	Sep 17 1941
ANNUAL SEVEN-DAY MINIMUM	143	Sep 28	145	Oct 14	53	Sep 17 1941
INSTANTANEOUS PEAK FLOW			17400	Jun 20	32400	May 19 1943
INSTANTANEOUS PEAK STAGE			14.69	Jun 20	19.19	Jan 1 1991
ANNUAL RUNOFF (CFSM)	1.09		1.04		.92	
ANNUAL RUNOFF (INCHES)	14.83		14.11		12.53	
10 PERCENT EXCEEDS	3300		2290		2540	
50 PERCENT EXCEEDS	675		697		509	
90 PERCENT EXCEEDS	162		225		159	

WABASH RIVER BASIN

03351060 WHITE RIVER AT BROAD RIPPLE

LOCATION.--Lat 39°52'17", long 86°08'16", IN SW¹/₄ 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.

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, 7.65 ft, June 20; minimum 2.60 ft, Oct. 1, 2.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.60	2.91	3.16	3.00	3.30	3.14	3.39	3.54	3.07	3.13	5.75	3.06
2	2.62	2.87	3.20	3.00	3.31	3.13	3.39	3.45	3.03	3.13	4.56	3.02
3	2.67	2.86	3.29	3.00	3.29	3.12	3.37	3.39	3.01	3.22	4.10	3.01
4	2.65	2.81	3.52	3.02	3.36	3.10	3.43	3.30	2.99	3.20	.81	3.03
5	2.79	2.79	3.32	2.99	3.41	3.08	3.33	3.27	3.00	3.76	3.64	3.06
6	2.76	2.79	3.19	2.99	3.37	3.10	3.28	3.22	3.01	3.35	3.50	2.98
7	2.74	2.79	3.12	2.99	3.33	3.17	3.23	3.17	2.99	3.27	3.41	3.35
8	2.70	2.79	3.09	2.99	3.27	3.18	3.22	3.17	2.95	3.18	3.37	3.18
9	2.71	2.78	3.07	3.00	3.20	3.13	3.20	3.21	2.95	3.13	3.30	3.14
10	2.66	2.78	3.02	3.00	3.13	3.26	3.13	3.21	2.90	3.10	3.23	3.46
11	2.70	2.77	3.00	2.97	3.13	3.24	3.17	3.15	2.87	3.11	3.17	3.87
12	2.69	2.74	3.05	2.96	3.10	3.26	3.17	3.21	2.82	4.75	3.13	3.47
13	2.71	2.76	3.10	3.00	3.08	3.22	3.10	3.20	2.82	5.18	3.10	3.28
14	2.65	2.78	3.22	3.22	3.11	3.21	3.09	3.14	2.82	6.31	3.07	3.13
15	2.67	2.79	3.17	3.43	3.35	3.16	3.08	3.12	2.83	6.86	3.04	3.07
16	2.67	2.79	3.09	3.26	3.68	3.11	3.51	3.07	2.96	6.23	3.00	3.03
17	2.67	2.76	3.08	3.23	3.77	3.12	5.19	3.05	3.00	5.68	2.97	2.98
18	2.68	2.77	3.05	3.23	3.73	3.33	5.99	3.09	6.15	5.87	2.96	2.99
19	2.67	2.92	3.00	3.17	3.81	3.74	6.52	3.04	7.21	5.11	2.96	2.95
20	2.68	3.37	3.00	3.17	3.84	3.94	6.08	3.01	7.38	4.43	2.95	2.93
21	2.68	3.65	3.01	3.19	3.70	3.70	5.10	3.00	5.00	4.33	2.91	4.09
22	2.66	3.75	3.00	3.18	3.56	3.57	4.76	3.04	4.32	4.26	2.89	4.60
23	2.72	3.46	3.07	3.26	3.48	3.45	4.34	3.25	3.96	4.16	2.88	4.14
24	2.73	3.27	3.11	3.55	3.39	3.35	4.09	3.19	3.81	4.94	2.86	3.72
25	2.95	3.13	3.15	3.62	3.35	3.33	3.91	3.14	3.82	5.43	2.87	3.49
26	3.36	3.04	3.13	3.40	3.27	3.32	3.76	3.08	3.60	4.48	2.92	3.37
27	3.47	2.99	3.07	3.31	3.25	3.35	3.64	3.03	3.43	4.16	3.37	3.44
28	3.32	3.02	3.06	3.22	3.22	3.29	3.54	2.99	3.32	3.88	3.51	3.43
29	3.11	3.02	3.05	3.19	3.20	3.29	3.48	3.00	3.22	3.72	.59	3.31
30	2.98	3.16	3.02	3.16	---	3.34	3.45	3.07	3.16	4.09	3.31	3.20
31	2.90	---	3.02	3.23	---	3.35	---	3.11	---	5.76	3.15	---
MEAN	2.79	2.97	3.11	3.16	3.38	3.29	3.86	3.16	3.61	4.36	3.14	3.33
MAX	3.47	3.75	3.52	3.62	3.84	3.94	6.52	3.54	7.38	6.86	5.75	4.60
MIN	2.60	2.74	3.00	2.96	3.08	3.08	3.08	2.99	2.82	3.10	.59	2.93

WTR YR 1992 MEAN 3.35 MAX 7.38 MIN .59

WABASH RIVER BASIN

03351310 CROOKED CREEK AT INDIANAPOLIS, IN

LOCATION.--Lat 39°49'47", long 86°12'22", in NW¹/₄SE¹/₄, 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 fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.80	2.0	5.3	.84	10	6.1	14	9.3	6.7	2.5	18	3.3
2	.95	1.2	11	.91	9.1	5.9	11	8.9	6.2	3.6	12	2.7
3	2.3	.00	24	.96	8.6	5.9	10	8.3	4.8	21	15	3.6
4	.87	.00	5.7	1.0	8.6	5.9	19	7.8	7.9	7.1	10	6.8
5	30	.00	1.4	1.0	8.4	5.9	14	7.5	6.8	275	8.8	3.1
6	.39	.00	1.2	1.0	7.9	8.8	11	7.3	5.5	79	7.6	8.4
7	.00	.00	1.0	1.1	7.9	10	10	7.8	4.6	35	6.8	4.1
8	.00	.00	.96	1.2	7.3	9.1	9.6	7.1	4.5	32	6.5	21
9	.00	.00	.85	1.7	6.1	7.3	23	9.2	3.9	21	6.5	8.7
10	.28	.00	.72	2.0	5.8	19	15	8.2	4.7	21	5.9	44
11	.02	.00	.70	1.5	5.8	16	16	6.8	4.7	14	5.4	12
12	.00	.00	8.2	1.4	5.5	13	31	27	4.3	40	4.7	5.8
13	.00	.00	14	1.9	5.7	10	14	20	3.4	17	4.2	3.9
14	.00	.00	3.6	50	5.9	9.2	11	9.1	2.7	12	3.8	3.1
15	.00	.00	1.9	e11	49	8.7	10	10	8.7	48	3.5	2.7
16	.00	.00	1.1	e4.0	27	7.8	56	7.9	5.5	33	3.5	2.2
17	.00	.00	.83	e2.2	14	7.9	540	7.2	3.1	118	3.5	1.8
18	.00	.22	.77	e1.5	50	38	186	8.0	78	37	3.2	1.8
19	.00	7.0	.46	e1.1	27	53	72	7.5	10	18	3.1	4.3
20	.00	227	.42	e.98	19	17	58	6.3	7.1	50	2.8	2.2
21	.00	92	1.8	e.90	14	16	43	6.0	5.1	90	2.3	38
22	.00	12	1.4	4.6	12	13	27	5.4	4.3	32	2.1	35
23	.00	3.7	25	23	11	12	21	46	4.4	24	2.1	11
24	.00	1.5	8.5	19	9.5	10	18	42	7.3	69	2.1	5.6
25	30	.73	3.3	11	8.8	11	15	12	4.8	26	2.4	3.6
26	329	.38	2.4	10	8.2	14	13	8.5	7.3	44	8.5	5.4
27	115	.63	1.8	10	8.1	17	12	7.8	5.2	23	53	26
28	3.7	8.6	1.5	11	7.2	11	11	5.8	3.5	16	31	9.4
29	.73	2.5	1.5	10	6.8	9.9	10	6.1	3.0	12	9.4	5.2
30	.16	27	1.2	10	---	12	9.9	14	2.7	18	6.1	3.5
31	.00	---	.89	12	---	11	---	9.6	---	49	4.3	---
TOTAL	514.20	386.46	133.40	208.79	374.2	401.4	1310.5	354.4	230.7	1287.2	258.1	288.2
MEAN	16.6	12.9	4.30	6.74	12.9	12.9	43.7	11.4	7.69	41.5	8.33	9.61
MAX	329	227	25	50	50	53	540	46	78	275	53	44
MIN	.00	.00	.42	.84	5.5	5.9	9.6	5.4	2.7	2.5	2.1	1.8
CFSM	.93	.72	.24	.38	.72	.72	2.44	.64	.43	2.32	.47	.54
IN.	1.07	.80	.28	.43	.78	.83	2.72	.74	.48	2.68	.54	.60

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1992, BY WATER YEAR (WY)

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
MEAN	9.46	18.1	24.3	17.0	26.7	33.3	30.1	24.8	15.9	12.9	8.50	8.03												
MAX	60.9	69.3	95.4	54.8	79.4	63.7	58.2	71.9	73.4	57.7	30.8	69.9												
(WY)	1987	1973	1991	1974	1975	1991	1972	1990	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 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1970 - 1992	
ANNUAL TOTAL	6148.40		5747.55			
ANNUAL MEAN	16.8		15.7		19.0	
HIGHEST ANNUAL MEAN					29.6	
LOWEST ANNUAL MEAN					8.30	
HIGHEST DAILY MEAN	611	Mar 13	540	Apr 17	1570	Jun 26 1978
LOWEST DAILY MEAN	.00	Oct 7	.00	Oct 7	.00	Oct 7 1991
ANNUAL SEVEN-DAY MINIMUM	.00	Oct 12	.00	Oct 12	.00	Oct 12 1991
INSTANTANEOUS PEAK FLOW			1350	Apr 17	5500	Jun 26 1978
INSTANTANEOUS PEAK STAGE			7.61	Apr 17	13.31	Jun 26 1978
ANNUAL RUNOFF (CFSM)	.94		.88		1.06	
ANNUAL RUNOFF (INCHES)	12.78		11.94		14.45	
10 PERCENT EXCEEDS	39		32		38	
50 PERCENT EXCEEDS	5.2		7.1		7.5	
90 PERCENT EXCEEDS	.17		.35		1.7	

03353000 WHITE RIVER AT INDIANAPOLIS, IN

LOCATION.--Lat 39°45'05", long 86°10'30", in NW¹/₄, NW⁴/₄, 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 good except for estimated daily discharges, which are fair. 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	332	823	458	970	774	1030	1380	782	792	7970	511
2	67	306	905	449	1060	699	1070	1390	714	811	6060	435
3	143	251	1190	465	1030	678	1060	1230	647	1030	3270	405
4	116	228	1290	458	1020	658	1200	1110	668	902	2190	401
5	319	223	1430	453	1110	639	1160	959	643	2850	1600	466
6	221	211	1020	436	1190	670	995	897	665	2680	1260	445
7	178	197	799	423	1100	759	927	872	791	1460	1100	448
8	150	208	698	429	1010	807	861	761	668	1340	940	844
9	129	204	604	459	903	794	1120	901	592	1640	846	649
10	173	199	558	448	801	871	987	887	564	1510	741	1190
11	156	197	491	441	722	962	864	883	516	949	635	1550
12	117	203	564	427	687	942	968	932	470	2090	568	1580
13	106	196	624	439	674	927	834	1050	444	4750	524	911
14	120	190	679	862	658	844	739	931	436	6530	475	652
15	125	200	714	e1000	1080	810	729	798	464	11700	453	508
16	110	192	665	e1100	1470	770	1070	740	494	11000	434	448
17	110	185	589	e1000	2150	724	6470	685	566	10400	403	402
18	116	202	533	e920	2260	973	9930	676	6270	9210	382	418
19	113	316	502	e840	2160	1740	12200	713	12500	8890	366	388
20	117	1620	431	e760	2200	2380	12200	690	17100	4920	362	352
21	127	1820	451	e740	2060	2340	8860	620	12200	4150	345	1170
22	128	1720	447	764	1700	1810	6040	613	4570	3530	322	3890
23	127	1560	658	883	1420	1450	4480	908	2940	3170	316	3340
24	136	1050	691	1110	1260	1180	3360	1390	2370	4850	305	2250
25	265	765	698	1630	1090	1050	2670	1000	2130	6920	300	1420
26	2540	598	720	1550	1020	1000	2210	808	1850	7460	342	1130
27	1710	555	656	1170	933	1020	1870	745	1430	4000	784	1160
28	994	617	577	1030	890	976	1630	650	1160	2910	1230	1140
29	654	583	541	924	825	908	1460	630	990	2300	1340	1010
30	393	850	506	879	---	1030	1370	728	865	2240	1110	944
31	294	---	478	872	---	988	---	749	---	5040	692	---
TOTAL	10137	15978	21532	23819	35453	32173	90364	27326	76499	132024	37665	30457
MEAN	327	533	695	768	1223	1038	3012	881	2550	4259	1215	1015
MAX	2540	1820	1430	1630	2260	2380	12200	1390	17100	11700	7970	3890
MIN	67	185	431	423	658	639	729	613	436	792	300	352
CFSM	.20	.33	.42	.47	.75	.63	1.84	.54	1.56	2.60	.74	.62
IN.	.23	.36	.49	.54	.81	.73	2.06	.62	1.74	3.00	.86	.69

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1992, BY WATER YEAR (WY)

	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942
MEAN	422	771	1394	1898	2193	2741	2709	1842	1387	870	545	420
MAX	2081	4518	5826	12120	6452	6610	7777	8594	7910	4259	3399	5063
(WY)	1991	1973	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 1991 CALENDAR YEAR FOR 1992 WATER YEAR WATER YEARS 1931 - 1992

ANNUAL TOTAL	594231.0	533427	
ANNUAL MEAN	1628	1457	1428
HIGHEST ANNUAL MEAN			2698
LOWEST ANNUAL MEAN			233
HIGHEST DAILY MEAN	35400	Jan 1	17100
LOWEST DAILY MEAN	56	Sep 21	67
ANNUAL SEVEN-DAY MINIMUM	86	Sep 26	114
INSTANTANEOUS PEAK FLOW			18200
INSTANTANEOUS PEAK STAGE			14.33
ANNUAL RUNOFF (CFSM)	1.00		.89
ANNUAL RUNOFF (INCHES)	13.52		12.14
10 PERCENT EXCEEDS	4290		2870
50 PERCENT EXCEEDS	725		837
90 PERCENT EXCEEDS	113		222

03353120 PLEASANT RUN AT ARLINGTON AVENUE AT INDIANAPOLIS, IN

LOCATION.--Lat 39°46'33", long 86°03'50", in SW¹/₄NW¹/₄ 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.28	18	3.2	.97	1.6	1.0	9.3	1.4	1.5	.57	4.9	.63
2	.35	3.0	32	1.1	1.4	1.5	4.0	1.4	1.2	13	2.9	.58
3	3.2	1.4	16	2.8	1.4	1.5	4.0	1.3	1.1	12	4.0	.59
4	.46	1.1	4.8	1.2	1.3	.98	14	1.2	3.3	1.2	1.9	.47
5	28	.88	2.8	.97	1.1	1.1	4.2	1.2	1.1	185	1.5	.91
6	e1.4	.83	2.4	.97	1.1	4.1	3.1	1.1	9.0	19	1.4	.58
7	e.65	2.3	2.0	.95	1.0	5.5	2.6	1.1	16	34	1.1	1.2
8	e.50	.73	1.6	.94	.95	2.5	2.2	1.1	2.3	15	2.1	12
9	e.45	.65	1.5	1.3	.85	1.4	25	9.1	1.3	18	1.1	3.0
10	e4.0	.58	1.2	.99	.85	15	12	1.4	1.0	33	.96	40
11	e.80	.58	1.2	.88	.85	7.4	6.9	1.2	.78	6.1	.89	2.3
12	e.45	1.4	9.4	1.2	.75	4.3	5.3	15	.78	58	.76	1.0
13	e.40	.92	4.7	4.3	1.1	2.5	2.4	6.6	.68	6.8	.76	.69
14	e1.0	.70	2.7	26	1.5	2.1	2.0	1.5	1.9	6.7	.66	.60
15	e.45	1.7	1.6	e5.0	32	1.6	1.8	1.5	.92	75	.60	.47
16	e.40	1.8	1.4	e3.0	5.4	1.4	35	1.1	.61	31	.66	.43
17	e.45	.93	1.4	e2.0	3.5	1.4	88	1.1	.57	78	.66	.48
18	e.42	6.9	1.1	e1.5	16	49	113	1.9	263	11	.61	11
19	e1.0	22	.98	e1.2	5.7	18	23	1.1	9.1	5.0	.70	1.3
20	e.70	113	.99	e1.0	4.9	7.1	15	.92	3.5	8.1	.59	.52
21	e.52	27	7.1	e2.5	2.8	4.7	9.6	.79	1.8	12	.41	46
22	e.48	7.4	1.8	6.8	2.1	4.0	5.1	37	1.2	4.0	.40	6.5
23	e.45	3.9	23	13	1.9	2.5	3.6	62	4.8	40	.57	1.1
24	e1.2	2.7	4.7	5.5	1.6	1.9	4.4	14	42	59	.61	.60
25	20	1.8	2.6	3.9	1.5	5.0	2.7	2.8	6.2	9.9	.42	.40
26	175	1.3	1.8	4.1	1.6	8.2	2.3	1.6	5.7	16	7.2	7.1
27	42	4.3	1.5	4.6	1.2	4.3	1.8	1.3	1.4	5.0	42	8.9
28	5.1	12	1.4	3.9	1.1	2.2	1.7	1.2	.84	3.5	24	1.4
29	2.5	3.0	1.3	3.0	.98	2.4	1.5	6.9	.80	16	2.3	.89
30	1.9	15	1.2	2.5	---	12	1.5	14	.64	42	1.1	.75
31	1.5	---	1.0	2.2	---	4.4	---	2.4	---	17	.75	---
TOTAL	296.01	257.80	140.37	110.27	98.03	180.98	407.0	196.21	385.02	840.87	108.51	152.39
MEAN	9.55	8.59	4.53	3.56	3.38	5.84	13.6	6.33	12.8	27.1	3.50	5.08
MAX	175	113	32	26	32	49	113	62	263	185	42	46
MIN	.28	.58	.98	.88	.75	.98	1.5	.79	.57	.57	.40	.40
CFSM	1.26	1.13	.60	.47	.45	.77	1.79	.84	1.69	3.58	.46	.67
IN.	1.45	1.27	.69	.54	.48	.89	2.00	.96	1.89	4.13	.53	.75

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 1992, BY WATER YEAR (WY)

	4.48	7.66	9.32	7.22	9.30	13.6	11.0	9.24	6.60	9.06	5.23	3.99
MEAN	4.48	7.66	9.32	7.22	9.30	13.6	11.0	9.24	6.60	9.06	5.23	3.99
MAX	27.5	33.2	33.3	25.0	25.7	42.3	28.5	28.6	21.6	33.8	21.3	23.2
(WY)	1987	1986	1991	1969	1971	1963	1961	1981	1973	1979	1979	1989
MIN	.38	1.28	.72	.45	1.11	2.08	1.61	1.12	.69	.61	.67	.49
(WY)	1964	1964	1964	1977	1978	1969	1971	1964	1967	1967	1967	1967

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1960 - 1992	
ANNUAL TOTAL	2904.67		3173.46			
ANNUAL MEAN	7.96		8.67		8.08	
HIGHEST ANNUAL MEAN					11.6	
LOWEST ANNUAL MEAN					3.25	
HIGHEST DAILY MEAN	175	Oct 26	263	Jun 18	574	Mar 4 1963
LOWEST DAILY MEAN	.13	Aug 24	.28	Oct 1	.00	Sep 11 1960
ANNUAL SEVEN-DAY MINIMUM	.21	Sep 5	.51	Oct 12	.00	Oct 5 1960
INSTANTANEOUS PEAK FLOW			1790		2600	
INSTANTANEOUS PEAK STAGE			10.87		13.86	
ANNUAL RUNOFF (CFSM)	1.05		1.14		1.07	
ANNUAL RUNOFF (INCHES)	14.26		15.57		14.48	
10 PERCENT EXCEEDS	17		18		16	
50 PERCENT EXCEEDS	1.5		1.8		1.9	
90 PERCENT EXCEEDS	.28		.61		.50	

WABASH RIVER BASIN

03353180 BEAN CREEK AT INDIANAPOLIS, IN

LOCATION.--Lat 39°43'45", long 86°07'14", in NW¹/₄SW¹/₄ sec.20, T.15 N., R.4 E., Marion County, Hydrologic Unit 05120201, on left bank 80 ft upstream from Keystone Avenue bridge and west edge of Sarah Shank Golf Course in Indianapolis, and at mile 1.8.
 DRAINAGE AREA.--4.40 mi².
 PERIOD OF RECORD.--October 1970 to current year.
 GAGE.--Water-stage recorder. Datum of gage is 735.00 ft above sea level.
 REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.69	5.4	2.5	1.7	2.0	1.5	4.3	2.5	1.6	e1.7	e9.0	e1.8
2	.71	2.5	11	1.9	2.8	2.1	3.3	2.4	e1.4	11	e4.4	2.0
3	1.0	2.2	6.3	1.9	2.0	2.7	3.2	2.2	e1.3	4.9	e3.7	1.8
4	.60	2.1	3.4	1.5	1.8	4.0	5.6	2.1	2.8	1.3	e3.1	1.6
5	7.5	2.3	2.7	1.2	1.9	3.9	3.2	e2.0	1.6	e250	e2.6	3.0
6	1.1	2.5	2.9	1.1	1.8	3.8	2.8	e1.9	3.7	e50	e1.9	1.7
7	.99	2.6	2.3	1.2	1.8	4.4	2.8	e1.8	7.8	e19	e1.4	1.7
8	1.1	2.2	1.9	1.3	1.7	2.7	2.6	e1.7	2.1	e20	e3.5	2.8
9	1.1	2.0	1.8	1.3	1.5	2.2	7.5	4.0	1.9	e120	e2.0	2.1
10	3.6	1.7	1.8	1.1	1.5	6.1	4.5	2.1	1.6	e75	e1.7	12
11	1.2	1.7	1.7	1.1	1.7	3.6	3.6	1.9	1.5	e18	e1.4	2.1
12	1.0	2.5	3.8	1.2	1.7	3.1	3.1	4.6	1.5	e56	e1.2	1.8
13	.93	1.8	3.1	2.0	2.0	2.6	2.6	2.2	1.7	e14	e1.1	1.6
14	1.3	1.7	2.1	7.4	1.9	2.3	2.7	1.8	3.9	e11	e1.0	1.5
15	1.1	2.0	1.8	e3.5	15	2.0	2.6	1.9	2.9	e55	e1.0	1.7
16	1.1	1.8	1.7	e2.7	4.0	2.0	6.0	1.8	1.8	e16	e.98	1.5
17	1.3	1.6	1.8	e2.3	3.1	2.1	18	1.7	1.6	e50	e.96	1.5
18	1.3	2.7	1.7	e2.0	6.5	12	50	2.1	131	e16	e.95	5.2
19	1.5	5.9	e1.5	e1.8	3.9	5.7	9.9	1.7	7.3	e7.5	e.93	2.0
20	1.2	35	1.8	e1.7	3.3	3.7	8.1	e1.5	8.0	e5.8	e.91	1.5
21	1.3	9.8	3.4	e2.0	2.7	3.2	10	1.7	4.4	e5.6	e.90	13
22	1.4	4.1	1.9	2.7	2.4	3.0	5.3	2.4	3.6	e3.7	e.90	3.4
23	1.4	3.0	5.8	3.9	2.1	2.5	4.3	4.4	4.6	e5.2	e.90	2.1
24	1.5	2.5	2.4	2.7	2.0	2.4	4.3	2.4	e6.0	e20	e.90	1.9
25	4.3	2.1	2.0	2.5	2.2	3.0	3.7	1.6	e3.5	e5.2	e.90	1.7
26	55	2.0	1.7	2.4	2.0	3.7	3.3	e1.4	e2.2	e16	e7.0	3.9
27	11	2.6	1.6	2.2	1.9	3.0	3.2	e1.3	e2.0	e8.0	e26	3.7
28	2.9	4.2	1.6	2.6	1.9	2.4	3.0	1.6	e1.8	e4.5	e30	1.8
29	2.2	2.0	1.8	2.1	1.7	2.3	2.8	2.8	e1.7	e3.2	e9.0	1.6
30	1.9	6.9	1.6	2.3	---	5.8	2.8	3.9	e1.6	e34	e5.0	1.6
31	1.6	---	1.6	2.2	---	3.5	---	1.8	---	e18	e2.3	---
TOTAL	114.82	121.4	83.0	67.5	80.8	107.3	189.1	69.2	218.4	925.6	127.53	85.6
MEAN	3.70	4.05	2.68	2.18	2.79	3.46	6.30	2.23	7.28	29.9	4.11	2.85
MAX	55	35	11	7.4	15	12	50	4.6	131	250	30	13
MIN	.60	1.6	1.5	1.1	1.5	1.5	2.6	1.3	1.3	1.3	.90	1.5
CFSM	.84	.92	.61	.49	.63	.79	1.43	.51	1.65	6.79	.93	.65
IN.	.97	1.03	.70	.57	.68	.91	1.60	.59	1.85	7.83	1.08	.72

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1992, BY WATER YEAR (WY)

	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
MEAN	3.22	4.99	5.97	4.44	6.59	8.21	6.60	6.46	4.47	6.16	3.90	2.81											
MAX	12.5	16.2	15.4	10.0	16.0	16.4	12.2	18.9	11.4	29.9	11.6	11.5											
(WY)	1987	1986	1991	1975	1971	1991	1972	1981	1973	1992	1979	1989											
MIN	1.37	1.57	1.49	.82	1.72	2.10	2.31	1.76	1.32	.95	1.23	.93											
(WY)	1983	1982	1977	1977	1978	1981	1976	1988	1988	1991	1983	1983											

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1971 - 1992
ANNUAL TOTAL	2030.40	2190.25	
ANNUAL MEAN	5.56	5.98	5.32
HIGHEST ANNUAL MEAN			7.44
LOWEST ANNUAL MEAN			3.51
HIGHEST DAILY MEAN	76	250	250
LOWEST DAILY MEAN	.50	.60	.30
ANNUAL SEVEN-DAY MINIMUM	.56	.91	.56
INSTANTANEOUS PEAK FLOW		e1180	e1180
INSTANTANEOUS PEAK STAGE		9.42	9.42
ANNUAL RUNOFF (CFSM)	1.26	1.36	1.21
ANNUAL RUNOFF (INCHES)	17.17	18.52	16.41
10 PERCENT EXCEEDS	11	9.0	10
50 PERCENT EXCEEDS	2.4	2.2	2.7
90 PERCENT EXCEEDS	.69	1.3	1.2

e Estimated

03353450 EAGLE CREEK RESERVOIR NEAR INDIANAPOLIS, IN

LOCATION.--Lat 39°49'20", long 86°18'11", in NW¹/₄/NW¹/₄ 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 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 tainter 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, 25,690 acre-ft July 5, elevation, 791.21 ft; minimum, 11,390 acre-ft Nov. 17-18, elevation, 778.70 ft.

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	780.87	13,370	
Oct. 31.....	779.58	12,140	-1,230
Nov. 30.....	779.86	12,380	+240
Dec. 31.....	781.07	13,570	+1,190
CAL YR 1991.....			-14,290
Jan. 31.....	783.17	15,690	+2,120
Feb. 29.....	788.00	21,400	+5,710
Mar. 31.....	790.22	24,310	+2,910
Apr. 30.....	790.29	24,410	+100
May 31.....	790.42	24,590	+180
June 30.....	790.93	25,300	+710
July 31.....	790.97	25,360	+60
Aug. 31.....	790.13	24,180	-1,180
Sept. 30.....	790.18	24,250	+70
WYR YR 1990.....			+10,880

03353500 EAGLE CREEK AT INDIANAPOLIS, IN

LOCATION.--Lat 39°46'33", long 86°15'01", in NW¹/₄, NW¹/₄, 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.

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 7.21 ft higher.

REMARKS.--Records good 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.

CORRECTIONS.--Corrected monthly mean data for period of record superceding those published in the report for 1991 are given below.

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1991, BY WATER YEAR (WY)

MEAN	33.6	94.0	174	203	251	319	310	205	144	83.3	42.0	37.6
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DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	89	86	16	19	15	135	e92	5.9	7.1	288	6.4
2	13	86	111	17	19	14	152	e88	5.4	18	282	5.8
3	34	94	105	17	19	13	143	e120	4.7	17	141	5.4
4	16	89	194	15	18	15	273	e16	5.0	7.4	67	5.3
5	70	86	80	14	19	41	185	e13	4.3	246	12	5.4
6	33	86	63	14	17	12	196	e12	4.5	412	47	6.1
7	31	85	59	13	16	22	182	e88	5.4	141	97	6.5
8	30	70	56	15	11	10	168	e11	4.9	129	11	7.7
9	29	55	54	16	e10	7.2	155	e80	5.1	115	8.8	120
10	32	53	51	16	9.7	20	183	e12	4.8	150	8.1	266
11	29	45	47	15	8.3	34	211	e30	4.3	94	6.8	24
12	29	54	74	15	9.6	15	246	e72	4.0	379	7.7	136
13	30	52	50	25	9.7	24	141	e30	4.5	191	7.8	9.8
14	32	54	27	70	9.6	26	138	e140	4.3	98	7.9	8.8
15	31	46	22	e96	77	23	41	e13	3.9	265	7.8	12
16	31	51	35	e36	31	20	554	8.7	4.3	204	7.2	8.5
17	30	49	20	e24	21	21	2550	7.5	3.5	716	6.5	7.0
18	31	52	18	e20	98	80	2450	7.3	828	439	6.3	10
19	31	76	17	e17	47	53	1570	6.9	284	229	5.8	8.0
20	31	266	19	e15	29	16	1050	75	131	168	6.0	7.3
21	31	105	27	e13	21	270	e700	6.4	129	209	6.0	1530
22	29	27	18	21	25	236	e500	11	12	235	5.7	1630
23	31	83	60	41	30	139	e350	22	11	76	5.3	394
24	32	72	30	31	26	132	e260	233	66	827	5.0	383
25	110	68	24	17	25	132	e190	85	69	450	13	228
26	284	64	21	13	23	180	e130	8.4	8.7	833	7.7	161
27	166	82	20	13	21	187	e100	76	8.0	393	38	205
28	95	99	20	14	18	126	e110	6.9	8.0	269	10	244
29	80	77	18	13	17	146	e80	8.0	7.8	127	7.8	176
30	77	130	16	13	---	155	e76	9.0	7.3	257	6.6	236
31	73	---	17	18	---	149	---	6.6	---	496	6.5	---
TOTAL	1614	2345	1459	693	703.9	2333.2	13219	1394.7	1648.6	8197.5	1143.3	5853.0
MEAN	52.1	78.2	47.1	22.4	24.3	75.3	441	45.0	55.0	264	36.9	195
MAX	284	266	194	96	98	270	2550	233	828	833	288	1630
MIN	13	27	16	13	8.3	7.2	41	6.4	3.5	7.1	5.0	5.3
CFSM	.30	.45	.27	.13	.14	.43	2.53	.26	.32	1.52	.21	1.12
IN.	.35	.50	.31	.15	.15	.50	2.83	.30	.35	1.75	.24	1.25

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1992, BY WATER YEAR (WY)

MEAN	33.9	93.7	171	199	246	314	312	202	143	86.6	42.0	40.6
MAX	201	612	906	1485	765	900	906	1127	904	800	490	625
(WY)	1970	1973	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 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1939 - 1992
ANNUAL TOTAL	60838	40604.2	
ANNUAL MEAN	167	111	157
HIGHEST ANNUAL MEAN			316
LOWEST ANNUAL MEAN			18.8
HIGHEST DAILY MEAN	4070	Mar 13	2550
LOWEST DAILY MEAN	12	Sep 24	3.5
ANNUAL SEVEN-DAY MINIMUM	13	Sep 23	4.1
INSTANTANEOUS PEAK FLOW			4450
INSTANTANEOUS PEAK STAGE			8.33
ANNUAL RUNOFF (CFSM)	.96	.64	.90
ANNUAL RUNOFF (INCHES)	13.01	8.68	12.23
10 PERCENT EXCEEDS	433	245	353
50 PERCENT EXCEEDS	47	30	41
90 PERCENT EXCEEDS	17	6.7	5.6

WABASH RIVER BASIN

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

LOCATION.--Lat 39°50'45", long 86°14'55", in NE¹/₄,SW¹/₄, 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.--6.94 mi².

PERIOD OF RECORD.--October 1989 to current year.

GAGE.--Water-stage recorder. Datum of gage is 766.34 ft above sea level.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

PROVISIONAL DATA DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992 SUBJECT TO REVISION DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.54	5.0	7.1	2.9	4.1	3.1	7.0	2.2	1.5	1.2	8.0	.96
2	.50	3.5	19	3.2	3.5	2.9	4.7	2.1	1.2	9.3	4.8	.96
3	1.1	1.8	17	4.5	3.4	2.4	4.1	1.8	.96	28	7.2	1.1
4	1.1	1.5	6.3	4.1	3.7	2.1	12	1.7	3.1	3.4	2.6	3.7
5	28	1.4	4.0	3.3	3.0	2.2	6.2	1.9	1.6	122	1.7	3.5
6	3.4	1.4	3.7	3.8	3.0	3.8	4.0	1.6	1.1	20	1.4	3.6
7	1.1	1.4	3.5	2.8	2.7	4.4	3.5	1.4	1.1	31	1.3	4.3
8	.63	1.4	3.2	3.6	2.4	3.5	3.1	1.4	.96	17	1.6	15
9	.63	1.2	3.1	4.4	2.0	2.5	14	4.8	.66	6.7	1.3	2.9
10	6.4	1.1	2.6	2.9	2.2	13	5.7	2.3	.54	5.7	1.1	35
11	1.6	1.1	2.4	2.4	2.1	6.1	9.3	1.7	.46	4.0	.90	4.0
12	.69	1.3	15	2.4	2.1	5.1	15	33	.42	27	.76	2.5
13	1.2	1.8	13	4.7	2.5	3.8	4.4	7.0	.46	4.5	.69	2.2
14	1.0	1.3	5.9	30	2.6	3.1	3.8	2.4	1.2	2.3	.65	1.9
15	2.5	2.0	3.9	e6.8	57	2.8	3.5	3.2	11	35	.65	1.6
16	.98	2.2	3.2	e4.3	13	2.5	67	1.7	1.3	19	.63	1.5
17	.79	1.4	3.0	e3.3	7.1	3.1	323	1.5	.90	70	.63	1.4
18	1.6	5.8	2.6	e3.0	46	28	96	1.6	149	13	.58	2.2
19	2.0	15	2.3	e2.4	13	17	26	1.4	4.9	4.6	.58	2.0
20	2.1	153	2.2	e2.1	9.3	6.7	31	1.1	3.4	35	.59	1.7
21	1.7	36	5.8	e6.2	6.3	6.5	17	1.0	2.7	63	.59	37
22	1.0	9.1	3.5	12	5.3	5.4	9.2	.96	1.9	15	.61	25
23	1.4	5.3	23	18	4.6	4.1	6.2	24	3.7	10	.61	4.9
24	1.2	3.9	7.3	e9.4	4.1	3.6	5.4	9.7	7.4	36	.54	2.7
25	25	3.0	4.5	e5.6	4.1	5.6	4.2	2.4	3.7	11	5.5	1.9
26	176	2.5	3.7	4.8	3.8	8.6	3.9	1.6	12	23	3.6	7.7
27	67	6.2	3.2	6.6	3.7	7.9	3.5	1.3	2.3	12	32	28
28	6.7	17	3.1	7.5	3.7	4.1	2.9	1.0	1.5	5.9	9.8	4.2
29	3.8	5.9	3.1	5.7	3.3	4.0	2.6	2.7	1.3	3.4	2.0	2.2
30	2.9	32	3.0	5.6	---	---	6.1	2.4	11	1.2	24	1.3
31	2.4	---	3.1	5.8	---	---	4.1	---	2.6	---	34	1.1
TOTAL	346.96	325.5	186.3	184.1	223.6	178.1	700.6	134.06	223.46	696.0	95.31	207.12
MEAN	11.2	10.8	6.01	5.94	7.71	5.75	23.4	4.32	7.45	22.5	3.07	6.90
MAX	176	153	23	30	57	28	323	33	149	122	32	37
MIN	.50	1.1	2.2	2.1	2.0	2.1	2.4	.96	.42	1.2	.54	.96
CFSM	1.61	1.56	.87	.86	1.11	.83	3.37	.62	1.07	3.24	.44	.99
IN.	1.86	1.74	1.00	.99	1.20	.95	3.76	.72	1.20	3.73	.51	1.11

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1992, BY WATER YEAR (WY)

	1989	1990	1991	1992	1989	1990	1991	1992	1989	1990	1991	1992
MEAN	8.74	10.0	19.0	7.21	17.2	14.6	15.6	13.5	4.87	10.0	3.09	3.95
MAX	13.3	10.8	49.8	8.56	31.1	25.0	23.4	31.0	7.45	22.5	4.56	6.90
(WY)	1991	1992	1991	1991	1990	1991	1992	1990	1992	1992	1990	1992
MIN	1.69	8.49	1.15	5.94	7.71	5.75	8.38	4.32	1.63	2.21	1.64	1.05
(WY)	1990	1990	1990	1992	1992	1992	1990	1992	1991	1991	1991	1991

SUMMARY STATISTICS FOR 1991 CALENDAR YEAR FOR 1992 WATER YEAR WATER YEARS 1989 - 1992

ANNUAL TOTAL	3075.74	3501.11		
ANNUAL MEAN	8.43	9.57	10.6	
HIGHEST ANNUAL MEAN			12.3	1991
LOWEST ANNUAL MEAN			9.57	1992
HIGHEST DAILY MEAN	240	Mar 13	323	Apr 17
LOWEST DAILY MEAN	.15	Sep 21	.42	Jun 12
ANNUAL SEVEN-DAY MINIMUM	.28	Aug 21	.59	Aug 18
INSTANTANEOUS PEAK FLOW			1260	Apr 17
INSTANTANEOUS PEAK STAGE			8.30	Jul 5
ANNUAL RUNOFF (CFSM)	1.21	1.38	1.53	
ANNUAL RUNOFF (INCHES)	16.49	18.77	20.80	
10 PERCENT EXCEEDS	17	23	21	
50 PERCENT EXCEEDS	3.0	3.4	3.1	
90 PERCENT EXCEEDS	.52	1.1	.70	

WABASH RIVER BASIN

03353560 GUION CREEK ABOVE 52ND STREET AT INDIANAPOLIS, IN

LOCATION.--Lat 39°50'45", long 86°13'57", in NW¹/₄/SW¹/₄, 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.--3.91 mi².

PERIOD OF RECORD.--October 1989 to current year.

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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	1.7	3.9	.91	1.7	.79	3.4	1.3	.60	.26	4.8	.11
2	.01	.94	5.8	1.2	1.5	.98	2.1	1.1	.45	3.0	3.2	.10
3	1.9	.44	7.5	1.4	1.1	1.1	1.5	.88	.68	5.7	3.6	.11
4	1.4	.26	3.5	1.3	1.2	.62	3.9	.76	1.6	1.6	1.7	.11
5	10	.19	2.0	1.1	1.0	.44	2.4	.72	.84	62	1.6	.13
6	2.2	.18	1.8	1.0	.97	.93	1.8	.62	.73	20	1.3	.11
7	1.0	.20	1.5	.70	.93	1.6	1.6	.61	.79	18	1.2	.13
8	.66	.17	1.1	.67	.73	1.1	1.3	.62	.63	11	1.1	.87
9	.42	.15	.98	.82	.56	.97	6.6	1.3	.39	5.1	1.0	.53
10	.70	.15	.93	.67	.50	4.4	3.7	.69	.41	3.6	1.0	4.8
11	.01	.14	.83	.52	.51	3.3	3.7	.61	.28	2.6	.55	.57
12	.01	.19	3.7	.46	.47	3.0	5.3	11	.19	8.9	.21	.22
13	.00	.17	4.3	1.0	.59	2.0	2.7	6.5	.18	3.0	.25	.15
14	.02	.18	2.7	8.4	.69	1.7	2.0	3.0	.43	2.3	.20	.13
15	.05	2.2	1.5	3.5	11	1.4	1.7	2.1	.50	11	.18	.09
16	.10	1.5	1.0	2.2	6.8	1.1	23	1.9	.23	6.7	.16	.07
17	.01	1.0	.97	1.6	3.9	1.5	124	1.2	.22	17	.14	.07
18	.00	3.1	.74	1.2	14	8.5	52	1.2	30	6.6	.14	.11
19	.20	8.2	.63	9.6	7.0	11	21	.86	4.3	3.6	.10	.09
20	.10	40	1.2	8.0	4.6	5.1	18	.65	2.5	23	.08	.06
21	.00	21	2.1	1.3	3.4	4.4	12	.52	1.9	34	.08	5.7
22	.00	6.9	1.3	2.1	2.7	3.4	6.7	.45	1.0	9.4	.06	3.4
23	.00	3.7	6.4	5.8	2.3	2.7	4.7	3.8	1.3	6.8	.05	.54
24	.00	2.2	3.9	3.8	1.8	2.1	4.0	3.9	3.3	17	.03	.22
25	8.1	1.3	2.5	2.7	1.6	2.7	3.2	1.5	1.9	5.6	.04	.14
26	35	.79	1.9	2.0	1.4	4.0	2.7	.86	2.7	5.9	.04	.43
27	18	1.5	1.5	2.2	1.2	3.8	2.2	.64	.88	3.6	8.8	2.8
28	4.9	4.2	1.4	2.7	1.1	2.1	1.8	.44	.49	2.1	2.5	.47
29	2.0	2.7	1.4	2.4	.89	1.8	1.7	1.1	.37	1.5	.48	.21
30	.88	8.6	1.2	2.4	---	1.9	1.6	2.6	.33	9.9	.22	.16
31	.53	---	.98	2.4	---	2.0	---	1.0	---	16	.16	---
TOTAL	88.22	113.95	71.16	60.21	76.14	82.43	322.3	54.43	60.12	326.76	34.97	22.63
MEAN	2.85	3.80	2.30	1.94	2.63	2.66	10.7	1.76	2.00	10.5	1.13	.75
MAX	35	40	7.5	8.4	14	11	124	11	30	62	8.8	5.7
MIN	.00	.14	.63	.46	.47	.44	1.3	.44	.18	.26	.03	.06
CFSM	.73	.97	.59	.50	.67	.68	2.75	.45	.51	2.70	.29	.19
IN.	.84	1.08	.68	.57	.72	.78	3.07	.52	.57	3.11	.33	.22

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1992, BY WATER YEAR (WY)

	1990	1991	1992	1990	1991	1992	1990	1991	1992	1990	1991	1992
MEAN	2.99	4.05	7.47	3.34	8.31	7.14	7.17	7.33	1.80	4.28	.72	1.00
MAX	5.45	4.73	19.6	4.18	16.4	12.5	10.7	16.7	2.84	10.5	1.13	2.08
(WY)	1991	1991	1991	1991	1990	1991	1992	1990	1990	1992	1992	1990
MIN	.68	3.61	.52	1.94	2.63	2.66	3.55	1.76	.56	.33	.15	.17
(WY)	1990	1990	1990	1992	1992	1992	1990	1992	1991	1991	1991	1991

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	FOR 1990 CALENDAR YEAR	FOR 1991 WATER YEAR	FOR 1992 WATER YEAR	WATER YEARS 1990 - 1992
ANNUAL TOTAL	1324.61	1313.32	1324.61	1313.32	1324.61	4.62
ANNUAL MEAN	3.63	3.59	3.63	3.59	3.63	5.40
HIGHEST ANNUAL MEAN						3.59
LOWEST ANNUAL MEAN						201
HIGHEST DAILY MEAN	108	Mar 13	124	Apr 17	201	Dec 30 1990
LOWEST DAILY MEAN	.00	Aug 28	.00	Oct 13	.00	Aug 28 1991
ANNUAL SEVEN-DAY MINIMUM	.01	Aug 23	.03	Oct 12	.01	Aug 23 1991
INSTANTANEOUS PEAK FLOW			315	Apr 17	421	May 16 1990
INSTANTANEOUS PEAK STAGE			6.35	Apr 17	7.35	May 16 1990
ANNUAL RUNOFF (CFSM)	.93		.92		1.18	
ANNUAL RUNOFF (INCHES)	12.60		12.50		16.05	
10 PERCENT EXCEEDS	8.5		7.1		9.1	
50 PERCENT EXCEEDS	1.4		1.3		1.5	
90 PERCENT EXCEEDS	.02		.13		.11	

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

LOCATION.--Lat 39°48'33", long 86°13'56", in NW¹/₄, NW¹/₄, 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.--2.95 mi².

PERIOD OF RECORD.--October 1989 to current year.

GAGE.--Water-stage recorder. Datum of gage is 727.27 ft above sea level.

REMARKS.--Records good except for estimated daily discharges, which are poor.

PROVISIONAL DATA SUBJECT TO REVISION

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	3.5	e2.7	.52	.84	.47	2.5	1.0	.52	.27	2.5	.44
2	.00	e1.0	e4.6	.90	.63	.43	2.0	.80	.40	13	2.8	.51
3	7.3	e.60	e5.0	1.4	.61	.40	1.9	.64	.33	6.1	2.5	1.1
4	.25	e.45	e3.5	1.1	.58	.40	5.0	.51	1.9	.83	.78	.63
5	15	e.39	e2.5	.98	.48	.58	2.3	.47	.47	8.8	.49	.39
6	.78	e.35	e1.7	.92	.47	1.2	1.7	.44	.35	1.1	.42	1.3
7	.17	e.36	e1.2	.54	.44	2.6	1.4	.38	1.3	17	.42	.74
8	.40	e.37	e1.0	.90	.40	.75	1.2	.38	.29	5.6	1.4	2.9
9	.22	e.30	e1.1	.71	.34	.54	9.8	2.6	.28	6.7	.40	2.0
10	.88	e.29	e1.0	.55	.33	5.0	5.4	.49	.25	16	.40	14
11	.13	e.34	e.68	.49	.34	2.1	6.5	.40	.24	7.6	.40	3.5
12	.13	e.41	5.6	.53	.30	1.4	4.3	16	.22	16	.39	4.2
13	.12	e.36	2.6	2.7	.47	.93	2.4	2.4	.25	2.3	.43	2.0
14	.24	e.30	1.6	8.8	1.0	.75	2.0	.89	.25	2.0	.53	2.7
15	.11	e.50	1.0	2.2	12	.60	1.6	1.6	.21	43	.55	3.5
16	.08	e.40	.74	e1.1	4.0	.61	41	.48	.23	29	.58	2.5
17	.07	e.33	.71	e.70	2.8	.87	122	.76	1.2	27	.52	.54
18	.07	e1.5	.56	e.35	13	14	57	1.6	61	5.5	.37	2.3
19	.22	e15	.47	e.30	4.7	7.5	18	.59	2.0	2.1	.28	.35
20	.09	e45	.50	e.30	2.8	3.5	18	.48	1.3	2.9	.35	.24
21	.09	e25	2.2	e.70	2.0	2.4	10	.44	.43	27	.33	17
22	.09	e11	.70	1.3	1.6	2.3	6.0	.42	.28	4.1	.34	3.5
23	.10	e6.0	6.9	4.1	1.4	1.6	4.2	3.9	2.0	13	.29	.71
24	.09	e3.0	2.1	2.1	1.2	1.2	4.0	1.6	21	18	.26	.25
25	29	e1.5	1.3	1.6	1.1	2.6	2.9	.55	4.2	3.7	e2.4	.45
26	53	e.82	.97	1.4	.90	3.1	2.3	.39	2.2	4.7	e6.0	2.6
27	12	e2.0	.76	1.6	.76	2.2	2.0	.35	.58	1.9	e14	5.7
28	2.6	e4.6	.73	1.7	.67	1.4	1.6	.46	.38	1.1	e5.0	.86
29	1.1	e2.0	.68	1.4	.54	1.5	1.5	4.0	.36	3.2	e2.0	.39
30	1.0	e9.4	.57	1.3	---	2.3	1.3	3.7	.35	12	e.70	.29
31	.95	---	.55	1.3	---	1.6	---	.93	---	8.5	e.54	---
TOTAL	126.28	137.07	56.22	44.49	56.70	66.83	341.8	48.65	104.77	310.00	48.37	77.59
MEAN	4.07	4.57	1.81	1.44	1.96	2.16	11.4	1.57	3.49	10.0	1.56	2.59
MAX	53	45	6.9	8.8	13	14	122	16	61	43	14	17
MIN	.00	.29	.47	.30	.30	.40	1.2	.35	.21	.27	.26	.24
CFSM	1.38	1.55	.61	.49	.66	.73	3.86	.53	1.18	3.39	.53	.88
IN.	1.59	1.73	.71	.56	.71	.84	4.31	.61	1.32	3.91	.61	.98

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1992, BY WATER YEAR (WY)

	1989	1990	1991	1992	1989	1990	1991	1992	1989	1990	1991	1992
MEAN	3.18	4.10	7.09	3.02	7.19	7.03	7.53	6.54	2.28	4.41	1.46	1.45
MAX	4.37	4.57	17.8	4.21	13.7	12.3	11.4	14.8	3.49	10.0	1.79	2.59
(WY)	1991	1992	1991	1991	1990	1991	1992	1990	1992	1992	1990	1992
MIN	1.09	3.66	1.66	1.44	1.96	2.16	3.53	1.57	.82	.61	1.02	.52
(WY)	1990	1990	1990	1992	1992	1992	1990	1992	1991	1991	1991	1991

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1989 - 1992

ANNUAL TOTAL	1425.19	1418.77		
ANNUAL MEAN	3.90	3.88	4.60	
HIGHEST ANNUAL MEAN			5.25	1991
LOWEST ANNUAL MEAN			3.88	1992
HIGHEST DAILY MEAN	89	Mar 13	122	Apr 17
LOWEST DAILY MEAN	.00	Sep 21	.00	Oct 1
ANNUAL SEVEN-DAY MINIMUM	.07	Sep 26	.10	Oct 16
INSTANTANEOUS PEAK FLOW			528	Jun 18
INSTANTANEOUS PEAK STAGE			6.60	Jun 18
ANNUAL RUNOFF (CFSM)	1.32	1.31	1.56	
ANNUAL RUNOFF (INCHES)	17.97	17.89	21.17	
10 PERCENT EXCEEDS	9.1	9.0	11	
50 PERCENT EXCEEDS	1.3	1.0	1.3	
90 PERCENT EXCEEDS	.15	.29	.25	

WABASH RIVER BASIN

03353600 LITTLE EAGLE CREEK AT SPEEDWAY, IN

LOCATION.--Lat 39°47'15", long 86°13'41", in NE¹/₄, SW¹/₄, sec.32, T.16 N., R.3 E., Marion County, Hydrologic Unit 05120201, on right bank at upstream side of 16th Street bridge in Speedway, 0.6 mi upstream from Dry Run, and 2.3 mi upstream from mouth.

DRAINAGE AREA.--23.9 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.

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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.49	18	22	6.1	11	4.0	19	9.7	3.6	.47	23	2.4
2	.44	14	47	7.6	9.4	3.9	14	8.2	2.4	32	13	2.2
3	26	6.1	55	9.6	9.2	3.7	12	6.8	2.0	56	32	3.1
4	2.1	4.3	e22	9.4	9.2	3.4	31	5.8	11	3.5	8.6	5.4
5	87	3.6	e12	7.6	8.3	2.9	17	5.5	5.0	243	6.1	2.6
6	8.4	3.5	11	7.3	7.8	6.6	12	5.3	3.3	86	5.4	9.6
7	2.6	3.6	9.7	6.3	7.6	11	11	4.6	7.5	95	5.4	7.0
8	1.7	3.7	9.0	6.9	6.6	6.7	9.6	4.0	3.7	62	9.4	31
9	1.1	3.0	9.6	9.3	5.5	4.2	51	14	3.2	31	4.7	6.5
10	8.3	2.9	8.6	6.4	5.1	24	28	6.7	2.2	70	4.1	119
11	3.3	3.0	7.1	5.4	5.6	13	30	4.7	1.8	10	3.5	12
12	1.2	4.3	34	5.1	5.0	9.9	36	87	1.5	112	3.1	7.5
13	.75	3.9	30	11	6.0	6.6	16	30	1.3	12	2.8	5.5
14	1.3	3.0	17	70	6.6	5.7	13	10	1.5	6.8	2.8	5.1
15	1.6	4.5	12	e22	104	4.9	12	9.4	21	181	2.8	5.0
16	1.7	6.2	9.7	e16	34	4.1	140	6.6	3.2	96	2.8	4.2
17	.81	3.6	9.2	e11	17	5.7	788	6.3	1.9	242	2.8	3.1
18	.52	11	7.9	e10	91	57	317	7.6	318	39	2.7	11
19	2.3	41	6.2	e8.2	29	57	128	5.0	13	15	2.6	5.2
20	2.3	308	6.3	e7.2	18	20	122	3.5	5.2	88	2.3	3.3
21	2.1	130	18	e12	12	18	77	3.0	2.0	221	2.1	123
22	1.4	33	10	17	9.6	15	39	2.8	1.1	38	2.1	45
23	.79	18	52	38	8.2	12	26	30	4.7	40	2.0	11
24	.57	12	21	e31	6.8	10	24	36	58	152	1.8	6.3
25	84	8.6	13	e17	6.3	15	18	7.3	9.5	26	9.1	5.2
26	383	6.5	10	13	5.4	21	15	3.9	6.9	49	9.0	17
27	156	15	8.4	14	5.1	21	13	3.0	1.8	18	174	58
28	28	36	7.8	17	4.7	12	12	2.4	.84	9.8	41	11
29	14	16	7.6	15	4.5	10	11	10	.62	24	6.8	6.3
30	9.7	80	6.7	14	---	16	10	33	.56	77	3.7	5.2
31	7.2	---	6.4	14	---	11	---	7.7	---	138	2.7	---
TOTAL	840.67	806.3	506.2	444.4	458.5	415.3	2051.6	379.8	498.32	2273.57	394.2	538.7
MEAN	27.1	26.9	16.3	14.3	15.8	13.4	68.4	12.3	16.6	73.3	12.7	18.0
MAX	383	308	55	70	104	57	788	87	318	243	174	123
MIN	.44	2.9	6.2	5.1	4.5	2.9	9.6	2.4	.56	.47	1.8	2.2
CFSM	1.13	1.12	.68	.60	.66	.56	2.86	.51	.70	3.07	.53	.75
IN.	1.31	1.25	.79	.69	.71	.65	3.19	.59	.78	3.54	.61	.84

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1992, BY WATER YEAR (WY)

	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
MEAN	11.5	20.6	31.4	23.3	32.4	38.6	34.8	29.7	15.1	17.4	11.2	9.39						
MAX	88.9	113	111	78.3	75.5	87.8	68.4	103	63.4	92.3	44.7	101						
(WY)	1967	1966	1991	1969	1990	1978	1992	1981	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 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1965 - 1992	
ANNUAL TOTAL	8991.04		9607.56			
ANNUAL MEAN	24.6		26.3		22.9	
HIGHEST ANNUAL MEAN					38.9	
LOWEST ANNUAL MEAN					4.86	
HIGHEST DAILY MEAN	540	Mar 13	788	Apr 17	1300	Mar 14 1978
LOWEST DAILY MEAN	.44	Oct 2	.44	Oct 2	.00	Jul 8 1966
ANNUAL SEVEN-DAY MINIMUM	.58	Aug 23	1.1	Oct 12	.07	Aug 2 1966
INSTANTANEOUS PEAK FLOW			1690	Apr 17	3330	Jul 28 1979
INSTANTANEOUS PEAK STAGE			8.07	Apr 17	12.13	Jul 28 1979
ANNUAL RUNOFF (CFSM)	1.03		1.10		.96	
ANNUAL RUNOFF (INCHES)	13.99		14.95		13.00	
10 PERCENT EXCEEDS	60		58		48	
50 PERCENT EXCEEDS	9.8		9.0		7.5	
90 PERCENT EXCEEDS	.90		2.3		1.2	

03353620 LICK CREEK AT INDIANAPOLIS, IN

LOCATION.--Lat 39°42'21", long 86°06'13", in NE¹/₄NE¹/₄, 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 1991 TO SEPTEMBER 1992
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.12	20	17	5.9	8.3	4.0	18	6.6	4.1	2.3	26	e3.0
2	.18	12	46	5.9	7.3	3.7	13	6.3	3.1	13	15	e2.7
3	.69	7.7	52	9.9	6.8	3.4	11	6.2	2.6	28	13	e2.6
4	.46	6.4	e22	8.6	6.7	e3.1	23	5.9	7.8	6.6	12	e2.1
5	24	4.5	e14	7.6	6.2	e2.9	14	5.9	3.7	648	e7.4	e4.0
6	2.3	4.2	e12	5.8	5.9	6.7	11	5.6	18	160	e6.2	e2.6
7	.77	3.8	11	5.3	5.9	10	9.7	5.2	59	64	e5.0	e5.0
8	e.54	3.2	9.7	5.0	5.4	8.1	10	4.6	28	72	e9.0	17
9	e.50	2.7	8.7	5.8	4.6	5.0	33	18	14	403	e6.0	18
10	8.0	2.5	7.8	5.5	3.8	20	23	10	7.6	253	e4.5	103
11	1.5	2.5	6.8	4.7	3.8	14	16	10	5.1	60	e4.0	e10
12	.77	3.5	13	5.0	3.6	13	12	18	3.9	196	e3.6	e4.0
13	.76	3.5	16	7.8	4.2	9.8	8.5	12	2.9	50	e3.4	e2.9
14	1.3	2.8	11	49	5.0	8.4	7.9	5.3	6.3	38	e3.2	e2.3
15	e.94	3.7	8.7	e20	62	7.0	7.3	4.8	12	194	e2.7	e2.0
16	e.80	4.5	8.1	e13	28	5.5	21	3.9	3.7	54	e2.8	e1.9
17	e.94	3.4	8.3	e10	18	5.0	129	5.0	2.6	176	e2.9	e2.1
18	e.88	5.9	6.0	e7.6	34	50	245	5.8	838	57	e2.8	22
19	e2.0	37	5.0	e8.6	22	45	77	4.3	60	27	e3.1	47
20	e1.4	173	4.9	e10	16	20	52	4.2	29	20	e2.8	e7.0
21	e1.1	88	11	e12	13	16	35	3.0	18	20	e1.9	78
22	e1.0	35	7.8	e15	10	14	23	17	10	14	e1.8	e40
23	e.97	23	32	26	9.2	10	18	33	14	18	e2.4	e6.0
24	e1.5	16	18	18	7.9	8.3	18	21	19	69	e2.7	e3.0
25	22	11	12	18	7.1	9.2	15	6.7	12	19	e1.8	e1.3
26	224	8.3	10	10	6.3	13	13	4.6	6.2	56	e15	e8.0
27	83	9.7	8.5	10	5.7	12	11	3.6	4.5	29	94	6.1
28	23	21	8.0	11	5.1	7.9	8.7	2.8	2.9	17	105	e4.0
29	12	14	8.4	10	4.6	7.1	7.8	5.8	2.4	11	e15	e2.8
30	7.7	33	7.3	10	---	22	7.6	23	2.2	118	e5.0	e2.4
31	5.8	---	6.1	9.8	---	17	---	7.9	---	68	e3.5	---
TOTAL	430.92	565.8	417.1	350.8	326.4	381.1	898.5	276.0	1202.6	2960.9	383.5	412.8
MEAN	13.9	18.9	13.5	11.3	11.3	12.3	29.9	8.90	40.1	95.5	12.4	13.8
MAX	224	173	52	49	62	50	245	33	838	648	105	103
MIN	.12	2.5	4.9	4.7	3.6	2.9	7.3	2.8	2.2	2.3	1.8	1.3
CFSM	.89	1.21	.86	.73	.72	.79	1.92	.57	2.57	6.12	.79	.88
IN.	1.03	1.35	.99	.84	.78	.91	2.14	.66	2.87	7.06	.91	.98

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1992, BY WATER YEAR (WY)

	8.57	17.4	25.7	18.3	29.2	33.4	25.6	23.8	14.9	19.8	12.6	7.87
MEAN	8.57	17.4	25.7	18.3	29.2	33.4	25.6	23.8	14.9	19.8	12.6	7.87
MAX	53.1	72.0	76.4	49.5	57.1	64.6	46.4	80.1	48.5	95.5	54.1	48.2
(WY)	1987	1986	1991	1975	1975	1978	1972	1981	1978	1992	1979	1989
MIN	1.03	1.44	2.14	1.00	4.67	7.43	3.92	1.87	.39	2.55	1.28	.53
(WY)	1983	1982	1981	1981	1978	1981	1971	1988	1988	1991	1986	1983

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1971 - 1992
ANNUAL TOTAL	6512.82	8606.42	
ANNUAL MEAN	17.8	23.5	19.7
HIGHEST ANNUAL MEAN			27.6
LOWEST ANNUAL MEAN			11.7
HIGHEST DAILY MEAN	352	838	981
LOWEST DAILY MEAN	.10	.12	.05
ANNUAL SEVEN-DAY MINIMUM	.17	.91	.11
INSTANTANEOUS PEAK FLOW		2270	2500
INSTANTANEOUS PEAK STAGE		9.07	9.61
ANNUAL RUNOFF (CFSM)	1.14	1.51	1.26
ANNUAL RUNOFF (INCHES)	15.53	20.52	17.17
10 PERCENT EXCEEDS	44	48	43
50 PERCENT EXCEEDS	7.3	8.1	7.2
90 PERCENT EXCEEDS	.34	2.5	1.4

WABASH RIVER BASIN

03353630 LITTLE BUCK CREEK NEAR SOUTHPORT, IN

LOCATION.--Lat 39°40'11", long 86°04'57", in SW¹/₄SW¹/₄ 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.--5.73 mi².

PERIOD OF RECORD.--October 1989 to current year.

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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	3.7	11	1.9	3.7	1.4	7.6	2.1	1.7	.57	13	1.0
2	.00	3.0	44	1.9	3.1	1.4	6.1	1.9	1.3	3.0	7.1	.84
3	.00	2.0	40	2.4	3.0	1.4	5.3	1.6	1.1	10	4.8	.94
4	.00	1.4	12	2.1	2.9	1.3	13	1.4	2.2	2.2	3.0	.71
5	1.0	1.1	6.8	1.8	2.5	1.3	8.5	1.4	1.5	92	2.3	.57
6	.31	.88	5.3	1.7	2.4	2.0	6.2	1.1	3.0	40	1.8	.61
7	.13	.72	4.9	1.4	2.2	3.2	5.1	1.1	43	15	1.5	.71
8	.07	.64	4.4	1.4	1.8	2.3	4.4	1.0	15	12	1.3	1.5
9	.03	.62	3.5	1.8	1.4	1.8	10	3.5	6.4	309	.91	.91
10	.02	.64	2.7	1.5	1.3	6.1	28	1.8	3.5	187	.74	11
11	.01	.60	2.4	1.3	1.5	4.9	17	1.3	2.2	27	.56	2.5
12	.00	.64	3.5	1.4	1.2	4.5	9.5	2.0	1.5	55	.52	1.5
13	.00	.70	4.7	2.3	1.6	3.4	6.5	2.1	1.4	15	.51	1.0
14	.00	.62	3.7	25	1.7	3.0	5.3	1.2	1.4	9.2	.47	.74
15	.00	.54	2.7	9.8	18	2.4	4.5	1.0	1.9	78	.46	.59
16	.00	.58	2.2	5.1	12	2.0	18	.86	1.3	17	.44	.49
17	.00	.53	2.2	3.5	7.2	2.0	78	.89	.92	92	.41	.41
18	.00	.78	1.6	3.2	14	18	222	1.3	263	22	.39	.41
19	.10	21	1.2	2.1	10	21	53	1.0	27	9.4	.48	.53
20	.20	90	1.2	2.0	7.3	10	30	.75	10	7.7	.50	.36
21	.23	44	2.6	3.2	5.5	7.5	17	.61	5.4	7.6	.35	15
22	.23	17	2.1	4.5	4.7	6.3	11	24	3.2	6.4	.63	7.5
23	.11	7.7	13	12	4.0	4.5	8.3	29	7.3	5.2	.56	2.9
24	.07	3.8	8.2	8.5	3.4	3.7	6.8	16	6.3	10	.54	1.6
25	3.8	2.6	5.1	5.8	3.0	3.7	5.3	6.4	3.0	4.8	.56	1.1
26	92	2.6	3.8	4.5	2.6	4.2	4.3	4.5	1.8	6.7	.67	2.1
27	42	2.8	3.0	4.8	2.3	4.1	3.7	2.9	1.2	5.0	23	3.4
28	9.3	6.9	3.0	5.2	2.1	3.0	3.1	2.0	.81	2.9	22	1.6
29	3.9	5.6	3.1	4.7	1.6	3.0	2.7	1.9	.59	2.1	4.5	.96
30	2.2	27	2.4	4.7	---	9.6	2.6	4.6	.61	104	2.3	.72
31	1.8	---	2.0	4.6	---	9.0	---	2.6	---	50	1.4	---
TOTAL	157.51	250.69	208.3	136.1	128.0	152.0	602.8	123.81	419.53	1207.77	97.70	64.20
MEAN	5.08	8.36	6.72	4.39	4.41	4.90	20.1	3.99	14.0	39.0	3.15	2.14
MAX	92	90	44	25	18	21	222	29	263	309	23	15
MIN	.00	.53	1.2	1.3	1.2	1.3	2.6	.61	.59	.57	.35	.36
CFSM	.89	1.46	1.17	.77	.77	.86	3.51	.70	2.44	6.80	.55	.37
IN.	1.02	1.63	1.35	.88	.83	.99	3.91	.80	2.72	7.84	.63	.42

* Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1992, BY WATER YEAR (WY)

	1990	1991	1992	1990	1991	1992	1990	1991	1992	1990	1991	1992
MEAN	4.18	7.24	14.4	7.30	14.0	14.8	12.6	12.7	5.60	15.5	2.94	1.15
MAX	6.50	8.36	34.3	10.1	23.2	26.9	20.1	30.6	14.0	39.0	4.94	2.14
(WY)	1991	1992	1991	1991	1990	1991	1992	1990	1992	1992	1990	1992
MIN	.96	6.60	2.32	4.39	4.41	4.90	8.03	3.52	.18	.23	.74	.065
(WY)	1990	1990	1990	1992	1992	1992	1990	1991	1991	1991	1991	1991

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1990 - 1992

ANNUAL TOTAL	2613.71	3548.41	9.36
ANNUAL MEAN	7.16	9.70	9.70
HIGHEST ANNUAL MEAN			8.90
LOWEST ANNUAL MEAN			8.90
HIGHEST DAILY MEAN	171	309	418
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		1260	1260
INSTANTANEOUS PEAK STAGE		8.93	8.93
ANNUAL RUNOFF (CFSM)	1.25	1.69	1.63
ANNUAL RUNOFF (INCHES)	16.97	23.04	22.20
10 PERCENT EXCEEDS	15	17	18
50 PERCENT EXCEEDS	2.2	2.6	2.7
90 PERCENT EXCEEDS	.00	.52	.13

03353635 DERBYSHIRE CREEK AT SOUTHPORT, IN

LOCATION.--Lat 39°40'15", long 86°07'21", in NE¹/₄SE¹/₄ 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.--1.79 mi².
 PERIOD OF RECORD.--September 1989 to current year.
 GAGE.--Water-stage recorder. Datum of gage is 746.37 ft above sea level.
 REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	.78	1.9	e.88	e1.1	e.60	2.2	1.2	.47	.82	5.2	.46
2	.15	.42	3.5	e.86	e1.0	e.60	2.0	1.2	.45	2.1	3.8	.50
3	.26	.32	5.9	e.94	e.88	e.58	1.8	.92	.42	2.3	3.2	.48
4	.28	.28	2.5	e.86	e.80	e.58	3.7	.90	.52	1.1	2.4	.43
5	.35	.24	1.7	e.80	e.74	e.58	2.5	.87	.46	6.2	2.0	.56
6	.05	.24	e1.3	e.76	e.70	e.72	2.0	.81	.91	3.6	1.8	.45
7	.05	.23	e1.1	e.76	e.66	e.90	1.8	.75	4.7	2.0	1.5	.46
8	.05	.21	e.94	e.76	e.50	e.82	1.6	.78	1.6	19	1.2	.60
9	.05	.21	e.82	e.84	e.60	e.72	3.1	1.1	.86	100	1.0	.53
10	.07	.20	e.74	e.80	e.56	e1.8	5.1	.81	.66	35	.93	2.3
11	.05	.21	e.70	e.76	e.60	1.3	3.5	.74	.58	5.1	.74	.62
12	.05	.24	e.90	e.80	e.56	1.2	2.5	1.5	.52	16	.67	.51
13	.05	.23	e1.4	e1.5	e.60	1.1	2.0	.92	.51	4.5	.67	.46
14	.06	.20	e1.1	e4.1	e.90	1.1	1.9	.75	1.4	3.8	.61	.44
15	.05	.22	e.90	e2.6	e2.9	.99	1.7	.68	.85	21	.62	.40
16	.06	.21	e.84	e1.9	e2.5	.96	4.5	.64	.57	5.3	.59	.37
17	.05	.20	e.84	e1.4	e2.2	.95	14	.62	.48	26	.58	.35
18	.05	.29	e.78	e1.3	e2.8	3.8	51	.65	64	6.4	.64	.51
19	.05	1.2	e.84	e1.2	e2.3	4.0	11	.58	4.5	3.9	.52	.33
20	.05	12	e.72	e1.1	e1.8	2.0	6.3	.53	2.4	3.4	.46	.33
21	.05	6.3	e.84	e1.2	e1.4	1.7	4.4	.51	1.7	3.3	.45	3.6
22	.05	2.2	e.72	e1.6	e1.3	1.7	3.1	.49	1.4	2.6	.43	.99
23	.05	1.5	e2.8	e2.5	e1.2	1.3	2.4	.66	2.0	2.2	.42	.56
24	.05	1.1	e2.2	e2.1	e1.1	1.2	2.2	.58	1.6	4.6	.40	.49
25	.95	.90	e1.7	e1.4	e.98	1.3	2.0	.52	1.3	3.4	.43	.42
26	8.7	.77	e1.3	e1.2	e.92	1.5	1.7	.50	1.2	3.4	.46	.78
27	3.0	.81	e1.1	e1.2	e.86	1.4	1.6	.46	1.1	2.7	2.7	.84
28	.76	1.2	e1.0	e1.3	e.76	1.2	1.5	.44	1.0	1.9	1.5	.57
29	.41	1.0	e1.1	e1.2	e.68	1.2	1.4	.56	.94	1.8	.66	.46
30	.32	3.5	e.96	e1.2	---	2.7	1.3	.78	.84	29	.53	.43
31	.28	---	e.90	e1.1	---	2.5	---	.54	---	12	.49	---
TOTAL	16.50	37.41	44.04	40.92	33.90	43.00	145.8	22.99	99.94	334.42	37.60	20.23
MEAN	.53	1.25	1.42	1.32	1.17	1.39	4.86	.74	3.33	10.8	1.21	.67
MAX	8.7	12	5.9	4.1	2.9	4.0	51	1.5	64	100	5.2	3.6
MIN	.05	.20	.70	.76	.50	.58	1.3	.44	.42	.82	.40	.33
CFSM	.30	.70	.79	.74	.65	.77	2.72	.41	1.86	6.03	.68	.38
IN.	.34	.78	.92	.85	.70	.89	3.03	.48	2.08	6.95	.78	.42

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1992, BY WATER YEAR (WY)

	1990	1991	1992	1990	1991	1992	1990	1991	1992	1990	1991	1992
MEAN	1.11	1.87	6.58	3.36	6.13	5.66	3.74	4.81	1.67	4.26	1.31	.64
MAX	2.49	2.26	17.0	5.74	13.1	8.25	4.86	11.5	3.33	10.8	2.54	1.21
(WY)	1991	1991	1991	1990	1990	1991	1992	1990	1992	1992	1990	1990
MIN	.30	1.25	1.27	1.32	1.17	1.39	3.05	.74	.28	.26	.17	.052
(WY)	1990	1992	1990	1992	1992	1992	1991	1992	1991	1991	1991	1991

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1990 - 1992

ANNUAL TOTAL	749.36	876.75	
ANNUAL MEAN	2.05	2.40	3.42
HIGHEST ANNUAL MEAN			4.25
LOWEST ANNUAL MEAN			2.40
HIGHEST DAILY MEAN	70	Mar 22	100
LOWEST DAILY MEAN	.03	Sep 14	.05
ANNUAL SEVEN-DAY MINIMUM	.04	Sep 13	.05
INSTANTANEOUS PEAK FLOW			914
INSTANTANEOUS PEAK STAGE			5.14
ANNUAL RUNOFF (CFSM)	1.15	1.34	1.91
ANNUAL RUNOFF (INCHES)	15.57	18.22	25.99
10 PERCENT EXCEEDS	4.1	3.6	6.2
50 PERCENT EXCEEDS	.84	.90	1.0
90 PERCENT EXCEEDS	.05	.28	.23

WABASH RIVER BASIN

03353636 LITTLE BUCK CREEK AT SOUTHPORT, IN

LOCATION.--Lat 39°39'54", long 86°08'11", in SW¹/₄/SW¹/₄, 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.--12.3 mi².
 PERIOD OF RECORD.--October 1989 to current year.
 GAGE.--Water-stage recorder. Datum of gage is 725.50 ft above sea level.
 REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.16	11	21	4.0	6.1	e3.3	14	6.0	3.3	3.4	30	2.4
2	.17	7.1	53	4.0	5.1	e3.1	11	5.4	2.6	13	20	2.2
3	.19	4.0	59	5.1	4.9	e3.0	9.9	4.7	2.1	25	17	2.3
4	.24	2.6	25	4.5	4.6	e3.0	30	4.2	4.0	10	12	2.1
5	4.8	1.8	14	3.8	4.1	e3.0	18	4.2	2.8	86	9.6	2.3
6	.56	1.6	11	3.7	3.9	e4.9	12	3.6	6.5	53	7.8	1.9
7	.35	1.4	8.6	3.3	3.8	e6.6	10	3.3	61	23	6.8	2.1
8	.25	1.3	7.6	3.2	3.3	e5.2	8.8	3.2	27	40	6.0	4.5
9	.27	1.3	6.7	3.7	e2.8	e3.7	24	9.5	11	547	4.9	3.1
10	.36	1.2	5.7	3.4	2.4	e14	52	5.3	5.8	307	4.1	20
11	.20	1.1	4.9	3.0	2.6	e13	36	3.9	3.6	45	3.4	7.7
12	.20	1.6	8.1	3.1	2.3	e11	22	10	2.6	86	2.9	4.1
13	.20	1.7	10	5.6	2.8	e8.0	13	6.7	2.3	30	2.8	2.7
14	.29	1.3	8.0	41	3.3	e6.4	10	3.9	4.7	25	2.5	2.2
15	.23	1.8	5.7	e19	28	e5.2	8.9	3.3	5.5	143	2.3	1.9
16	.20	1.6	4.6	e11	20	e4.6	39	2.8	2.2	36	2.3	1.5
17	.19	1.3	4.6	e8.7	12	e4.6	142	3.0	1.7	195	2.1	1.3
18	.20	2.1	3.6	e6.9	25	e28	367	3.9	483	44	2.0	2.1
19	.28	29	e2.9	e5.5	18	e40	95	3.1	44	23	1.8	1.3
20	.28	135	2.7	e4.7	13	e20	55	2.4	22	21	1.8	1.2
21	.30	63	5.8	6.0	10	e12	38	2.0	17	20	1.6	e22
22	.30	29	4.6	8.0	9.1	e8.8	26	16	11	18	1.6	17
23	.44	17	25	20	7.6	e7.6	20	32	18	17	1.8	6.6
24	.46	11	16	16	6.6	6.2	16	24	18	26	1.7	3.7
25	9.6	6.9	11	10	6.1	6.4	13	10	11	17	1.6	2.5
26	134	5.7	8.1	8.4	5.5	7.6	11	7.1	7.9	20	2.1	5.8
27	59	6.1	6.5	8.4	4.9	7.4	10	4.9	5.7	17	36	9.4
28	16	13	6.2	8.9	4.3	5.4	8.5	3.5	4.6	11	36	4.5
29	7.2	9.7	6.7	8.1	3.6	5.3	7.5	4.1	3.7	8.9	11	2.6
30	4.8	42	5.6	7.8	---	20	7.1	9.1	3.4	186	5.4	2.1
31	4.2	---	4.4	7.5	---	18	---	5.1	---	92	3.3	---
TOTAL	245.92	413.2	366.6	256.3	225.7	295.3	1134.7	210.2	798.0	2188.3	244.2	145.1
MEAN	7.93	13.8	11.8	8.27	7.78	9.53	37.8	6.78	26.6	70.6	7.88	4.84
MAX	134	135	59	41	28	40	367	32	483	547	36	22
MIN	.16	1.1	2.7	3.0	2.3	3.0	7.1	2.0	1.7	3.4	1.6	1.2
CFSM	.64	1.12	.96	.67	.63	.77	3.08	.55	2.16	5.74	.64	.39
IN.	.74	1.25	1.11	.78	.68	.89	3.43	.64	2.41	6.62	.74	.44

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1992, BY WATER YEAR (WY)

	1990	1991	1990	1991	1992	1990	1991	1992	1990	1991	1992	
MEAN	8.47	13.2	29.8	13.0	28.6	30.3	25.4	25.7	11.3	28.5	7.40	3.24
MAX	14.0	14.2	72.5	16.8	48.1	53.8	37.8	58.3	26.6	70.6	12.9	4.84
(WY)	1991	1990	1991	1991	1990	1991	1992	1990	1992	1992	1990	1992
MIN	3.48	11.6	4.99	8.27	7.78	9.53	16.6	6.78	1.68	1.55	1.39	.36
(WY)	1990	1991	1990	1992	1992	1992	1990	1992	1991	1991	1991	1991

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1990 - 1992
ANNUAL TOTAL	5244.47	6523.52	
ANNUAL MEAN	14.4	17.8	18.7
HIGHEST ANNUAL MEAN			19.9
LOWEST ANNUAL MEAN			17.8
HIGHEST DAILY MEAN	326	547	1110
LOWEST DAILY MEAN	.13	.16	.13
ANNUAL SEVEN-DAY MINIMUM	.16	.22	.16
INSTANTANEOUS PEAK FLOW		1630	2120
INSTANTANEOUS PEAK STAGE		9.14	9.14
ANNUAL RUNOFF (CFSM)	1.17	1.45	1.52
ANNUAL RUNOFF (INCHES)	15.86	19.73	20.68
10 PERCENT EXCEEDS	32	31	36
50 PERCENT EXCEEDS	5.7	5.9	6.7
90 PERCENT EXCEEDS	.25	1.6	.84

03353637 LITTLE BUCK CREEK NEAR INDIANAPOLIS, IN

LOCATION.--Lat 39°40'00", long 86°11'48", in SW¹/₄/SW¹/₄, 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.--16.6 mi².
 PERIOD OF RECORD.--October 1989 to current year.
 GAGE.--Water-stage recorder. Datum of gage is 666.20 above sea level.
 REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	12	22	6.0	8.3	5.7	17	9.7	5.6	11	43	4.2
2	.00	8.9	50	5.9	7.3	5.7	15	8.7	4.3	19	27	3.8
3	.00	5.3	83	6.9	7.1	5.6	13	7.7	3.6	44	21	3.9
4	.00	4.0	e29	6.5	6.9	5.6	32	6.9	5.5	20	17	3.4
5	5.5	3.2	e17	5.8	6.4	5.6	20	6.8	4.6	62	15	4.3
6	.22	2.8	13	5.5	6.1	7.1	15	6.0	11	74	13	3.7
7	.00	2.5	11	5.3	6.0	8.6	14	5.5	68	31	12	4.4
8	.00	2.2	10	5.2	5.6	8.7	12	5.3	38	24	11	5.5
9	.00	2.1	8.9	5.6	e4.7	9.3	25	12	15	590	9.3	3.9
10	.00	1.9	7.5	5.3	4.6	21	63	7.6	8.3	346	8.3	25
11	.00	1.9	6.7	4.9	4.7	20	46	5.6	5.6	63	7.3	7.3
12	.00	2.7	9.5	5.0	4.4	19	25	15	4.1	112	6.4	4.6
13	.00	2.7	12	6.2	4.9	16	17	9.4	3.6	47	6.1	3.7
14	.00	2.4	9.7	41	5.1	14	15	5.8	3.1	36	6.0	3.2
15	.00	2.7	7.4	e21	28	13	13	5.0	8.9	185	5.7	2.8
16	.00	2.7	6.3	e15	22	11	34	4.3	3.5	56	5.6	2.5
17	.00	2.0	6.1	e11	15	11	184	4.6	2.7	211	5.3	2.2
18	.00	3.0	5.5	e10	25	38	492	5.5	526	67	5.1	3.1
19	.00	27	e4.8	e9.0	20	50	142	4.4	71	35	4.5	2.3
20	.00	171	4.5	e8.0	16	21	92	3.6	40	30	4.0	2.1
21	.00	91	7.3	e11	13	16	70	3.1	29	28	3.5	24
22	.00	32	6.3	14	12	13	44	8.9	24	24	3.3	16
23	.00	19	22	19	11	11	32	34	29	22	3.5	6.8
24	.00	14	17	18	9.4	9.9	27	33	32	44	3.3	4.5
25	.00	9.4	12	12	8.8	10	21	14	23	24	3.4	3.5
26	180	7.5	10	10	8.1	11	18	9.8	19	31	4.0	5.9
27	83	8.1	8.5	10	7.5	11	16	7.9	15	24	33	8.5
28	19	13	7.9	11	7.1	8.7	14	5.8	14	18	43	4.8
29	9.5	11	8.6	9.9	6.2	8.4	13	7.4	13	15	11	3.4
30	6.1	47	7.4	9.6	---	21	11	14	11	234	6.7	2.9
31	5.3	---	6.4	9.4	---	20	---	8.5	---	129	5.1	---
TOTAL	308.62	515.0	437.3	323.0	291.2	435.9	1552	285.8	1041.4	2656	352.4	176.2
MEAN	9.96	17.2	14.1	10.4	10.0	14.1	51.7	9.22	34.7	85.7	11.4	5.87
MAX	180	171	83	41	28	50	492	34	526	590	43	25
MIN	.00	1.9	4.5	4.9	4.4	5.6	11	3.1	2.7	11	3.3	2.1
CFSM	.60	1.03	.85	.63	.60	.85	3.12	.56	2.09	5.16	.68	.35
IN.	.69	1.15	.98	.72	.65	.98	3.48	.64	2.33	5.95	.79	.39

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1992, BY WATER YEAR (WY)

	1990	1991	1992	1990	1991	1992	1990	1991	1992	1990	1991	1992
MEAN	12.2	18.3	40.6	19.3	36.1	38.8	33.2	31.7	16.8	35.6	10.3	4.17
MAX	20.6	18.9	99.4	31.6	54.5	68.0	51.7	66.9	34.7	85.7	18.3	6.51
(WY)	1991	1990	1991	1991	1990	1991	1992	1990	1992	1992	1990	1990
MIN	6.15	17.2	8.16	10.4	10.0	14.1	22.5	9.22	4.99	2.67	1.35	.13
(WY)	1990	1992	1990	1992	1992	1992	1990	1992	1991	1991	1991	1991

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1990 - 1992
ANNUAL TOTAL	7229.67	8374.82	
ANNUAL MEAN	19.8	22.9	24.8
HIGHEST ANNUAL MEAN			28.1
LOWEST ANNUAL MEAN			22.9
HIGHEST DAILY MEAN	388	590	1390
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		1440	2300
INSTANTANEOUS PEAK STAGE		8.53	9.10
ANNUAL RUNOFF (CFSM)	1.19	1.38	1.49
ANNUAL RUNOFF (INCHES)	16.20	18.77	20.27
10 PERCENT EXCEEDS	43	42	47
50 PERCENT EXCEEDS	8.7	8.9	10
90 PERCENT EXCEEDS	.00	2.7	2.0

WABASH RIVER BASIN

03353700 WEST FORK WHITE LICK CREEK AT DANVILLE, IN

LOCATION.--Lat 39°45'36", long 86°30'47", in NW¹/₄NE¹/₄ sec.10, T.15 N., R.1 W., Hendricks County, Hydrologic Unit 05120201, on downstream side of bridge on U.S. Highway 36, 0.5 mi upstream from small left-bank tributary, and 7 mi west of Avon.

DRAINAGE AREA.--28.8 mi².

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.

REMARKS.--Records good except for estimated daily discharges, which are poor. Low flow affected by releases from Danville Filtration Plant.

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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	e.38	14	7.8	16	9.7	16	9.1	2.8	.58	55	.38
2	.01	e.33	14	8.7	14	9.8	15	8.6	2.8	1.3	25	.38
3	.03	e.28	28	10	15	9.3	15	7.4	2.6	2.1	15	.49
4	.04	e.24	e17	9.6	16	9.0	50	6.8	2.8	1.2	8.8	.37
5	.75	e.22	e12	8.7	13	9.0	37	6.3	2.8	12	6.0	.33
6	.11	.21	9.8	8.7	12	10	27	5.7	2.6	3.7	4.7	.99
7	.07	.22	8.9	8.0	11	10	23	5.3	2.7	2.5	4.0	.88
8	.07	.21	8.3	8.3	9.3	8.9	19	5.7	2.5	12	4.2	2.5
9	.09	.20	7.7	9.2	8.4	8.5	26	5.8	2.0	42	3.3	1.4
10	.22	.21	6.8	8.9	8.3	15	32	4.9	1.8	19	2.8	6.2
11	.13	.21	6.5	8.3	8.1	13	46	4.6	1.6	5.4	2.5	2.1
12	.12	.25	11	8.7	7.5	12	86	6.7	1.5	39	2.0	1.2
13	.11	.23	34	10	8.4	11	44	5.7	1.5	10	1.7	.74
14	.30	.22	23	27	8.3	12	33	4.6	1.6	4.4	1.5	.52
15	.20	.31	15	e21	53	10	26	4.5	1.7	101	1.4	.41
16	.16	.27	12	e15	43	9.3	81	4.1	1.7	39	1.2	.35
17	.16	.25	11	e12	28	11	738	4.0	1.9	53	1.3	.36
18	.16	1.1	e8.4	e11	82	26	471	4.1	5.8	33	1.0	.46
19	.19	1.6	e7.1	e10	54	64	281	4.0	1.6	11	.91	.49
20	.19	45	6.7	e10	34	32	306	3.7	1.6	12	.69	.55
21	.22	66	8.3	e11	27	23	141	3.6	1.4	14	.50	2.6
22	.36	23	7.6	12	23	22	77	4.3	1.1	8.0	.44	2.5
23	.36	13	22	40	20	17	50	3.8	1.4	6.0	.51	2.2
24	.32	8.2	23	e28	18	14	37	3.7	1.7	57	.46	1.5
25	2.9	6.3	16	e17	16	16	26	3.4	1.5	32	.47	1.0
26	8.5	5.2	13	12	15	17	19	3.5	1.2	134	.80	1.6
27	4.6	5.9	11	14	13	17	16	3.3	.88	68	3.8	3.7
28	.81	8.8	10	16	13	14	13	3.0	.69	27	1.9	5.1
29	.48	10	11	17	11	15	12	3.3	.61	14	.95	3.1
30	.35	21	8.9	19	---	16	11	3.8	.59	101	.61	2.2
31	.28	---	7.8	21	---	14	---	3.2	---	121	.45	---
TOTAL	22.30	219.34	399.8	427.9	605.3	484.5	2774	150.5	56.97	986.18	153.89	46.60
MEAN	.72	7.31	12.9	13.8	20.9	15.6	92.5	4.85	1.90	31.8	4.96	1.55
MAX	8.5	66	34	40	82	64	738	9.1	5.8	134	55	6.2
MIN	.01	.20	6.5	7.8	7.5	8.5	11	3.0	.59	.58	.44	.33
CFSM	.02	.25	.45	.48	.72	.54	3.21	.17	.07	1.10	.17	.05
IN.	.03	.28	.52	.55	.78	.63	3.58	.19	.07	1.27	.20	.06

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 1992, BY WATER YEAR (WY)

	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992						
MEAN	9.46	24.3	42.2	35.5	50.5	62.2	51.8	35.6	16.8	19.6	8.46	5.61	19.6	8.46	5.61	19.6	8.46	5.61	19.6	8.46	5.61	19.6	8.46	5.61	19.6	8.46	5.61	19.6	8.46	5.61	19.6	8.46	5.61	19.6	8.46	5.61				
MAX	82.0	156	154	131	151	145	119	130	75.9	134	69.4	109	134	69.4	109	134	69.4	109	134	69.4	109	134	69.4	109	134	69.4	109	134	69.4	109	134	69.4	109	134	69.4	109	134	69.4	109	
(WY)	1987	1986	1991	1974	1990	1978	1964	1981	1974	1979	1979	1989	1974	1979	1979	1989	1974	1979	1979	1989	1974	1979	1979	1989	1974	1979	1979	1989	1974	1979	1979	1989	1974	1979	1979	1989	1974	1979	1979	1989
MIN	.000	.053	.035	.062	2.82	11.2	9.14	3.87	.51	.14	.026	.003	.14	.026	.003	.14	.026	.003	.14	.026	.003	.14	.026	.003	.14	.026	.003	.14	.026	.003	.14	.026	.003	.14	.026	.003	.14	.026	.003	
(WY)	1965	1965	1964	1977	1964	1981	1971	1976	1988	1991	1964	1963	1965	1965	1964	1963	1965	1965	1964	1963	1965	1965	1964	1963	1965	1965	1964	1963	1965	1965	1964	1963	1965	1965	1964	1963	1965	1965	1964	1963

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1959 - 1992

ANNUAL TOTAL	9067.55	6327.28	
ANNUAL MEAN	24.8	17.3	
HIGHEST ANNUAL MEAN			55.7
LOWEST ANNUAL MEAN			6.35
HIGHEST DAILY MEAN	347	Mar 13	738
LOWEST DAILY MEAN	.00	Jul 31	.01
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 30	.12
INSTANTANEOUS PEAK FLOW			1710
INSTANTANEOUS PEAK STAGE			8.06
ANNUAL RUNOFF (CFSM)	.86		.60
ANNUAL RUNOFF (INCHES)	11.71		8.17
10 PERCENT EXCEEDS	82		33
50 PERCENT EXCEEDS	7.3		7.6
90 PERCENT EXCEEDS	.02		.32

03353800 WHITE LICK CREEK AT MOORESVILLE, IN

LOCATION.--Lat 39°36'28", long 86°22'56", in NE¹/₄SE¹/₄, 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 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	26	177	61	137	89	167	194	56	23	627	31
2	1.9	33	155	59	115	81	159	174	49	43	367	30
3	2.5	26	335	65	106	78	149	157	45	237	268	29
4	3.3	22	210	66	108	74	319	140	45	71	210	31
5	8.9	20	131	61	104	72	355	134	45	407	167	32
6	9.8	18	112	57	94	80	247	124	60	648	138	44
7	8.0	18	93	55	90	99	205	110	90	278	117	42
8	5.8	18	84	53	83	87	179	103	64	193	108	36
9	4.3	17	75	57	69	79	195	113	45	820	101	38
10	4.0	16	66	57	61	87	278	114	37	580	90	109
11	3.6	16	59	52	60	124	280	96	33	251	80	75
12	3.5	15	61	50	59	114	337	142	30	438	71	47
13	2.3	15	115	55	59	104	346	199	29	355	64	38
14	1.4	14	154	e143	63	98	299	122	28	170	56	33
15	1.6	13	120	e125	194	92	275	101	26	749	51	30
16	2.1	15	92	e100	381	81	288	91	34	417	55	34
17	3.2	15	79	e88	245	77	3260	80	37	568	46	28
18	3.3	15	68	e78	421	107	2750	80	288	517	43	27
19	3.4	26	53	e74	509	414	1750	76	120	251	41	26
20	3.5	367	53	e73	335	335	2040	69	80	183	38	26
21	4.1	685	60	e74	262	241	1140	62	56	205	36	98
22	4.0	324	63	85	217	201	788	58	42	235	34	231
23	3.8	184	104	163	190	176	572	66	76	211	34	129
24	3.8	123	180	e230	170	142	464	159	113	1080	32	76
25	7.8	86	149	e170	150	127	384	167	65	497	32	55
26	308	65	114	e140	136	142	327	109	53	794	35	51
27	308	57	99	125	125	157	290	84	38	656	46	81
28	112	65	85	131	113	143	259	70	33	354	80	79
29	60	82	82	130	105	124	233	63	27	230	48	68
30	38	148	76	128	---	166	219	80	25	981	38	53
31	28	---	67	136	---	193	---	70	---	1580	33	---
TOTAL	955.4	2544	3371	2941	4761	4184	18554	3407	1769	14022	3186	1707
MEAN	30.8	84.8	109	94.9	164	135	618	110	59.0	452	103	56.9
MAX	308	685	335	230	509	414	3260	199	288	1580	627	231
MIN	1.4	13	53	50	59	72	149	58	25	23	32	26
CFSM	.15	.40	.51	.45	.77	.64	2.92	.52	.28	2.13	.48	.27
IN.	.17	.45	.59	.52	.84	.73	3.26	.60	.31	2.46	.56	.30

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 1992, BY WATER YEAR (WY)

	70.2	165	288	248	344	444	382	275	144	149	82.1	55.0
MEAN	70.2	165	288	248	344	444	382	275	144	149	82.1	55.0
MAX	547	920	975	845	942	1154	1327	997	550	764	567	712
(WY)	1987	1973	1991	1969	1971	1963	1964	1981	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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1957 - 1992

ANNUAL TOTAL	67279.8	61401.4	
ANNUAL MEAN	184	168	221
HIGHEST ANNUAL MEAN			372
LOWEST ANNUAL MEAN			51.1
HIGHEST DAILY MEAN	2820	Mar 13	3260
LOWEST DAILY MEAN	1.4	Oct 14	1.4
ANNUAL SEVEN-DAY MINIMUM	2.1	Sep 15	2.5
INSTANTANEOUS PEAK FLOW			6560
INSTANTANEOUS PEAK STAGE			17.66
ANNUAL RUNOFF (CFSM)	.87		.79
ANNUAL RUNOFF (INCHES)	11.81		10.77
10 PERCENT EXCEEDS	458		340
50 PERCENT EXCEEDS	86		83
90 PERCENT EXCEEDS	3.9		18

WABASH RIVER BASIN

03354000 WHITE RIVER NEAR CENTERTON, IN
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSIS: October 1986 to current year.

WATER TEMPERATURE: September 1953 to April 1956, October 1966 to September 1967, May 1970 to September 1972, October 1977 to July 1980, October 1982 to June 1985.

SEDIMENT DISCHARGE: March 1965 to September 1977, October 1986 to current year (partial-record station).

EXTREMES FOR PERIOD OF RECORD.--Water temperature: Maximum, 33 °C July 3, 1970; minimum, -0.5 °C, several days during winters.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM) (90095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND-ARD UNITS) (00403)	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, (PER-CENT SATUR-ATION) (00301)
OCT 29...	1430	1720	727	707	7.8	8.2	26.0	18.0	750	7.9	85
JAN 07...	1330	851	997	1020	8.1	7.8	2.5	6.5	754	11.3	94
MAR 03...	1315	1180	871	898	8.1	8.0	22.5	12.5	750	12.1	115
APR 28...	1400	3130	711	735	7.2	8.0	16.0	13.5	755	10.0	97
JUL 10...	1230	4560	552	532	7.6	7.8	31.0	23.5	748	6.6	79
SEP 02...	1250	1090	815	837	8.0	8.1	27.0	22.0	752	10.7	125

DATE	TUR-BID-ITY (NTU) (00076)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	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)	ALKA-LINITY WAT DIS FLD (MG/L) (39036)	ALKA-LINITY WAT DIS TOT IT FLD (MG/L AS CACO3) (39086)
OCT 29...	3.0	3600	440	350	170	88	32	17	2.7	180	183
JAN 07...	5.2	3100	390	360	100	96	30	78	4.8	260	264
MAR 03...	3.0	67	K5	340	83	88	30	57	4.1	260	260
APR 28...	20	27	26	300	79	80	25	34	2.6	220	224
JUL 10...	120	60000	28000	200	52	56	15	29	3.4	150	150
SEP 02...	4.3	1400	--	300	62	78	25	62	4.6	230	236

DATE	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	BICAR-BONATE WATER DIS IT (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT (MG/L AS CO3) (00452)	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)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
OCT 29...	298	223	0	51	30	0.20	7.2	399	346	1850	0.020
JAN 07...	275	322	0	130	100	0.40	3.9	672	615	1540	0.060
MAR 03...	257	317	0	92	79	0.30	1.9	521	526	1650	0.090
APR 28...	223	273	0	72	54	0.20	7.9	425	434	3590	0.100
JUL 10...	141	183	0	51	43	0.20	6.6	347	306	4270	0.100
SEP 02...	230	288	0	99	72	0.50	4.8	491	499	1450	0.020

WABASH RIVER BASIN

03354000 WHITE RIVER NEAR CENTERTON, IN --Continued
(National stream-quality accounting network station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	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)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
OCT 29...	1.50	0.130	0.120	1.1	0.480	0.290	0.240	10	90	<3	7
JAN 07...	2.60	0.230	0.220	1.0	0.440	0.360	0.340	<10	68	<3	18
MAR 03...	3.70	0.270	0.270	1.3	0.500	0.370	0.340	--	--	--	--
APR 28...	5.00	0.180	0.180	0.70	0.360	0.360	0.310	10	64	<3	5
JUL 10...	2.50	0.080	0.090	1.8	0.760	0.210	0.190	30	47	<3	44
SEP 02...	2.30	0.020	0.040	0.70	0.460	0.420	0.380	--	--	--	--

DATE	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. & FINER THAN .062 MM (70331)
OCT 29...	7	11	20	<1	<1	<1.0	340	<6	43	200	67
JAN 07...	8	48	<10	7	1	<1.0	340	<6	6	14	36
MAR 03...	--	--	--	--	--	--	--	--	10	32	34
APR 28...	<4	31	10	4	1	<1.0	240	<6	58	490	71
JUL 10...	<4	2	<10	3	<1	<1.0	150	<6	392	4830	82
SEP 02...	--	--	--	--	--	--	--	--	69	203	78

WABASH RIVER BASIN

03357000 WHITE RIVER AT SPENCER, IN

LOCATION.--Lat 39°16'49", long 86°45'42", in NE¹/₄NE¹/₄, sec.29, T.10 N., R. 3 W., Owen County, Hydrologic Unit 05120202, on right bank at downstream 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.--2,980 mi².

PERIOD OF RECORD.--July 1925 to September 1971 (discharge), October 1971 to current year (gage heights only).

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, 19.51 ft April 20; minimum gage height, 2.20 ft Oct. 3-4; 20-22.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.21	3.53	4.79	3.77	4.35	4.25	5.79	6.12	3.88	4.38	13.31	4.34
2	2.22	3.57	4.97	3.69	4.41	4.10	5.65	6.02	3.86	4.87	13.35	4.04
3	2.20	3.32	6.21	3.70	4.47	4.00	5.47	5.80	3.74	6.53	11.11	3.86
4	2.27	3.13	5.61	3.69	4.40	3.91	5.42	5.63	3.63	5.07	8.67	3.73
5	2.39	2.99	5.36	3.61	4.38	3.84	5.89	5.28	3.70	5.11	7.58	3.68
6	2.84	2.89	5.21	3.58	4.50	3.84	5.44	5.06	3.59	10.80	6.77	3.88
7	2.56	2.83	4.79	3.51	4.52	3.95	5.16	4.88	4.74	7.67	6.26	3.75
8	2.45	2.75	4.49	3.51	4.39	4.06	4.96	4.75	4.46	6.90	5.96	3.76
9	2.39	2.72	4.27	3.52	4.22	4.03	4.94	4.64	3.90	8.38	5.64	4.26
10	2.35	2.69	4.08	3.52	4.05	4.12	5.47	4.88	3.64	7.63	5.34	4.28
11	2.37	2.65	3.94	3.46	3.93	4.43	5.59	4.63	3.50	6.63	5.08	5.00
12	2.36	2.65	3.89	3.44	3.83	4.44	5.29	4.75	3.36	6.61	4.81	5.32
13	2.30	2.64	4.13	3.49	3.78	4.40	5.23	5.38	3.27	8.05	4.61	4.94
14	2.28	2.59	4.16	4.35	3.79	4.32	4.94	4.83	3.32	9.69	4.46	4.38
15	2.27	2.59	4.15	5.05	4.36	4.19	5.04	4.59	3.24	13.22	4.30	4.05
16	2.28	2.58	4.12	4.81	5.71	4.09	8.88	4.38	3.19	14.68	4.22	3.80
17	2.24	2.56	4.04	5.04	5.71	3.98	13.11	4.34	3.14	16.67	4.10	3.63
18	2.23	2.56	3.87	4.71	6.75	4.40	17.60	4.30	6.83	17.44	4.01	3.55
19	2.21	2.90	3.73	4.39	7.06	6.62	19.40	4.26	11.24	16.66	3.91	3.57
20	2.20	6.74	3.69	4.17	6.63	6.53	19.27	4.15	12.96	15.37	3.83	3.43
21	2.21	8.41	3.62	4.15	6.42	6.71	18.80	4.05	14.55	12.24	3.77	3.44
22	2.22	6.46	3.69	4.19	6.06	6.35	17.53	3.86	16.04	10.70	3.68	6.77
23	2.27	6.01	4.05	4.43	5.65	5.88	13.76	3.98	10.29	9.67	3.58	7.78
24	2.36	5.43	4.66	4.80	5.35	5.45	10.94	4.66	8.11	16.14	3.52	6.72
25	2.52	4.83	4.49	4.93	5.09	5.20	9.55	4.83	7.24	16.12	3.54	5.76
26	4.79	4.45	4.31	5.39	4.87	5.14	8.56	4.44	6.61	15.30	3.52	5.23
27	7.46	4.19	4.24	5.07	4.70	5.08	7.86	4.12	5.94	15.88	3.98	5.05
28	5.69	4.09	4.10	4.79	4.54	4.98	7.31	3.98	5.36	10.90	5.98	4.95
29	4.88	4.14	4.00	4.61	4.38	4.85	6.87	3.85	4.93	9.07	5.40	4.82
30	4.31	4.29	3.97	4.48	---	5.59	6.47	3.94	4.62	9.76	5.39	4.59
31	3.82	---	3.88	4.40	---	6.24	---	4.02	---	14.39	4.80	---
MEAN	2.88	3.77	4.34	4.20	4.91	4.81	8.87	4.66	5.90	10.73	5.63	4.55
MAX	7.46	8.41	6.21	5.39	7.06	6.71	19.40	6.12	16.04	17.44	13.35	7.78
MIN	2.20	2.56	3.62	3.44	3.78	3.84	4.94	3.85	3.14	4.38	3.52	3.43

CAL YR 1991 MEAN 5.93 MAX 23.43 MIN 2.20
WTR YR 1992 MEAN 5.43 MAX 19.40 MIN 2.20

03357350 PLUM CREEK NEAR BAINBRIDGE, IN

LOCATION.--Lat 39°45'42", long 86°43'46", in SW¹/₄, SE¹/₄, 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.04	.54	.69	2.0	1.7	3.8	1.7	.41	.17	4.5	.03
2	.00	.04	.67	1.2	1.9	1.6	3.7	1.5	.37	.21	2.2	.03
3	.00	.04	1.7	1.8	1.9	1.5	3.9	1.1	.36	.95	1.3	.04
4	.00	.04	.78	1.6	1.9	1.5	7.9	1.1	.41	.20	.68	.04
5	.00	.04	.60	1.4	1.6	1.4	5.6	1.0	.39	.23	.40	.03
6	.00	.04	.57	1.3	1.6	1.5	4.4	.90	.32	.36	.28	18
7	.00	.04	.55	1.1	1.5	1.5	3.7	.84	.37	.29	.24	7.8
8	.00	.03	.46	1.2	1.3	1.4	3.0	.87	.36	.81	.24	15
9	.00	.03	.41	1.4	1.0	1.5	4.5	.85	.29	5.7	.15	4.8
10	.00	.04	.35	1.2	1.1	2.2	7.1	.72	.27	.90	.12	15
11	.00	.03	.35	1.0	1.2	1.8	8.8	.65	.24	.49	.09	5.8
12	.00	.04	1.3	1.1	1.0	2.0	7.8	1.2	.23	.84	.06	2.5
13	.00	.04	5.0	1.3	1.3	2.0	5.4	.91	.23	.41	.05	1.4
14	.00	.04	2.6	2.6	1.2	2.0	4.5	.66	.22	.30	.04	.83
15	.00	.04	1.6	e.2.0	6.7	1.8	3.9	.64	.23	8.9	.04	.64
16	.00	.04	1.1	e1.5	4.2	1.8	14	.58	.22	3.1	.04	.61
17	.00	.04	1.1	e1.2	3.4	1.9	61	.55	.22	11	.04	.57
18	.00	.06	.62	e1.0	15	6.6	67	.56	.22	4.6	.03	.57
19	.00	.07	.43	e.90	6.9	7.6	23	.53	.21	1.6	.03	.47
20	.00	6.7	.49	e.98	5.3	4.7	22	.49	.22	1.1	.03	.43
21	.00	4.3	.88	e1.2	4.2	3.7	13	.48	.21	1.2	.03	14
22	.00	1.3	.78	2.0	3.6	3.6	8.8	.53	.20	.88	.03	8.4
23	.00	.65	4.1	9.1	3.1	2.8	7.1	2.1	.24	.87	.03	4.0
24	.00	.41	3.1	4.6	2.7	2.6	6.1	1.4	.21	1.4	.03	1.8
25	.00	.30	2.1	3.4	2.4	3.2	5.1	.68	.26	1.3	.03	1.1
26	2.6	.23	1.6	2.4	2.3	3.8	4.3	.59	.22	4.2	.07	4.0
27	2.5	.30	1.3	2.5	2.1	4.0	3.7	.51	.19	1.9	4.2	11
28	.06	.58	1.3	2.7	2.0	3.1	3.0	.46	.18	.89	.67	5.6
29	.05	.54	1.3	2.5	1.7	3.1	2.7	.48	.18	.68	.16	2.7
30	.05	.72	.93	2.6	---	3.5	2.3	.62	.18	10	.06	1.8
31	.04	---	.72	2.5	---	3.3	---	.50	---	9.6	.04	---
TOTAL	5.30	16.81	39.33	61.97	86.1	84.7	321.1	25.70	7.86	75.08	15.91	128.99
MEAN	.17	.56	1.27	2.00	2.97	2.73	10.7	.83	.26	2.42	.51	4.30
MAX	2.6	6.7	5.0	9.1	15	7.6	67	2.1	.41	11	4.5	18
MIN	.00	.03	.35	.69	1.0	1.4	2.3	.46	.18	.17	.03	.03
CFSM	.06	.19	.42	.67	.99	.91	3.57	.28	.09	.81	.17	1.43
IN.	.07	.21	.49	.77	1.07	1.05	3.98	.32	.10	.93	.20	1.60

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1992, BY WATER YEAR (WY)

	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	1.24	3.49	5.54	3.46	6.21	7.07	5.36	3.91	1.93	2.49	1.41	1.09												
MAX	5.80	20.6	18.4	13.5	17.1	19.1	10.7	16.1	6.53	12.9	7.90	12.8												
(WY)	1969	1986	1991	1974	1971	1978	1992	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 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1969 - 1992			
ANNUAL TOTAL	968.64	868.85				
ANNUAL MEAN	2.65	2.37	3.58			
HIGHEST ANNUAL MEAN			5.71			
LOWEST ANNUAL MEAN			1.60			
HIGHEST DAILY MEAN	46	Mar 13	67	Apr 18	218	Nov 19 1985
LOWEST DAILY MEAN	.00	Jul 20	.00	Oct 1	.00	Aug 18 1970
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 20	.00	Oct 1	.00	Aug 26 1970
INSTANTANEOUS PEAK FLOW			191	Apr 17	940	Sep 14 1989
INSTANTANEOUS PEAK STAGE			3.48	Apr 17	6.50	Sep 14 1989
ANNUAL RUNOFF (CFSM)	.88		.79		1.19	
ANNUAL RUNOFF (INCHES)	12.01		10.77		16.21	
10 PERCENT EXCEEDS	7.5		5.3		7.4	
50 PERCENT EXCEEDS	.55		.94		.99	
90 PERCENT EXCEEDS	.00		.03		.02	

WABASH RIVER BASIN

03359000 MILL CREEK NEAR MANHATTAN, IN

LOCATION.--Lat 39°29'16", long 86°55'30", in SE¹/₄SE¹/₄ 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 mi².

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 Cagles Mill Lake since July 1953. Daily discharge computed from relation between discharge, head, and gate openings for Cagles Mill Lake beginning Oct. 1, 1974.

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

AVERAGE DISCHARGE.--54 years (1938 to current year), 315 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,960 ft³/s, Jan. 5, 1950, gage height, 18.38 ft; no flow Aug. 7, 1953.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,660 ft³/s Aug. 8; minimum daily, 19 ft³/s Oct. 1-26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	88	325	133	133	108	415	1480	90	33	113	50
2	19	87	325	116	133	120	487	1460	77	33	160	50
3	19	87	331	98	127	108	617	1450	69	122	166	44
4	19	75	551	98	120	99	242	1430	69	303	531	33
5	19	67	564	99	108	99	76	1410	69	421	1140	33
6	19	61	99	99	95	99	140	1390	69	421	1380	33
7	19	48	117	99	82	99	247	1370	70	422	1600	33
8	19	48	150	99	82	143	271	1350	334	422	1660	33
9	19	48	150	99	82	184	270	1330	359	422	1640	33
10	19	48	150	99	82	131	270	1310	92	421	1610	44
11	19	48	149	99	82	102	351	1290	69	421	1590	50
12	19	54	149	99	82	102	413	1270	56	420	1560	50
13	19	66	149	116	82	102	412	1100	50	626	662	50
14	19	66	150	149	82	102	338	490	50	306	103	50
15	19	66	150	319	84	102	205	136	50	394	103	50
16	19	77	149	273	237	102	209	109	50	346	103	50
17	19	84	149	99	415	89	133	77	50	214	839	39
18	19	84	149	99	416	76	108	69	50	215	1280	33
19	19	110	149	109	506	315	113	69	50	215	1260	33
20	19	136	95	121	626	413	117	69	50	215	533	33
21	19	142	46	121	623	412	120	69	50	217	70	33
22	19	338	46	149	535	342	121	69	50	512	69	142
23	19	648	154	204	411	204	121	69	40	805	57	333
24	19	645	309	278	231	134	122	92	33	350	50	302
25	19	639	411	307	133	105	530	106	33	115	50	69
26	19	634	211	180	156	149	965	82	33	116	50	70
27	21	628	102	166	160	168	1200	69	33	118	230	70
28	277	519	102	166	126	205	1440	62	33	118	162	104
29	630	412	102	166	82	205	1510	50	33	436	121	138
30	320	342	113	155	---	205	1500	75	33	478	58	83
31	77	---	133	133	---	350	---	90	---	110	50	---
TOTAL	1819	6395	5929	4547	6113	5174	13063	19492	2194	9767	19000	2168
MEAN	58.7	213	191	147	211	167	435	629	73.1	315	613	72.3
MAX	630	648	564	319	626	413	1510	1480	359	805	1660	333
MIN	19	48	46	98	82	76	76	50	33	33	50	33

CAL YR 1991 TOTAL 148820 MEAN 408 MAX 1940 MIN 18
WTR YR 1992 TOTAL 95661 MEAN 261 MAX 1660 MIN 19

03361650 SUGAR CREEK AT NEW PALESTINE, IN

LOCATION.--Lat 39°42'51", long 85°53'08", in SE¹/₄SW¹/₄ 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 1991 TO SEPTEMBER 1992
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	45	114	43	113	49	59	68	30	39	188	21
2	4.5	42	128	42	100	46	58	62	26	38	133	19
3	4.3	35	299	44	92	44	55	57	24	57	100	19
4	4.5	31	262	44	92	43	58	52	24	43	78	17
5	8.2	28	160	42	93	43	57	50	24	99	64	16
6	7.8	25	113	41	85	45	65	48	25	182	53	15
7	8.9	24	92	39	78	58	60	44	40	104	46	15
8	6.7	22	80	39	71	51	57	43	84	83	43	17
9	6.5	20	73	38	62	47	79	48	77	113	40	17
10	7.0	19	63	38	55	49	91	47	50	147	37	31
11	7.7	19	55	36	53	50	84	43	39	80	33	27
12	6.9	18	53	34	51	55	69	41	32	158	29	21
13	7.2	18	63	36	51	52	57	42	29	116	27	19
14	7.9	17	69	119	50	50	52	39	26	92	24	16
15	8.4	18	64	184	116	46	52	37	67	173	23	14
16	7.2	17	56	e100	225	43	56	35	64	118	24	13
17	7.7	17	51	e85	190	42	231	34	37	295	22	12
18	7.3	17	47	e70	193	62	681	34	1310	409	20	15
19	7.4	33	e42	e65	201	170	737	32	1160	256	19	17
20	8.4	175	e37	e60	165	186	698	30	962	161	18	13
21	9.1	385	40	e55	133	124	409	28	430	151	17	21
22	8.8	280	39	57	112	99	311	26	229	310	16	48
23	8.6	183	69	109	98	81	222	27	168	288	15	32
24	11	123	119	194	87	66	176	46	162	462	15	23
25	14	87	113	158	76	59	142	92	140	561	14	19
26	318	65	82	112	68	59	117	54	95	543	14	18
27	507	56	66	91	63	60	100	42	69	283	83	18
28	289	63	59	88	58	56	87	35	56	205	98	16
29	147	81	56	84	54	53	78	31	49	146	43	14
30	82	119	52	86	---	58	73	33	43	239	32	14
31	56	---	47	99	---	59	---	33	---	239	24	---
TOTAL	1589.1	2082	2663	2332	2885	2005	5071	1333	5571	6190	1392	577
MEAN	51.3	69.4	85.9	75.2	99.5	64.7	169	43.0	186	200	44.9	19.2
MAX	507	385	299	194	225	186	737	92	1310	561	188	48
MIN	4.1	17	37	34	50	42	52	26	24	38	14	12
CFSM	.55	.74	.91	.80	1.06	.69	1.80	.46	1.98	2.13	.48	.20
IN.	.63	.82	1.05	.92	1.14	.79	2.01	.53	2.21	2.45	.55	.23

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1992, BY WATER YEAR (WY)

	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	39.4	79.7	134	124	180	176	153	113	81.7	66.4	51.7	30.7													
MAX	309	328	352	345	439	413	279	321	232	241	306	314													
(WY)	1967	1973	1991	1969	1982	1978	1972	1990	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 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1968 - 1992	
ANNUAL TOTAL	37745.9		33690.1			
ANNUAL MEAN	103		92.0		102	
HIGHEST ANNUAL MEAN					150	
LOWEST ANNUAL MEAN					37.7	
HIGHEST DAILY MEAN	1250		1310		1870	
LOWEST DAILY MEAN	2.6		4.1		2.4	
ANNUAL SEVEN-DAY MINIMUM	3.4		6.0		3.0	
INSTANTANEOUS PEAK FLOW			1870		2220	
INSTANTANEOUS PEAK STAGE			9.47		10.34	
ANNUAL RUNOFF (CFSM)	1.10		.98		1.09	
ANNUAL RUNOFF (INCHES)	14.95		13.35		14.77	
10 PERCENT EXCEEDS	282		189		242	
50 PERCENT EXCEEDS	53		53		47	
90 PERCENT EXCEEDS	5.3		15		9.5	

WABASH RIVER BASIN

03361850 BUCK CREEK AT ACTON, IN

LOCATION.--Lat 39°39'25", long 85°57'27", in NW¹/₄SE¹/₄, 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	38	100	31	63	29	76	40	22	33	178	27
2	6.8	29	261	30	53	28	67	37	18	28	107	23
3	7.6	23	365	32	49	26	60	33	16	51	78	22
4	10	19	167	33	48	25	73	30	16	34	60	19
5	21	17	102	29	44	24	79	28	16	444	48	17
6	16	16	78	28	40	27	64	25	19	873	40	16
7	10	15	67	26	39	50	58	23	134	206	35	17
8	7.1	13	64	25	34	56	54	22	148	229	33	23
9	7.0	13	56	26	28	45	85	32	70	1220	30	26
10	e6.6	12	48	25	25	55	147	33	44	921	26	108
11	e7.0	12	42	23	24	68	142	24	30	231	24	78
12	e6.4	13	44	22	23	69	97	22	23	554	23	42
13	e6.4	12	58	24	24	62	72	30	19	209	22	28
14	e6.8	12	58	130	25	56	63	24	17	114	20	23
15	e8.0	12	49	147	90	48	58	21	45	634	19	20
16	e7.0	12	42	e90	193	40	81	19	50	294	18	18
17	e6.6	12	40	e65	109	38	458	18	28	613	17	17
18	e6.3	21	34	e52	133	61	1130	19	2210	464	17	16
19	e6.0	215	28	e46	145	297	961	18	1210	220	15	28
20	e6.2	610	25	e42	103	163	461	17	487	155	14	19
21	e6.6	384	29	40	82	109	350	15	243	141	13	70
22	e6.5	204	32	42	69	91	216	16	121	138	13	209
23	e6.3	129	69	92	62	73	143	37	89	98	13	88
24	e8.0	89	119	136	55	60	109	94	90	409	12	51
25	e15	63	84	86	49	56	88	51	124	237	12	35
26	328	51	63	65	44	58	72	33	71	215	13	30
27	502	49	52	56	40	59	62	25	50	161	117	39
28	189	76	46	63	37	52	54	20	37	94	335	33
29	90	85	46	64	33	47	49	17	31	66	103	25
30	57	149	41	64	---	63	45	26	29	351	55	22
31	38	---	35	69	---	87	---	29	---	386	36	---
TOTAL	1411.3	2405	2344	1703	1763	2022	5474	878	5507	9823	1546	1189
MEAN	45.5	80.2	75.6	54.9	60.8	65.2	182	28.3	184	317	49.9	39.6
MAX	502	610	365	147	193	297	1130	94	2210	1220	335	209
MIN	6.0	12	25	22	23	24	45	15	16	28	12	16
CFSM	.58	1.02	.96	.70	.77	.83	2.32	.36	2.33	4.02	.63	.50
IN.	.67	1.14	1.11	.80	.83	.95	2.58	.41	2.60	4.64	.73	.56

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1992, BY WATER YEAR (WY)

	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	33.2	80.6	124	110	151	164	132	105	67.1	74.5	43.5	21.2													
MAX	312	353	333	352	349	347	245	386	196	324	216	166													
(WY)	1987	1986	1991	1969	1971	1978	1972	1981	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 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1968 - 1992	
ANNUAL TOTAL	31211.8		36065.3			
ANNUAL MEAN	85.5		98.5		91.9	
HIGHEST ANNUAL MEAN					138	
LOWEST ANNUAL MEAN					36.7	
HIGHEST DAILY MEAN	1720	Mar 13	2210	Jun 18	3490	Jul 20 1969
LOWEST DAILY MEAN	1.0	Sep 11	6.0	Oct 19	.60	Oct 1 1967
ANNUAL SEVEN-DAY MINIMUM	1.7	Sep 16	6.4	Oct 17	1.7	Sep 16 1991
INSTANTANEOUS PEAK FLOW			3220		7140	
INSTANTANEOUS PEAK STAGE			11.71		14.99	
ANNUAL RUNOFF (CFSM)	1.09		1.25		1.17	
ANNUAL RUNOFF (INCHES)	14.73		17.03		15.85	
10 PERCENT EXCEEDS	221		211		207	
50 PERCENT EXCEEDS	35		44		32	
90 PERCENT EXCEEDS	3.6		13		5.9	

WABASH RIVER BASIN

03363900 FLATROCK RIVER AT COLUMBUS, IN

LOCATION.--Lat 39°14'06", long 85°55'36", in NE¹/₄SW¹/₄ 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 fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	53	74	120	186	163	467	420	167	162	2680	272
2	29	49	82	115	189	154	422	385	158	160	1200	229
3	29	48	100	113	186	146	360	358	148	527	902	204
4	29	46	128	110	182	144	334	332	145	444	736	190
5	34	44	150	109	180	141	359	309	149	292	618	179
6	32	41	143	109	180	142	325	295	149	438	529	164
7	31	41	129	108	176	149	299	276	162	344	459	156
8	30	40	119	108	172	157	285	258	184	347	443	153
9	30	40	107	107	163	157	273	261	228	389	481	146
10	33	40	98	103	150	155	273	273	209	603	405	146
11	33	40	93	100	138	155	338	250	177	569	354	148
12	32	40	87	98	134	164	350	232	155	503	318	144
13	32	41	89	97	134	165	313	225	141	477	287	134
14	33	41	88	114	133	161	279	216	135	425	261	128
15	32	42	85	197	139	156	268	206	128	376	243	120
16	32	43	83	e180	148	150	263	195	124	766	227	114
17	32	41	81	e170	201	143	299	191	117	2820	231	109
18	32	41	79	e165	259	146	1290	193	400	4040	213	106
19	32	45	77	e162	248	232	2970	206	2050	1920	198	102
20	32	53	77	e160	265	423	3620	232	1580	1110	187	100
21	32	88	77	e160	269	424	2600	208	892	1200	174	110
22	31	106	80	163	251	341	1730	189	565	1080	164	134
23	29	134	84	166	236	298	1260	178	428	1020	156	161
24	29	121	91	198	224	264	967	207	365	904	149	158
25	30	102	115	249	212	235	803	244	324	1160	151	136
26	36	88	135	273	199	222	690	212	289	1430	171	125
27	35	80	132	230	188	218	606	190	249	1460	182	121
28	40	76	120	206	180	212	536	175	213	1100	349	116
29	42	72	117	194	172	201	484	165	189	825	745	112
30	45	74	117	188	---	201	446	165	173	727	525	106
31	52	---	118	186	---	306	---	171	---	3200	353	---
TOTAL	1030	1810	3155	4758	5494	6325	23509	7417	10393	30818	14091	4323
MEAN	33.2	60.3	102	153	189	204	784	239	346	994	455	144
MAX	52	134	150	273	269	424	3620	420	2050	4040	2680	272
MIN	29	40	74	97	133	141	263	165	117	160	149	100
CFSM	.06	.11	.19	.29	.35	.38	1.47	.45	.65	1.86	.85	.27
IN.	.07	.13	.22	.33	.38	.44	1.64	.52	.72	2.15	.98	.30

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1992, BY WATER YEAR (WY)

	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	146	403	728	709	1027	1001	930	819	457	422	286	157													
MAX	547	1452	2092	1827	2524	2223	1768	2281	1100	1556	1296	837													
(WY)	1987	1986	1991	1969	1982	1978	1989	1968	1968	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 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1968 - 1992	
ANNUAL TOTAL	196950		113123			
ANNUAL MEAN	540		309		588	
HIGHEST ANNUAL MEAN					842	
LOWEST ANNUAL MEAN					271	
HIGHEST DAILY MEAN	12700	Jan 1	4040	Jul 18	18200	Dec 31 1990
LOWEST DAILY MEAN	29	Oct 2	29	Oct 2	22	Oct 5 1967
ANNUAL SEVEN-DAY MINIMUM	30	Sep 28	31	Oct 1	23	Oct 1 1967
INSTANTANEOUS PEAK FLOW			4820	Jul 18	20000	May 25 1968
INSTANTANEOUS PEAK STAGE			10.38	Jul 18	15.87	May 25 1968
ANNUAL RUNOFF (CFSM)	1.01		.58		1.10	
ANNUAL RUNOFF (INCHES)	13.72		7.88		14.97	
10 PERCENT EXCEEDS	1400		579		1330	
50 PERCENT EXCEEDS	134		166		308	
90 PERCENT EXCEEDS	35		41		59	

03364000 EAST FORK WHITE RIVER AT COLUMBUS, IN

LOCATION.--Lat 39°12'00", long 85°55'32", in NE¹/₄NW¹/₄, 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 fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	205	520	739	582	956	734	1570	1500	649	680	6940	856
2	204	445	888	547	963	677	1420	1380	588	667	3950	736
3	201	396	1020	535	887	653	1260	1280	543	1270	2810	664
4	200	362	2060	535	844	638	1180	1190	537	1260	2120	618
5	223	320	1640	534	830	619	1330	1120	547	928	1720	574
6	219	293	1170	520	820	618	1240	1070	542	1600	1460	548
7	228	279	934	502	785	657	1130	1010	557	2040	1280	524
8	239	267	805	492	755	683	1060	954	698	1380	1240	510
9	230	253	745	488	705	675	1010	963	988	1770	1270	489
10	231	245	681	480	644	660	1110	993	858	4400	1110	543
11	226	235	626	471	598	675	1630	939	701	3980	1000	625
12	219	232	580	456	579	721	1810	871	601	2300	920	694
13	215	229	582	452	579	708	1430	857	536	2840	848	568
14	223	227	608	677	574	681	1190	841	496	1910	787	493
15	219	227	614	1470	616	663	1110	793	467	1770	740	448
16	217	226	580	e1200	970	628	1090	751	485	3480	710	417
17	212	221	542	e900	1740	596	1740	723	565	5510	726	391
18	212	218	510	e850	1550	705	5640	778	916	7690	669	377
19	211	249	479	e800	1730	1340	9050	906	6050	5360	621	369
20	210	406	441	e800	1980	2180	12800	871	7290	3350	581	384
21	214	1530	434	e820	1710	1890	11200	773	6070	3200	547	444
22	214	2210	433	833	1450	1500	6690	702	2980	3180	513	573
23	213	1660	485	832	1270	1290	5120	745	1950	3320	491	830
24	218	1170	613	1260	1160	1110	3960	894	1640	4090	467	697
25	227	886	946	1690	1060	976	3200	1020	1460	5440	483	570
26	273	719	880	1410	960	923	2620	868	1360	5950	512	545
27	1010	614	759	1130	888	919	2220	755	1100	5270	567	566
28	1970	554	682	979	831	880	1940	678	931	3880	1860	558
29	1290	530	682	951	777	824	1740	636	814	2720	2420	528
30	827	619	661	929	---	880	1610	649	735	2230	1490	476
31	625	---	619	920	---	1300	---	663	---	7170	1070	---
TOTAL	11425	16342	23438	25045	29211	28003	90100	28173	43654	100635	41922	16615
MEAN	369	545	756	808	1007	903	3003	909	1455	3246	1352	554
MAX	1970	2210	2060	1690	1980	2180	12800	1500	7290	7690	6940	856
MIN	200	218	433	452	574	596	1010	636	467	667	467	369
CFSM	.22	.32	.44	.47	.59	.53	1.76	.53	.85	1.90	.79	.32
IN.	.25	.36	.51	.55	.64	.61	1.96	.61	.95	2.19	.91	.36

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 1992, BY WATER YEAR (WY)

	520	1223	2028	2630	3134	3314	3006	2373	1488	1308	798	515
MEAN	520	1223	2028	2630	3134	3314	3006	2373	1488	1308	798	515
MAX	2957	5284	6004	14400	8640	8014	7466	6501	5565	4990	5185	3696
(WY)	1987	1956	1967	1950	1950	1963	1964	1968	1958	1958	1979	1989
MIN	138	172	191	163	342	829	852	532	325	161	136	101
(WY)	1965	1955	1964	1977	1964	1954	1971	1976	1988	1954	1954	1954

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1949 - 1992	
ANNUAL TOTAL	718668		454563			
ANNUAL MEAN	1969		1242		1855	
HIGHEST ANNUAL MEAN					3304	
LOWEST ANNUAL MEAN					534	
HIGHEST DAILY MEAN	44500		12800		49000	
LOWEST DAILY MEAN	197		200		87	
ANNUAL SEVEN-DAY MINIMUM	201		211		90	
INSTANTANEOUS PEAK FLOW			13800		52300	
INSTANTANEOUS PEAK STAGE			7.30		16.23	
ANNUAL RUNOFF (CFSM)	1.15		.73		1.09	
ANNUAL RUNOFF (INCHES)	15.66		9.91		14.77	
10 PERCENT EXCEEDS	4540		2250		4210	
50 PERCENT EXCEEDS	817		775		936	
90 PERCENT EXCEEDS	219		263		250	

WABASH RIVER BASIN

03366200 HARBERTS CREEK NEAR MADISON, IN

LOCATION.--Lat 38°46'55", long 85°29'08", in SW¹/₄/SE¹/₄, sec.14, T.4 N., R.9 E., Jefferson County, Hydrologic Unit 05120207, attached to left downstream wingwall of bridge on County Road 533 West, 0.2 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 fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.31	5.9	2.9	1.9	1.1	14	1.9	1.5	.58	.57	.20
2	.00	.46	74	5.0	1.6	.96	9.9	1.6	1.0	8.4	.40	.21
3	.00	.61	59	58	1.5	.93	8.1	1.4	.81	53	.60	3.7
4	.00	.35	8.2	17	1.5	.86	12	1.1	1.0	8.1	.64	.72
5	.00	.26	3.2	9.5	1.4	.83	9.6	1.2	.98	3.1	.34	.29
6	.00	.22	2.1	6.4	1.3	1.6	6.0	1.1	.81	2.1	.27	.24
7	.00	.25	1.6	4.5	1.3	9.4	4.7	.92	4.4	1.6	.21	.27
8	.00	.23	1.2	3.5	1.2	5.8	3.9	1.0	4.4	1.3	769	.29
9	.00	.23	.99	3.2	.92	3.2	3.3	1.2	1.5	.98	59	.33
10	.00	.18	.84	2.8	.94	11	3.2	1.2	.83	1.5	14	.62
11	.06	.16	.72	2.3	.85	11	5.5	.93	.55	19	6.1	.45
12	.27	.18	.74	2.1	.94	8.1	3.3	1.0	.48	14	3.2	.23
13	.10	.20	19	2.7	1.2	5.8	2.3	1.2	.56	2.8	2.1	.14
14	.10	.20	15	73	1.5	4.1	2.0	.96	.54	1.4	1.8	.10
15	.09	.22	5.5	18	2.7	3.1	3.9	.80	1.1	4.3	1.5	.09
16	.20	.31	3.0	e8.0	2.8	2.4	7.4	.67	.60	2.2	.76	.09
17	.31	.28	2.3	e5.0	1.8	2.2	20	.83	.36	12	.43	.08
18	.22	.26	1.6	e4.0	1.8	64	23	1.9	235	4.1	.35	.16
19	.11	.28	1.2	e3.5	1.8	149	17	1.7	28	1.6	.32	.21
20	.07	.44	1.1	e3.3	1.7	37	17	.84	8.0	1.1	.28	.12
21	.05	.91	1.6	3.0	1.6	18	38	.67	3.9	3.6	.21	7.2
22	.04	.76	1.8	3.3	1.4	14	16	1.1	2.4	1.5	.13	16
23	.03	.53	27	6.8	1.4	11	8.6	.71	1.9	28	.10	1.7
24	.01	.38	14	5.6	1.3	7.2	5.7	2.6	8.5	24	.14	.44
25	.00	.33	6.2	3.2	1.4	6.4	4.1	1.1	2.9	8.1	.11	.28
26	.02	.28	3.9	2.8	1.4	18	3.2	.72	1.6	18	.22	.28
27	.66	.27	2.8	2.5	1.2	25	2.8	.59	1.1	5.8	5.3	.33
28	1.3	.33	2.4	2.3	1.1	11	2.5	.47	.80	2.4	5.8	.33
29	.59	.36	7.5	2.1	1.2	7.7	2.1	1.5	.63	1.4	.72	.24
30	.37	35	7.9	2.1	---	29	2.0	11	.54	.99	.29	.17
31	.29	---	4.1	2.1	---	29	---	3.3	---	.83	.24	---
TOTAL	4.89	44.78	286.39	270.5	42.65	498.68	261.1	47.21	316.69	237.78	875.13	35.51
MEAN	.16	1.49	9.24	8.73	1.47	16.1	8.70	1.52	10.6	7.67	28.2	1.18
MAX	1.3	35	74	73	2.8	149	38	11	235	53	769	16
MIN	.00	.16	.72	2.1	.85	.83	2.0	.47	.36	.58	.10	.08
CFSM	.02	.16	.99	.94	.16	1.73	.93	.16	1.13	.82	3.03	.13
IN.	.02	.18	1.14	1.08	.17	1.99	1.04	.19	1.27	.95	3.50	.14

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1992, BY WATER YEAR (WY)

	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
MEAN	4.26	13.3	19.2	17.3	21.5	26.2	22.4	14.7	6.50	3.84	4.19	1.94													
MAX	28.8	48.6	64.1	57.5	51.9	52.0	44.1	61.1	27.2	12.3	28.2	18.7													
(WY)	1984	1980	1991	1982	1971	1975	1972	1983	1982	1971	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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1969 - 1992

ANNUAL TOTAL	4055.95	2921.31		
ANNUAL MEAN	11.1	7.98	12.9	
HIGHEST ANNUAL MEAN			21.0	1979
LOWEST ANNUAL MEAN			6.13	1981
HIGHEST DAILY MEAN	382	Apr 13	769	Aug 8 1992
LOWEST DAILY MEAN	.00	Jul 1	.00	Oct 1 1968
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 1	.00	Oct 1 1969
INSTANTANEOUS PEAK FLOW			1810	Aug 8 1990
INSTANTANEOUS PEAK STAGE			8.40	Aug 8 1990
ANNUAL RUNOFF (CFSM)	1.19	.86	1.39	
ANNUAL RUNOFF (INCHES)	16.21	11.67	18.84	
10 PERCENT EXCEEDS	24	14	25	
50 PERCENT EXCEEDS	1.2	1.4	2.4	
90 PERCENT EXCEEDS	.00	.18	.09	

03371520 BACK CREEK AT LEESVILLE, IN

LOCATION.--Lat 38°50'48", long 86°18'06", in SW¹/₄,SE¹/₄, 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 1991 TO SEPTEMBER 1992
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.09	13	9.2	6.8	4.2	29	7.3	3.8	.93	2.3	4.4
2	.02	.09	72	8.8	5.9	4.0	23	6.6	2.9	86	1.2	3.8
3	.02	.08	55	9.7	5.8	3.8	19	5.8	2.3	185	4.7	3.8
4	.02	.07	17	9.0	5.5	3.6	18	5.1	2.3	28	1.2	3.4
5	.02	.07	9.2	8.0	5.0	3.5	15	4.8	2.3	12	.53	2.9
6	.02	.07	7.2	7.4	4.4	3.7	12	4.4	1.9	28	.26	2.6
7	.02	.07	5.9	6.6	4.3	4.3	11	3.9	2.1	9.9	.14	2.4
8	.01	.07	5.2	6.3	4.0	4.3	10	7.6	2.2	12	1470	2.3
9	.01	.11	4.6	6.8	3.4	3.9	10	7.3	1.6	22	130	2.2
10	.02	.13	3.8	6.1	3.2	4.4	21	5.2	1.2	342	48	3.2
11	.02	.16	3.3	5.5	3.2	5.1	24	5.1	.94	673	26	3.2
12	.02	.19	3.1	5.3	3.1	4.8	17	6.4	.77	194	15	2.4
13	.01	.19	19	6.2	3.6	4.6	13	4.7	.62	58	11	2.0
14	.02	.19	16	71	4.8	4.5	12	3.8	.56	25	8.3	1.8
15	.02	.19	10	39	6.8	4.3	44	3.2	6.6	122	6.6	1.6
16	.01	.21	7.8	e22	7.8	3.9	64	3.3	11	38	5.5	1.4
17	.01	.22	6.7	e16	6.6	3.8	60	4.7	2.9	24	4.8	1.3
18	.02	.24	5.4	e12	8.8	22	54	7.1	79	11	4.0	1.2
19	.01	.43	4.1	e9.3	9.1	76	46	4.9	13	5.4	3.5	1.1
20	.01	3.0	3.6	e8.2	8.6	58	52	9.3	5.9	3.0	3.1	1.1
21	.01	8.2	5.1	e7.5	8.0	37	55	13	3.8	3.9	2.7	4.4
22	.01	6.3	5.1	7.2	7.7	27	39	16	2.6	80	2.5	5.7
23	.01	4.6	32	15	7.4	20	30	27	2.2	38	2.3	2.8
24	.02	3.5	27	16	7.0	16	23	11	69	14	2.2	2.0
25	.02	2.9	16	12	6.3	15	18	7.2	13	196	5.1	1.8
26	.06	2.5	12	11	5.7	16	15	5.5	5.9	84	9.4	2.6
27	.11	2.3	9.4	9.6	5.4	15	13	4.5	3.5	33	134	4.7
28	.09	2.4	8.6	9.0	5.0	12	12	4.4	2.3	14	40	3.6
29	.11	2.3	13	8.2	4.5	12	9.4	4.2	1.6	5.8	13	2.7
30	.11	17	13	7.8	---	27	8.6	6.2	1.1	10	7.8	2.3
31	.09	---	10	7.7	---	40	---	5.0	---	9.0	5.7	---
TOTAL	0.97	57.87	423.1	383.4	167.7	463.7	777.0	214.5	248.89	2366.93	1970.83	80.7
MEAN	.031	1.93	13.6	12.4	5.78	15.0	25.9	6.92	8.30	76.4	63.6	2.69
MAX	.11	17	72	71	9.1	76	64	27	79	673	1470	5.7
MIN	.01	.07	3.1	5.3	3.1	3.5	8.6	3.2	.56	.93	.14	1.1
CFSM	.00	.08	.57	.51	.24	.62	1.07	.29	.34	3.17	2.64	.11
IN.	.00	.09	.65	.59	.26	.72	1.20	.33	.38	3.65	3.04	.12

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1992, BY WATER YEAR (WY)

	1984	1986	1983	1982	1979	1989	1972	1990	1973	1973	1979	1974
MEAN	8.84	29.9	42.8	36.8	51.8	66.0	56.3	35.5	14.9	23.7	15.5	5.77
MAX	48.0	132	101	147	105	168	176	150	63.3	195	92.4	60.9
(WY)	1984	1986	1983	1982	1979	1989	1972	1990	1973	1973	1979	1974
MIN	.000	1.05	2.37	.98	5.78	9.74	8.62	2.70	.25	.014	.080	.000
(WY)	1989	1988	1990	1977	1992	1981	1976	1988	1988	1991	1988	1988

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1971 - 1992

ANNUAL TOTAL	7072.24	7155.59	
ANNUAL MEAN	19.4	19.6	
HIGHEST ANNUAL MEAN			32.2
LOWEST ANNUAL MEAN			64.6
HIGHEST DAILY MEAN	536	1470	14.4
LOWEST DAILY MEAN	.00	.01	1987
ANNUAL SEVEN-DAY MINIMUM	.00	.01	1987
INSTANTANEOUS PEAK FLOW		7010	5000
INSTANTANEOUS PEAK STAGE		10.09	.00
ANNUAL RUNOFF (CFSM)	.80	.81	.00
ANNUAL RUNOFF (INCHES)	10.92	11.05	.00
10 PERCENT EXCEEDS	55	32	.00
50 PERCENT EXCEEDS	3.4	5.3	.00
90 PERCENT EXCEEDS	.01	.10	.00

WABASH RIVER BASIN

03373700 LOST RIVER NEAR WEST BADEN SPRINGS, IN

LOCATION.--Lat 38°35'10", long 86°38'03", in SW¹/₄, SE¹/₄, sec.21, T.2 N., R.2 W., Orange County, Hydrologic Unit 05120208, on left bank 20 ft downstream from bridge on U.S. Highway 150, 1.7 mi northwest of West Baden Springs, 3.8 mi downstream from Lick Creek, and at mile 34.8.

DRAINAGE AREA.--287 mi².

PERIOD OF RECORD.--December 1964 to current year. Prior to October 1965, published as Lost River near West Baden.

GAGE.--Water-stage recorder. Datum of gage is 457.92 ft above sea level (levels by State of Indiana, Department of Natural Resources).

REMARKS.--Records fair.

EXTREMES OUTSIDE PERIOD OF RECORDS.--Flood in March 1964 reached a stage of 28.1 ft, from floodmarks, discharge, 14,500 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.9	20	127	148	94	64	577	113	62	19	47	43
2	11	20	381	137	87	61	429	105	53	18	42	35
3	8.8	20	1180	135	82	60	343	104	46	23	27	30
4	9.7	21	710	133	80	58	295	98	45	26	22	28
5	12	20	357	129	78	56	255	93	48	26	20	25
6	12	20	233	120	75	55	218	84	56	23	18	23
7	12	19	173	111	73	58	195	77	61	20	17	21
8	13	19	141	105	70	60	177	72	48	20	20	20
9	13	18	120	106	66	69	160	70	42	19	48	20
10	15	19	103	108	60	69	148	68	37	18	87	22
11	15	19	89	105	57	66	137	64	34	26	44	21
12	16	18	81	98	58	64	126	64	32	58	27	22
13	16	19	101	99	61	61	115	81	31	42	22	19
14	17	19	163	248	67	59	106	90	34	27	19	17
15	17	18	166	433	82	57	118	72	31	23	18	16
16	17	20	133	346	161	54	231	61	29	22	17	15
17	17	22	111	257	148	55	509	55	29	24	16	15
18	18	26	101	215	122	185	467	52	29	21	15	15
19	19	27	86	173	117	1070	428	54	26	22	15	18
20	18	33	75	156	107	1010	413	50	25	21	14	19
21	18	44	79	146	97	655	392	46	24	19	14	27
22	19	38	81	136	91	461	360	51	23	18	13	42
23	20	29	189	138	87	355	292	130	22	20	15	35
24	20	24	363	150	85	282	240	117	24	22	16	26
25	21	22	278	146	81	239	204	130	24	29	15	22
26	23	20	205	132	77	235	178	90	24	24	14	25
27	28	19	165	118	73	241	158	67	22	26	44	29
28	31	19	142	110	70	217	142	59	21	28	339	31
29	28	18	146	105	67	193	130	56	20	23	292	28
30	24	56	169	101	---	357	123	62	19	21	125	23
31	22	---	168	98	---	713	---	68	---	27	64	---
TOTAL	540.4	706	6616	4742	2473	7239	7666	2403	1021	755	1506	732
MEAN	17.4	23.5	213	153	85.3	234	256	77.5	34.0	24.4	48.6	24.4
MAX	31	56	1180	433	161	1070	577	130	62	58	339	43
MIN	8.8	18	75	98	57	54	106	46	19	18	13	15
CFSM	.06	.08	.74	.53	.30	.81	.89	.27	.12	.08	.17	.09
IN.	.07	.09	.86	.61	.32	.94	.99	.31	.13	.10	.20	.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1992, BY WATER YEAR (WY)

	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	78.3	294	458	452	564	674	674	483	250	181	132	74.9															
MAX	203	1463	1069	1123	1166	1306	1402	2326	935	969	739	543															
(WY)	1984	1986	1978	1982	1982	1978	1972	1983	1990	1973	1979	1974															
MIN	10.9	14.7	19.5	12.7	85.3	112	97.1	52.9	18.6	20.1	14.5	11.3															
(WY)	1988	1988	1981	1981	1992	1981	1976	1988	1988	1991	1991	1988															

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1966 - 1992	
ANNUAL TOTAL	99752.8		36399.4			
ANNUAL MEAN	273		99.5		358	
HIGHEST ANNUAL MEAN					657	
LOWEST ANNUAL MEAN					99.5	
HIGHEST DAILY MEAN	3080	Mar 23	1180	Dec 3	12800	May 17 1990
LOWEST DAILY MEAN	8.8	Oct 3	8.8	Oct 3	5.9	Sep 9 1988
ANNUAL SEVEN-DAY MINIMUM	9.6	Sep 28	11	Oct 1	6.5	Sep 8 1988
INSTANTANEOUS PEAK FLOW			1260		14000	May 17 1990
INSTANTANEOUS PEAK STAGE			16.74		27.21	May 17 1990
ANNUAL RUNOFF (CFSM)	.95		.35		1.25	
ANNUAL RUNOFF (INCHES)	12.93		4.72		16.97	
10 PERCENT EXCEEDS	788		234		910	
50 PERCENT EXCEEDS	75		56		141	
90 PERCENT EXCEEDS	13		18		21	

03374000 WHITE RIVER AT PETERSBURG, IN

LOCATION.--Lat 38°30'39", long 87°17'22", in SE 1/4, SW 1/4, sec.15, T.1 N., R.8 W., Pike County, Hydrologic Unit 05120202, on left bank 300 ft downstream from bridge on State Highway 61, 0.4 mi upstream from Frides 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. 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1210	3920	4550	4700	5150	5080	11200	12600	4290	5580	22700	9210
2	1180	3890	5000	4590	4940	4830	11700	11700	4240	5000	20800	7850
3	1140	3510	7510	4590	4780	4600	10900	11100	4210	4700	21000	6510
4	1120	3150	8060	4570	4670	4430	10300	10400	4230	4680	22200	5570
5	1200	2920	9040	4570	4600	4280	9680	9840	4590	5500	22100	4930
6	1200	2760	8800	4460	4560	4110	8990	9230	4110	7910	18800	4480
7	1140	2600	8510	4550	4480	3990	8350	8710	3970	8750	14500	4120
8	1130	2460	7860	4670	4410	3890	7930	8220	3790	9070	12300	4180
9	1160	2350	6760	4500	4340	3860	7580	7820	4540	9440	13900	4080
10	1250	2260	5820	4270	4220	4010	7200	7500	5290	8340	21700	3870
11	1250	2170	5190	4100	4090	4040	6760	7220	4510	10100	21700	3920
12	1210	2100	4750	3970	3960	4230	6880	7090	4090	11700	19600	4040
13	1150	2060	4600	3870	3860	4460	7310	7050	3820	13300	19800	4080
14	1140	2010	4650	4150	3750	4500	7560	6970	3710	13600	20400	4150
15	1180	1980	4670	4960	3730	4460	7730	6870	3610	13600	20500	4150
16	1150	1980	4630	6000	3870	4390	8720	6590	3540	17000	19300	3920
17	1110	1970	4540	6540	4540	4290	13900	5910	3340	19600	17000	3600
18	1100	1950	4510	7170	5630	4350	16400	5490	3210	20200	14300	3360
19	1090	1980	4410	6860	6430	5610	18500	5280	3080	22500	11500	3150
20	1070	3060	4200	6050	7720	8900	21700	5300	3290	24100	9350	3000
21	1050	5260	4010	5450	8530	12100	26100	5010	7000	25600	7570	3010
22	1040	7870	3860	5210	8270	12700	30700	5020	11700	27300	6330	3590
23	1030	8850	4000	5190	7840	12300	36000	5430	15500	29300	5430	3440
24	1020	7610	4780	5460	7540	11700	40200	5770	18500	28400	4640	4440
25	1040	6090	5770	5640	7080	10600	41600	5510	19300	25000	4230	5980
26	1140	5690	5920	5650	6550	9220	39400	5460	15100	22500	4080	6290
27	1840	5440	5750	5700	6070	8200	32500	5420	10800	24400	4120	6040
28	3690	5010	5710	5950	5690	7620	22200	5200	8690	27200	5480	5340
29	6170	4630	5450	6030	5370	7380	16400	4940	7390	28400	7080	4880
30	5510	4560	5150	5740	---	7790	14000	4760	6340	28800	8850	4630
31	4320	---	4920	5430	---	9360	---	4500	---	27500	9780	---
TOTAL	51030	112090	173380	160590	156670	201280	508390	217910	199780	529070	431040	139810
MEAN	1646	3736	5593	5180	5402	6493	16950	7029	6659	17070	13900	4660
MAX	6170	8850	9040	7170	8530	12700	41600	12600	19300	29300	22700	9210
MIN	1020	1950	3860	3870	3730	3860	6760	4500	3080	4680	4080	3000
CFSM	.15	.34	.50	.47	.49	.58	1.52	.63	.60	1.53	1.25	.42
IN.	.17	.37	.58	.54	.52	.67	1.70	.73	.67	1.77	1.44	.47

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1992, BY WATER YEAR (WY)

	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	3107	5978	10950	17380	18410	22890	22050	16620	10450	7297	4649	3330																																																					
MAX	12310	31940	38140	86440	67070	55340	42900	53820	30850	25620	39590	19640																																																					
(WY)	1946	1986	1986	1950	1950	1945	1944	1961	1947	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 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1928 - 1992
ANNUAL TOTAL	4868900	2881040	
ANNUAL MEAN	13340	7872	11900
HIGHEST ANNUAL MEAN			22760
LOWEST ANNUAL MEAN			2138
HIGHEST DAILY MEAN	109000	Jan 5	41600
LOWEST DAILY MEAN	1020	Oct 24	1020
ANNUAL SEVEN-DAY MINIMUM	1050	Oct 19	1050
INSTANTANEOUS PEAK FLOW			41800
INSTANTANEOUS PEAK STAGE		19.72	Apr 25
ANNUAL RUNOFF (CFSM)	1.20	.71	1.07
ANNUAL RUNOFF (INCHES)	16.28	9.63	14.53
10 PERCENT EXCEEDS	34600	19300	29400
50 PERCENT EXCEEDS	5510	5420	6190
90 PERCENT EXCEEDS	1420	2230	1470

03374455 PATOKA RIVER NEAR HARDINSBURG, IN

LOCATION.--Lat 38°26'41", long 86°23'14", in NW¹/₄, SE¹/₄, sec.10, T.1 S., R.1 E., Orange County, Hydrologic Unit 05120209, on downstream edge of center pier of county road bridge, 0.3 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 estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.05	3.1	4.6	3.0	1.8	37	3.5	2.7	.28	.46	.16
2	.00	.07	35	4.4	2.8	1.8	24	3.4	2.2	.26	.31	.19
3	.00	.07	54	4.4	2.7	1.7	18	3.6	1.9	.85	.48	.18
4	.00	.05	e7.0	4.4	2.5	1.7	15	3.3	13	.58	.42	.14
5	.00	.02	e4.0	4.1	2.4	1.7	12	3.1	17	.39	.26	.14
6	.00	.02	3.0	3.7	2.3	1.7	11	2.8	7.1	.38	.18	.11
7	.00	.03	2.4	3.3	2.3	4.2	9.9	2.6	4.9	.36	.15	.08
8	.00	.03	2.1	3.2	2.1	5.6	8.8	2.6	4.1	.29	.62	.09
9	.00	.03	1.8	3.1	1.8	4.5	8.1	2.7	3.7	.29	1.2	.06
10	.00	.03	1.5	3.2	e1.6	4.5	7.3	2.5	3.2	.25	.51	.09
11	.00	.03	1.3	3.0	e1.7	4.7	6.7	2.4	2.8	.21	.39	.06
12	.00	.04	1.3	3.0	1.7	4.5	6.1	2.8	2.6	.16	.30	.05
13	.00	.06	9.7	2.9	1.9	4.1	5.6	4.0	2.4	.13	.25	.04
14	.00	.07	12	32	1.9	3.9	5.6	3.4	2.2	.11	.20	.00
15	.00	.08	5.3	19	2.8	3.5	27	2.9	2.1	.13	.17	.00
16	.00	.11	3.8	e9.0	4.1	3.1	42	2.6	1.9	.11	.14	.00
17	.00	.12	3.1	e7.0	3.7	3.3	42	2.4	1.7	.13	.12	.00
18	.00	.11	e2.4	e5.5	3.7	278	100	2.3	2.0	.13	.13	.00
19	.00	.13	e2.0	e5.0	3.7	266	39	2.3	1.8	.13	.11	.00
20	.00	.17	1.9	e4.6	3.3	91	27	2.2	1.3	.10	.11	.00
21	.00	.32	2.1	e4.2	3.0	43	35	2.0	1.1	.13	.09	.29
22	.00	.38	2.0	4.2	2.9	29	20	1.9	.87	.11	.08	1.3
23	.00	.31	55	5.1	2.8	19	13	2.1	.88	.18	.07	.61
24	.00	.27	25	6.1	2.7	14	9.9	2.8	1.1	.50	.06	.21
25	.00	.21	11	5.3	2.5	13	7.5	3.1	.81	.59	.05	.14
26	.00	.19	7.3	4.7	2.4	20	6.1	2.4	.61	.51	.03	.27
27	.00	.23	5.5	4.3	2.3	22	5.3	2.1	.51	.53	.11	.39
28	.00	.23	4.9	4.0	2.1	16	4.7	1.9	.40	.37	.82	.31
29	.00	.21	5.8	3.7	2.0	14	4.3	2.2	.37	.24	.60	.44
30	.00	2.4	6.5	3.5	---	67	4.0	3.6	.30	.19	.28	.15
31	.02	---	5.3	3.4	---	71	---	3.2	---	.20	.21	---
TOTAL	0.02	6.07	287.1	177.9	74.7	1019.3	561.9	84.7	87.55	8.82	8.91	5.50
MEAN	.001	.20	9.26	5.74	2.58	32.9	18.7	2.73	2.92	.28	.29	.18
MAX	.02	2.4	55	32	4.1	278	100	4.0	17	.85	1.2	1.3
MIN	.00	.02	1.3	2.9	1.6	1.7	4.0	1.9	.30	.10	.03	.00
CFSM	.00	.02	.72	.45	.20	2.57	1.46	.21	.23	.02	.02	.01
IN.	.00	.02	.83	.52	.22	2.96	1.63	.25	.25	.03	.03	.02

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1992, BY WATER YEAR (WY)

	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	3.67	20.7	33.8	32.6	40.3	50.2	47.1	30.3	14.7	10.3	5.02	3.54												
MAX	11.9	77.3	109	107	89.6	101	102	138	59.0	89.6	33.4	18.9												
(WY)	1991	1980	1991	1982	1990	1973	1972	1983	1990	1979	1977	1981												
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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1969 - 1992

ANNUAL TOTAL	6789.04	2322.47	
ANNUAL MEAN	18.6	6.35	
HIGHEST ANNUAL MEAN			24.3
LOWEST ANNUAL MEAN			43.6
HIGHEST DAILY MEAN	839	278	1770
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		1160	9270
INSTANTANEOUS PEAK STAGE		6.74	11.35
ANNUAL RUNOFF (CFSM)	1.45	.50	1.89
ANNUAL RUNOFF (INCHES)	19.73	6.75	25.74
10 PERCENT EXCEEDS	43	12	51
50 PERCENT EXCEEDS	2.0	1.9	5.3
90 PERCENT EXCEEDS	.00	.00	.36

WABASH RIVER BASIN

03374500 PATOKA RIVER NEAR CUZCO, IN

LOCATION.--Lat 38°26'30", long 86°43'01", in SW¹/₄,SW¹/₄ 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, 2.3 mi south of Cuzco, 0.7 mi downstream from Patoka Lake, 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 Patoka Lake since February 1978. Daily discharge computed from relation between discharge, head, and gate openings for Patoka Lake beginning Oct. 1, 1981.

COOPERATION.--Records of daily discharge provided by U.S. Army Corps of Engineers beginning Oct. 1, 1981.

AVERAGE DISCHARGE.--31 years, 218 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, 26 ft³/s Mar. 19 to Sept. 30; minimum daily, 25 ft³/s Oct. 1 to March 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	25	25	25	25	25	26	26	26	26	26	26
2	25	25	25	25	25	25	26	26	26	26	26	26
3	25	25	25	25	25	25	26	26	26	26	26	26
4	25	25	25	25	25	25	26	26	26	26	26	26
5	25	25	25	25	25	25	26	26	26	26	26	26
6	25	25	25	25	25	25	26	26	26	26	26	26
7	25	25	25	25	25	25	26	26	26	26	26	26
8	25	25	25	25	25	25	26	26	26	26	26	26
9	25	25	25	25	25	25	26	26	26	26	26	26
10	25	25	25	25	25	25	26	26	26	26	26	26
11	25	25	25	25	25	25	26	26	26	26	26	26
12	25	25	25	25	25	25	26	26	26	26	26	26
13	25	25	25	25	25	25	26	26	26	26	26	26
14	25	25	25	25	25	25	26	26	26	26	26	26
15	25	25	25	25	25	25	26	26	26	26	26	26
16	25	25	25	25	25	25	26	26	26	26	26	26
17	25	25	25	25	25	25	26	26	26	26	26	26
18	25	25	25	25	25	25	26	26	26	26	26	26
19	25	25	25	25	25	26	26	26	26	26	26	26
20	25	25	25	25	25	26	26	26	26	26	26	26
21	25	25	25	25	25	26	26	26	26	26	26	26
22	25	25	25	25	25	26	26	26	26	26	26	26
23	25	25	25	25	25	26	26	26	26	26	26	26
24	25	25	25	25	25	26	26	26	26	26	26	26
25	25	25	25	25	25	26	26	26	26	26	26	26
26	25	25	25	25	25	26	26	26	26	26	26	26
27	25	25	25	25	25	26	26	26	26	26	26	26
28	25	25	25	25	25	26	26	26	26	26	26	26
29	25	25	25	25	25	26	26	26	26	26	26	26
30	25	25	25	25	---	26	26	26	26	26	26	26
31	25	---	25	25	---	26	---	26	---	26	---	---
TOTAL	775	750	775	775	725	788	780	806	780	806	806	780
MEAN	25.0	25.0	25.0	25.0	25.0	25.4	26.0	26.0	26.0	26.0	26.0	26.0
MAX	25	25	25	25	25	26	26	26	26	26	26	26
MIN	25	25	25	25	25	25	26	26	26	26	26	26

CAL YR 1991 TOTAL 95427 MEAN 261 MAX 1830 MIN 25
WTR YR 1992 TOTAL 9346 MEAN 25.5 MAX 26 MIN 25

03375800 HALL CREEK NEAR ST. ANTHONY, IN

LOCATION.--Lat 38°21'45", long 86°49'43", in NW¹/₄/NW¹/₄, 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 fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.73	20	8.1	4.4	3.2	38	4.8	3.2	1.5	2.7	2.1
2	.00	1.1	246	9.7	4.1	3.1	27	4.3	2.8	1.5	2.0	3.6
3	.00	1.1	88	11	4.0	3.0	21	5.0	2.5	49	8.2	3.4
4	.00	.68	23	9.0	3.9	2.9	18	3.7	3.5	6.6	10	2.2
5	.00	.47	12	7.6	3.4	2.9	13	3.7	3.3	11	3.0	2.8
6	.00	.38	8.4	6.8	3.3	3.2	12	3.2	2.5	22	2.0	1.9
7	.00	.36	6.5	5.7	3.2	5.3	11	2.9	2.6	5.0	1.5	1.4
8	.00	.36	5.2	6.9	2.7	4.2	9.2	2.8	2.7	3.3	60	1.2
9	.00	.48	4.3	11	2.3	3.8	8.4	2.8	2.2	2.5	10	.81
10	.00	.46	3.4	8.7	2.0	6.6	7.6	2.5	1.8	3.3	48	3.4
11	.00	.44	2.9	7.4	2.3	5.3	7.0	2.2	1.7	9.3	20	1.4
12	.00	.50	3.0	7.4	2.3	4.9	6.1	17	2.6	2.5	6.6	.82
13	.00	.51	37	9.1	4.1	4.3	5.4	19	11	1.6	4.0	.66
14	.00	.64	24	98	4.1	4.2	5.6	5.6	6.9	1.3	2.9	.48
15	.00	.85	12	33	13	3.9	18	4.0	164	1.4	2.1	.37
16	.00	.88	8.2	e16	9.6	3.4	20	3.1	46	1.6	1.7	.33
17	.00	1.2	6.8	e12	7.5	5.0	19	6.2	14	1.5	1.5	.32
18	.00	1.2	4.7	e9.0	9.6	325	21	4.5	13	1.5	1.2	.32
19	.00	2.6	3.5	e8.3	7.9	240	21	3.7	6.5	17	1.1	.53
20	.00	8.1	3.2	e7.5	6.3	84	47	3.0	4.3	6.4	.94	.37
21	.00	7.8	6.5	e7.0	5.6	44	35	2.4	3.2	2.1	.80	1.2
22	.00	3.0	6.6	e8.0	5.4	31	21	2.4	2.5	1.8	.75	3.6
23	.00	1.8	92	20	5.8	21	15	3.1	16	1.7	.73	1.3
24	.00	1.2	35	14	5.7	16	12	12	22	1.5	.72	.78
25	.00	.92	19	10	5.0	19	9.3	4.4	5.3	39	25	.68
26	.08	.71	13	7.8	4.6	24	8.5	3.3	3.3	11	6.9	20
27	3.1	.67	9.4	7.2	4.3	20	7.3	2.6	2.4	33	72	7.5
28	2.6	.69	9.4	6.4	4.0	15	6.3	2.1	1.9	9.9	24	3.6
29	1.2	.74	17	5.9	3.4	22	5.8	5.6	1.7	4.7	6.9	2.0
30	.77	87	13	5.9	---	143	5.4	7.9	1.6	3.4	3.7	1.3
31	.60	---	9.2	5.5	---	68	---	4.2	---	5.9	2.6	---
TOTAL	8.35	127.57	752.2	389.9	143.8	1141.2	460.9	154.0	357.0	263.8	333.54	70.37
MEAN	.27	4.25	24.3	12.6	4.96	36.8	15.4	4.97	11.9	8.51	10.8	2.35
MAX	3.1	.87	246	98	13	325	47	19	164	49	72	20
MIN	.00	.36	2.9	5.5	2.0	2.9	5.4	2.1	1.6	1.3	.72	.32
CFSM	.01	.20	1.11	.58	.23	1.69	.70	.23	.55	.39	.49	.11
IN.	.01	.22	1.28	.67	.25	1.95	.79	.26	.61	.45	.57	.12

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1992, BY WATER YEAR (WY)

	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
MEAN	9.54	35.7	44.1	38.7	61.2	63.5	51.7	29.7	19.1	21.2	12.9	11.1											
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 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1971 - 1992
ANNUAL TOTAL	9183.81	4202.63	
ANNUAL MEAN	25.2	11.5	33.0
HIGHEST ANNUAL MEAN			78.4
LOWEST ANNUAL MEAN			11.5
HIGHEST DAILY MEAN	1120	325	5110
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		1160	11500
INSTANTANEOUS PEAK STAGE		10.60	15.30
ANNUAL RUNOFF (CFSM)	1.15	.53	1.51
ANNUAL RUNOFF (INCHES)	15.67	7.17	20.58
10 PERCENT EXCEEDS	56	21	64
50 PERCENT EXCEEDS	3.1	4.0	7.0
90 PERCENT EXCEEDS	.00	.47	.30

03376300 PATOKA RIVER AT WINSLOW, IN

LOCATION.--Lat 38°22'48", long 87°13'00", in SW¹/₄/SW¹/₄ 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. An average 0.13 ft³/s is diverted for 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e24	48	619	241	132	102	1460	146	138	e56	e95	92
2	e25	42	913	215	122	93	1320	133	104	e49	e81	71
3	e27	42	1980	199	111	86	1040	126	83	e130	e85	68
4	e24	44	1740	204	106	82	764	119	96	e260	e98	75
5	e27	42	1630	202	105	81	546	116	186	e180	e210	72
6	e33	39	1470	184	102	80	392	107	152	e140	e160	62
7	e32	38	1110	166	99	83	304	104	113	e130	e100	58
8	e37	38	708	155	95	93	258	101	90	e210	e82	53
9	e35	38	394	157	89	102	231	89	85	e140	e69	51
10	e33	38	225	186	82	114	197	82	76	e170	e80	56
11	e34	38	165	192	78	134	174	79	65	e360	e120	61
12	e32	38	139	176	76	145	157	79	57	e220	e100	67
13	e34	39	160	168	85	129	142	254	53	e130	e96	56
14	e35	39	247	326	100	118	128	324	59	e110	e71	49
15	e34	39	342	751	131	111	184	201	76	e150	e61	47
16	e35	41	270	723	202	103	526	132	127	e105	e56	46
17	e35	41	209	497	247	103	711	105	294	e268	e53	45
18	37	42	166	e320	250	306	690	96	161	e240	e50	45
19	35	48	139	e210	256	1460	695	113	85	e140	e50	44
20	34	90	121	e200	232	1540	712	115	66	e110	e51	44
21	34	151	119	e190	197	1510	891	117	53	e250	e51	58
22	35	160	131	185	169	1520	812	155	45	e230	e58	251
23	34	114	352	185	152	1440	610	168	44	e270	e56	157
24	35	77	784	239	146	1150	423	365	e380	e235	e54	74
25	37	58	807	260	144	831	318	454	e270	e212	e58	48
26	44	49	577	226	135	619	258	307	e170	e180	e61	55
27	65	45	368	191	125	516	225	175	e94	e240	e80	171
28	190	44	268	165	116	451	195	111	e80	e270	e200	212
29	184	43	241	151	108	377	175	91	e70	e200	e480	125
30	109	175	257	141	---	1020	160	132	e63	e160	e340	73
31	63	---	266	137	---	1550	---	174	---	e115	e150	---
TOTAL	1472	1780	16917	7542	3992	16049	14698	4870	3435	5660	3356	2386
MEAN	47.5	59.3	546	243	138	518	490	157	114	183	108	79.5
MAX	190	175	1980	751	256	1550	1460	454	380	360	480	251
MIN	24	38	119	137	76	80	128	79	44	49	50	44
CFSM	.08	.10	.90	.40	.23	.86	.81	.26	.19	.30	.18	.13
IN.	.09	.11	1.04	.47	.25	.99	.91	.30	.21	.35	.21	.15

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1992, BY WATER YEAR (WY)

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
MEAN	115	301	699	941	1341	1640	1454	881	394	264	146	144																		
MAX	579	959	2048	2576	2832	5126	3426	2909	1360	1305	457	408																		
(WY)	1991	1989	1991	1991	1991	1964	1972	1990	1990	1969	1990	1974																		
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 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1964 - 1992	
ANNUAL TOTAL	294013		82157			
ANNUAL MEAN	806		224		687	
HIGHEST ANNUAL MEAN					1064	
LOWEST ANNUAL MEAN					224	
HIGHEST DAILY MEAN	4940	Mar 26	1980	Dec 3	15200	Mar 13 1964
LOWEST DAILY MEAN	23	Sep 30	24	Oct 1	.50	Aug 5 1964
ANNUAL SEVEN-DAY MINIMUM	25	Sep 28	27	Oct 1	.61	Sep 8 1972
INSTANTANEOUS PEAK FLOW			2060		15500	
INSTANTANEOUS PEAK STAGE			19.53		28.84	
ANNUAL RUNOFF (CFSM)	1.34		.37		1.14	
ANNUAL RUNOFF (INCHES)	18.14		5.07		15.47	
10 PERCENT EXCEEDS	2930		519		1890	
50 PERCENT EXCEEDS	151		126		237	
90 PERCENT EXCEEDS	32		41		14	

WABASH RIVER BASIN

03378500 WABASH RIVER AT NEW HARMONY, IN

LOCATION.--Lat 38°07'55", long 87°56'25" in SE¹/₄SE¹/₄ 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 mi².

PERIOD OF RECORD.--August 1988 to current year. Water discharge published October 1938 to September 1947.

GAGE.--Water-stage recorder. Datum of gage is 353.30 ft. above sea level. (Furnished by National Weather Service).

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, 15.43 ft. April 27; minimum gage height, 0.73 ft., Oct. 2, 3.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.74	3.45	3.63	3.01	3.58	3.74	7.35	8.94	2.67	3.41	11.51	3.62
2	.74	3.29	4.04	2.98	3.37	3.56	7.41	7.76	2.59	3.15	11.00	3.47
3	.74	3.11	4.47	3.21	3.25	3.39	6.72	7.11	2.54	2.79	10.93	3.24
4	.75	2.94	5.00	3.49	3.18	3.23	6.21	6.68	2.53	2.62	11.08	3.04
5	.81	2.79	5.13	3.44	3.15	3.09	5.81	6.29	2.55	2.57	11.36	2.84
6	.77	2.60	5.07	3.21	3.11	3.01	5.43	5.93	2.65	2.83	11.43	3.00
7	.75	2.45	5.02	3.05	3.09	2.91	5.13	5.61	2.57	3.19	10.80	2.93
8	.79	2.31	4.97	3.05	3.14	2.82	4.86	5.29	2.54	3.25	9.39	2.50
9	.91	2.15	4.63	3.15	3.21	2.78	4.58	4.93	2.62	3.38	7.92	2.38
10	1.01	1.99	4.14	3.15	3.19	2.75	4.35	4.54	2.85	3.66	7.74	2.38
11	1.01	1.89	3.68	3.10	3.09	2.83	4.15	4.21	3.09	3.87	8.24	2.40
12	.98	1.79	3.45	3.03	2.97	3.18	3.99	4.05	2.98	4.01	7.84	2.36
13	.95	1.69	3.53	3.02	2.81	3.32	3.99	4.03	2.82	4.23	7.28	2.52
14	.91	1.61	3.39	3.21	2.71	3.51	4.04	3.98	2.67	4.62	6.99	3.26
15	.89	1.57	3.37	3.45	2.65	3.74	4.20	3.89	2.62	5.50	6.66	3.87
16	.83	1.54	3.53	3.55	2.71	3.79	4.47	3.69	2.47	6.57	6.25	3.82
17	.82	1.51	3.80	3.51	3.13	3.73	6.35	3.58	2.43	7.93	5.70	3.48
18	.83	1.55	---	3.39	3.59	3.74	8.78	3.67	2.33	8.94	5.09	3.17
19	.83	1.90	3.71	3.39	4.44	4.01	10.52	3.53	2.23	9.52	4.50	3.04
20	.83	3.68	3.46	3.27	5.57	5.07	11.76	3.31	2.11	10.10	3.91	3.02
21	.83	4.34	3.25	3.22	6.20	6.40	12.71	3.14	2.17	---	3.46	2.96
22	.83	5.08	3.10	3.21	6.29	6.92	13.47	3.01	3.31	---	3.10	2.90
23	.83	5.59	3.22	3.15	6.11	7.09	14.17	3.09	4.86	---	3.03	3.34
24	.89	5.94	3.50	3.19	5.70	7.11	14.65	3.86	6.09	---	2.72	3.70
25	.87	5.80	3.78	3.39	5.33	6.97	15.04	3.77	6.53	---	2.51	4.37
26	1.03	5.37	3.81	3.57	4.95	6.49	15.30	3.61	6.42	---	2.39	5.26
27	1.83	4.92	3.63	3.63	4.57	5.87	15.39	3.35	5.56	---	2.62	5.34
28	2.18	4.50	3.49	3.76	4.21	5.39	14.89	3.13	4.73	---	2.79	5.02
29	2.33	4.09	3.37	3.95	3.95	5.09	13.15	2.99	4.20	11.66	3.00	4.84
30	2.89	3.78	3.26	3.97	---	5.72	10.77	2.89	3.78	11.89	3.34	4.92
31	3.43	---	3.13	3.78	---	6.45	---	2.79	---	11.86	3.59	---
MEAN	1.12	3.17	---	3.34	3.91	4.44	8.65	4.41	3.32	---	6.39	3.43
MAX	3.43	5.94	---	3.97	6.29	7.11	15.39	8.94	6.53	---	11.51	5.34
MIN	.74	1.51	---	2.98	2.65	2.75	3.99	2.79	2.11	---	2.39	2.36

WABASH RIVER BASIN

03378550 BIG CREEK NEAR WADESVILLE, IN

LOCATION.--Lat 38°04'58", long 87°46'10", in SW¹/₄/SW¹/₄, 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 good except for estimated daily discharges, which are fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	1.1	91	4.0	3.2	4.8	155	13	10	.70	.40	1.7
2	.00	.93	1570	4.7	2.8	4.5	94	12	8.8	.78	.24	2.3
3	.00	.57	2470	12	2.9	4.4	71	12	8.4	1450	14	5.7
4	.00	.41	193	10	2.9	4.3	60	10	16	152	31	57
5	.04	.37	18	7.6	2.8	4.2	40	11	16	15	5.0	6.0
6	.00	.52	9.4	6.3	2.8	4.4	35	9.9	8.8	7.6	1.3	2.0
7	.00	.56	7.1	5.1	2.7	4.5	33	8.4	7.2	4.8	.61	5.4
8	.00	.42	5.7	5.7	2.3	4.2	28	7.8	6.1	2.9	.38	1.6
9	.00	.33	4.3	8.1	2.0	3.6	26	8.3	5.2	2.7	.25	.84
10	.14	.25	3.2	7.0	2.0	20	23	7.6	4.5	293	.20	2.8
11	.16	.21	2.8	5.2	2.3	26	21	6.5	3.9	4090	.15	4.8
12	.04	.22	2.6	5.2	7.6	10	16	20	3.4	689	.02	3.4
13	.00	.20	6.2	8.4	12	7.8	13	30	3.0	29	.00	1.3
14	.01	.22	10	43	22	6.4	14	12	2.9	20	.00	.86
15	.07	.19	5.6	24	27	7.1	42	7.7	2.8	259	.00	.62
16	.04	.53	3.4	e15	12	6.8	54	6.3	2.6	25	.00	.48
17	.06	.52	2.9	10	20	6.9	31	7.2	3.0	925	.00	.35
18	.04	.84	2.4	6.7	26	246	40	74	2.3	118	.00	.39
19	.04	.81	2.0	4.6	15	737	31	21	1.6	20	.00	.32
20	.04	39	1.8	5.4	11	168	131	85	1.3	11	.00	.30
21	.09	51	2.8	5.6	9.5	90	139	28	1.1	39	.00	17
22	.08	9.7	3.3	7.0	10	68	58	14	.79	12	.00	41
23	.04	2.3	24	8.7	13	49	41	23	.64	5.6	.01	11
24	.04	1.0	26	6.5	12	38	33	251	3.5	3.7	205	3.4
25	.09	.51	9.4	5.5	9.1	38	27	42	8.1	2.5	15	1.6
26	.15	.25	6.0	4.0	8.8	45	23	23	2.6	1.9	2.5	164
27	.19	.27	4.7	3.7	7.9	34	19	16	1.2	1.8	911	77
28	.30	.10	4.2	3.6	7.2	26	17	12	.85	1.3	932	19
29	.29	.01	5.4	3.4	6.5	35	16	14	.74	.99	26	7.1
30	.36	297	7.0	3.9	---	1410	16	34	.76	.73	6.8	4.5
31	.81	---	5.4	3.9	---	514	---	14	---	.61	3.3	---
TOTAL	3.12	410.34	4509.6	253.8	265.3	3627.9	1347	840.7	138.08	8185.61	2155.16	443.76
MEAN	.10	13.7	145	8.19	9.15	117	44.9	27.1	4.60	264	69.5	14.8
MAX	.81	297	2470	43	27	1410	155	251	16	4090	932	164
MIN	.00	.01	1.8	3.4	2.0	3.6	13	6.3	.64	.61	.00	.30
CFSM	.00	.13	1.40	.08	.09	1.13	.43	.26	.04	2.54	.67	.14
IN.	.00	.15	1.61	.09	.09	1.30	.48	.30	.05	2.93	.77	.16

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1992, BY WATER YEAR (WY)

	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	21.9	80.2	147	142	207	230	186	148	78.2	75.4	47.6	30.5															
MAX	131	513	710	559	727	581	577	742	285	264	341	233															
(WY)	1978	1986	1983	1982	1990	1975	1983	1990	1973	1992	1977	1982															
MIN	.019	.96	.30	.13	9.15	14.3	8.73	2.98	.62	.37	.18	.000															
(WY)	1969	1966	1966	1977	1992	1981	1981	1988	1988	1991	1988	1983															

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1966 - 1992

ANNUAL TOTAL	32719.51	22180.37	
ANNUAL MEAN	89.6	60.6	116
HIGHEST ANNUAL MEAN			205
LOWEST ANNUAL MEAN			38.7
HIGHEST DAILY MEAN	4050	4090	6440
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		5030	7880
INSTANTANEOUS PEAK STAGE		18.56	19.72
ANNUAL RUNOFF (CFSM)	.86	.58	1.11
ANNUAL RUNOFF (INCHES)	11.70	7.93	15.11
10 PERCENT EXCEEDS	146	55	215
50 PERCENT EXCEEDS	4.4	5.6	16
90 PERCENT EXCEEDS	.04	.10	.20

STREAMS TRIBUTARY TO LAKE MICHIGAN

04092677 GRAND CALUMET RIVER AT GARY, IN

LOCATION.--Lat 41°36'29", long 87°23'39", in NW¹/₄NW¹/₄, sec. 6, T.37 N., R.8W., Lake County, Hydrologic Unit 04040001, on left bank, 100 feet streamward of the centerline of Interstate 90, 30 feet upstream of U.S. 12 (Industrial Highway).

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1991 to current year.

GAGE.--Water-stage recorder. Datum of gage is 580.00 ft above sea level.

REMARKS.--Stage affected by backwater from indeterminate sources.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 4.14 ft, Sept. 9, 1992; minimum gage height, 1.08 ft, Feb. 13, 1992

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 4.14 ft, Sept. 9; minimum gage height, 1.08 ft, Feb. 13.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	2.14	1.97	1.73	1.60	1.53	1.79	2.28	2.94	3.51	2.82	2.54
2	---	2.18	2.11	1.74	1.60	1.59	1.75	2.28	2.94	3.78	2.79	2.42
3	2.54	2.07	1.98	1.76	1.56	1.56	1.78	2.26	3.02	3.54	2.90	2.40
4	3.35	2.12	1.90	1.72	1.52	1.53	1.83	2.34	3.21	3.44	2.83	2.42
5	2.52	2.07	1.96	1.74	1.41	1.66	1.73	2.30	3.09	3.48	2.69	2.32
6	2.31	2.14	1.58	1.71	1.48	1.79	1.76	2.28	3.22	3.32	2.57	2.37
7	2.29	2.10	1.79	1.65	1.61	1.67	1.75	2.29	3.17	3.40	2.68	2.36
8	2.23	2.04	2.03	1.74	1.58	1.55	1.79	2.35	3.23	3.44	2.70	2.15
9	2.37	1.97	1.72	1.75	1.38	2.37	1.80	2.43	3.28	3.36	2.69	3.72
10	2.30	2.11	1.72	1.63	1.46	2.06	2.06	2.43	3.26	3.42	2.70	2.42
11	2.42	2.14	1.90	1.68	1.35	1.73	1.92	2.48	3.33	3.43	2.71	2.33
12	2.47	2.06	2.14	1.56	1.38	1.71	1.85	2.63	3.38	3.50	2.95	2.19
13	2.35	2.09	1.86	1.86	1.24	1.68	1.89	2.36	3.43	3.59	2.70	2.16
14	2.39	2.16	1.83	1.73	1.46	1.68	1.98	2.46	3.57	3.66	2.72	2.40
15	2.36	2.23	1.81	1.71	1.62	1.62	2.16	2.48	3.56	3.31	2.67	2.03
16	---	2.13	1.75	1.49	1.44	1.53	2.19	2.44	3.50	3.28	2.52	2.19
17	---	2.02	---	1.51	1.47	1.69	2.06	---	3.59	3.24	2.55	2.20
18	---	2.13	---	1.48	1.59	1.76	2.10	2.58	3.45	3.24	2.58	2.29
19	2.37	2.46	---	1.52	1.51	1.67	2.11	2.58	3.39	3.16	2.50	2.22
20	2.31	2.18	1.75	1.53	1.59	1.66	2.13	2.57	3.54	3.15	2.50	2.15
21	2.31	2.12	1.68	1.64	1.54	1.76	2.11	2.62	3.43	3.18	2.55	2.20
22	2.39	2.10	1.73	1.77	1.54	1.72	2.08	2.78	3.47	3.17	2.44	2.22
23	2.39	1.92	1.78	1.77	1.57	1.71	2.28	2.83	3.47	3.18	2.55	2.20
24	2.43	1.97	1.71	1.64	1.71	1.62	2.30	2.87	3.40	3.10	2.48	2.20
25	2.62	1.73	1.63	1.59	1.64	1.72	2.20	2.85	3.41	3.08	2.50	2.25
26	3.09	1.77	1.78	1.50	1.52	2.02	2.32	2.82	3.48	2.97	2.62	2.30
27	2.55	1.85	1.74	1.72	1.53	1.75	2.31	2.79	3.45	2.95	2.98	2.11
28	2.44	2.08	1.74	1.53	1.63	1.73	2.20	2.84	3.44	2.90	2.55	2.10
29	2.46	2.04	1.84	1.47	1.40	1.84	2.30	2.94	3.48	2.91	2.29	2.09
30	2.72	2.08	1.81	1.55	---	1.76	2.28	2.95	3.50	3.26	2.32	2.12
31	2.46	---	1.75	1.73	---	1.80	---	2.91	---	2.97	2.41	---
MEAN	---	2.07	---	1.65	1.51	1.72	2.03	---	3.35	3.29	2.63	2.30
MAX	---	2.46	---	1.86	1.71	2.37	2.32	---	3.59	3.78	2.98	3.72
MIN	---	1.73	---	1.47	1.24	1.53	1.73	---	2.94	2.90	2.29	2.03

STREAMS TRIBUTARY TO LAKE MICHIGAN

04092750 INDIANA HARBOR CANAL AT EAST CHICAGO, IN

LOCATION.--Lat 41°39'27", long 87°27'21", in NE¹/₄SE¹/₄, sec.16, T.37N., R.9W., Lake County, Hydrologic Unit 04040001, on right bank 1200 ft downstream (northeast) of Dickey Road bridge.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1991 to current year.

GAGE.--Water-stage recorder, ultrasonic velocity meter. Datum of gage is 570.00 ft above sea level.

REMARKS.--Records fair. Positive discharges denote flow in a northeasterly direction, towards Lake Michigan; negative discharges denote flow in a southwesterly direction, away from Lake Michigan. No value days are a result of equipment failure or damage, missing discharges are not estimated due to the complex conditions at this site.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	635	---	---	---	---	---	499
2	---	---	---	---	---	731	---	---	---	---	---	536
3	---	---	---	---	---	726	---	---	---	---	---	643
4	---	---	---	---	---	737	---	---	---	---	---	567
5	973	---	---	---	---	679	654	---	---	---	---	591
6	758	---	---	---	---	787	717	---	---	---	---	632
7	748	---	---	---	---	802	678	---	---	---	---	551
8	743	---	---	710	---	731	703	---	---	---	---	638
9	665	---	---	740	---	616	666	---	---	---	---	---
10	728	---	---	760	---	875	697	---	---	---	---	1020
11	709	---	---	655	---	862	710	---	---	---	---	726
12	703	---	---	718	---	787	700	---	---	---	---	500
13	708	---	---	559	---	751	667	---	---	---	---	615
14	700	---	---	737	---	726	691	---	---	---	---	651
15	711	---	---	648	749	719	748	---	---	---	---	727
16	---	---	---	749	777	739	730	---	---	---	---	661
17	---	---	---	695	658	678	746	---	---	---	---	---
18	---	---	---	704	734	679	688	---	---	---	---	---
19	---	---	---	660	631	748	716	---	---	---	---	---
20	---	---	---	728	397	683	674	---	---	---	---	---
21	---	---	---	715	669	702	681	---	---	---	---	---
22	---	---	---	734	718	781	1270	---	---	---	---	---
23	---	---	---	703	692	709	1350	---	---	---	---	634
24	---	---	---	739	721	674	735	---	---	---	---	---
25	---	---	---	725	760	682	686	---	---	---	---	---
26	---	---	---	712	760	607	659	---	---	---	516	716
27	---	---	---	640	734	833	763	---	---	---	558	531
28	---	---	---	---	660	679	708	---	---	---	595	---
29	---	---	---	---	807	696	---	---	---	---	266	---
30	---	---	---	---	---	738	---	---	---	---	-281	---
31	---	---	---	---	---	629	---	---	---	---	523	---
TOTAL	---	---	---	---	---	22421	---	---	---	---	---	---
MEAN	---	---	---	---	---	723	---	---	---	---	---	---
MAX	---	---	---	---	---	875	---	---	---	---	---	---
MIN	---	---	---	---	---	607	---	---	---	---	---	---

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

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	---	---	---	---	---	723	---	---	---	---	---	---
MAX	---	---	---	---	---	723	---	---	---	---	---	---
(WY)	---	---	---	---	---	1992	---	---	---	---	---	---
MIN	---	---	---	---	---	723	---	---	---	---	---	---
(WY)	---	---	---	---	---	1992	---	---	---	---	---	---

STREAMS TRIBUTARY TO LAKE MICHIGAN

04093200 LITTLE CALUMET RIVER AT GARY, IN

LOCATION.--Lat 41°34'19", long 87°19'13", in NE¹/₄SE¹/₄, 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.--5.8 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, 9.60 ft, Dec. 4; minimum gage height, 5.74 ft, Oct. 2.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.76	9.02	9.00	8.53	8.56	8.67	8.59	8.64	7.88	7.49	8.12	8.56
2	7.09	9.06	9.18	8.51	8.49	8.63	8.59	8.62	7.84	7.67	8.09	8.53
3	7.05	9.05	9.53	8.50	8.63	8.61	8.65	8.61	7.80	7.59	8.62	8.63
4	8.16	8.93	9.59	8.49	8.55	8.58	8.63	8.57	8.01	7.51	8.72	8.60
5	8.42	8.75	9.46	8.49	8.56	8.56	8.57	8.54	8.05	7.44	8.70	8.57
6	8.42	8.47	8.90	8.49	8.58	8.67	8.60	8.51	8.02	7.39	8.64	8.55
7	8.38	8.08	8.74	8.58	8.58	8.78	8.54	8.55	8.01	7.32	8.62	8.54
8	8.13	7.77	8.83	8.63	8.51	8.86	8.51	8.56	7.97	7.28	8.61	8.56
9	7.83	7.54	8.84	8.63	8.46	8.89	8.60	8.56	7.97	7.21	8.59	9.17
10	7.57	7.28	8.89	8.62	8.43	8.91	8.68	8.56	7.92	7.28	8.58	9.28
11	7.19	7.05	8.86	8.80	8.41	8.91	8.75	8.48	7.88	7.22	8.58	9.26
12	6.95	6.97	8.80	8.74	8.39	8.90	8.76	8.40	7.83	7.23	8.69	9.26
13	6.75	6.65	8.84	8.65	8.36	8.86	8.72	8.30	7.77	7.74	8.67	9.19
14	6.62	7.82	8.86	8.59	8.36	8.81	8.69	8.23	8.23	7.86	8.64	9.10
15	6.60	7.36	8.77	8.53	8.68	8.76	8.76	8.15	8.08	7.76	8.61	9.01
16	6.50	6.98	8.77	8.50	8.82	8.72	8.78	8.07	7.99	7.77	8.60	8.93
17	6.42	6.90	8.77	8.49	8.87	8.69	8.79	8.00	8.13	7.79	8.57	8.82
18	6.39	7.10	8.56	8.45	8.94	8.64	8.82	7.98	8.03	7.87	8.55	8.77
19	6.41	8.19	8.46	8.42	9.01	8.62	8.82	7.94	7.98	7.87	8.51	8.70
20	6.39	8.68	8.64	8.40	9.04	8.59	8.85	7.91	7.95	7.99	8.46	8.66
21	6.37	9.03	8.64	8.39	9.00	8.57	8.83	7.87	7.95	7.99	8.42	8.65
22	6.32	9.18	8.61	8.46	8.96	8.61	8.81	8.14	7.89	7.98	8.39	8.61
23	6.38	9.21	8.62	8.57	8.90	8.64	8.76	8.16	7.85	7.99	8.40	8.58
24	6.53	9.16	8.60	8.62	8.88	8.65	8.75	8.11	7.82	7.99	8.36	8.55
25	7.49	9.03	8.57	8.63	8.86	8.65	8.74	8.06	7.77	8.04	8.34	8.51
26	8.14	8.96	8.58	8.60	8.85	8.71	8.73	8.05	7.74	8.06	8.32	8.56
27	8.45	8.72	8.62	8.57	8.84	8.64	8.71	8.01	7.68	8.06	8.58	8.63
28	8.61	8.58	8.61	8.53	8.83	8.64	8.70	7.95	7.63	8.02	8.70	8.65
29	8.57	8.55	8.58	8.50	8.74	8.60	8.69	7.90	7.57	8.01	8.72	8.63
30	8.83	8.78	8.54	8.49	---	8.59	8.66	7.92	7.51	8.07	8.68	8.58
31	8.89	---	8.56	8.67	---	8.59	---	7.89	---	8.16	8.62	---
MEAN	7.34	8.23	8.80	8.55	8.69	8.70	8.70	8.23	7.89	7.73	8.54	8.75
MAX	8.89	9.21	9.59	8.80	9.04	8.91	8.85	8.64	8.23	8.16	8.72	9.28
MIN	5.76	6.65	8.46	8.39	8.36	8.56	8.51	7.87	7.51	7.21	8.09	8.51

WTR YR 1992 MEAN 8.34 MAX 9.59 MIN 5.76

STREAMS TRIBUTARY TO LAKE MICHIGAN

04095300 TRAIL CREEK AT MICHIGAN CITY, IN

LOCATION.--Lat 41°43'00", long 86°51'35", in NE¹/₄, SE¹/₄, sec.27, T.38 N., R.4 W., LaPorte County, Hydrologic Unit 04040001, on right upstream side of bridge on Springland Avenue in Michigan City, 1.0 mi upstream from Otter Creek, and 4.2 mi upstream from mouth.
 DRAINAGE AREA.--54.1 mi².
 PERIOD OF RECORD.--June 1969 to current year.
 GAGE.--Water-stage recorder. Datum of gage is 584.02 ft above sea level.
 REMARKS.--Records good except for estimated daily discharges, which are fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	145	210	66	71	64	107	60	35	33	62	27
2	39	124	130	67	68	62	93	58	35	38	46	28
3	45	88	130	69	77	60	95	56	33	40	40	114
4	120	76	107	67	92	60	90	55	38	34	37	40
5	198	70	92	64	77	58	77	55	50	33	35	34
6	69	68	90	64	70	70	71	54	43	31	33	33
7	51	67	143	62	67	119	69	54	54	31	32	32
8	45	66	168	67	63	87	66	55	39	31	34	36
9	42	64	214	75	60	79	63	54	36	31	32	152
10	41	64	136	70	59	142	63	54	34	31	31	371
11	42	67	103	65	63	111	83	53	34	31	30	93
12	43	66	115	64	59	96	70	56	32	32	31	59
13	43	64	213	65	58	85	63	63	32	41	33	48
14	50	63	127	72	58	91	63	51	35	60	31	44
15	48	117	94	66	155	85	84	50	41	56	30	42
16	44	106	80	e64	162	82	108	47	32	41	29	40
17	42	81	78	e62	108	138	86	44	63	60	30	38
18	41	116	73	e59	131	100	83	43	95	42	31	60
19	47	132	69	e58	120	81	79	42	43	39	32	44
20	45	447	69	e58	98	72	79	40	39	42	29	40
21	44	267	75	60	83	69	74	39	37	42	27	58
22	42	146	76	64	79	88	66	39	36	37	27	50
23	42	111	88	144	77	102	64	40	35	42	27	42
24	52	96	92	121	72	126	69	40	35	39	27	40
25	259	86	79	83	109	104	75	39	40	38	27	38
26	340	79	73	74	86	92	72	39	45	47	27	75
27	239	101	72	70	75	107	66	38	38	40	36	107
28	124	132	71	68	71	104	63	36	35	35	37	60
29	92	204	72	68	66	116	62	35	33	33	32	47
30	272	375	71	68	---	121	63	37	33	41	30	44
31	261	---	68	70	---	97	---	38	---	160	28	---
TOTAL	2895	3688	3278	2194	2434	2868	2266	1464	1210	1331	1013	1936
MEAN	93.4	123	106	70.8	83.9	92.5	75.5	47.2	40.3	42.9	32.7	64.5
MAX	340	447	214	144	162	142	108	63	95	160	62	371
MIN	33	63	68	58	58	58	62	35	32	31	27	27
CFSM	1.73	2.27	1.95	1.31	1.55	1.71	1.40	.87	.75	.79	.60	1.19
IN.	1.99	2.54	2.25	1.51	1.67	1.97	1.56	1.01	.83	.92	.70	1.33

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1992, BY WATER YEAR (WY)

	56.2	82.3	82.6	72.0	89.7	115	104	87.8	67.4	49.2	47.2	47.0
MEAN	56.2	82.3	82.6	72.0	89.7	115	104	87.8	67.4	49.2	47.2	47.0
MAX	142	236	148	118	189	249	172	159	137	121	190	88.6
(WY)	1991	1991	1991	1973	1985	1982	1983	1990	1981	1986	1990	1981
MIN	35.3	37.6	40.4	38.7	51.8	56.8	47.1	46.5	33.7	28.9	28.8	29.2
(WY)	1980	1972	1990	1977	1978	1981	1971	1977	1971	1971	1970	1988

SUMMARY STATISTICS FOR 1991 CALENDAR YEAR FOR 1992 WATER YEAR WATER YEARS 1970 - 1992

ANNUAL TOTAL	33576		26577		74.9	
ANNUAL MEAN	92.0		72.6		109	
HIGHEST ANNUAL MEAN					1991	
LOWEST ANNUAL MEAN					1977	
HIGHEST DAILY MEAN	549	Jun 1	447	Nov 20	2550	Nov 28 1990
LOWEST DAILY MEAN	31	Aug 1	27	Aug 21	20	Aug 1 1977
ANNUAL SEVEN-DAY MINIMUM	32	Aug 1	27	Aug 20	22	Jul 27 1977
INSTANTANEOUS PEAK FLOW			515	Sep 10	3880	Nov 28 1990
INSTANTANEOUS PEAK STAGE			7.15	Sep 10	12.79	Nov 28 1990
ANNUAL RUNOFF (CFSM)	1.70		1.34		1.39	
ANNUAL RUNOFF (INCHES)	23.09		18.27		18.82	
10 PERCENT EXCEEDS	178		121		123	
50 PERCENT EXCEEDS	75		63		55	
90 PERCENT EXCEEDS	34		33		33	

04095300 TRAIL CREEK AT MICHIGAN CITY, IN

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1990 to current year.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: June 1990 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 358 mg/L, Nov. 27, 1990; minimum daily mean, 1 mg/L, Feb. 10, 1992.
 SEDIMENT LOADS: Maximum daily, 927 tons, Nov. 28, 1990; minimum daily, 0.21 ton, Feb. 10, 1992.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, unknown (probably occurred during estimated period in November); minimum daily mean, 1 mg/L, Feb. 10.
 SEDIMENT LOADS: Maximum daily, 450 tons, Nov. 20; minimum daily, 0.21 ton, Feb. 10.

STATION	NUMBER	DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-	SEDI-	SED.	
					CHARGE, INST. CUBIC FEET PER SECOND (00061)	MENT, DIS- CHARGE, SUS- PENDED (MG/L) (80154)	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SUSP. SIEVE DIAM. & FINER % THAN .062 MM (70331)
04095300		11-21-91	1250	4.56	260	74	52	57
		12-11-91	1020	3.20	107	24	6.9	62
		01-09-92	1650	2.85	71	8	1.5	65
		02-04-92	1010	3.10	91	25	6.1	61
		03-04-92	1520	2.65	61	9	1.5	52
		03-31-92	1230	3.08	95	17	4.4	43
		04-29-92	1835	2.72	67	9	1.6	55
		06-03-92	1230	2.33	33	25	2.3	76
		06-24-92	1510	2.35	35	20	1.9	58
		07-28-92	1200	2.27	37	19	1.9	97
		08-19-92	1645	2.25	31	14	1.2	74
		09-16-92	1142	2.40	40	9	0.98	75

STREAMS TRIBUTARY TO LAKE MICHIGAN

04095300 TRAIL CREEK AT MICHIGAN CITY, IN

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	33	---	1.0	145	---	110	210	26	16
2	39	---	3.0	124	---	90	130	7	2.5
3	45	---	6.0	88	---	45	130	12	4.3
4	120	---	80	76	---	30	107	10	2.8
5	198	---	180	70	---	25	92	11	2.9
6	69	---	25	68	---	20	90	14	3.3
7	51	---	9.0	67	---	20	143	54	24
8	45	---	6.0	66	---	20	168	52	27
9	42	---	5.0	64	---	19	214	90	54
10	41	---	4.0	64	---	19	136	26	9.5
11	42	---	5.0	67	---	20	103	18	5.1
12	43	---	5.0	66	---	20	115	42	16
13	43	---	5.0	64	---	19	213	96	59
14	50	---	9.0	63	---	18	127	23	7.9
15	48	---	8.0	117	---	80	94	14	3.5
16	44	---	6.0	106	---	65	80	9	2.0
17	42	---	5.0	81	---	35	78	10	2.2
18	41	---	4.0	116	---	80	73	12	2.4
19	47	---	7.0	132	---	95	69	8	1.5
20	45	---	6.0	447	---	450	69	9	1.6
21	44	---	6.0	267	---	260	75	10	2.0
22	42	---	5.0	146	---	110	76	11	2.2
23	42	---	5.0	111	---	70	88	12	2.8
24	52	---	10	96	---	50	92	9	2.1
25	259	---	250	86	---	40	79	5	1.2
26	340	---	350	79	---	35	73	5	.95
27	239	---	230	101	---	60	72	5	.94
28	124	---	90	132	---	95	71	5	.99
29	92	---	45	204	---	190	72	11	2.1
30	272	---	270	375	---	380	71	10	1.8
31	261	---	250	---	---	---	68	9	1.6
TOTAL	2895	---	1890.0	3688	---	2570	3278	---	266.18

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	66	9	1.6	71	8	1.5	64	6	.95
2	67	13	2.3	68	7	1.3	62	7	1.1
3	69	9	1.8	77	12	2.7	60	6	.91
4	67	7	1.2	92	21	5.2	60	7	1.2
5	64	11	2.0	77	5	1.2	58	11	1.7
6	64	11	2.0	70	2	.40	70	13	2.7
7	62	10	1.7	67	3	.62	119	64	21
8	67	9	1.6	63	3	.47	87	22	5.2
9	75	10	2.1	60	2	.40	79	28	6.2
10	70	6	1.2	59	1	.21	142	69	27
11	65	8	1.4	63	6	1.1	111	27	8.2
12	64	7	1.2	59	8	1.3	96	18	4.7
13	65	7	1.2	58	3	.47	85	12	2.8
14	72	8	1.5	58	4	.60	91	9	2.3
15	66	6	1.1	155	115	57	85	11	2.5
16	e64	9	1.9	162	74	34	82	10	2.2
17	e62	10	1.9	108	22	6.4	138	59	23
18	e59	11	1.8	131	42	16	100	24	6.7
19	e58	13	2.1	120	21	6.9	81	9	2.0
20	e58	13	2.2	98	15	4.0	72	5	.89
21	60	11	1.7	83	11	2.5	69	7	1.3
22	64	10	1.8	79	10	2.0	88	11	2.7
23	144	87	38	77	8	1.7	102	17	5.2
24	121	33	12	72	7	1.4	126	36	12
25	83	13	3.0	109	22	6.8	104	24	6.8
26	74	7	1.5	86	11	2.7	92	16	3.9
27	70	12	2.2	75	11	2.2	107	15	4.3
28	68	13	2.4	71	8	1.6	104	11	3.0
29	68	7	1.3	66	6	1.0	116	20	6.5
30	68	9	1.6	---	---	---	121	21	7.0
31	70	7	1.4	---	---	---	97	13	3.5
TOTAL	2194	---	100.7	2434	---	163.67	2868	---	179.45

e Estimated

STREAMS TRIBUTARY TO LAKE MICHIGAN

04095300 TRAIL CREEK AT MICHIGAN CITY, IN --Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
	APRIL			MAY			JUNE		
1	107	16	4.6	60	7	1.2	35	19	1.8
2	93	9	2.4	58	6	.96	35	36	3.4
3	95	11	2.7	56	7	1.0	33	28	2.5
4	90	7	1.8	55	8	1.2	38	39	4.1
5	77	7	1.4	55	6	.86	50	50	6.9
6	71	7	1.3	54	9	1.3	43	34	4.0
7	69	10	1.9	54	9	1.3	54	45	6.6
8	66	11	2.0	55	9	1.3	39	40	4.3
9	63	13	2.3	54	7	.96	36	38	3.7
10	63	12	2.1	54	7	1.0	34	37	3.4
11	83	13	2.9	53	10	1.4	34	44	4.0
12	70	4	.80	56	16	2.8	32	37	3.2
13	63	5	.80	63	26	4.5	32	26	2.2
14	63	7	1.2	51	11	1.4	35	30	4.0
15	84	17	4.4	50	7	.99	41	88	9.7
16	108	17	4.9	47	14	1.8	32	40	3.4
17	86	9	2.2	44	15	1.8	63	115	39
18	83	7	1.7	43	23	2.7	95	165	50
19	79	9	1.8	42	16	1.8	43	54	6.3
20	79	16	3.5	40	15	1.6	39	19	2.1
21	74	14	2.7	39	23	2.4	37	7	.67
22	66	10	1.7	39	26	2.7	36	8	.80
23	64	11	1.9	40	19	2.0	35	7	.70
24	69	13	2.4	40	18	1.9	35	17	1.6
25	75	6	1.3	39	14	1.5	40	18	2.7
26	72	6	1.2	39	17	1.8	45	32	3.9
27	66	7	1.3	38	16	1.7	38	12	1.2
28	63	7	1.2	36	21	2.1	35	33	3.1
29	62	5	.88	35	23	2.2	33	27	2.5
30	63	4	.65	37	26	2.6	33	17	1.5
31	---	---	---	38	23	2.4	---	---	---
TOTAL	2266	---	61.93	1464	---	55.17	1210	---	183.27

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
	JULY			AUGUST			SEPTEMBER		
1	33	20	1.8	62	70	12	27	22	1.6
2	38	18	2.2	46	36	4.5	28	20	1.5
3	40	15	1.6	40	37	4.0	114	337	126
4	34	34	3.2	37	37	3.8	40	49	5.5
5	33	26	2.4	35	32	3.0	34	24	2.2
6	31	24	2.1	33	37	3.3	33	29	2.6
7	31	32	2.6	32	29	2.5	32	27	2.3
8	31	29	2.5	34	39	3.6	36	37	3.6
9	31	20	1.6	32	30	2.6	152	243	202
10	31	26	2.2	31	41	3.5	371	286	323
11	31	24	2.0	30	27	2.2	93	84	22
12	32	40	3.5	31	31	2.8	59	37	5.9
13	41	68	7.6	33	32	2.8	48	26	3.3
14	60	89	17	31	19	1.6	44	17	2.1
15	56	91	14	30	12	.95	42	16	1.8
16	41	57	6.3	29	20	1.6	40	10	1.1
17	60	81	14	30	27	2.1	38	9	.92
18	42	43	4.9	31	36	3.4	60	328	70
19	39	24	2.5	32	46	4.0	44	79	9.8
20	42	47	5.7	29	34	2.7	40	13	1.4
21	42	43	4.9	27	20	1.5	58	44	7.3
22	37	14	1.4	27	24	1.7	50	30	4.1
23	42	35	4.0	27	22	1.6	42	20	2.3
24	39	16	1.7	27	29	2.1	40	16	1.7
25	38	23	2.3	27	37	2.6	38	18	1.9
26	47	39	4.9	27	31	2.3	75	56	15
27	40	29	3.0	36	62	6.6	107	86	25
28	35	30	2.9	37	46	4.7	60	40	6.5
29	33	27	2.5	32	36	3.1	47	23	2.9
30	41	54	9.3	30	27	2.2	44	20	2.3
31	160	231	107	28	27	2.0	---	---	---
TOTAL	1331	---	243.6	1013	---	97.35	1936	---	857.62

STREAMS TRIBUTARY TO LAKE MICHIGAN

04096100 GALENA RIVER NEAR LAPORTE, IN

LOCATION.--Lat 41°44'54", long 86°40'30", in SE¹/₄,NW¹/₄, 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 fair.
 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 1991 TO SEPTEMBER 1992
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	47	58	26	25	25	34	21	12	10	23	12
2	11	45	41	26	25	25	31	19	12	10	17	12
3	15	37	43	27	26	23	30	19	11	12	17	32
4	30	34	37	26	28	22	30	18	14	12	18	20
5	58	31	34	25	26	22	28	18	24	11	16	16
6	32	30	32	25	24	27	26	17	17	10	14	15
7	26	29	48	24	24	53	25	17	18	10	13	17
8	21	28	51	26	24	35	24	17	15	10	15	19
9	20	27	68	28	23	32	23	17	14	9.7	14	36
10	19	28	42	26	23	47	23	16	13	9.8	13	100
11	19	27	35	25	24	38	27	16	12	9.9	13	35
12	21	28	37	25	22	33	25	16	12	11	13	23
13	24	27	56	25	22	30	23	17	15	13	13	19
14	24	26	38	27	22	30	24	16	12	27	12	16
15	22	42	32	24	51	29	30	16	15	21	12	18
16	20	38	28	e24	52	29	37	15	13	17	11	20
17	19	31	28	e24	37	47	30	15	12	18	11	16
18	19	35	27	e23	45	34	28	15	17	16	13	20
19	23	37	26	e23	43	29	26	14	15	14	15	17
20	22	110	26	e23	36	26	29	14	14	13	13	16
21	21	68	28	e23	30	26	26	13	13	13	12	28
22	19	42	29	24	29	30	24	13	13	12	12	22
23	19	36	33	40	29	32	24	14	13	15	12	17
24	22	33	33	34	27	37	25	14	13	15	11	15
25	72	32	29	29	34	34	26	14	12	13	11	14
26	125	29	27	27	29	31	26	14	13	15	11	26
27	78	36	27	26	27	37	24	14	13	14	13	53
28	47	43	27	25	26	35	23	13	12	12	15	28
29	38	59	28	25	25	38	23	12	11	11	15	20
30	86	94	28	25	---	38	23	13	11	12	14	18
31	83	---	27	25	---	32	---	13	---	40	13	---
TOTAL	1066	1209	1103	805	858	1006	797	480	411	436.4	425	720
MEAN	34.4	40.3	35.6	26.0	29.6	32.5	26.6	15.5	13.7	14.1	13.7	24.0
MAX	125	110	68	40	52	53	37	21	24	40	23	100
MIN	11	26	26	23	22	22	23	12	11	9.7	11	12
CFSM	2.00	2.34	2.07	1.51	1.72	1.89	1.54	.90	.80	.82	.80	1.40
IN.	2.31	2.61	2.39	1.74	1.86	2.18	1.72	1.04	.89	.94	.92	1.56

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1992, BY WATER YEAR (WY)

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
MEAN	22.9	29.6	31.1	25.9	30.9	38.6	34.7	27.0	21.6	15.6	14.7	16.9												
MAX	43.8	64.4	51.8	40.4	51.6	70.1	56.0	45.2	38.1	26.2	26.3	29.1												
(WY)	1991	1991	1973	1974	1985	1982	1970	1981	1973	1978	1990	1972												
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 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1970 - 1992	
ANNUAL TOTAL	10599.7		9316.4			
ANNUAL MEAN	29.0		25.5		25.7	
HIGHEST ANNUAL MEAN					32.6	
LOWEST ANNUAL MEAN					21.0	
HIGHEST DAILY MEAN	148	Jun 1	125	Oct 26	e650	Nov 28 1990
LOWEST DAILY MEAN	9.8	Aug 3	9.7	Jul 9	6.7	Sep 13 1973
ANNUAL SEVEN-DAY MINIMUM	10	Aug 1	10	Jul 5	7.6	Aug 27 1970
INSTANTANEOUS PEAK FLOW			156	Oct 26	e900	Nov 28 1990
INSTANTANEOUS PEAK STAGE			4.50	Oct 26	7.02	Mar 4 1979
ANNUAL RUNOFF (CFSM)	1.69		1.48		1.50	
ANNUAL RUNOFF (INCHES)	22.92		20.15		20.34	
10 PERCENT EXCEEDS	50		38		42	
50 PERCENT EXCEEDS	27		24		21	
90 PERCENT EXCEEDS	12		12		12	

e Estimated

STREAMS TRIBUTARY TO LAKE MICHIGAN

04099750 PIGEON RIVER NEAR SCOTT, IN

LOCATION.--Lat 41°44'56", long 85°34'35", in SE¹/₄NW¹/₄, 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.

GAGE.--Water-stage recorder. Datum of gage is 815.00 ft above sea level.

REMARKS.--Records good except for estimated daily discharges which are fair.

CORRECTIONS.--Corrected annual runoff in inches values superceding those published in the report for 1991 are given below.

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR	FOR 1991 WATER YEAR	WATER YEARS 1968 - 1991
ANNUAL RUNOFF (INCHES)	17.32	16.11	13.92

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	126	370	370	253	277	330	445	393	232	158	656	218
2	126	381	357	261	271	321	435	362	218	151	616	213
3	151	347	371	280	270	309	420	346	209	160	563	234
4	175	299	371	290	274	300	410	337	202	156	516	236
5	206	285	e345	290	275	293	396	328	202	156	460	220
6	191	281	e335	285	271	268	380	313	198	141	412	213
7	176	276	349	283	280	306	367	287	226	125	376	209
8	165	268	364	301	278	325	356	278	223	127	368	210
9	156	259	384	318	257	313	342	282	209	130	355	231
10	153	253	363	308	248	356	326	281	200	142	327	432
11	154	248	350	296	254	438	310	271	194	169	283	552
12	160	246	349	289	251	415	315	262	189	168	273	460
13	156	243	373	272	247	398	312	260	182	207	274	369
14	158	245	372	288	245	397	307	253	177	266	259	341
15	163	263	355	298	278	392	309	246	172	330	246	321
16	158	266	344	e270	321	382	326	241	148	347	226	304
17	153	253	342	e272	328	400	326	240	143	367	231	283
18	151	251	335	e275	330	416	329	291	219	377	261	270
19	163	254	e320	e220	339	399	336	267	254	395	288	259
20	165	365	e310	e270	369	381	340	254	203	405	274	247
21	159	479	313	e275	350	370	367	245	193	426	255	279
22	156	452	308	e280	370	382	361	222	194	413	241	328
23	154	410	308	285	381	379	364	220	195	551	230	326
24	157	393	309	295	371	381	394	224	197	734	226	312
25	235	386	299	292	369	406	429	221	195	708	213	306
26	435	374	290	286	368	419	423	219	208	681	201	308
27	500	365	282	285	357	427	421	214	199	756	234	340
28	450	364	278	283	350	439	419	208	187	749	307	348
29	373	378	281	282	342	434	410	202	178	681	295	311
30	347	377	280	281	---	442	406	221	169	635	257	284
31	361	---	261	281	---	443	---	255	---	632	232	---
TOTAL	6533	9631	10268	8744	8921	11661	11081	8243	5915	11443	9955	8964
MEAN	211	321	331	282	308	376	369	266	197	369	321	299
MAX	500	479	384	318	381	443	445	393	254	756	656	552
MIN	126	243	261	220	245	268	307	202	143	125	201	209
CFSM	.58	.89	.92	.78	.85	1.04	1.02	.74	.55	1.02	.89	.83
IN.	.67	.99	1.06	.90	.92	1.20	1.14	.85	.61	1.18	1.03	.92

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1992, BY WATER YEAR (WY)

	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	226	294	379	375	432	614	608	450	365	267	213	207													
MAX	575	677	719	834	836	1389	1089	811	1103	654	516	538													
(WY)	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
MIN	96.3	96.7	157	173	143	311	324	233	132	104	92.5	85.8													
(WY)	1972	1972	1972	1977	1972	1970	1971	1971	1988	1988	1988	1971													

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1968 - 1992
ANNUAL TOTAL	140351	111359	
ANNUAL MEAN	385	304	367
HIGHEST ANNUAL MEAN			529
HIGHEST ANNUAL MEAN			207
HIGHEST DAILY MEAN	1610	Jan 1	2340
HIGHEST DAILY MEAN	114	Aug 7	42
LOWEST DAILY MEAN	130	Sep 26	69
ANNUAL SEVEN-DAY MINIMUM			2370
INSTANTANEOUS PEAK FLOW			776
INSTANTANEOUS PEAK STAGE			4.89
ANNUAL RUNOFF (CFSM)	1.07	.84	7.85
ANNUAL RUNOFF (INCHES)	14.46	11.48	13.82
10 PERCENT EXCEEDS	649	419	681
50 PERCENT EXCEEDS	364	288	296
90 PERCENT EXCEEDS	144	174	146

STREAMS TRIBUTARY TO LAKE MICHIGAN

04099808 LITTLE ELKHART RIVER AT MIDDLEBURY, IN

LOCATION.--Lat 41°40'31", long 85°42'01", in NE¹/₄SE¹/₄ 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.

GAGE.--Water-stage recorder. Datum of gage is 810.00 ft above sea level.

REMARKS.--Records good.

CORRECTIONS.--Corrected annual runoff in inches values superceding those published in the report for 1991 are given below.

SUMMARY STATISTICS FOR 1990 CALENDAR YEAR 18.92 FOR 1991 WATER YEAR 16.73 WATER YEARS 1979 - 1991 14.34
ANNUAL RUNOFF (INCHES)

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	141	121	73	88	89	148	79	57	41	122	51
2	39	150	113	75	86	87	129	75	53	40	97	51
3	50	124	140	90	89	84	118	73	51	45	88	63
4	65	111	122	92	104	82	113	71	52	43	86	58
5	71	104	108	85	96	80	106	70	51	42	77	55
6	63	100	104	80	90	84	101	68	50	40	72	53
7	58	95	115	76	88	85	99	67	67	40	68	53
8	55	91	123	78	84	87	95	67	59	39	74	54
9	53	87	120	89	80	84	92	68	55	37	68	75
10	51	85	109	85	78	149	91	66	52	43	65	319
11	53	83	102	80	78	165	93	64	50	44	62	202
12	53	81	111	77	75	138	87	65	49	48	62	136
13	51	80	147	78	75	125	84	66	48	54	64	108
14	54	78	124	83	74	117	84	64	47	70	61	93
15	54	81	108	79	126	110	85	63	46	161	58	85
16	52	79	99	77	144	104	96	61	45	123	55	80
17	51	76	96	75	117	145	90	67	46	116	52	77
18	51	79	91	70	131	135	93	76	60	104	53	74
19	57	82	86	69	141	119	91	64	54	85	56	71
20	55	377	85	68	124	110	89	60	52	76	54	69
21	54	372	85	67	112	103	87	57	50	72	53	103
22	54	230	84	67	108	107	84	55	49	67	51	220
23	53	176	86	97	120	107	86	56	49	160	51	140
24	57	146	87	121	108	137	96	55	48	163	50	110
25	127	127	82	104	115	170	92	54	47	113	50	96
26	270	115	79	96	110	144	88	54	48	128	50	91
27	310	112	77	92	102	143	85	53	45	120	56	112
28	208	115	76	90	98	127	82	52	45	94	65	100
29	152	132	79	90	92	119	81	50	44	82	58	88
30	151	136	78	90	---	141	82	61	42	79	54	82
31	159	---	75	89	---	131	---	65	---	126	52	---
TOTAL	2668	3845	3112	2582	2933	3608	2847	1966	1511	2495	1984	2969
MEAN	86.1	128	100	83.3	101	116	94.9	63.4	50.4	80.5	64.0	99.0
MAX	310	377	147	121	144	170	148	79	67	163	122	319
MIN	37	76	75	67	74	80	81	50	42	37	50	51
CFSM	.88	1.31	1.03	.85	1.04	1.19	.97	.65	.52	.82	.66	1.01
IN.	1.02	1.47	1.19	.98	1.12	1.38	1.09	.75	.58	.95	.76	1.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 1992, BY WATER YEAR (WY)

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	84.3	103	119	104	130	156	141	104	92.6	72.4	57.8	61.6		
MAX	172	202	207	202	280	404	210	191	268	189	117	118		
(WY)	1991	1986	1991	1991	1985	1982	1985	1983	1981	1981	1981	1981		
MIN	43.7	38.6	42.9	53.8	75.2	84.5	93.3	55.3	36.7	37.9	39.9	40.5		
(WY)	1988	1981	1990	1981	1980	1981	1986	1988	1988	1988	1987	1983		

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1979 - 1992
ANNUAL TOTAL	37478	32520	
ANNUAL MEAN	103	88.9	102
HIGHEST ANNUAL MEAN			131
LOWEST ANNUAL MEAN			75.9
HIGHEST DAILY MEAN	443	Jan 1	2040
LOWEST DAILY MEAN	36	Aug 2	24
ANNUAL SEVEN-DAY MINIMUM	38	Sep 26	26
INSTANTANEOUS PEAK FLOW			2470
INSTANTANEOUS PEAK STAGE		7.41	10.52
ANNUAL RUNOFF (CFSM)	1.05	.91	1.04
ANNUAL RUNOFF (INCHES)	14.28	12.39	14.18
10 PERCENT EXCEEDS	177	135	171
50 PERCENT EXCEEDS	93	82	80
90 PERCENT EXCEEDS	44	50	44

STREAMS TRIBUTARY TO LAKE MICHIGAN

04099850 PINE CREEK NEAR ELKHART, IN

LOCATION.--Lat 41°40'53", long 85°52'57", in NE¹/₄,NW¹/₄ 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	49	30	22	21	19	32	18	15	10	21	12
2	13	47	27	23	21	19	26	17	14	10	17	12
3	17	35	37	28	21	18	24	17	13	11	17	15
4	26	30	31	27	23	18	23	17	14	11	16	13
5	39	28	27	24	22	18	21	16	14	11	15	12
6	28	27	26	23	21	19	21	16	13	10	14	12
7	23	26	30	22	21	20	20	16	16	10	14	12
8	20	24	34	24	20	20	19	15	15	10	15	13
9	17	23	45	28	19	20	19	16	14	10	14	22
10	16	23	33	26	19	33	19	16	13	11	14	117
11	17	23	29	24	19	33	19	15	13	10	13	51
12	16	23	33	23	18	28	19	15	13	11	13	29
13	16	23	44	23	18	25	18	16	12	12	14	22
14	16	23	34	24	18	23	18	15	12	19	13	18
15	17	24	29	23	32	22	18	15	12	46	13	17
16	16	24	27	22	33	21	21	15	12	28	13	16
17	15	23	26	22	26	27	20	15	12	26	12	15
18	15	23	25	21	29	25	20	16	13	21	13	15
19	16	24	24	21	35	23	20	15	12	17	13	14
20	16	60	23	20	28	22	20	15	13	15	13	13
21	15	59	24	20	24	21	20	14	13	14	12	22
22	15	38	24	20	23	22	19	14	12	13	12	29
23	15	32	25	29	24	22	19	15	12	28	12	18
24	15	28	26	29	22	26	21	15	12	23	12	15
25	72	26	24	24	23	32	20	14	12	17	12	14
26	178	24	23	23	22	28	19	14	12	30	12	14
27	135	25	22	22	21	31	20	14	11	26	13	20
28	61	27	22	21	21	27	19	13	11	18	16	17
29	41	32	23	21	20	24	18	13	11	16	13	14
30	56	38	24	21	---	30	18	15	10	15	12	14
31	65	---	23	21	---	27	---	17	---	22	12	---
TOTAL	1040	911	874	721	664	743	610	474	381	531	425	627
MEAN	33.5	30.4	28.2	23.3	22.9	24.0	20.3	15.3	12.7	17.1	13.7	20.9
MAX	178	60	45	29	35	33	32	18	16	46	21	117
MIN	13	23	22	20	18	18	13	10	10	12	12	12
CFSM	1.08	.98	.91	.75	.74	.77	.66	.49	.41	.55	.44	.67
IN.	1.25	1.09	1.05	.87	.80	.89	.73	.57	.46	.64	.51	.75

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1992, BY WATER YEAR (WY)

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	16.3	18.2	22.4	18.8	23.7	28.1	26.5	21.1	18.5	16.1	12.7	13.1	
MAX	42.4	32.8	52.7	37.0	47.6	82.3	38.4	40.6	39.7	39.2	25.5	23.7	
(WY)	1991	1986	1991	1991	1985	1982	1982	1983	1981	1981	1981	1981	
MIN	7.27	7.39	6.93	8.23	11.7	14.4	16.3	11.9	7.79	6.58	6.75	6.34	
(WY)	1990	1981	1990	1981	1980	1981	1981	1988	1988	1988	1988	1988	

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1980 - 1992	
ANNUAL TOTAL	9312.3		8001			
ANNUAL MEAN	25.5		21.9		19.6	
HIGHEST ANNUAL MEAN					28.5	
LOWEST ANNUAL MEAN					13.3	
HIGHEST DAILY MEAN	178	Oct 26	178	Oct 26	532	Dec 30 1990
LOWEST DAILY MEAN	8.3	Aug 1	10	Jun 30	3.8	Jul 26 1980
ANNUAL SEVEN-DAY MINIMUM	8.8	Jul 27	10	Jul 5	4.7	Jul 3 1988
INSTANTANEOUS PEAK FLOW			197		607	
INSTANTANEOUS PEAK STAGE			5.31		9.74	
ANNUAL RUNOFF (CFSM)	.82		.71		.63	
ANNUAL RUNOFF (INCHES)	11.17		9.60		8.59	
10 PERCENT EXCEEDS	40		30		32	
50 PERCENT EXCEEDS	23		20		16	
90 PERCENT EXCEEDS	12		12		8.1	

STREAMS TRIBUTARY TO LAKE MICHIGAN

04100222 NORTH BRANCH ELKHART RIVER AT COSPERVILLE, IN

LOCATION.--Lat 41°28'54", long 85°28'32", in NE¹/₄NW¹/₄ 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 fair. Flow regulated at times by dam at Waldron Lake.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	192	166	92	101	128	197	179	61	34	208	64
2	29	188	166	91	99	124	197	174	59	33	202	62
3	30	182	171	94	100	120	195	167	55	33	196	65
4	40	173	168	99	101	115	194	160	53	32	186	65
5	51	164	166	103	103	111	188	154	52	29	175	62
6	57	154	161	102	102	111	181	144	49	26	164	60
7	59	147	159	101	100	109	174	134	56	24	154	61
8	58	138	160	102	98	109	167	126	59	22	146	60
9	57	130	159	102	95	109	160	121	56	21	138	62
10	55	123	155	104	94	129	154	115	51	27	130	122
11	55	116	150	104	92	150	152	108	47	34	121	150
12	55	112	148	106	89	156	149	102	43	42	114	150
13	53	108	158	108	87	156	145	97	40	58	110	143
14	54	105	157	●110	85	155	140	93	37	92	103	135
15	54	104	154	●109	93	150	137	89	37	158	96	125
16	53	103	149	●100	113	145	146	83	33	173	89	115
17	52	100	143	●102	125	151	156	78	31	209	83	104
18	50	99	136	●104	132	159	169	91	65	218	75	97
19	53	101	128	●95	137	159	180	91	77	219	58	97
20	54	145	122	●97	141	158	184	88	72	217	59	99
21	53	179	119	●97	143	158	185	84	64	216	57	135
22	52	188	117	98	145	163	184	79	57	213	55	176
23	51	186	115	102	147	164	186	77	53	230	52	191
24	52	179	113	106	146	173	189	75	51	239	51	194
25	69	174	110	110	146	179	191	70	46	237	49	190
26	120	168	106	107	145	182	191	67	46	236	49	185
27	188	162	103	109	143	185	188	51	44	231	66	187
28	201	162	100	108	139	187	184	13	42	222	84	182
29	198	161	98	106	134	188	181	26	39	211	90	175
30	196	163	97	104	---	194	182	44	36	203	81	166
31	194	---	94	103	---	194	---	58	---	209	71	---
TOTAL	2374	4406	4248	3175	3375	4671	5226	3038	1511	4148	3312	3679
MEAN	76.6	147	137	102	116	151	174	98.0	50.4	134	107	123
MAX	201	192	171	110	147	194	197	179	77	239	208	194
MIN	29	99	94	91	85	109	137	13	31	21	49	60
CFSM	.54	1.03	.97	.72	.82	1.06	1.23	.69	.35	.94	.75	.86
IN.	.62	1.15	1.11	.83	.88	1.22	1.37	.80	.40	1.09	.87	.96

● Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1992, BY WATER YEAR (WY)

	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
MEAN	87.6	119	150	148	155	268	246	168	136	84.9	60.9	68.8										
MAX	272	314	341	400	272	553	530	324	400	211	130	161										
(WY)	1987	1973	1986	1991	1990	1985	1985	1981	1981	1981	1981	1972										
MIN	17.8	17.8	46.5	42.2	43.2	118	133	67.2	18.1	16.4	18.3	22.1										
(WY)	1975	1972	1972	1977	1972	1989	1987	1988	1988	1988	1978	1974										

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1972 - 1992
ANNUAL TOTAL	59186	43163	
ANNUAL MEAN	162	118	141
HIGHEST ANNUAL MEAN			207
LOWEST ANNUAL MEAN			85.7
HIGHEST DAILY MEAN	639	239	916
LOWEST DAILY MEAN	21	13	2.2
ANNUAL SEVEN-DAY MINIMUM	25	26	2.8
INSTANTANEOUS PEAK FLOW		240	919
INSTANTANEOUS PEAK STAGE		5.01	8.12
ANNUAL RUNOFF (CFSM)	1.14	.83	.99
ANNUAL RUNOFF (INCHES)	15.51	11.31	13.48
10 PERCENT EXCEEDS	347	188	298
50 PERCENT EXCEEDS	154	110	110
90 PERCENT EXCEEDS	39	51	32

STREAMS TRIBUTARY TO LAKE MICHIGAN

04100252 FORKER CREEK NEAR BURR OAK, IN

LOCATION.--Lat 41°19'58", long 85°25'25", in SE¹/₄NE¹/₄, 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 good except for estimated daily discharges, which are fair. Occasional regulation at Miller Lake Outlet.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.96	21	18	8.6	11	10	22	15	5.5	1.6	7.0	1.6
2	.94	20	18	8.5	10	9.6	22	15	5.3	1.4	6.7	1.6
3	.96	20	19	8.9	10	8.7	21	13	5.2	1.4	6.5	1.9
4	1.7	20	20	9.9	11	7.9	19	12	5.2	1.3	6.0	1.9
5	1.9	20	19	11	12	6.6	17	12	5.0	1.2	5.5	1.8
6	1.8	19	18	11	13	7.5	15	11	4.7	1.1	4.8	1.7
7	1.6	19	17	11	13	7.7	13	11	5.4	1.1	4.3	1.6
8	1.5	18	16	11	12	6.3	12	9.9	5.2	.99	3.9	1.5
9	1.4	17	16	11	11	6.2	10	9.4	5.0	.91	3.6	1.7
10	1.4	17	15	11	9.1	8.8	9.6	9.4	4.8	.97	3.3	3.0
11	1.4	16	15	12	7.6	10	10	8.9	4.6	.99	3.0	3.4
12	1.5	15	15	12	6.9	12	10	8.7	4.3	1.2	2.7	3.9
13	1.5	15	19	11	6.1	10	9.9	8.5	4.1	1.5	2.6	4.3
14	1.5	14	23	13	5.3	11	9.7	8.1	3.9	1.7	2.4	4.3
15	1.5	14	24	14	7.4	10	11	8.0	3.6	2.7	2.2	4.2
16	1.4	13	22	13	14	9.1	16	7.4	3.3	3.0	2.0	4.0
17	1.3	12	20	13	19	12	23	7.6	3.2	5.9	1.8	3.7
18	1.3	12	18	12	22	16	29	8.4	3.4	8.3	1.8	3.8
19	1.5	12	16	12	23	18	34	8.7	3.0	11	1.8	3.7
20	1.4	16	15	11	24	19	35	9.0	2.8	13	1.6	3.5
21	1.2	24	15	11	23	22	33	9.1	2.6	14	1.4	6.9
22	1.0	29	14	10	21	23	29	8.6	2.4	13	1.3	17
23	1.1	29	13	11	19	25	27	7.9	2.3	11	1.3	36
24	1.3	26	e12	14	17	28	26	7.6	2.3	11	1.3	39
25	2.7	23	e11	16	16	30	25	6.9	2.1	9.8	1.2	31
26	11	20	10	16	15	28	24	6.4	2.1	9.2	1.2	25
27	19	18	9.5	16	15	27	22	6.1	2.0	8.5	1.4	22
28	22	17	9.3	14	14	25	19	5.7	1.8	7.8	2.0	18
29	24	16	9.1	13	13	23	18	5.4	1.7	7.6	1.8	16
30	24	16	9.0	12	---	22	17	5.6	1.6	7.4	1.8	14
31	23	---	9.0	11	---	21	---	5.6	---	7.4	1.7	---
TOTAL	158.76	548	483.9	368.9	400.4	480.4	588.2	275.9	108.4	167.96	89.9	282.0
MEAN	5.12	18.3	15.6	11.9	13.8	15.5	19.6	8.90	3.61	5.42	2.90	9.40
MAX	24	29	24	16	24	30	35	15	5.5	14	7.0	39
MIN	.94	12	9.0	8.5	5.3	6.2	9.6	5.4	1.6	.91	1.2	1.5
CFSM	.27	.95	.81	.62	.72	.81	1.02	.46	.19	.28	.15	.49
IN.	.31	1.06	.94	.71	.78	.93	1.14	.53	.21	.33	.17	.55

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1992, BY WATER YEAR (WY)

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
MEAN	8.74	14.3	20.6	16.2	26.0	38.0	34.6	18.7	20.3	9.39	5.39	6.18												
MAX	50.6	48.8	52.5	49.5	62.5	111	60.5	41.1	90.7	49.5	36.4	33.4												
(WY)	1991	1989	1978	1974	1985	1982	1978	1983	1981	1986	1990	1990												
MIN	.36	.28	2.59	1.22	2.96	13.6	9.61	4.70	1.98	.41	.25	.23												
(WY)	1972	1972	1977	1977	1979	1989	1971	1988	1988	1971	1971	1978												

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1970 - 1992

ANNUAL TOTAL	6928.26	3952.72	
ANNUAL MEAN	19.0	10.8	18.2
HIGHEST ANNUAL MEAN			29.0
LOWEST ANNUAL MEAN			9.49
HIGHEST DAILY MEAN	216	39	431
LOWEST DAILY MEAN	.67	.91	.13
ANNUAL SEVEN-DAY MINIMUM	.71	1.0	.17
INSTANTANEOUS PEAK FLOW		40	480
INSTANTANEOUS PEAK STAGE		2.95	7.03
ANNUAL RUNOFF (CFSM)	.99	.56	.95
ANNUAL RUNOFF (INCHES)	13.42	7.66	12.84
10 PERCENT EXCEEDS	37	22	47
50 PERCENT EXCEEDS	15	9.9	9.0
90 PERCENT EXCEEDS	1.3	1.5	.83

04100295 RIMMELL BRANCH NEAR ALBION, IN

LOCATION.--Lat 41°23'07", long 85°22'14", in NE¼,SE¼, 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 good except for estimated daily discharges, which are fair.

EXTREMES OUTSIDE PERIOD OF RECORD.--Minimum daily discharge, 0.14 ft³/s, many days during 1980.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.68	8.0	14	2.7	5.2	5.0	18	9.7	2.1	.58	3.1	.80
2	.73	10	9.7	2.9	5.0	4.7	14	8.1	1.7	.61	2.3	.81
3	.92	4.7	25	6.5	6.0	4.4	11	6.9	1.5	.68	2.0	3.4
4	5.2	3.2	12	9.0	9.8	4.1	9.9	6.1	1.5	.63	1.8	2.2
5	3.7	2.5	7.7	7.1	8.1	4.0	8.2	5.5	1.6	.58	1.6	1.4
6	2.0	2.2	6.3	5.9	6.5	4.0	7.5	4.9	1.4	.54	1.4	1.2
7	1.2	1.9	6.3	5.1	5.9	3.8	7.1	4.6	3.2	.48	1.3	1.1
8	.88	1.6	7.1	4.7	5.1	3.6	6.4	4.3	2.2	.48	1.3	1.1
9	.69	1.5	7.1	5.1	4.8	3.9	6.0	4.5	1.7	.48	1.2	4.0
10	.56	1.4	6.1	5.5	4.3	7.7	5.8	4.1	1.5	.56	1.1	36
11	.55	1.4	5.6	5.2	3.7	9.3	7.8	3.7	1.3	.54	1.0	9.5
12	.65	1.4	12	4.8	3.5	8.7	6.8	3.6	1.2	1.5	.98	4.7
13	.57	1.4	33	5.3	3.2	7.5	6.1	3.7	1.1	1.7	1.1	2.9
14	.61	1.4	17	8.1	3.0	6.7	5.7	3.4	1.0	14	.99	2.1
15	.68	1.6	9.5	7.5	14	6.0	6.4	3.2	.95	29	.91	1.7
16	.61	1.6	6.9	6.5	21	5.6	17	2.8	.85	8.8	.88	1.6
17	.59	1.5	6.1	5.8	14	19	13	8.7	1.3	47	.84	1.5
18	.60	3.0	5.1	5.2	19	15	33	12	3.6	33	.82	5.1
19	1.2	5.1	4.5	4.7	19	16	24	5.5	1.7	19	.94	6.3
20	1.1	50	3.8	4.3	14	18	16	4.0	1.3	19	.79	3.2
21	.96	34	3.8	4.0	11	11	14	3.1	1.1	19	.69	90
22	.90	17	3.8	3.7	9.1	19	12	2.7	1.0	8.0	.65	84
23	.87	10	4.2	17	8.5	26	11	2.4	.97	15	.64	39
24	1.1	7.7	4.1	17	7.4	27	12	2.3	.90	9.7	.64	22
25	6.2	5.8	3.6	9.5	8.8	20	12	2.0	.80	5.9	.63	12
26	18	4.7	3.3	6.8	8.1	17	11	1.9	.76	5.1	.66	8.1
27	38	4.5	2.9	6.0	6.9	20	9.9	1.8	.70	4.3	1.1	13
28	12	5.4	2.9	5.5	6.4	15	8.8	1.5	.65	3.1	3.2	9.3
29	5.4	7.5	3.1	5.3	5.3	12	9.8	1.4	.62	2.5	1.9	6.6
30	4.4	27	2.9	5.3	---	18	12	2.3	.59	2.6	1.2	5.3
31	4.9	---	2.8	5.3	---	14	---	2.9	---	3.9	.92	---
TOTAL	116.45	229.0	242.2	197.3	246.6	356.0	342.2	133.6	40.79	258.26	38.58	379.91
MEAN	3.76	7.63	7.81	6.36	8.50	11.5	11.4	4.31	1.36	8.33	1.24	12.7
MAX	38	50	33	17	21	27	33	12	3.6	47	3.2	90
MIN	.55	1.4	2.8	2.7	3.0	3.6	5.7	1.4	.59	.48	.63	.80
CFSM	.35	.71	.73	.59	.79	1.07	1.07	.40	.13	.78	.12	1.18
IN.	.40	.80	.84	.69	.86	1.24	1.19	.46	.14	.90	.13	1.32

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 1992, BY WATER YEAR (WY)

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	7.30	11.6	14.2	9.23	19.1	22.0	18.1	10.3	9.83	6.42	2.95	2.69
MAX	26.8	31.2	38.7	20.5	44.8	69.9	31.8	24.9	39.1	33.0	16.1	12.7
(WY)	1991	1989	1991	1991	1985	1982	1981	1990	1981	1986	1990	1992
MIN	.62	1.38	1.00	2.27	5.48	6.68	5.94	2.05	.72	.51	.31	.37
(WY)	1984	1981	1990	1981	1989	1981	1986	1985	1988	1988	1988	1987

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1981 - 1992
ANNUAL TOTAL	3465.03	2580.89	
ANNUAL MEAN	9.49	7.05	11.1
HIGHEST ANNUAL MEAN			14.6
LOWEST ANNUAL MEAN			6.95
HIGHEST DAILY MEAN	166	90	349
LOWEST DAILY MEAN	.50	.48	.15
ANNUAL SEVEN-DAY MINIMUM	.51	.52	.17
INSTANTANEOUS PEAK FLOW		160	418
INSTANTANEOUS PEAK STAGE		8.50	12.82
ANNUAL RUNOFF (CFSM)	.89	.66	1.04
ANNUAL RUNOFF (INCHES)	12.05	8.97	14.08
10 PERCENT EXCEEDS	21	17	25
50 PERCENT EXCEEDS	5.7	4.5	4.7
90 PERCENT EXCEEDS	.64	.80	.56

STREAMS TRIBUTARY TO LAKE MICHIGAN

04100377 SOLOMON CREEK NEAR SYRACUSE, IN

LOCATION.--Lat 41°27'30", long 85°43'12", in NW¹/₄SE¹/₄, 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 those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	56	50	32	34	33	49	35	27	17	31	18
2	17	55	48	32	33	32	48	34	26	19	29	18
3	17	51	54	34	34	32	46	33	25	20	28	22
4	24	47	51	35	35	31	45	32	26	19	27	20
5	28	45	46	35	35	31	42	31	25	19	26	19
6	28	43	44	34	35	31	40	30	25	16	25	19
7	26	40	44	34	34	31	39	29	28	16	25	19
8	24	38	44	33	33	30	38	29	27	16	25	18
9	23	37	43	34	32	31	37	29	26	15	24	22
10	22	36	41	34	31	42	35	29	25	16	25	52
11	22	35	40	34	31	49	37	28	25	17	24	38
12	22	34	43	34	30	45	36	27	24	18	23	31
13	21	33	49	33	31	42	34	27	24	18	23	28
14	22	33	47	35	30	40	34	27	24	26	22	26
15	22	32	43	e33	34	38	33	27	23	65	22	25
16	21	31	40	e32	39	37	38	26	23	57	21	23
17	21	30	40	e31	39	43	47	26	25	70	18	23
18	20	31	37	e31	41	46	43	27	34	68	17	23
19	21	31	36	e30	43	44	49	30	32	58	17	23
20	21	74	35	e30	42	45	47	28	30	52	16	22
21	21	76	36	e29	40	43	44	27	28	49	15	50
22	20	65	36	e29	39	46	42	27	27	44	15	61
23	20	60	36	37	38	51	40	27	27	41	16	50
24	20	56	35	42	37	53	40	26	26	39	17	44
25	27	52	34	40	37	51	41	26	25	36	16	39
26	57	49	33	38	37	49	40	26	24	36	17	37
27	83	48	33	37	36	48	39	25	23	34	19	45
28	69	47	33	36	35	46	37	25	22	32	20	43
29	61	48	33	35	34	45	35	24	18	31	19	38
30	58	52	32	35	---	47	36	27	18	31	19	36
31	57	---	32	34	---	47	---	29	---	34	18	---
TOTAL	932	1365	1248	1052	1029	1279	1211	873	762	1029	659	932
MEAN	30.1	45.5	40.3	33.9	35.5	41.3	40.4	28.2	25.4	33.2	21.3	31.1
MAX	83	76	54	42	43	53	49	35	34	70	31	61
MIN	17	30	32	29	30	30	33	24	18	15	15	18
CFSM	.83	1.26	1.12	.94	.98	1.14	1.12	.78	.70	.92	.59	.86
IN.	.96	1.41	1.29	1.08	1.06	1.32	1.25	.90	.79	1.06	.68	.96

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1992, BY WATER YEAR (WY)

	1988	1988	1990	1988	1989	1989	1989	1989	1988	1988	1988	1988
MEAN	28.7	36.8	38.0	42.6	40.7	42.5	47.5	38.7	43.3	26.5	20.7	24.4
MAX	61.5	53.8	60.3	70.6	49.1	58.1	56.2	59.4	60.7	38.7	33.2	36.5
(WY)	1991	1991	1991	1991	1990	1990	1991	1990	1991	1990	1990	1990
MIN	12.9	14.0	14.8	27.4	32.8	30.8	37.9	24.4	16.5	12.1	10.5	13.7
(WY)	1988	1988	1990	1988	1989	1989	1989	1989	1988	1988	1988	1988

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1988 - 1992

ANNUAL TOTAL	15811	12371										
ANNUAL MEAN	43.3	33.8								35.8		
HIGHEST ANNUAL MEAN										48.4		1991
LOWEST ANNUAL MEAN										24.2		1988
HIGHEST DAILY MEAN	149	Jun 1				83	Oct 27			190		Dec 30 1990
LOWEST DAILY MEAN	15	Sep 11				15	Jul 9			7.9		Aug 9 1988
ANNUAL SEVEN-DAY MINIMUM	16	Sep 5				16	Aug 19			9.0		Aug 8 1988
INSTANTANEOUS PEAK FLOW						86	Oct 27			201		Dec 30 1990
INSTANTANEOUS PEAK STAGE						4.03	Oct 27			6.33		Dec 30 1990
ANNUAL RUNOFF (CFSM)	1.20					.94				.99		
ANNUAL RUNOFF (INCHES)	16.29					12.75				13.47		
10 PERCENT EXCEEDS	67					49				59		
50 PERCENT EXCEEDS	44					33				32		
90 PERCENT EXCEEDS	18					19				15		

STREAMS TRIBUTARY TO LAKE MICHIGAN

04101000 ST. JOSEPH RIVER AT ELKHART, IN

LOCATION.--Lat 41°41'30", long 85°58'30", in SW¹/₄NE¹/₄ 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.--Records good except for estimated daily discharges, which are fair. The flow is regulated by Elkhart Hydroelectric Plant.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1660	5030	4700	3710	3440	3830	4740	4280	2570	1510	4720	2580
2	1620	5170	4650	3610	3410	3700	5020	4300	2580	1580	4670	2510
3	1800	4520	4600	3760	3410	3610	4590	4020	2530	1400	4790	2730
4	2220	4450	4980	3900	3470	3500	4560	3850	2510	1580	4490	2550
5	2560	4080	4540	4010	3420	3560	4320	3810	2410	1610	4320	2490
6	2590	3940	4350	3930	3410	3530	4230	3540	2440	1780	3870	2330
7	2740	3810	4320	4050	3390	3550	4010	3250	2470	1600	3710	2300
8	2660	3620	4460	4000	3420	3580	3980	3670	2530	1610	3510	2160
9	2400	3440	4640	4180	3230	3720	3810	3160	2700	1510	3170	2740
10	2360	3330	4650	4170	3130	3920	3800	3190	2310	1650	3190	4120
11	2310	3390	4730	4060	3200	4250	3790	3000	2400	1530	3050	4710
12	2220	3170	4750	3990	3040	4350	3850	3000	2310	1680	2870	4310
13	2160	3140	5020	3940	3040	4270	3650	2860	2100	2010	2730	3790
14	2230	3210	4930	3980	3050	4450	3590	2790	2000	2500	2580	3590
15	2180	3290	4920	3890	3260	4220	3600	2830	2030	3100	2510	3340
16	2150	3170	4660	3260	3640	3800	3470	2770	2000	3600	2400	3660
17	2000	3160	4440	3390	3850	3860	3920	2600	1770	3900	2210	3470
18	1870	3290	4360	3460	4080	4390	3670	2620	1720	3700	2380	3430
19	1930	3290	4100	3010	4400	4330	4070	2640	2170	3400	2320	3170
20	1880	3910	3960	3590	4290	4250	3810	2600	1920	3600	2270	3020
21	1930	4930	4060	3650	4280	4280	4010	2530	2200	3500	2190	3200
22	2040	5040	3900	3810	4280	4390	4050	2480	2000	3200	1950	4040
23	1900	4890	3900	3850	4360	4330	3990	2450	1990	3100	1910	4170
24	1950	4720	3990	3840	4280	4480	3910	2270	1920	4100	1860	3870
25	2630	4390	3900	3780	4130	4730	4140	2300	1840	4200	1860	3340
26	4090	4460	3990	3670	4210	4650	4200	2350	2030	4200	1710	3350
27	4730	4240	3940	3630	4080	4750	4240	2290	1750	4500	1880	3470
28	5230	4230	3850	3650	4000	4840	4450	2270	1780	4300	2310	3550
29	5520	4370	3640	3590	3900	4770	4360	2170	1860	4300	2360	3740
30	5200	4440	3650	3530	---	4840	4350	2380	1540	4300	2290	3220
31	5400	---	3680	3450	---	4800	---	2340	---	4400	2500	---
TOTAL	84160	120120	134260	116340	107100	129530	122180	90610	64380	88950	88580	98950
MEAN	2715	4004	4331	3753	3693	4178	4073	2923	2146	2869	2857	3298
MAX	5520	5170	5020	4180	4400	4840	5020	4300	2700	4500	4790	4710
MIN	1620	3140	3640	3010	3040	3500	3470	2170	1540	1400	1710	2160
CFSM	.81	1.19	1.29	1.11	1.10	1.24	1.21	.87	.64	.85	.85	.98
IN.	.93	1.33	1.48	1.28	1.18	1.43	1.35	1.00	.71	.98	.98	1.09

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 1992, BY WATER YEAR (WY)

	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965
MEAN	2163	2547	3192	3489	3847	5142	5254	4106	3178	2377	1942	1865						
MAX	5752	4878	5795	7496	7039	10760	12690	7725	7535	4409	4180	3855						
(WY)	1987	1989	1991	1991	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 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1948 - 1992
ANNUAL TOTAL	1428300	1245160	
ANNUAL MEAN	3913	3402	3255
HIGHEST ANNUAL MEAN			5264
LOWEST ANNUAL MEAN			1283
HIGHEST DAILY MEAN	11600	5520	18500
LOWEST DAILY MEAN	1400	1400	336
ANNUAL SEVEN-DAY MINIMUM	1470	1570	561
INSTANTANEOUS PEAK FLOW		5790	18800
INSTANTANEOUS PEAK STAGE		21.18	27.91
ANNUAL RUNOFF (CFSM)	1.16	1.01	.97
ANNUAL RUNOFF (INCHES)	15.77	13.74	13.12
10 PERCENT EXCEEDS	6210	4590	5800
50 PERCENT EXCEEDS	4030	3590	2760
90 PERCENT EXCEEDS	1650	1980	1350

STREAMS TRIBUTARY TO LAKE ERIE

04177720 FISH CREEK AT HAMILTON, IN

LOCATION.--Lat 41°31'55", long 84°54'12", in SE¹/₄SW¹/₄ 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 fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	34	48	17	20	25	49	29	8.4	2.6	42	3.8
2	3.2	34	39	17	18	23	42	27	7.4	2.6	32	4.0
3	3.4	23	57	25	19	22	35	23	6.1	3.3	28	5.7
4	13	17	46	33	25	20	33	18	6.2	2.8	23	4.2
5	10	14	32	30	27	20	29	16	9.5	2.5	18	3.8
6	6.9	13	26	27	24	22	26	14	11	2.0	15	4.1
7	6.0	12	26	24	23	23	25	13	14	1.9	13	4.0
8	4.8	10	28	23	22	25	24	13	11	2.1	15	4.3
9	4.3	9.2	31	24	20	24	22	14	8.7	2.4	12	12
10	4.5	9.0	27	22	18	50	22	13	7.2	3.7	11	66
11	4.5	8.9	25	20	18	56	28	12	5.9	3.8	9.2	43
12	4.5	9.1	33	19	16	50	26	12	5.1	6.3	7.3	28
13	3.9	9.1	70	20	16	42	20	13	4.5	7.8	8.2	20
14	4.2	9.0	56	34	15	36	19	10	4.1	29	6.4	15
15	4.4	12	41	29	32	33	19	9.7	3.1	75	5.2	12
16	3.7	12	30	24	54	26	25	9.0	2.5	54	5.1	10
17	3.6	9.8	27	22	50	31	28	11	3.8	160	4.5	8.6
18	3.7	16	23	18	55	33	47	14	13	163	6.1	10
19	6.7	23	18	16	65	35	52	11	11	98	8.7	9.9
20	5.2	109	17	15	58	36	50	9.6	7.2	80	6.1	7.6
21	4.7	125	20	15	50	31	73	8.5	5.3	77	5.0	55
22	4.5	83	19	15	45	38	61	7.7	4.1	49	4.6	142
23	4.3	65	19	23	44	36	46	7.9	3.8	246	4.3	89
24	5.7	52	18	33	39	48	53	7.3	4.7	268	4.5	59
25	16	39	17	30	40	69	56	5.2	4.7	158	4.4	40
26	47	30	16	26	37	65	47	5.0	6.8	143	5.2	31
27	133	24	15	23	33	63	40	5.0	4.9	115	10	34
28	79	25	15	22	31	52	33	4.7	3.6	78	15	28
29	54	31	18	20	27	44	30	4.4	3.0	57	8.2	21
30	45	53	19	20	---	50	34	9.0	2.8	47	6.7	16
31	36	---	18	20	---	48	---	11	---	51	4.4	---
TOTAL	532.8	920.1	894	706	941	1176	1094	367.0	193.4	1991.8	348.1	791.0
MEAN	17.2	30.7	28.8	22.8	32.4	37.9	36.5	11.8	6.45	64.3	11.2	26.4
MAX	133	125	70	34	65	69	73	29	14	268	42	142
MIN	3.1	8.9	15	15	15	20	19	4.4	2.5	1.9	4.3	3.8
CFSM	.46	.82	.77	.61	.87	1.01	.97	.32	.17	1.71	.30	.70
IN.	.53	.91	.89	.70	.93	1.17	1.09	.36	.19	1.98	.35	.78

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1992, BY WATER YEAR (WY)

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
MEAN	14.1	27.2	38.6	32.3	49.9	73.6	60.5	35.8	28.2	16.6	11.2	11.1												
MAX	69.5	87.3	91.3	99.2	129	219	112	88.4	118	64.3	35.0	47.1												
(WY)	1987	1986	1991	1974	1976	1982	1978	1990	1981	1992	1979	1981												
MIN	2.70	2.46	7.25	5.96	7.84	28.1	18.7	8.24	2.05	2.02	1.89	1.88												
(WY)	1977	1972	1977	1977	1979	1981	1971	1985	1988	1988	1970	1988												

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1970 - 1992	
ANNUAL TOTAL	11439.2		9955.2			
ANNUAL MEAN	31.3		27.2		33.2	
HIGHEST ANNUAL MEAN					46.0	
LOWEST ANNUAL MEAN					17.8	
HIGHEST DAILY MEAN	313		268		656	
LOWEST DAILY MEAN	2.2		1.9		.52	
ANNUAL SEVEN-DAY MINIMUM	2.5		2.4		.82	
INSTANTANEOUS PEAK FLOW			367		683	
INSTANTANEOUS PEAK STAGE			7.55		11.95	
ANNUAL RUNOFF (CFSM)	.84		.73		.88	
ANNUAL RUNOFF (INCHES)	11.35		9.88		12.01	
10 PERCENT EXCEEDS	73		55		79	
50 PERCENT EXCEEDS	23		19		16	
90 PERCENT EXCEEDS	3.2		4.3		2.9	

STREAMS TRIBUTARY TO LAKE ERIE

04180500 ST. JOSEPH RIVER NEAR FORT WAYNE, IN

LOCATION.--Lat 41°10'41", long 85°03'19", in NW¹/₄, NE¹/₄, 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. Instantaneous peak flow for period of record of 13,200 ft³/s also occurred June 5, 1989.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91	887	1040	508	634	738	1450	1290	355	150	866	348
2	96	964	1050	453	584	762	1360	1170	326	184	915	284
3	94	958	1800	506	556	661	1170	1050	347	206	957	290
4	158	567	1620	904	780	622	1080	918	282	185	868	260
5	172	505	1180	1050	1010	575	974	860	301	176	689	209
6	144	364	876	990	914	576	848	730	309	178	576	230
7	159	344	789	836	716	592	850	623	345	180	467	245
8	150	331	744	693	671	827	776	663	405	176	424	239
9	145	264	718	995	617	1050	703	595	421	192	419	253
10	161	247	744	398	428	1490	692	511	435	214	360	1140
11	188	245	818	470	447	2110	743	457	406	219	344	1160
12	155	238	787	588	457	1880	886	509	317	198	351	954
13	236	222	1690	581	389	1660	774	477	286	245	356	805
14	345	217	1720	805	393	1350	672	450	279	335	324	671
15	234	221	1360	912	684	1180	663	430	276	884	232	520
16	45	250	1080	810	2060	920	917	407	250	1160	241	413
17	43	203	854	720	1750	922	2680	417	261	1450	279	330
18	44	221	758	680	1690	1020	1790	726	1050	2390	214	302
19	45	432	481	620	1920	1060	2290	629	779	2180	240	334
20	53	1850	468	580	1790	1420	1740	500	781	1960	224	289
21	125	3650	552	520	1510	1320	2100	418	437	1910	208	915
22	221	3050	534	480	1340	1200	2060	365	359	1630	210	3120
23	198	2430	519	570	1190	1640	1790	402	358	1310	206	2960
24	200	1960	454	1200	1120	1610	1910	375	281	2390	200	2100
25	399	1120	411	1070	1130	1650	1840	313	276	2380	186	1240
26	1600	1010	479	920	1070	1870	1780	286	262	2390	193	853
27	4290	779	385	730	999	1870	1620	289	252	2130	269	808
28	3400	707	385	619	967	1820	1620	278	223	1950	260	636
29	2580	790	384	581	866	1380	1590	249	239	1810	230	544
30	1730	832	395	534	---	1440	1440	292	186	1720	214	537
31	1020	---	438	561	---	1540	---	469	---	1170	324	---
TOTAL	18521	25858	25513	21884	28682	38755	40808	17148	11084	33652	11846	22989
MEAN	597	862	823	706	989	1250	1360	553	369	1086	382	766
MAX	4290	3650	1800	1200	2060	2110	2680	1290	1050	2390	957	3120
MIN	43	203	384	398	389	575	663	249	186	150	186	209
CFSM	.56	.81	.78	.67	.93	1.18	1.28	.52	.35	1.02	.36	.72
IN.	.65	.91	.90	.77	1.01	1.36	1.43	.60	.39	1.18	.42	.81

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1992, BY WATER YEAR (WY)

	705	1091	1451	1235	1730	1938	1728	885	878	523	307	370
MEAN	705	1091	1451	1235	1730	1938	1728	885	878	523	307	370
MAX	1984	2404	2421	2772	3315	3612	2843	2270	2915	1413	748	766
(WY)	1987	1986	1991	1991	1990	1985	1985	1990	1989	1986	1990	1992
MIN	144	447	167	305	605	980	607	272	153	122	125	121
(WY)	1988	1988	1990	1984	1989	1989	1986	1988	1988	1988	1988	1991

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1984 - 1992	
ANNUAL TOTAL	371971		296740			
ANNUAL MEAN	1019		811		1066	
HIGHEST ANNUAL MEAN					1339	
LOWEST ANNUAL MEAN					716	
HIGHEST DAILY MEAN	12100		4290		13100	
LOWEST DAILY MEAN	43		43		43	
ANNUAL SEVEN-DAY MINIMUM	82		82		60	
INSTANTANEOUS PEAK FLOW			5310		13200	
INSTANTANEOUS PEAK STAGE			10.28		17.86	
ANNUAL RUNOFF (CFSM)	.96		.76		1.01	
ANNUAL RUNOFF (INCHES)	13.05		10.41		13.66	
10 PERCENT EXCEEDS	2350		1790		2510	
50 PERCENT EXCEEDS	647		606		545	
90 PERCENT EXCEEDS	121		207		153	

STREAMS TRIBUTARY TO LAKE ERIE

04183000 MAUMEE RIVER AT NEW HAVEN, IN

LOCATION.--Lat 41°05'06", long 85°01'20", in SE¹/₄NE¹/₄ 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.

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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e135	1420	1490	733	1260	1070	2260	1870	1800	218	3480	1180
2	e130	1590	1610	745	1270	1040	2230	1740	1080	97	3330	1400
3	e130	1460	2950	795	1300	949	1970	1540	939	124	3510	1040
4	717	1080	3050	1060	1680	896	1640	1380	865	153	3310	583
5	682	824	2200	1410	2240	830	1490	1280	842	211	2430	522
6	432	734	1680	1500	2030	828	1230	1090	835	196	1590	658
7	299	592	1340	1440	1630	1080	1140	915	800	191	1240	940
8	251	594	1220	1180	1410	1700	1080	866	859	202	881	824
9	212	525	1180	1160	1260	2020	960	898	758	184	726	6130
10	190	461	1070	1560	983	2700	928	772	698	943	623	e6670
11	204	451	1130	418	824	4090	1000	676	697	655	520	e5970
12	216	450	1320	849	840	3310	1120	682	629	448	542	6180
13	237	428	2570	868	749	2720	1110	664	521	1930	e850	6050
14	871	396	2820	1530	720	2170	930	631	451	5030	e650	4650
15	511	426	2120	e1900	1420	1870	868	613	426	9510	e500	2270
16	274	581	1760	e1500	3890	1470	1260	570	405	9280	e600	1300
17	155	460	1290	e1300	3760	1310	5180	560	428	9930	e790	904
18	98	493	1120	e1240	3080	1380	7230	839	3430	11400	e630	727
19	136	705	871	e1160	3450	1710	8710	1040	2120	12000	e720	595
20	123	3080	737	e1100	3960	3470	7680	e820	1530	11500	e600	531
21	121	6940	828	e1080	3300	3760	7610	e640	1070	10200	e580	2980
22	291	6480	857	e1240	2750	3270	7360	557	902	8120	e520	6880
23	315	4510	822	e1480	2380	3830	6090	593	1000	5420	e470	6870
24	410	3450	818	2850	2050	3150	5030	658	838	4040	e430	4840
25	1430	2500	722	2990	1910	2740	4040	856	698	3990	e430	3310
26	4670	1670	715	2140	1720	2900	3460	583	633	3390	e460	2470
27	8850	1530	720	1630	1510	2850	3000	540	619	2940	e800	2070
28	6940	1190	657	1510	1400	2680	2690	495	647	2710	e700	1550
29	4120	1320	667	1370	1290	2180	2360	471	671	2730	575	1100
30	2850	1320	680	1170	---	2040	2200	741	691	2980	544	928
31	2110	---	737	1170	---	2390	---	1700	---	2900	737	---
TOTAL	38110	47660	41751	42078	56066	68403	93856	27280	27882	123622	33768	82122
MEAN	1229	1589	1347	1357	1933	2207	3129	880	929	3988	1089	2737
MAX	8850	6940	3050	2990	3960	4090	8710	1870	3430	12000	3510	6880
MIN	98	396	657	418	720	828	868	471	405	97	430	522
CFSM	.62	.81	.68	.69	.98	1.12	1.59	.45	.47	2.03	.55	1.39
IN.	.72	.90	.79	.80	1.06	1.29	1.78	.52	.53	2.34	.64	1.55

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 1992, BY WATER YEAR (WY)

	557	1141	2173	1768	2725	3761	3415	1800	1451	938	524	515
MEAN	557	1141	2173	1768	2725	3761	3415	1800	1451	938	524	515
MAX	3087	5308	6292	6008	7649	11460	7955	4138	6480	3988	2119	2737
(WY)	1987	1973	1968	1974	1976	1982	1957	1983	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 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1957 - 1992	
ANNUAL TOTAL	667164		682598			
ANNUAL MEAN	1828		1865		1724	
HIGHEST ANNUAL MEAN					2637	
LOWEST ANNUAL MEAN					669	
HIGHEST DAILY MEAN	22700	Jan 1	12000	Jul 19	26300	Mar 17 1982
LOWEST DAILY MEAN	80	Jun 28	97	Jul 2	48	Oct 6 1963
ANNUAL SEVEN-DAY MINIMUM	105	Sep 24	168	Jul 2	55	Oct 4 1963
INSTANTANEOUS PEAK FLOW			12100	Jul 19	26600	Mar 17 1982
INSTANTANEOUS PEAK STAGE			16.98		25.49	
ANNUAL RUNOFF (CFSM)	.93		.95		.88	
ANNUAL RUNOFF (INCHES)	12.62		12.91		11.91	
10 PERCENT EXCEEDS	4630		4040		4670	
50 PERCENT EXCEEDS	960		1120		739	
90 PERCENT EXCEEDS	136		430		150	

05517000 YELLOW RIVER AT KNOX, IN

LOCATION.--Lat 41°18'10", long 86°37'14", in SW¹/₄SW¹/₄ 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	591	556	286	335	378	845	333	331	139	449	144
2	116	581	585	285	331	349	781	317	296	139	579	142
3	121	523	522	297	328	337	717	307	249	146	422	142
4	176	440	579	332	354	321	605	292	230	145	307	140
5	251	340	617	378	443	314	541	279	235	143	254	138
6	262	298	483	360	470	314	488	273	290	131	225	137
7	254	276	413	333	410	328	442	266	361	122	207	140
8	217	256	384	319	371	411	418	255	498	122	197	141
9	192	236	385	326	340	494	395	252	545	122	185	164
10	173	225	386	385	314	468	376	252	376	148	173	482
11	161	218	375	418	300	583	372	248	306	160	165	880
12	161	215	363	391	294	769	370	245	267	152	157	997
13	156	215	433	364	284	779	356	238	236	159	162	1070
14	153	215	652	358	284	697	336	231	221	165	165	794
15	155	220	707	358	314	584	336	230	216	290	164	436
16	154	229	534	e320	488	528	360	226	204	697	159	334
17	153	232	431	e310	767	497	413	221	193	876	154	281
18	151	240	383	e310	843	548	460	215	193	928	148	249
19	151	248	346	e310	788	629	462	212	193	947	159	232
20	152	299	315	e310	843	576	509	209	198	905	147	229
21	152	555	309	e310	875	549	548	202	188	572	142	249
22	152	788	309	312	736	528	537	205	183	415	135	515
23	155	814	309	308	586	564	476	199	175	336	131	843
24	155	599	314	415	544	717	442	202	172	295	129	968
25	187	454	320	599	526	777	427	201	173	266	136	904
26	314	377	316	502	494	738	410	194	171	251	138	550
27	547	341	302	414	482	648	386	192	165	284	159	515
28	662	342	293	370	451	668	367	188	158	368	192	710
29	629	380	288	349	413	818	349	182	152	280	196	824
30	457	466	289	336	---	886	342	188	143	238	170	614
31	456	---	289	335	---	830	---	251	---	251	155	---
TOTAL	7290	11213	12787	11000	14008	17627	13866	7305	7318	10192	6261	13964
MEAN	235	374	412	355	483	569	462	236	244	329	202	465
MAX	662	814	707	599	875	886	845	333	545	947	579	1070
MIN	115	215	288	285	284	314	336	182	143	122	129	137
CFSM	.54	.86	.95	.82	1.11	1.31	1.06	.54	.56	.76	.46	1.07
IN.	.62	.96	1.09	.94	1.20	1.51	1.19	.62	.63	.87	.54	1.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1992, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)	MEAN	MAX	(WY)	MIN	(WY)	MEAN	MAX	(WY)	MIN	(WY)
1944	254	285	1955	77.5	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1945	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1946	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1947	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1948	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1949	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1950	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1951	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1952	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1953	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1954	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1955	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1956	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1957	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1958	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1959	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1960	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1961	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1962	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1963	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1964	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1965	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1966	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1967	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1968	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1969	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1970	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1971	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1972	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1973	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1974	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1975	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1976	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1977	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1978	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1979	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1980	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1981	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1982	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1983	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1984	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1985	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1986	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1987	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1988	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1989	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1990	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1991	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963
1992	285	883	1973	83.3	1965	390	1070	1967	91.6	1964	427	1349	1991	71.3	1963

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	FOR 1992 WATER YEAR	FOR 1992 WATER YEAR	WATER YEARS 1944 - 1992

05517530 KANKAKEE RIVER NEAR KOUTS, IN

LOCATION.--Lat 41°15'14", long 87°02'02", in SW¹/₄/NE¹/₄, 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 fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	540	2220	1960	1440	1340	1530	2240	e1400	1090	724	1100	640
2	517	2220	1960	1420	1330	1510	2230	1360	1120	694	1260	584
3	552	2170	1990	1430	1330	1470	2140	1370	1110	779	1210	548
4	609	2010	1970	1430	1390	1460	2070	1300	1050	806	1110	622
5	873	1770	1930	1420	1420	1390	2030	1240	1040	788	977	658
6	e1200	1620	1890	1380	1440	1420	1900	1220	1120	711	867	619
7	e1200	1480	1810	1370	1430	1690	1800	1190	1210	668	822	581
8	e1110	1420	1800	1370	1380	1840	1720	1230	1270	681	761	604
9	e1010	1350	1800	1350	1310	1770	1690	1160	1370	670	741	685
10	e950	1340	1730	1340	1270	1750	1660	1130	1330	728	709	1340
11	e900	1310	1730	1410	1240	1830	1600	1150	1190	799	672	1960
12	e860	1310	1710	1420	1210	1940	1580	1160	1090	866	628	2120
13	e840	1240	1780	1400	1210	2000	1560	1110	1020	873	625	2120
14	e820	1180	1920	1450	1200	2000	1480	1100	970	932	670	2080
15	e800	1320	1960	e1380	1230	1970	1450	1090	944	1010	625	1820
16	e780	1320	1890	e1300	1260	1870	1580	1120	900	1240	632	1490
17	e750	1320	1830	e1290	1550	1820	1700	1090	913	1500	654	1290
18	e730	1360	1730	e1270	1870	1830	1720	1150	999	1610	629	1210
19	727	1440	1650	e1220	2010	1910	1720	1100	1000	1560	562	1140
20	722	1650	1590	e1210	2030	1950	1740	1010	990	1520	577	1070
21	718	1940	1530	e1200	2060	1930	1840	949	910	1390	553	1060
22	717	2060	1530	e1200	2030	1910	1850	990	890	1160	522	1260
23	719	2110	1520	e1300	1920	1910	1790	1030	931	1040	525	1570
24	720	2030	1490	1380	1870	1940	1720	998	910	952	482	1720
25	743	1920	1520	1480	1810	2000	1640	1000	872	937	486	1760
26	1080	1750	1460	1540	1760	2030	1610	994	842	945	505	1690
27	1510	1730	1460	1480	1690	2010	1520	987	854	943	541	1670
28	1750	1710	1450	1440	1670	1950	1490	965	853	997	677	1830
29	1860	1770	1410	1410	1620	1990	1480	944	791	961	717	1910
30	2030	1890	1440	1340	---	2080	e1470	960	761	963	695	1890
31	2180	---	1470	1330	---	2140	---	1020	---	993	668	---
TOTAL	30517	49960	52910	42400	44880	56840	52020	34517	30340	30440	22202	39541
MEAN	984	1665	1707	1368	1548	1834	1734	1113	1011	982	716	1318
MAX	2180	2220	1990	1540	2060	2140	2240	1400	1370	1610	1260	2120
MIN	517	1180	1410	1200	1200	1390	1450	944	761	668	482	548
CFSM	.72	1.21	1.24	.99	1.12	1.33	1.26	.81	.73	.71	.52	.96
IN.	.83	1.35	1.43	1.15	1.21	1.54	1.41	.93	.82	.82	.60	1.07

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1992, BY WATER YEAR (WY)

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	979	1207	1635	1453	1614	2439	2555	1887	1582	1059	892	820						
MAX	2770	2392	2889	3787	2614	4613	4229	3255	3172	1828	2432	1496						
(WY)	1991	1991	1991	1991	1991	1985	1985	1983	1981	1981	1990	1990						
MIN	477	542	704	634	718	1423	1144	1113	619	411	398	479						
(WY)	1979	1979	1979	1977	1978	1987	1987	1992	1988	1988	1988	1978						

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1975 - 1992

ANNUAL TOTAL	674437	486567	
ANNUAL MEAN	1848	1329	1509
HIGHEST ANNUAL MEAN			2160
LOWEST ANNUAL MEAN			1131
HIGHEST DAILY MEAN	4480	Jan 4	2240
LOWEST DAILY MEAN	437	Sep 9	482
ANNUAL SEVEN-DAY MINIMUM	471	Sep 7	516
INSTANTANEOUS PEAK FLOW			2270
INSTANTANEOUS PEAK STAGE			8.25
ANNUAL RUNOFF (CFSM)	1.34	.97	14.52
ANNUAL RUNOFF (INCHES)	18.23	13.15	1.10
10 PERCENT EXCEEDS	3290	1950	2880
50 PERCENT EXCEEDS	1850	1340	1260
90 PERCENT EXCEEDS	555	695	592

05517890 COBB DITCH NEAR KOUTS, IN

LOCATION.--Lat 41°20'19", long 87°04'30", in NW¹/₄, SE¹/₄ 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 good except estimated daily discharges, which are fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	61	75	28	26	34	38	24	17	15	21	14
2	16	53	58	28	26	32	36	22	17	16	20	15
3	17	42	e50	29	28	31	35	21	18	21	19	14
4	22	37	e43	29	40	29	35	21	19	20	19	14
5	64	34	e39	28	38	28	33	21	20	20	18	14
6	29	29	e37	28	34	30	31	21	19	18	18	15
7	23	28	40	27	31	39	30	20	25	15	18	14
8	22	26	54	27	e27	35	28	20	24	15	18	18
9	18	28	113	28	e25	33	27	20	22	18	18	28
10	19	28	62	28	e25	43	27	19	21	17	17	78
11	20	27	49	28	e24	40	27	19	21	18	17	32
12	19	27	50	27	e24	41	26	20	21	16	18	25
13	19	27	90	27	e24	38	26	19	21	20	18	23
14	19	27	59	e27	e24	37	26	19	21	28	17	21
15	19	37	e45	e26	51	40	27	19	21	28	17	20
16	18	43	e37	e26	60	42	35	19	19	22	17	19
17	17	34	e34	e25	47	41	34	18	24	22	17	19
18	16	44	e33	e25	82	38	33	18	35	22	17	18
19	17	55	e32	e24	70	36	33	18	25	20	15	18
20	16	173	e31	e23	53	35	36	18	24	22	13	18
21	16	97	32	e23	43	34	37	17	23	21	13	49
22	16	66	32	24	37	40	32	17	23	19	13	34
23	14	54	33	40	40	44	29	17	22	20	12	27
24	14	45	36	e41	33	41	28	18	22	22	13	24
25	37	38	33	e33	52	40	27	18	20	19	15	23
26	65	34	31	e30	45	37	27	18	19	36	15	32
27	74	35	30	e28	41	35	25	18	19	24	16	38
28	44	39	30	e27	41	33	25	17	21	21	16	31
29	38	49	30	27	36	34	25	17	18	22	15	28
30	91	119	29	27	---	39	24	18	16	21	14	27
31	88	---	29	26	---	37	---	18	---	23	15	---
TOTAL	923	1436	1376	864	1127	1136	903	589	637	641	509	750
MEAN	29.8	47.9	44.4	27.9	38.9	36.6	30.1	19.0	21.2	20.7	16.4	25.0
MAX	91	173	113	41	82	44	38	24	35	36	21	78
MIN	14	26	29	23	24	28	24	17	16	15	12	14
CFSM	.98	1.58	1.46	.92	1.28	1.21	.99	.63	.70	.68	.54	.83
IN.	1.13	1.76	1.69	1.06	1.38	1.39	1.11	.72	.78	.79	.62	.92

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1992, BY WATER YEAR (WY)

	1991	1986	1991	1973	1976	1982	1974	1981	1983	1990	1981	
MEAN	21.0	31.0	33.9	31.4	40.1	55.1	51.6	42.8	34.6	24.7	21.4	17.9
MAX	67.8	112	88.9	63.6	79.3	142	103	89.4	95.4	71.5	99.0	39.3
(WY)	1991	1986	1991	1973	1976	1982	1974	1981	1983	1990	1981	1981
MIN	11.5	11.0	14.4	11.0	10.6	18.0	20.8	14.9	14.6	12.0	10.8	12.0
(WY)	1981	1981	1990	1977	1978	1981	1986	1980	1988	1988	1988	1988

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1969 - 1992
ANNUAL TOTAL	15062.0	10891	
ANNUAL MEAN	41.3	29.8	33.8
HIGHEST ANNUAL MEAN			53.1
LOWEST ANNUAL MEAN			19.3
HIGHEST DAILY MEAN	340	173	955
LOWEST DAILY MEAN	13	12	8.9
ANNUAL SEVEN-DAY MINIMUM	15	13	9.5
INSTANTANEOUS PEAK FLOW		236	1160
INSTANTANEOUS PEAK STAGE		9.74	17.95
ANNUAL RUNOFF (CFSM)	1.36	.98	1.11
ANNUAL RUNOFF (INCHES)	18.49	13.37	15.14
10 PERCENT EXCEEDS	71	44	58
50 PERCENT EXCEEDS	35	26	21
90 PERCENT EXCEEDS	17	17	14

05523000 BICE DITCH NEAR SOUTH MARION, IN

LOCATION.--Lat 40°52'00", long 87°05'32", in NE¹/₄, NW¹/₄, sec.22, T.28 N., R.6 W., Jasper County, Hydrologic Unit 07120002, on left bank at upstream side of bridge on State Highway 16, 2.3 mi upstream from mouth, 3 mi southeast of South Marion, and 5 mi southeast of Rensselaer.

DRAINAGE AREA.--21.8 mi².

PERIOD OF RECORD.--December 1948 to current year.

REVISED RECORDS.--WSP 1508: 1956. WSP 2115: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 651.30 ft above sea level. Prior to Aug. 5, 1955, nonrecording gage, and Aug. 5, 1955, to Sept. 30, 1965, water-stage recorder at present site at datum 2.00 ft higher.

REMARKS.--Records good except estimated daily discharges, which are fair. Low flows in summer may be affected by irrigation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.38	19	23	9.1	9.8	11	16	10	3.2	.92	15	.65
2	.39	14	19	10	11	11	15	9.5	2.7	1.1	8.3	.74
3	.53	9.0	41	15	14	10	14	8.4	3.1	1.5	5.4	.77
4	2.5	7.1	e22	15	20	9.7	14	7.9	3.3	2.0	3.8	.68
5	5.3	6.3	e15	13	17	9.6	12	7.6	3.4	1.8	2.8	.64
6	3.9	5.9	e13	13	15	11	11	6.7	3.2	1.1	2.1	.65
7	2.2	5.7	15	11	14	15	12	6.4	63	1.2	1.8	.66
8	1.1	5.2	17	12	e9.0	16	11	7.0	54	1.9	1.7	.73
9	.86	5.0	17	19	e8.0	16	10	6.9	28	1.9	1.5	1.0
10	.66	5.0	16	17	e7.5	54	10	6.0	18	1.8	1.4	11
11	.61	5.1	14	14	e7.0	48	16	5.8	13	3.3	.86	6.4
12	.61	5.2	18	13	e6.3	38	15	6.1	10	2.0	.76	2.7
13	.68	5.4	42	13	e6.2	30	13	5.6	8.9	2.5	.92	2.0
14	.75	5.4	29	14	e6.6	27	13	5.0	7.7	2.6	.71	1.7
15	.78	5.5	e16	e9.0	15	24	13	5.0	6.7	8.6	.47	1.6
16	.65	6.4	e13	e9.0	22	23	32	4.7	5.5	8.6	.79	1.5
17	.48	6.6	e11	e7.5	21	24	22	4.8	5.3	10	.87	1.4
18	.55	7.3	e8.5	e6.8	74	23	65	4.3	5.3	7.8	1.0	1.4
19	.84	9.0	e8.0	e6.6	57	78	60	3.8	3.8	5.4	1.7	1.3
20	.90	50	e8.0	e6.8	40	52	43	3.4	3.5	3.9	2.0	1.3
21	.91	56	e9.2	e7.5	30	34	31	3.4	3.5	3.1	1.2	1.4
22	.83	32	11	8.8	25	32	22	3.5	2.6	2.7	.98	1.7
23	.77	23	12	19	21	24	19	4.2	2.8	6.0	.88	1.7
24	.98	17	13	16	18	20	19	3.9	3.4	8.5	.89	1.4
25	3.3	13	11	e10	19	19	17	3.6	2.8	4.8	.86	1.3
26	9.0	11	11	e8.4	18	18	15	3.6	1.8	16	.83	1.8
27	14	11	10	e8.0	16	18	13	3.1	1.1	10	1.4	4.3
28	7.3	14	11	e8.0	15	15	12	2.9	1.6	6.2	1.9	4.4
29	6.0	16	12	e8.2	12	16	12	2.8	1.4	5.8	1.6	2.9
30	33	27	10	e8.5	---	19	11	3.5	.91	19	1.0	2.4
31	36	---	9.1	e9.0	---	18	---	3.5	---	26	.77	---
TOTAL	136.76	408.1	484.8	345.2	554.4	763.3	588	162.9	273.51	178.02	66.19	62.12
MEAN	4.41	13.6	15.6	11.1	19.1	24.6	19.6	5.25	9.12	5.74	2.14	2.07
MAX	36	56	42	19	74	78	65	10	63	26	15	11
MIN	.38	5.0	8.0	6.6	6.2	9.6	10	2.8	.91	.92	.47	.64
CFSM	.20	.62	.72	.51	.88	1.13	.90	.24	.42	.26	.10	.09
IN.	.23	.70	.83	.59	.95	1.30	1.00	.28	.47	.30	.11	.11

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1992, BY WATER YEAR (WY)

	1991	1986	1968	1950	1982	1979	1950	1981	1958	1951	1977	1989
MEAN	6.32	10.3	20.3	16.9	26.1	35.7	32.9	22.4	22.3	10.1	4.01	5.84
MAX	46.7	64.3	81.0	92.8	82.7	94.3	85.9	74.2	159	56.8	33.4	57.1
(WY)	1991	1986	1968	1950	1982	1979	1950	1981	1958	1951	1977	1989
MIN	.084	.097	.15	.25	.59	1.89	5.50	2.93	.86	.36	.11	.063
(WY)	1965	1965	1964	1977	1964	1957	1986	1988	1988	1991	1964	1964

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1950 - 1992
ANNUAL TOTAL	6137.79	4023.30	
ANNUAL MEAN	16.8	11.0	17.7
HIGHEST ANNUAL MEAN			36.1
LOWEST ANNUAL MEAN			3.50
HIGHEST DAILY MEAN	354	Mar 18	912
LOWEST DAILY MEAN	.14	Jul 26	.00
ANNUAL SEVEN-DAY MINIMUM	.15	Sep 1	.00
INSTANTANEOUS PEAK FLOW		108	1080
INSTANTANEOUS PEAK STAGE		4.24	14.02
ANNUAL RUNOFF (CFSM)	.77	.50	.81
ANNUAL RUNOFF (INCHES)	10.47	6.87	11.03
10 PERCENT EXCEEDS	40	23	43
50 PERCENT EXCEEDS	8.0	7.8	4.8
90 PERCENT EXCEEDS	.20	.91	.40

05536179 HART DITCH AT DYER, IN

LOCATION.--Lat 41°30'28", long 87°30'36", in NE¹/₄/NE¹/₄ 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 good except those above 1,000 ft³/s, which are fair and estimated daily discharges, which are poor. Low-flow affected by sewage effluent.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	139	224	13	e11	29	33	15	e5.8	2.9	24	e3.0
2	4.7	161	146	14	14	26	31	13	e4.6	4.1	11	e3.1
3	7.4	89	e100	17	20	22	28	11	e3.9	5.2	7.7	e10
4	73	e40	e70	19	60	20	26	11	e7.3	e3.0	7.6	e4.0
5	152	e30	e50	16	76	21	22	9.7	12	e3.2	6.5	e3.9
6	50	e23	e35	15	51	56	19	9.4	5.5	e2.7	4.2	e3.1
7	17	e19	66	14	37	153	18	8.8	e5.8	3.5	3.3	e3.0
8	8.9	e16	150	15	e17	119	18	8.6	e5.0	6.2	3.2	29
9	6.5	14	140	22	e15	88	16	8.0	e4.2	2.9	2.9	73
10	5.0	12	97	24	e13	103	16	7.8	e4.2	2.7	2.8	251
11	5.0	11	69	20	e11	81	23	8.1	e3.9	3.2	2.4	96
12	4.0	11	94	17	e9.6	72	19	8.0	e2.9	5.0	2.1	39
13	3.8	11	275	17	e8.6	55	16	7.6	e3.1	11	1.9	22
14	5.2	13	156	e14	e7.6	45	16	e7.0	e3.4	24	2.2	17
15	4.7	98	e70	e11	114	40	25	e7.0	e3.4	21	2.7	11
16	4.9	136	e42	e10	162	33	28	e6.2	e3.4	8.2	2.6	8.6
17	4.9	83	e23	e8.4	103	32	77	e6.6	6.0	13	2.8	6.5
18	5.2	74	e21	e7.0	160	30	50	e5.6	4.4	25	2.6	6.5
19	4.4	133	e20	e6.0	167	28	44	e5.2	e3.8	8.6	2.5	5.2
20	4.4	550	e19	e6.2	123	24	54	e5.4	e3.6	9.4	2.7	4.7
21	6.3	274	e18	e6.4	88	21	51	e4.6	e3.5	40	2.8	5.7
22	5.3	174	e18	9.2	64	39	34	e8.2	e3.4	15	2.6	21
23	4.5	136	21	55	77	53	26	e6.6	e3.2	8.4	2.5	13
24	5.3	106	28	e64	63	36	27	e5.3	e2.3	7.0	2.8	7.6
25	29	e60	22	e34	102	30	28	e5.0	e3.0	5.1	3.3	6.0
26	128	e35	17	e22	91	28	23	e5.8	e3.3	53	4.2	7.8
27	195	e33	15	e17	59	24	20	e5.2	e2.7	29	13	19
28	104	73	15	e16	44	21	17	e4.6	e3.3	8.8	6.0	21
29	69	195	16	e14	36	21	15	e3.9	e2.7	5.0	3.3	12
30	140	377	14	e13	---	30	15	e7.6	e2.8	5.8	e3.0	7.8
31	191	---	13	e12	---	30	---	e6.2	---	43	e2.9	---
TOTAL	1251.0	3126	2064	548.2	1803.8	1410	835	232.0	126.4	384.9	144.1	720.5
MEAN	40.4	104	66.6	17.7	62.2	45.5	27.8	7.48	4.21	12.4	4.65	24.0
MAX	195	550	275	64	167	153	77	15	12	53	24	251
MIN	2.6	11	13	6.0	7.6	20	15	3.9	2.3	2.7	1.9	3.0
CFSM	1.07	2.77	1.77	.47	1.65	1.21	.74	.20	.11	.33	.12	.64
IN.	1.24	3.09	2.04	.54	1.78	1.39	.83	.23	.13	.38	.14	.71

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1992, BY WATER YEAR (WY)

	1990	1991	1992	1990	1991	1992	1990	1991	1992	1990	1991	1992
MEAN	35.2	106	59.1	31.3	64.1	98.0	45.8	65.6	10.2	7.98	15.1	11.4
MAX	57.6	195	106	41.7	70.7	169	82.1	101	13.3	12.4	35.7	24.0
(WY)	1991	1991	1991	1990	1990	1991	1991	1990	1991	1992	1990	1992
MIN	7.72	19.6	4.92	17.7	59.4	45.5	27.4	7.48	4.21	4.46	4.65	4.06
(WY)	1990	1990	1990	1992	1991	1992	1990	1992	1992	1991	1992	1991

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1990 - 1992
ANNUAL TOTAL	20449.6	12645.9	45.7
ANNUAL MEAN	56.0	34.6	68.3
HIGHEST ANNUAL MEAN			34.4
LOWEST ANNUAL MEAN			2580
HIGHEST DAILY MEAN	842	Mar 2	550
LOWEST DAILY MEAN	2.0	Sep 19	1.9
ANNUAL SEVEN-DAY MINIMUM	2.4	Sep 23	2.4
INSTANTANEOUS PEAK FLOW			631
INSTANTANEOUS PEAK STAGE			6.79
ANNUAL RUNOFF (CFSM)	1.49	.92	15.33
ANNUAL RUNOFF (INCHES)	20.23	12.51	1.22
10 PERCENT EXCEEDS	141	97	16.52
50 PERCENT EXCEEDS	20	14	104
90 PERCENT EXCEEDS	3.4	3.2	16
			3.5

05536195 LITTLE CALUMET RIVER AT MUNSTER, IN

LOCATION.--Lat 41°34'07", long 87°31'18", in SE¹/₄, NW¹/₄, 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 fair except for estimated daily discharges, which are 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.5	198	291	40	49	73	70	31	14	6.5	80	8.8
2	27	184	209	39	48	67	71	28	12	19	67	8.5
3	86	134	e170	39	51	59	69	25	10	35	57	27
4	199	107	e140	41	63	53	66	23	13	13	40	17
5	289	88	e120	42	77	56	62	21	28	11	26	11
6	124	75	e105	40	78	96	59	20	20	10	18	10
7	65	66	117	40	73	158	57	20	23	11	14	9.3
8	43	57	170	46	e60	142	54	19	18	13	14	26
9	30	51	212	50	e51	134	49	16	16	24	13	227
10	22	49	171	53	e47	145	37	16	14	22	13	417
11	21	49	124	53	e43	130	56	16	13	15	12	226
12	19	46	163	53	e40	122	40	17	10	15	43	148
13	18	37	312	52	e38	110	33	23	9.9	35	26	109
14	20	39	276	e49	e38	99	33	17	9.9	89	12	94
15	18	155	168	e48	137	90	59	17	11	66	11	85
16	18	190	e90	e46	161	81	63	18	11	40	11	56
17	18	118	e80	e44	136	81	71	18	16	40	10	40
18	16	113	e60	e42	161	75	67	16	27	35	9.8	32
19	19	136	e56	e41	176	69	63	15	13	29	8.6	26
20	18	417	e55	e41	159	64	68	15	13	38	7.2	21
21	18	359	e55	e40	142	61	66	14	12	39	7.6	43
22	18	238	e57	e40	125	78	55	16	11	32	7.4	36
23	18	193	64	73	114	83	47	21	11	57	7.4	32
24	22	160	70	e80	105	82	55	18	9.6	30	8.1	25
25	62	134	61	e72	116	76	52	15	9.4	26	7.2	22
26	150	110	51	e65	118	73	46	15	9.9	37	7.3	49
27	223	98	47	e60	110	69	41	15	8.7	53	95	54
28	147	125	46	e56	97	63	38	13	7.8	55	43	44
29	120	249	48	e53	86	64	35	11	8.3	101	17	36
30	230	360	41	e52	---	69	34	18	7.7	59	10	30
31	258	---	41	51	---	69	---	15	---	107	8.9	---
TOTAL	2345.5	4335	3670	1541	2699	2691	1616	562	397.2	1162.5	711.5	1969.6
MEAN	75.7	144	118	49.7	93.1	86.8	53.9	18.1	13.2	37.5	23.0	65.7
MAX	289	417	312	80	176	158	71	31	28	107	95	417
MIN	9.5	37	41	39	38	53	33	11	7.7	6.5	7.2	8.5
CFSM	.84	1.61	1.32	.55	1.03	.96	.60	.20	.15	.42	.26	.73
IN.	.97	1.79	1.52	.64	1.12	1.11	.67	.23	.16	.48	.29	.81

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 1992, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	34.9	61.2	82.1	61.3	88.7	140	140	99.2	66.3	37.4	36.6	41.7
MAX	96.3	212	301	186	252	386	268	266	218	172	141	217
(WY)	1991	1973	1983	1973	1959	1979	1973	1959	1981	1983	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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1959 - 1992

ANNUAL TOTAL	32325.1	23700.3	
ANNUAL MEAN	88.6	64.8	74.0
HIGHEST ANNUAL MEAN			121
LOWEST ANNUAL MEAN			23.5
HIGHEST DAILY MEAN	706	Mar 3	417
LOWEST DAILY MEAN	5.7	Jul 20	6.5
ANNUAL SEVEN-DAY MINIMUM	6.3	Jul 19	7.5
INSTANTANEOUS PEAK FLOW			626
INSTANTANEOUS PEAK STAGE			11.92
ANNUAL RUNOFF (CFSM)	.98		.72
ANNUAL RUNOFF (INCHES)	13.36		9.80
10 PERCENT EXCEEDS	.205		147
50 PERCENT EXCEEDS	53		46
90 PERCENT EXCEEDS	9.2		11
			8.4

05536350 GRAND CALUMET RIVER AT HOHMAN AVE AT HAMMOND, IN

LOCATION.--Lat 41°37'28", long 87°23'10", in NW¹/₄NE¹/₄sec. 36, T37 N., R10 W., Lake County, Hydrologic Unit 07120003, on left bank, 20 feet upstream of Hohman Avenue.

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 good except for estimated daily discharges and those above 200 ft³/s, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e14	e35	31	19	20	19	28	38	21	20	22	17
2	e23	e27	28	19	18	21	26	37	21	25	17	17
3	e23	e23	33	21	19	22	26	35	21	28	19	26
4	e52	e23	26	20	21	21	27	35	22	18	23	14
5	e37	e23	23	19	19	22	25	36	24	17	20	13
6	e21	e22	23	20	19	36	26	34	22	18	19	12
7	e20	e21	29	19	20	32	26	31	24	19	18	14
8	e17	e20	32	23	19	24	26	31	22	19	17	20
9	e18	e19	31	20	18	33	26	32	22	21	18	164
10	e17	e18	26	19	17	87	27	30	22	21	17	110
11	e17	e20	25	19	20	31	37	29	22	21	19	25
12	e18	e19	39	18	18	32	29	31	21	20	34	19
13	e16	e20	34	21	18	26	29	35	21	25	23	17
14	e20	e20	31	34	18	25	32	30	24	44	16	23
15	e16	e29	27	23	50	24	43	29	25	31	15	22
16	e16	e21	25	18	26	24	42	32	23	24	16	17
17	e16	e19	26	18	23	28	37	30	27	25	15	17
18	e18	e27	24	17	35	24	36	29	26	22	15	18
19	e16	e29	21	16	27	25	37	28	22	21	15	19
20	e16	e41	20	18	24	23	39	26	22	26	15	19
21	e16	e28	21	18	25	23	37	26	22	25	14	30
22	e16	e24	19	19	23	35	36	26	17	22	13	20
23	e16	e27	23	24	23	25	38	30	17	27	13	18
24	e20	e22	21	22	25	24	46	33	19	23	14	17
25	e31	e22	19	21	30	23	42	26	18	21	14	17
26	e36	e21	19	19	23	26	41	25	18	25	14	27
27	e30	22	20	19	23	34	44	23	18	21	58	22
28	e23	31	21	19	24	24	41	22	16	21	30	19
29	e26	40	21	18	21	26	39	22	16	30	19	17
30	e41	39	21	18	---	28	41	26	18	26	15	18
31	e31	---	20	19	---	25	---	22	---	45	15	---
TOTAL	697	752	779	617	666	872	1029	919	633	751	592	808
MEAN	22.5	25.1	25.1	19.9	23.0	28.1	34.3	29.6	21.1	24.2	19.1	26.9
MAX	52	41	39	34	50	87	46	38	27	45	58	164
MIN	14	18	19	16	17	19	25	22	16	17	13	12

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1992, BY WATER YEAR (WY)

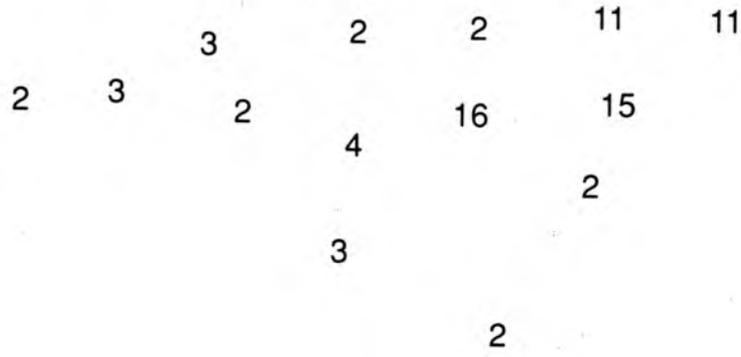
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	22.5	25.1	25.1	19.9	23.0	28.1	34.3	29.6	21.1	24.2	19.1	26.9
MAX	22.5	25.1	25.1	19.9	23.0	28.1	34.3	29.6	21.1	24.2	19.1	26.9
(WY)	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992
MIN	22.5	25.1	25.1	19.9	23.0	28.1	34.3	29.6	21.1	24.2	19.1	26.9
(WY)	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992

SUMMARY STATISTICS

FOR 1992 WATER YEAR

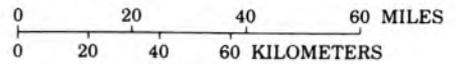
WATER YEARS 1991 - 1992

ANNUAL TOTAL	9115	
ANNUAL MEAN	24.9	24.9
HIGHEST ANNUAL MEAN		24.9
LOWEST ANNUAL MEAN		24.9
HIGHEST DAILY MEAN	164	Sep 9 1992
LOWEST DAILY MEAN	12	Sep 6 1992
ANNUAL SEVEN-DAY MINIMUM	14	Aug 20 1992
INSTANTANEOUS PEAK FLOW	694	Sep 9 1992
INSTANTANEOUS PEAK STAGE	7.43	Sep 9 1992
10 PERCENT EXCEEDS	35	35
50 PERCENT EXCEEDS	22	22
90 PERCENT EXCEEDS	17	17



1

1



EXPLANATION

11 Number of lakes in designated county.

Figure 7.--Number of lakes by county having 1992 water-level records.

STREAMS TRIBUTARY TO LAKE MICHIGAN

04100030 ADAMS LAKE NEAR WOLCOTTVILLE, IN

LOCATION.--Lat 41°33'15", long 86°19'11", in NE¹/₄NE¹/₄NW¹/₄ 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	3.68	3.93	4.00	3.98	4.02	3.96	4.12	4.13	3.96	3.69	4.41	3.94
10	3.63	3.89	4.02	3.96	4.03	4.08	4.07	4.09	3.93	3.68	4.29	4.12
15	3.63	3.87	4.05	4.02	4.03	4.06	4.07	4.04	3.83	4.05	4.14	4.06
20	3.62	4.00	4.04	4.02	4.07	4.05	4.16	4.14	3.87	4.29	4.05	4.01
25	3.74	4.00	4.02	4.02	4.01	4.08	4.21	4.06	3.83	4.46	3.97	4.15
DOM	3.98	4.05	4.00	4.02	4.00	4.15	4.19	4.02	3.76	4.51	4.00	4.10

WTR YR 1992 MEAN 4.01 MAX 4.52 MIN 3.55

STREAMS TRIBUTARY TO LAKE ERIE

04177680 BALL LAKE NEAR HAMILTON, IN

LOCATION.--Lat 41°32'12", long 84°56'18", in SE¹/₄SW¹/₄NE¹/₄ 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.81	4.81	4.85	4.86	4.85	4.81	4.84	4.83	4.80	4.75	4.81	4.77
10	4.78	4.79	4.84	4.83	4.85	4.88	4.83	4.82	4.78	4.79	4.79	4.98
15	4.78	4.80	4.87	4.85	4.85	4.84	4.82	4.80	4.75	4.97	4.78	4.79
20	4.79	5.18	4.82	4.85	4.93	4.85	5.00	4.80	4.79	5.03	4.78	4.80
25	4.85	4.84	4.81	4.85	4.89	4.99	4.92	4.78	4.79	5.08	4.77	4.87
DOM	4.84	4.95	4.82	4.85	4.85	4.89	4.87	4.80	4.77	4.92	4.77	4.82

WTR YR 1992 MEAN 4.84 MAX 5.55 MIN 4.75

ILLINOIS RIVER BASIN

247

05517200 BASS LAKE AT BASS LAKE, IN

LOCATION.--Lat 41°12'28", long 86°36'07", in NW¹/₄, NW¹/₄, SW¹/₄, 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.10	13.13	13.35	13.44	13.49	13.55	13.70	13.62	13.45	13.16	13.34	13.05
10	13.03	13.14	13.35	13.45	13.47	13.64	13.67	13.56	13.49	13.23	13.31	13.30
15	12.99	13.19	13.42	13.49	13.52	13.61	13.68	13.54	13.43	13.39	13.19	13.23
20	12.95	13.29	13.43	13.48	13.55	13.64	13.74	13.50	13.33	13.44	13.13	13.22
25	13.10	13.26	13.44	13.50	13.58	13.65	13.73	13.44	13.29	13.38	13.07	13.19
EOM	13.22	13.33	13.43	13.49	13.54	13.73	13.68	13.43	13.21	13.39	13.07	13.28

WTR YR 1992 MEAN 13.38 MAX 13.74 MIN 12.88

STREAMS TRIBUTARY TO LAKE MICHIGAN

04100260 BEAR LAKE NEAR WOLFLAKE, IN

LOCATION.--Lat 41°19'07", long 85°30'49", in SW¹/₄, NW¹/₄, 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.25	4.43	4.47	4.40	4.38	4.37	4.45	4.40	4.35	4.19	4.36	4.16
10	4.21	4.39	4.44	4.50	4.36	4.47	4.40	4.36	4.35	4.15	4.28	4.36
15	4.21	4.39	4.48	4.48	4.43	4.40	4.43	4.33	4.26	4.33	4.21	4.34
20	4.28	4.58	4.42	4.38	4.48	4.49	4.58	4.39	4.29	4.57	4.17	4.33
25	4.53	4.48	4.39	4.42	4.45	4.53	4.54	4.33	4.26	4.46	4.12	4.45
EOM	4.56	4.48	4.37	4.39	4.41	4.50	4.48	4.34	4.22	4.46	4.13	4.40

WTR YR 1992 MEAN 4.38 MAX 4.65 MIN 4.08

WABASH RIVER BASIN

03331010 BIG CHAPMAN LAKE NEAR WARSAW, IN

LOCATION.--Lat 41°16'53", long 85°46'47", in NW¹/₄SE¹/₄SW¹/₄ 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 fishing 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.18	7.48	7.62	7.58	7.55	7.66	7.85	7.57	7.62	7.51	7.39	7.41
10	7.13	7.46	7.58	7.58	7.53	7.80	7.82	7.55	7.66	7.45	7.38	7.68
15	7.19	7.50	7.63	7.61	7.59	7.80	7.75	7.50	7.61	7.61	7.35	7.54
20	7.21	7.73	7.58	7.54	7.63	7.87	7.72	7.52	7.66	7.65	7.33	7.56
25	7.39	7.62	7.57	7.58	7.66	7.90	7.67	7.51	7.64	7.50	7.30	7.61
EOM	7.55	7.63	7.56	7.56	7.65	7.91	7.62	7.60	7.61	7.49	7.38	7.65

WTR YR 1992 MEAN 7.56 MAX 7.92 MIN 6.97

WABASH RIVER BASIN

03330040 BIG LAKE NEAR WOLFLAKE, IN

LOCATION.--Lat 41°16'33", long 85°30'43", in NW¹/₄SE¹/₄NW¹/₄ 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.83	8.23	8.32	8.24	8.30	8.22	8.28	8.20	8.23	8.04	8.14	8.06
10	7.80	8.19	8.26	8.24	8.27	8.31	8.25	8.18	8.20	8.03	8.12	8.23
15	7.81	8.20	8.36	8.29	8.35	8.26	8.29	8.19	8.14	8.15	8.08	8.15
20	7.83	8.47	8.26	8.29	8.35	8.35	8.57	8.20	8.13	8.31	8.04	8.15
25	7.98	8.34	8.24	8.31	8.29	8.43	8.36	8.15	8.10	8.19	8.00	8.41
EOM	8.28	8.33	8.22	8.27	8.25	8.33	8.28	8.19	8.05	8.21	8.05	8.22

WTR YR 1992 MEAN 8.21 MAX 8.58 MIN 7.70

STREAMS TRIBUTARY TO LAKE MICHIGAN
04099600 BIG LONG LAKE NEAR STROH, IN

LOCATION.--Lat 41°33'17", long 85°13'47", in NE¹/₄NW¹/₄NW¹/₄ 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.73	5.95	6.21	6.20	6.18	6.20	6.25	6.28	6.22	6.06	6.38	6.16
10	5.65	5.90	6.19	6.21	6.18	6.30	6.24	6.27	6.21	6.08	6.32	6.32
15	5.66	5.94	6.22	6.24	6.25	6.22	6.25	6.23	6.13	6.39	6.24	6.25
20	5.64	6.15	6.19	6.18	6.25	6.23	6.31	6.29	6.18	6.49	6.21	6.28
25	5.96	6.13	6.18	6.21	6.25	6.26	6.34	6.26	6.27	6.58	6.16	6.35
DOM	5.99	6.19	6.18	6.20	6.22	6.31	6.34	6.26	6.12	6.51	6.17	6.29

WTR YR 1992 MEAN 6.19 MAX 6.58 MIN 5.59

STREAMS TRIBUTARY TO LAKE MICHIGAN
04100140 BIXLER LAKE AT KENDALLVILLE, IN

LOCATION.--Lat 41°26'13", long 85°15'10", in NE¹/₄NE¹/₄NE¹/₄ 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	2.94	3.70	4.12	4.22	4.13	4.04	3.89	3.59	4.07	3.71	3.57	3.57
10	2.93	3.69	3.92	3.96	4.16	4.21	4.05	3.75	4.08	3.68	3.55	4.04
15	2.93	3.74	4.20	3.57	4.30	4.05	4.15	3.94	---	3.93	3.49	4.06
20	2.93	4.20	4.19	3.60	4.22	4.13	4.19	4.32	---	4.07	3.46	4.15
25	3.09	4.25	4.19	3.87	4.00	4.20	3.97	4.12	---	3.99	3.44	4.08
DOM	3.67	4.35	4.17	4.03	4.03	3.86	3.74	4.10	3.81	3.65	3.56	3.70

WTR YR 1992 MEAN 3.88 MAX 4.71 MIN 2.87

WABASH RIVER BASIN

03327600 BLUE LAKE NEAR CHURUBUSCO, IN

LOCATION.--Lat 41°14'30", long 85°21'04", in SW¹/₄NE¹/₄SE¹/₄ 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 Kalamazoo 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.20	9.53	9.98	9.94	10.04	9.95	10.02	9.96	10.04	9.93	10.02	9.94
10	9.12	9.52	9.96	9.97	10.01	9.96	9.97	9.93	10.13	9.95	9.97	10.23
15	9.15	9.52	10.03	10.03	10.04	9.96	9.99	9.94	10.07	10.13	9.95	10.25
20	9.12	9.86	9.96	9.97	10.11	10.01	10.24	10.01	10.12	10.61	9.89	10.27
25	9.31	9.98	9.95	10.06	10.07	10.15	10.18	10.01	10.06	10.54	9.84	10.55
ECM	9.52	9.99	9.93	10.05	10.00	10.11	10.05	10.02	9.97	10.21	9.95	10.29

WTR YR 1992 MEAN 9.96 MAX 10.74 MIN 9.04

STREAMS TRIBUTARY TO LAKE MICHIGAN

04099250 BOWER LAKE NEAR PLEASANT LAKE, IN

LOCATION.--Lat 41°36'03", long 85°03'24", in SW¹/₄SW¹/₄SE¹/₄ sec.5, T.36 N., R.13 E., Steuben County, Hydrologic Unit 04050001 (ASHLEY, IN quadrangle). The gage is located at the public fishing 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.26	8.79	9.07	8.91	8.77	8.89	9.26	9.02	8.44	8.26	9.60	8.39
10	8.18	8.52	8.99	8.86	8.69	9.21	8.98	8.81	8.49	8.26	9.00	8.84
15	8.17	8.43	9.26	8.84	8.76	9.34	8.86	8.68	8.34	9.42	8.68	8.75
20	8.17	8.49	8.92	8.64	9.50	9.28	9.34	8.69	8.79	10.10	8.54	8.48
25	8.23	9.42	8.78	8.86	9.36	9.52	9.91	8.51	8.53	11.18	8.41	8.88
ECM	9.12	8.92	8.67	8.73	9.17	9.57	9.47	8.50	8.36	10.11	8.50	8.68

WTR YR 1992 MEAN 8.90 MAX 11.21 MIN 8.08

STREAMS TRIBUTARY TO LAKE MICHIGAN

04099810 CASS LAKE NEAR SHIPSHAWANA, IN

LOCATION.--Lat 41°41'42", long 85°38'18", in SW¹/₄NW¹/₄NW¹/₄ 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, 3.81 ft July 28, 1981; minimum stage, 1.80 ft May 15, 1971.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	2.98	3.01	3.04	2.96	2.78	2.82	2.83	2.73	2.88	2.66	2.84	2.50
10	2.95	2.99	3.06	2.92	2.77	2.92	2.83	2.70	2.91	2.65	2.78	2.73
15	2.96	3.01	3.05	2.87	2.83	2.85	2.81	2.69	2.84	2.90	2.66	2.68
20	2.97	3.12	3.03	2.81	2.85	2.83	2.85	2.75	2.80	2.87	2.58	2.60
25	3.23	3.04	3.01	2.82	2.87	2.85	2.83	2.76	2.78	2.96	2.54	2.61
COM	3.10	3.05	3.01	2.79	2.84	2.88	2.80	2.87	2.72	2.92	2.50	2.58

WTR YR 1992 MEAN 2.84 MAX 3.24 MIN 2.49

ILLINOIS RIVER BASIN

05518700 CEDAR LAKE AT CEDAR LAKE, IN

LOCATION.--Lat 41°21'58", long 87°25'36", in NE¹/₄SW¹/₄SW¹/₄ 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 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	1.95	2.85	3.01	2.95	3.05	3.01	2.90	2.60	1.78	1.99	1.56
10	---	1.97	2.95	2.99	2.94	3.07	3.00	2.86	2.54	1.70	1.97	1.56
15	---	2.18	3.01	2.97	2.93	3.06	2.97	2.82	2.48	1.65	1.93	1.67
20	---	2.42	3.03	2.95	2.99	3.05	2.97	2.76	2.22	1.73	1.85	1.71
25	---	2.55	3.04	2.95	3.04	3.05	2.96	2.71	2.01	1.83	1.75	2.08
COM	1.91	2.74	3.03	2.95	3.05	3.03	2.94	2.64	1.86	1.97	1.65	2.29

WTR YR 1992 MEAN 2.52 MAX 3.07 MIN 1.51

WABASH RIVER BASIN

03331160 CENTER LAKE AT WARSAW, IN

LOCATION.--Lat 41°15'02", long 85°51'32", in NE¹/₄SW¹/₄ 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 Kosciuszko 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.11	4.55	4.60	4.24	4.30	4.35	4.80	4.43	4.22	4.07	4.37	4.04
10	4.06	4.30	4.52	4.19	4.26	4.37	4.37	4.37	4.21	4.11	4.24	4.33
15	4.09	4.22	4.61	4.20	4.26	4.47	4.58	4.29	4.16	4.38	4.13	4.52
20	4.10	4.46	4.48	4.20	4.42	4.65	5.00	4.26	4.19	4.65	4.08	4.34
25	4.36	4.59	4.41	4.22	4.54	4.71	4.95	4.21	4.12	4.53	4.03	4.29
EOM	4.77	4.60	4.24	4.24	4.53	4.83	4.87	4.26	4.05	4.47	4.03	4.25

WTR YR 1992 MEAN 4.36 MAX 5.00 MIN 3.92

STREAMS TRIBUTARY TO LAKE ERIE

04177200 CLEAR LAKE AT CLEAR LAKE, IN

LOCATION.--Lat 41°44'52", long 84°50'25", in SW¹/₄SW¹/₄ 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, 8.49 ft Mar. 20, 21, 1982; minimum stage, 6.24 ft Sept. 30, 1962.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	7.75	7.87	7.83	7.65	7.88	7.93	7.94	7.76	7.63	---	---
10	7.54	7.69	7.88	7.86	7.66	7.95	7.79	7.88	7.82	7.63	---	---
15	7.54	7.63	7.88	7.90	7.69	7.93	7.92	7.86	7.75	---	---	---
20	7.54	7.86	7.84	7.87	7.78	7.90	7.91	7.86	7.79	---	---	---
25	7.61	7.86	7.84	7.66	7.91	7.90	8.01	7.79	7.76	---	---	---
EOM	7.72	7.87	7.84	7.62	7.91	7.94	8.00	7.76	7.72	---	---	---

WTR YR 1992 MEAN 7.80 MAX 8.01 MIN 7.45

05515240 CLEAR LAKE AT LAPORTE, IN

LOCATION.--Lat 41°37'25", long 86°43'11", in NE¹/₄SE¹/₄SE¹/₄ 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, 11.20 ft Apr. 23, 1973; minimum stage, 3.98 ft Nov. 27, 1964.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.43	9.65	9.97	9.93	9.94	10.03	10.36	10.24	9.85	9.42	9.51	9.36
10	9.36	9.61	9.97	9.94	9.94	10.33	10.32	10.17	9.79	9.35	9.46	9.69
15	9.34	9.66	10.00	9.97	10.00	10.30	10.33	10.08	9.70	9.52	9.39	9.60
20	9.29	9.87	9.98	9.95	10.06	10.28	10.38	10.00	9.64	9.50	9.34	9.54
25	9.49	9.85	9.98	9.99	10.07	10.31	10.36	9.90	9.55	9.51	9.26	9.51
EOM	9.73	9.95	9.95	9.96	10.06	10.38	10.32	9.81	9.47	9.61	9.23	9.68

WTR YR 1992 MEAN 9.82 MAX 10.38 MIN 9.06

STREAMS TRIBUTARY TO LAKE MICHIGAN

04097850 CROOKED LAKE AT CROOKED LAKE, IN

LOCATION.--Lat 41°40'14", long 85°02'04", in NE¹/₄NW¹/₄NE¹/₄ 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, 10.07 ft Apr. 6, 1985; minimum stage, 7.05 ft Nov. 13-15, 1964.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.75	8.79	8.93	8.92	8.88	8.93	9.00	8.94	8.92	8.71	9.33	9.12
10	8.62	8.77	8.93	8.89	8.84	9.10	8.95	8.94	8.90	8.76	9.30	9.31
15	8.61	8.80	8.92	8.93	8.93	8.99	8.93	8.93	8.80	9.01	9.21	9.21
20	8.61	8.93	---	8.89	8.93	8.98	9.00	8.94	8.89	9.07	9.17	9.20
25	8.93	8.93	8.91	8.91	8.94	9.04	9.11	8.92	8.84	9.25	9.12	9.14
EOM	8.85	8.93	8.90	8.89	8.93	9.07	9.01	8.93	8.75	9.43	9.13	9.14

WTR YR 1992 MEAN 8.96 MAX 9.43 MIN 8.54

STREAMS TRIBUTARY TO LAKE MICHIGAN

04100470 DEWART LAKE NEAR LEESBURG, IN

LOCATION.--Lat 41°22'27", long 85°47'07", in NW¹/₄SW¹/₄NW¹/₄ 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 Dewart Lake Marina, 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.

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 Wabash 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.22	8.37	---	---	---	---	---	---	---	---	---	---
10	8.12	---	---	---	---	---	---	---	---	---	---	---
15	8.12	---	---	---	---	---	---	---	---	---	---	---
20	8.11	---	---	---	---	---	---	---	---	---	---	---
25	8.26	---	---	---	---	---	---	---	---	---	---	---
ECM	8.48	---	---	---	---	---	---	---	---	---	---	---

WTR YR 1992 MEAN 8.22 MAX 8.49 MIN 7.99

WABASH RIVER BASIN

03331320 DIAMOND LAKE NEAR SILVER LAKE, IN

LOCATION.--Lat 41°06'23", long 85°56'05", in SW¹/₄NW¹/₄SE¹/₄ 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.09	10.50	10.62	10.56	10.55	10.56	10.66	10.55	10.48	---	---	---
10	10.01	10.44	10.58	10.57	10.55	10.73	10.62	10.53	10.51	---	---	---
15	10.05	10.46	10.67	10.60	10.65	10.68	10.65	10.53	10.43	---	---	---
20	10.08	10.79	10.59	10.53	10.71	10.75	10.74	10.52	10.43	---	---	---
25	10.29	10.62	10.56	10.58	10.65	10.70	10.69	10.47	10.39	---	---	---
ECM	10.62	10.64	10.53	10.55	10.61	10.77	10.63	10.50	---	---	---	---

WTR YR 1992 MEAN 10.53 MAX 10.79 MIN 9.90

STREAMS TRIBUTARY TO LAKE MICHIGAN

04100350 DIAMOND LAKE NEAR WAWAKA, IN

LOCATION.--Lat 41°26'15", long 85°31'05", in NE¹/₄NW¹/₄, 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 fishing 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.--Willetts 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.80	5.22	5.06	4.86	4.84	4.80	4.92	---	---	4.66	4.89	4.64
10	4.77	5.03	5.01	4.88	4.81	4.92	4.80	---	---	4.66	4.83	4.83
15	4.78	4.95	4.98	4.92	4.82	4.93	4.76	---	---	5.01	4.72	4.77
20	4.78	5.12	4.92	4.83	4.92	4.95	4.93	---	---	5.23	4.67	4.75
25	4.95	5.18	4.86	4.89	4.92	5.01	---	---	4.76	5.12	4.60	5.04
EQM	5.38	5.12	4.82	4.85	4.86	5.01	---	---	4.71	5.01	4.59	5.02

WTR YR 1992 MEAN 4.89 MAX 5.42 MIN 4.58

STREAMS TRIBUTARY TO LAKE MICHIGAN

04100370 ENGLE LAKE NEAR LIGONIER, IN

LOCATION.--Lat 41°26'08", long 85°34'30", in SE¹/₄NW¹/₄, 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.14	9.20	9.24	9.18	9.13	9.17	9.27	9.18	9.12	8.87	8.93	8.89
10	9.03	9.16	9.24	9.17	9.12	9.32	9.24	9.16	9.07	8.88	8.89	9.09
15	9.04	9.18	9.24	9.18	9.21	9.24	9.26	9.13	8.99	9.26	8.83	8.94
20	9.03	9.36	9.23	9.18	9.23	9.28	9.32	9.18	9.04	9.19	8.83	8.93
25	9.22	9.24	9.19	9.18	9.23	9.31	9.30	9.12	8.98	9.07	8.80	9.10
EQM	9.31	9.27	9.15	9.15	9.19	9.32	9.26	9.16	8.92	9.02	8.81	9.05

WTR YR 1992 MEAN 9.13 MAX 9.43 MIN 8.80

STREAMS TRIBUTARY TO LAKE MICHIGAN

04099670 FISH LAKE NEAR PLATO, IN

LOCATION.--Lat 41°37'27", long 85°19'56", in SW¹/₄NE¹/₄NE¹/₄ 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.00	6.95	7.01	6.83	6.80	6.87	7.02	6.93	6.72	6.59	7.01	6.72
10	7.03	6.81	6.96	6.84	6.78	7.03	6.95	6.89	6.68	6.59	6.82	7.38
15	7.10	6.79	6.96	6.86	6.82	7.04	6.91	6.87	6.57	6.94	6.70	7.13
20	7.14	7.00	6.86	6.76	6.95	7.04	7.03	6.88	6.67	7.01	6.66	6.88
25	7.38	7.00	6.82	6.81	6.97	7.08	7.09	6.80	6.71	7.43	6.60	6.95
EOM	7.26	7.02	6.79	6.81	6.91	7.12	7.05	6.80	6.66	7.25	6.76	6.89

WTR YR 1992 MEAN 6.91 MAX 7.68 MIN 6.54

STREAMS TRIBUTARY TO LAKE MICHIGAN

04099760 FISH LAKE NEAR SCOTT, IN

LOCATION.--Lat 41°45'25", long 85°38'54", in NW¹/₄NW¹/₄SE¹/₄ 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	3.88	4.45	4.53	4.44	4.39	4.40	4.45	4.35	4.41	4.10	4.35	4.22
10	3.85	4.39	4.53	4.45	4.37	4.50	4.40	4.34	4.40	4.05	4.34	4.50
15	3.87	4.41	4.56	4.44	4.46	4.43	4.42	4.34	4.32	4.30	4.28	4.49
20	3.87	4.55	4.50	4.41	4.49	4.43	4.47	4.35	4.24	4.27	4.26	4.44
25	4.22	4.51	4.45	4.40	4.47	4.47	4.44	4.33	4.22	4.39	4.22	4.46
EOM	4.56	4.53	4.42	4.39	4.42	4.50	4.41	4.41	4.16	4.41	4.22	4.47

WTR YR 1992 MEAN 4.36 MAX 4.59 MIN 3.70

ILLINOIS RIVER BASIN

257

05517700 FLINT LAKE NEAR VALPARAISO, IN

LOCATION.--Lat 41°30'41", long 87°02'23", in NE¹/₄, SW¹/₄, 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.75	17.73	---	---	19.20	19.33	19.60	19.44	18.84	18.00	17.61	16.60
10	16.67	17.72	---	---	19.16	19.57	19.58	19.32	18.78	17.80	17.43	17.33
15	16.52	17.83	---	19.25	19.27	19.50	19.56	19.24	18.64	18.00	17.30	17.29
20	16.33	18.64	---	19.18	19.35	19.48	19.59	19.13	18.57	17.96	17.07	17.16
25	16.55	18.74	---	19.25	19.43	19.51	19.58	19.00	18.39	17.84	16.82	17.09
EOM	17.65	---	---	19.20	19.39	19.58	19.52	18.88	18.18	17.80	16.57	17.27

WTR YR 1992 MEAN 18.36 MAX 19.61 MIN 16.10

WABASH RIVER BASIN

03330160 GILBERT LAKE NEAR WASHINGTON CENTER, IN

LOCATION.--Lat 41°19'50", long 85°35'48", in NE¹/₄, NE¹/₄, SE¹/₄, 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.49	5.13	4.96	5.24	5.14	5.50	---	5.20	5.80	---	5.39	5.81
10	4.21	5.09	4.97	5.32	5.24	---	---	5.24	---	---	5.44	6.05
15	4.40	5.11	5.05	5.35	5.39	---	---	5.26	---	---	5.50	5.96
20	4.58	5.27	5.00	5.35	5.58	---	---	5.46	---	5.17	5.54	6.02
25	4.92	5.08	4.95	5.15	5.57	---	5.20	5.52	---	5.13	5.58	---
EOM	5.21	5.04	5.03	5.09	5.56	---	5.16	5.68	---	5.35	5.69	---

WTR YR 1992 MEAN 5.27 MAX 6.11 MIN 4.21

STREAMS TRIBUTARY TO LAKE MICHIGAN

04100110 HACKENBURG LAKE NEAR WOLCOTTVILLE, IN

LOCATION.--Lat 41°33'25", long 85°26'17", in NE¹/₄SW¹/₄SW¹/₄ 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, Westlar, 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 Westlar 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.62	8.13	8.08	7.66	7.63	7.79	8.13	7.90	7.66	7.53	8.73	7.90
10	7.58	7.88	8.03	7.67	7.60	7.92	8.00	7.76	7.65	7.56	8.51	8.12
15	7.59	7.73	7.98	7.73	7.62	7.96	7.89	7.57	7.58	8.02	8.28	8.15
20	7.59	7.93	7.87	7.64	7.81	7.96	7.99	7.71	---	8.44	8.08	8.04
25	7.76	8.12	7.78	7.64	7.90	8.04	8.04	7.69	7.63	8.70	7.93	8.25
COM	8.24	8.13	7.66	7.63	7.89	8.16	8.04	7.70	7.58	8.85	7.94	8.22

WTR YR 1992 MEAN 7.91 MAX 8.85 MIN 7.51

STREAMS TRIBUTARY TO LAKE ERIE

04177700 HAMILTON LAKE AT HAMILTON, IN

LOCATION.--Lat 41°32'10", long 84°54'45", in SW¹/₄SW¹/₄NW¹/₄ 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.43	8.49	8.61	8.59	8.62	8.55	8.59	8.52	8.55	8.42	8.57	8.47
10	8.40	8.48	8.58	8.57	8.57	8.69	8.56	8.50	8.50	8.43	8.53	8.65
15	8.41	8.51	8.63	8.61	8.61	8.60	8.55	8.49	8.44	8.74	8.47	8.54
20	8.42	8.75	8.58 ^a	8.61	8.67	8.60	8.63	8.51	8.49	8.78	8.48	8.53
25	8.53	8.62	8.54	8.61	8.63	8.68	8.64	8.47	8.50	8.92	8.47	8.63
COM	8.60	8.64	8.54	8.61	8.59	8.66	8.58	8.51	8.45	8.69	8.47	8.53

WTR YR 1992 MEAN 8.56 MAX 9.06 MIN 8.27

STREAMS TRIBUTARY TO LAKE MICHIGAN

259

04099860 HEATON LAKE NEAR ELKHART, IN

LOCATION.--Lat 41°44'14", long 85°54'42", in NW¹/₄NE¹/₄NE¹/₄ 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.04	8.27	8.22	8.14	8.15	8.12	8.21	8.03	7.82	7.01	7.32	6.77
10	---	8.22	8.24	8.15	8.11	8.21	8.16	8.00	7.76	6.84	7.28	7.26
15	---	8.19	8.25	8.14	8.16	8.17	8.14	7.97	7.57	7.07	7.13	7.43
20	---	8.27	8.20	8.14	8.19	8.17	8.16	7.89	7.45	7.08	7.04	7.77
25	---	8.23	8.18	8.16	8.19	8.20	8.14	7.84	7.28	7.20	6.85	8.04
EOM	---	8.24	8.12	8.15	8.15	8.25	8.11	7.87	7.11	7.34	6.76	8.05

WTR YR 1992 MEAN 7.82 MAX 8.29 MIN 6.74

STREAMS TRIBUTARY TO LAKE MICHIGAN

04100258 HIGH LAKE NEAR WOLFLAKE, IN

LOCATION.--Lat 41°18'51", long 85°31'49", in SW¹/₄NE¹/₄SW¹/₄ 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.61	6.85	7.03	6.93	6.65	6.63	6.68	6.64	6.58	6.46	6.60	6.52
10	6.61	6.76	6.98	6.77	6.64	6.75	6.64	6.61	6.58	6.45	6.57	6.73
15	6.63	6.76	7.05	6.73	6.68	6.76	6.66	6.60	6.51	6.64	6.53	6.65
20	6.60	7.03	6.95	6.73	6.76	6.78	6.84	6.62	6.57	6.81	6.50	6.62
25	6.76	7.00	6.94	6.70	6.72	6.77	6.77	6.57	6.54	6.66	6.49	6.71
EOM	6.95	7.03	6.91	6.70	6.67	6.71	6.71	6.59	6.48	6.67	6.51	6.67

WTR YR 1992 MEAN 6.70 MAX 7.07 MIN 6.44

WABASH RIVER BASIN

03331300 HILL LAKE NEAR SILVER LAKE, IN

LOCATION.--Lat 41°06'16", long 85°54'35", in SE¹/₄NE¹/₄SE¹/₄ 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 Kosciusko 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.74	11.12	11.36	11.32	11.32	11.33	---	11.35	11.33	11.16	11.33	11.28
10	10.71	11.12	11.34	11.32	11.31	11.43	11.41	11.34	11.36	11.16	11.31	11.47
15	10.70	11.17	11.36	11.35	11.36	11.37	11.42	11.35	11.31	11.34	11.26	11.38
20	10.70	11.40	11.34	11.34	11.38	---	11.48	11.35	11.29	11.42	11.25	11.35
25	10.88	11.36	11.32	11.33	11.36	---	11.48	11.31	11.25	11.33	11.21	11.39
DOM	11.13	11.39	11.31	11.32	11.33	---	11.43	11.33	11.20	11.32	11.30	11.38

WTR YR 1992 MEAN 11.28 MAX 11.49 MIN 10.62

STREAMS TRIBUTARY TO LAKE MICHIGAN

04099500 HOGBACK LAKE NEAR ANGOLA, IN

LOCATION.--Lat 41°37'39", long 85°04'59", in SE¹/₄SE¹/₄SE¹/₄ 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.47	9.98	10.16	9.91	9.81	10.06	10.36	10.17	9.61	9.39	10.61	9.58
10	9.46	9.75	10.06	9.95	9.82	10.12	10.13	9.95	9.61	9.35	10.09	9.77
15	9.43	9.69	10.24	9.93	9.80	10.40	9.99	9.86	9.49	10.08	9.79	9.86
20	9.41	9.84	10.05	9.89	10.38	10.32	10.30	9.81	9.72	11.02	9.71	9.65
25	9.55	10.35	9.93	9.83	10.39	10.33	10.67	9.70	9.66	11.79	9.60	9.97
DOM	10.28	10.07	9.85	9.79	10.27	10.58	10.53	9.64	9.50	11.00	9.66	9.79

WTR YR 1992 MEAN 9.98 MAX 11.85 MIN 9.35

05514741 HUDSON LAKE AT HUDSON LAKE, IN

LOCATION.--Lat 41°42'42", long 86°32'13", in SE¹/₄SW¹/₄ 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 town line of New Carlisle.

SURFACE AREA.--432 acres.

DRAINAGE AREA.--7.92 mi².

PERIOD OF RECORD.--1946-76, 1978 to current year.

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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.77	13.64	13.58	13.40	13.32	13.61	13.69	13.48	13.34	13.18	13.41	13.40
10	13.70	13.55	13.64	13.34	13.43	13.74	13.64	13.41	13.33	13.15	13.41	13.69
15	13.63	13.55	13.70	13.38	13.49	13.70	13.67	13.34	13.27	13.29	13.36	13.72
20	13.52	13.64	13.70	13.34	13.57	13.66	13.66	13.26	13.24	13.31	13.36	13.70
25	13.66	13.55	13.62	13.29	13.60	13.69	13.63	13.26	13.22	13.34	13.33	13.67
EOM	13.74	13.60	13.48	13.28	13.60	13.74	13.57	13.27	13.18	13.46	13.32	13.74

WTR YR 1992 MEAN 13.49 MAX 13.78 MIN 13.15

STREAMS TRIBUTARY TO LAKE MICHIGAN

04097680 JIMMERSON LAKE AT NEVADA MILLS, IN

LOCATION.--Lat 41°43'31", long 85°04'55", in SW¹/₄NW¹/₄ 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.

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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.84	5.04	5.12	5.07	5.02	5.10	5.15	5.13	4.84	4.68	5.24	4.93
10	4.81	5.01	5.13	5.06	5.00	5.20	5.13	5.09	4.86	4.70	5.13	5.11
15	4.79	5.01	5.11	5.09	5.04	5.17	5.09	5.04	4.80	4.95	5.01	5.12
20	4.80	5.14	5.09	5.09	5.11	5.12	5.17	5.00	4.82	5.03	4.94	5.08
25	4.93	5.14	5.07	5.07	5.13	5.15	5.26	4.90	4.78	5.22	4.89	5.03
EOM	5.10	5.12	5.05	5.03	5.13	5.18	5.25	4.86	4.74	5.30	4.93	4.99

WTR YR 1992 MEAN 5.03 MAX 5.30 MIN 4.67

WABASH RIVER BASIN

03331438 KING LAKE NEAR DELONG, IN

LOCATION.--Lat 41°07'48", long 86°25'23", in NW¹/₄, SW¹/₄, SE¹/₄, 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.25	5.50	5.96	6.36	4.79	4.91	5.47	4.81	4.89	4.84	5.20	4.97
10	5.18	5.48	6.01	5.51	4.75	5.00	4.92	4.77	5.04	4.91	5.19	5.23
15	5.16	5.53	6.21	4.99	4.86	4.93	5.02	4.99	4.96	5.18	5.11	5.19
20	5.14	5.75	6.24	4.82	5.01	4.96	5.12	4.96	4.99	5.26	5.04	5.17
25	5.24	5.79	6.29	4.83	4.99	5.08	5.03	4.91	4.94	5.24	4.97	5.17
EQM	5.53	5.89	6.30	4.80	4.91	5.23	4.95	5.02	4.87	5.27	5.01	5.25

WTR YR 1992 MEAN 5.21 MAX 6.42 MIN 4.73

STREAMS TRIBUTARY TO LAKE MICHIGAN

04100390 KNAPP LAKE NEAR WASHINGTON CENTER, IN

LOCATION.--Lat. 41°20'36", long 85°36'17", in SW¹/₄, NE¹/₄, SW¹/₄, sec.4, T.33 N., R.8 E., Noble County, Hydrologic Unit 04050001 (ORMAS, IN quadrangle). The gage is at a public fishing 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, 6.87 ft Sept. 14, 15, 1983.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	7.48	7.50	7.30	7.30	7.90	7.59	7.26	7.37	7.19	7.71	7.42
10	---	7.27	7.41	7.30	7.24	8.40	7.52	7.21	7.36	7.23	7.87	7.51
15	7.11	7.22	7.52	7.34	7.32	8.35	---	7.18	7.25	7.79	7.64	7.22
20	7.11	7.72	7.34	7.23	7.48	8.38	---	7.45	7.50	8.09	7.22	7.12
25	7.31	7.61	7.28	7.37	7.41	8.07	7.54	7.33	7.38	7.74	7.09	7.24
EQM	7.87	7.52	7.23	7.28	7.62	7.73	7.39	7.36	7.28	7.66	7.26	7.21

WTR YR 1992 MEAN 7.47 MAX 8.44 MIN 7.08

ILLINOIS RIVER BASIN

263

05515600 KOONTZ LAKE AT KOONTZ LAKE, IN

LOCATION.--Lat 41°24'42", long 86°29'18", in SW¹/₄SE¹/₄NE¹/₄ 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.62	4.58	4.60	4.54	4.55	4.54	4.59	4.53	4.60	4.44	4.49	4.43
10	4.53	4.56	4.58	4.55	4.56	4.64	4.56	4.52	4.56	4.44	4.48	4.78
15	4.50	4.58	4.58	4.55	4.64	4.58	4.59	4.52	4.51	4.52	4.44	4.54
20	4.49	4.64	4.56	4.55	4.58	4.59	4.64	4.51	4.47	4.50	4.44	4.52
25	4.69	4.58	4.56	4.55	4.57	4.60	4.59	4.48	4.45	4.50	4.40	4.55
DOM	4.70	4.61	4.53	4.54	4.54	4.63	4.56	4.53	4.42	4.54	4.42	4.56

WTR YR 1992 MEAN 4.54 MAX 4.80 MIN 4.38

ILLINOIS RIVER BASIN

05517800 LAKE ELIZA NEAR BEATRICE, IN

LOCATION.--Lat 41°25'55", long 87°10'33", in SW¹/₄NE¹/₄NW¹/₄ 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	3.52	4.14	4.21	4.17	4.20	4.19	4.16	4.09	3.79	3.42	3.54	3.30
10	3.47	4.15	4.23	4.17	4.15	4.45	4.16	4.05	3.72	3.41	3.51	3.66
15	3.46	4.32	4.20	4.18	4.33	4.28	4.21	4.02	3.62	3.47	3.45	3.62
20	3.42	4.72	4.19	4.14	4.25	4.37	4.23	3.93	3.60	3.52	3.38	3.57
25	3.53	4.60	4.19	4.21	4.47	4.21	4.17	3.85	3.53	3.56	3.33	3.70
DOM	4.24	4.59	4.16	4.16	4.19	4.21	4.15	3.79	3.46	3.61	3.31	3.79

WTR YR 1992 MEAN 3.93 MAX 4.72 MIN 3.15

STREAMS TRIBUTARY TO LAKE MICHIGAN

04097950 LAKE GAGE AT PANAMA, IN

LOCATION.--Lat 41°42'32", long 85°06'53", in SE¹/₄SE¹/₄NW¹/₄ 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.47	4.33	4.08	4.07	---	---	---	4.71	4.47	4.33	4.74	4.56
10	4.41	4.14	4.07	4.11	---	---	---	4.63	4.46	4.35	4.73	4.71
15	4.41	4.07	4.07	4.21	---	---	---	4.57	4.39	4.58	4.64	4.64
20	4.42	4.16	3.99	4.23	---	---	---	4.54	4.44	4.59	4.61	4.60
25	4.58	4.09	4.01	4.37	---	---	4.79	4.47	4.40	4.71	4.58	4.56
ECM	4.67	4.12	3.99	---	---	---	4.77	4.48	4.38	4.79	4.56	4.52

WTR YR 1992 MEAN 4.43 MAX 4.79 MIN 3.98

STREAMS TRIBUTARY TO LAKE MICHIGAN

04092990 LAKE GEORGE AT HOBART, IN

LOCATION.--Lat 41°32'07", long 87°15'30", in NW¹/₄NW¹/₄NW¹/₄ 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	2.80	2.35	2.37	2.21	2.43	2.27	2.33	2.13	2.15	2.01	2.17	2.06
10	2.08	2.21	2.57	2.23	2.20	2.63	2.28	2.09	2.05	2.05	2.06	3.32
15	2.05	2.51	2.13	2.19	2.63	2.46	2.28	2.08	2.11	2.31	2.05	2.20
20	2.02	3.51	2.27	2.12	2.85	2.34	2.46	2.01	2.08	2.22	2.01	2.15
25	2.61	2.44	2.27	2.53	2.66	2.40	2.33	2.00	2.04	2.11	2.00	2.22
ECM	2.93	3.47	2.18	2.25	2.41	2.37	2.22	2.06	2.00	2.87	2.00	2.19

WTR YR 1992 MEAN 2.28 MAX 3.51 MIN 1.97

04097550 LAKE GEORGE AT JAMESTOWN, IN

LOCATION.--Lat 41°44'58", long 85°01'01", in SE¹/₄NW¹/₄SE¹/₄ 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.52	5.80	5.71	5.68	5.65	5.69	5.69	5.68	5.57	5.46	5.77	5.67
10	5.49	5.74	5.74	5.68	5.65	5.79	5.69	5.72	5.58	5.45	5.74	5.90
15	5.49	5.69	5.72	5.71	5.65	5.65	5.66	5.65	5.54	5.65	5.63	5.78
20	5.50	5.78	5.69	5.69	5.70	5.64	5.72	5.65	5.56	5.67	5.64	5.70
25	5.65	5.72	5.68	5.68	5.71	5.67	5.77	5.56	5.53	5.85	5.61	5.68
COM	5.75	5.74	5.68	5.67	5.70	5.71	5.74	5.55	5.50	5.87	5.69	5.64

WTR YR 1992 MEAN 5.67 MAX 5.91 MIN 5.41

WABASH RIVER BASIN

03331380 LAKE MANITOU AT ROCHESTER, IN

LOCATION.--Lat 41°03'00", long 86°10'06", NW¹/₄SW¹/₄NW¹/₄ sec.14, T.30 N., R.3 E., Fulton County, Hydrologic Unit 05120106 (ROCHESTER, IN quadrangle). The gage is located at the Public Fishing 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.49	8.52	8.68	8.54	8.51	8.50	8.60	8.54	8.50	8.39	8.42	8.38
10	8.40	8.47	8.59	8.54	8.49	8.68	8.57	8.53	8.52	8.46	8.39	8.58
15	8.39	8.50	8.65	8.57	8.55	8.65	8.60	8.52	8.46	8.62	8.34	8.43
20	8.39	8.81	8.54	8.52	8.64	8.73	8.74	8.49	8.51	8.60	8.32	8.40
25	8.66	8.68	8.52	8.58	8.57	8.65	8.69	8.47	8.46	8.50	8.30	8.45
COM	8.64	8.67	8.51	8.51	8.53	8.67	8.61	8.56	8.41	8.49	8.41	8.47

WTR YR 1992 MEAN 8.53 MAX 8.88 MIN 8.25

WABASH RIVER BASIN

03331440 LAKE MAXINKUCKEE AT CULVER, IN

LOCATION.--Lat 41°11'48", long 86°25'00", in NE¹/₄SE¹/₄NW¹/₄ 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 fishing 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	2.91	3.04	3.36	3.49	3.41	3.42	3.55	3.50	3.24	3.06	3.24	3.13
10	2.86	3.03	3.40	3.51	3.39	3.51	3.51	3.43	3.30	3.10	3.21	3.38
15	2.86	3.10	3.49	3.52	3.42	3.47	3.50	3.39	3.23	3.30	3.12	3.31
20	2.83	3.28	3.48	3.47	3.49	3.49	3.65	3.31	3.16	3.43	3.09	3.26
25	2.94	3.28	3.48	3.48	3.49	3.51	3.65	3.22	3.11	3.36	3.07	3.22
EOM	3.12	3.35	3.47	3.44	3.46	3.59	3.59	3.25	3.07	3.32	3.15	3.25

WTR YR 1992 MEAN 3.31 MAX 3.66 MIN 2.70

ILLINOIS RIVER BASIN

05516200 LAKE OF THE WOODS NEAR BREMEN, IN

LOCATION.--Lat 41°25'04", long 86°13'44", in SW¹/₄NW¹/₄NW¹/₄ sec.7, T.34 N., R.3 E., Marshall County, Hydrologic Unit 07120001 (BREMAN, 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	3.28	3.44	3.62	---	3.50	3.48	3.71	3.37	3.46	3.59	3.96	3.79
10	3.16	3.29	3.50	---	3.39	3.75	3.56	3.29	3.66	3.59	3.91	4.26
15	3.13	3.25	3.65	---	3.73	3.61	3.64	3.24	3.63	3.93	3.87	3.79
20	3.08	3.65	---	---	3.84	3.65	3.81	3.22	3.67	4.01	3.82	3.39
25	3.51	3.45	---	---	3.76	3.78	3.59	3.19	3.63	3.96	3.79	3.69
EOM	3.67	3.66	---	3.41	3.61	3.89	3.48	3.59	3.58	4.14	3.82	3.68

WTR YR 1992 MEAN 3.59 MAX 4.26 MIN 3.00

STREAMS TRIBUTARY TO LAKE MICHIGAN

04099580 LAKE OF THE WOODS NEAR HELMER, IN

LOCATION.--Lat 41°32'30", long 85°11'42", in SE¹/₄, SE¹/₄, SE¹/₄, 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 mi².

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 Lakes drain 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.16	11.42	11.49	11.69	11.86	11.46	11.48	11.42	11.30	11.24	11.46	11.27
10	11.13	11.33	11.48	11.70	11.87	11.52	11.42	11.39	11.28	11.27	11.38	11.42
15	11.15	11.31	11.57	11.76	11.95	11.48	11.42	11.40	11.21	11.63	11.30	11.35
20	11.15	11.50	11.65	11.76	11.94	11.46	11.53	11.46	11.37	11.73	11.27	11.33
25	11.31	11.47	11.69	11.80	11.63	11.51	11.57	11.37	11.37	11.83	11.24	11.49
DOM	11.58	11.46	11.68	11.83	11.54	11.54	11.51	11.34	11.31	11.65	11.25	11.41

WTR YR 1992 MEAN 11.48 MAX 12.01 MIN 11.03

STREAMS TRIBUTARY TO LAKE MICHIGAN

04097520 LAKE PLEASANT NEAR NEVADA MILLS, IN

LOCATION.--Lat 41°45'18", long 85°06'10", in NW¹/₄, SW¹/₄, NW¹/₄, 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 mi².

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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	1.37	1.55	1.57	1.56	---	---	---	1.69	1.42	1.22	1.69	1.55
10	1.34	1.52	1.62	---	---	---	---	1.62	1.42	1.21	1.62	1.78
15	1.34	1.54	1.59	---	---	---	---	1.56	1.33	1.49	1.52	1.68
20	1.34	1.65	1.58	---	---	---	---	1.53	1.38	1.50	1.48	1.61
25	1.55	1.59	1.56	---	---	---	1.78	1.45	1.33	1.77	1.44	1.57
DOM	1.64	1.63	1.54	---	---	---	1.79	1.43	1.27	1.81	1.56	1.53

WTR YR 1992 MEAN 1.53 MAX 1.81 MIN 1.18

STREAMS TRIBUTARY TO LAKE MICHIGAN

04100160 LITTLE LONG LAKE AT KENDALLVILLE, IN

LOCATION.--Lat 41°27'49", long 85°15'27", in SE¹/₄NW¹/₄NE¹/₄ 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.21	4.59	4.77	4.71	4.72	4.72	4.78	4.73	4.70	4.54	4.67	4.62
10	4.18	4.59	4.75	4.74	4.72	4.78	4.74	4.72	4.68	4.52	4.64	4.88
15	4.18	4.63	4.76	4.79	4.78	4.73	4.77	4.72	4.61	4.83	4.60	4.72
20	4.19	4.90	4.73	4.78	4.83	4.78	4.89	4.81	4.69	4.96	4.58	4.73
25	4.33	4.79	4.71	4.75	4.79	4.84	4.83	4.71	4.64	4.91	4.55	4.82
DOM	4.58	4.78	4.69	4.73	4.75	4.84	4.81	4.72	4.59	4.76	4.62	4.74

WTR YR 1992 MEAN 4.69 MAX 5.05 MIN 4.02

WABASH RIVER BASIN

03328100 LONG LAKE AT LAKETON, IN

LOCATION.--Lat 40°59'08", long 85°50'20", in NE¹/₄NW¹/₄NE¹/₄ 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.89	---	---	11.48	11.58	---	11.91	11.84	11.59	11.28	11.56	11.29
10	10.82	---	---	11.49	11.59	---	11.89	11.82	11.52	11.33	11.49	11.45
15	10.79	---	11.46	11.55	---	---	11.86	11.77	11.52	11.68	11.41	11.38
20	---	---	11.46	11.55	---	---	11.96	11.72	11.51	11.76	11.33	11.33
25	---	---	11.47	11.56	---	---	11.95	11.64	11.42	11.70	11.26	11.50
DOM	---	---	11.46	11.56	---	11.91	11.91	11.63	11.32	11.66	11.32	11.50

WTR YR 1992 MEAN 11.53 MAX 11.97 MIN 10.71

STREAMS TRIBUTARY TO LAKE MICHIGAN

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04099200 LONG LAKE AT MOONLIGHT, IN

LOCATION.--Lat 41°35'01", long 85°01'43", in NE¹/₄NE¹/₄NE¹/₄ 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, 8.78 ft Sept. 30, Oct. 1, 2, 1991.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.94	9.12	9.48	9.45	9.26	9.30	9.66	9.39	8.95	8.82	9.87	8.96
10	8.87	8.99	9.47	9.28	9.13	9.80	9.37	9.22	8.99	8.85	9.33	9.54
15	8.87	9.00	9.74	9.28	9.27	9.71	9.28	9.10	8.86	10.04	9.10	9.16
20	8.89	9.75	9.35	9.09	10.03	9.72	9.84	9.09	9.20	10.42	9.05	9.01
25	9.01	9.64	9.19	9.38	9.82	10.14	10.50	8.99	8.97	11.70	8.95	9.19
COM	9.39	9.64	9.15	9.18	9.58	10.02	9.86	9.01	8.87	10.58	9.04	9.11

WTR YR 1992 MEAN 9.39 MAX 11.77 MIN 8.78

WABASH RIVER BASIN

03331460 LOST LAKE NEAR CULVER, IN

LOCATION.--Lat 41°12'02", long 86°25'17", in NE¹/₄NW¹/₄NW¹/₄ 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.--1954-61, 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 Mazinkuckee 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.74	11.15	11.43	11.46	11.55	11.54	11.59	11.59	11.69	11.55	11.67	11.60
10	10.74	11.17	11.44	11.48	11.54	11.59	11.59	11.58	11.89	11.63	11.64	11.85
15	10.76	11.17	11.45	11.61	11.57	11.56	11.60	11.54	11.81	11.90	11.59	11.78
20	10.72	11.40	11.46	11.58	11.60	11.57	11.66	11.50	11.75	11.87	11.55	11.72
25	10.80	11.39	11.45	11.59	11.59	11.58	11.65	11.42	11.56	11.81	11.55	11.66
COM	11.16	11.44	11.45	11.56	11.57	11.62	11.63	11.54	11.50	11.76	11.60	11.69

WTR YR 1992 MEAN 11.51 MAX 11.95 MIN 10.43

WABASH RIVER BASIN

03328400 LUKENS LAKE NEAR DISKO, IN

LOCATION.--Lat 40°58'09", long 85°56'06", in SW¹/₄NW¹/₄NE¹/₄ 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	3.07	3.70	3.82	3.65	3.62	3.64	3.75	3.65	3.45	3.41	3.51	3.41
10	3.02	3.65	3.77	3.64	3.57	3.75	3.75	3.63	3.43	3.48	3.47	3.58
15	3.02	3.64	3.82	3.71	3.63	3.75	3.70	3.60	3.43	3.80	3.41	3.49
20	3.00	3.86	3.74	3.63	3.73	3.83	3.83	3.55	3.47	3.81	3.36	3.46
25	3.26	3.81	3.69	3.67	3.72	3.81	3.82	3.48	3.45	3.69	3.32	3.64
EOM	3.72	3.86	3.65	3.61	3.67	3.81	3.75	3.47	3.42	3.61	3.43	3.61

WTR YR 1992 MEAN 3.59 MAX 3.87 MIN 2.87

STREAMS TRIBUTARY TO LAKE MICHIGAN

04100280 MUNCIE LAKE NEAR BURR OAK, IN

LOCATION.--Lat 41°19'37", long 85°27'28", in NE¹/₄SW¹/₄SW¹/₄ 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	2.53	2.96	3.35	2.86	2.95	2.78	3.19	2.93	3.12	2.33	2.99	2.59
10	2.39	2.74	3.04	2.93	2.80	3.03	2.90	2.85	3.15	2.28	2.79	3.06
15	2.36	2.69	3.49	2.99	2.99	2.94	2.99	2.85	2.82	2.54	2.63	2.90
20	2.39	3.68	3.00	2.77	3.45	3.36	3.95	3.14	2.66	3.44	2.55	2.78
25	2.83	3.51	2.88	3.07	3.15	3.82	3.55	3.11	2.51	3.18	2.48	4.13
EOM	3.32	3.34	2.78	2.89	2.96	3.42	3.19	3.14	2.43	3.27	2.57	3.39

WTR YR 1992 MEAN 2.98 MAX 4.29 MIN 2.22

STREAMS TRIBUTARY TO LAKE MICHIGAN

04099700 NORTH TWIN LAKE NEAR HOWE, IN

LOCATION.--Lat 41°43'45", long 85°27'49", in SE¹/₄, SW¹/₄, SW¹/₄ 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	3.60	3.72	3.68	3.59	3.57	3.58	3.60	3.54	3.54	3.52	3.69	3.62
10	3.54	3.60	3.66	3.60	3.58	3.62	3.57	3.50	3.60	3.54	3.66	3.84
15	3.52	3.60	3.68	3.66	3.62	3.63	3.56	3.50	3.56	3.72	3.58	3.76
20	3.50	3.64	3.64	3.62	3.64	3.60	3.60	3.53	3.58	3.69	3.59	3.70
25	3.60	3.72	3.60	3.60	3.62	3.62	3.58	3.47	3.54	3.86	3.52	3.71
EOM	3.77	3.70	3.62	3.58	3.60	3.66	3.56	3.58	3.53	3.78	3.64	3.69

WTR YR 1992 MEAN 3.61 MAX 3.88 MIN 3.41

WABASH RIVER BASIN

03331400 NYONA LAKE NEAR GREENOAK, IN

LOCATION.--Lat 40°57'40", long 86°11'20", in SE¹/₄, SE¹/₄, NE¹/₄ 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 fishing 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.11	4.08	4.21	4.14	4.12	4.08	4.18	4.11	4.03	3.97	4.00	3.94
10	3.99	4.05	4.17	4.13	4.08	4.43	4.16	4.10	4.03	4.11	3.98	4.16
15	3.96	4.08	4.22	4.14	4.19	4.25	4.19	4.08	4.02	4.43	3.95	4.00
20	3.95	4.60	4.13	4.08	4.27	4.38	4.37	4.05	4.09	4.27	3.95	3.96
25	4.26	4.21	4.13	4.19	4.17	4.24	4.26	4.03	4.02	4.14	3.95	4.01
EOM	4.20	4.32	4.10	4.12	4.11	4.26	4.19	4.10	3.97	4.07	3.96	4.02

WTR YR 1992 MEAN 4.12 MAX 4.60 MIN 3.90

WABASH RIVER BASIN

03371700 OGLE LAKE NEAR NASHVILLE, IN

LOCATION.--Lat 39°09'35", long 86°14'54", in NE¹/₄SE¹/₄NE¹/₄ 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	1.64	1.05	1.25	1.62	2.26	2.42	3.65	4.55	4.56	4.31	4.53	4.05
10	1.50	.97	1.30	1.66	2.25	2.49	3.79	4.55	4.56	4.34	4.42	4.01
15	1.32	.93	1.33	2.00	2.31	2.49	4.07	4.53	4.57	---	4.30	3.85
20	1.20	1.12	1.33	2.06	2.33	2.98	4.61	4.53	4.51	4.63	4.14	3.76
25	1.09	1.14	1.46	2.16	2.39	3.14	4.58	4.54	4.43	4.76	4.01	3.64
DOM	1.13	1.16	1.57	2.25	2.40	3.43	4.56	4.54	4.30	4.63	4.14	3.58

WTR YR 1992 MEAN 3.04 MAX 4.76 MIN .93

STREAMS TRIBUTARY TO LAKE MICHIGAN

04100100 OLIVER LAKE NEAR VALENTINE, IN

LOCATION.--Lat 41°34'37", long 85°24'44", in SE¹/₄SW¹/₄NE¹/₄ sec.18, T.36 N., R.10 E., Lagrange County, Hydrologic Unit 04050001 (OLIVER LAKE, IN quadrangle). The gage is at the public fishing 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 auxiliary 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 Hackenburt 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.87	9.92	9.77	9.67	9.68	9.67	9.77	9.72	9.73	9.74	10.17	9.81
10	9.81	9.86	9.74	9.68	9.66	9.84	9.72	9.69	9.76	9.79	9.99	10.10
15	9.83	9.88	9.74	9.71	9.71	9.77	9.71	9.72	9.72	10.19	9.83	9.97
20	9.82	9.98	9.68	9.68	9.75	9.76	9.80	9.80	9.82	10.21	9.78	9.87
25	10.01	9.86	9.67	9.70	9.75	9.80	9.81	9.73	9.82	10.31	9.77	10.04
DOM	10.12	9.83	9.65	9.68	9.72	9.82	9.78	9.77	9.79	10.33	9.81	9.98

WTR YR 1992 MEAN 9.82 MAX 10.35 MIN 9.64

WABASH RIVER BASIN

03331180 PALESTINE LAKE AT PALESTINE, IN

LOCATION.--Lat 41°10'48", long 85°56'54", in NE¹/₄,NE¹/₄,SW¹/₄, 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	1.84	1.82	1.93	1.90	1.99	1.90	1.99	1.93	1.84	1.81	1.80	1.77
10	1.80	1.80	1.89	1.89	1.88	2.05	1.95	1.89	1.85	1.87	1.79	2.05
15	1.84	1.82	1.95	1.91	1.96	1.98	2.04	1.87	1.80	1.99	1.78	1.84
20	1.80	2.21	1.89	1.91	2.00	2.08	2.10	1.87	1.89	1.98	1.78	1.83
25	1.95	1.91	1.88	1.97	1.94	2.04	2.07	1.84	1.89	1.86	1.77	1.86
EOM	1.87	1.95	1.87	1.95	1.91	2.07	1.99	1.89	1.81	1.87	1.77	1.85

WTR YR 1992 MEAN 1.90 MAX 2.21 MIN 1.69

WABASH RIVER BASIN

03331040 PIKE LAKE AT WARSAW, IN

LOCATION.--Lat 41°15'44", long 85°51'00", in NE¹/₄,NW¹/₄,NE¹/₄, 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	4.97	5.02	4.94	5.10	5.93	5.80	5.79	5.80	5.71
10	---	---	---	4.97	4.96	5.14	5.50	5.93	5.82	5.81	5.73	6.26
15	---	---	---	5.00	5.04	5.08	6.10	5.87	5.74	5.99	5.73	5.87
20	---	---	---	4.98	5.14	5.23	6.25	5.84	5.80	6.08	5.73	5.79
25	---	---	---	5.09	5.02	5.18	6.16	5.77	5.75	5.90	5.70	5.88
EOM	---	---	4.94	4.99	4.97	5.20	6.05	5.85	5.72	5.88	5.73	5.86

WTR YR 1992 MEAN 5.56 MAX 6.34 MIN 4.92

ILLINOIS RIVER BASIN

05515220 PINE LAKE AT LAPORTE, IN

LOCATION.--Lat 41°37'01", long 86°44'58", in NE¹/₄SE¹/₄NW¹/₄ 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, 20.81 ft May 7, 22, 1983; minimum stage, 9.00 ft Nov. 14, 1964.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.99	18.23	18.64	18.71	18.81	19.01	19.33	19.31	19.03	18.70	18.77	18.61
10	17.95	18.24	18.65	18.72	18.82	19.21	19.32	19.25	18.99	18.65	18.74	18.86
15	17.95	18.27	18.73	18.79	18.89	19.19	19.35	19.20	18.93	18.80	18.67	18.80
20	17.91	18.50	18.71	18.78	18.98	19.20	19.40	19.14	18.87	18.80	18.62	18.79
25	18.08	18.49	18.74	18.82	19.01	19.25	19.41	19.06	18.80	18.81	18.55	18.73
COM	18.31	18.60	18.71	18.82	19.01	19.33	19.37	18.99	18.73	18.85	18.51	18.81

WTR YR 1992 MEAN 18.79 MAX 19.41 MIN 17.72

ILLINOIS RIVER BASIN

05516600 PRETTY LAKE NEAR PLYMOUTH

LOCATION.--Lat 41°19'39", long 86°22'15", in NW¹/₄SE¹/₄NE¹/₄ 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.54	---	---	---	---	---	---	---	8.91	8.60	8.66	8.34
10	8.46	---	---	---	---	---	---	9.12	8.98	8.59	8.60	8.58
15	8.44	---	---	---	---	---	---	9.08	8.89	8.76	8.55	8.50
20	8.38	---	---	---	---	---	---	9.02	8.82	8.79	8.45	8.45
25	8.46	---	---	---	---	---	---	8.93	8.73	8.74	8.40	8.49
COM	8.73	---	---	---	---	---	---	8.94	8.65	8.73	8.40	8.51

WTR YR 1992 MEAN 8.65 MAX 9.12 MIN 8.32

ILLINOIS RIVER BASIN

275

05515800 RIDDLES LAKE NEAR LAKEVILLE, IN

LOCATION.--Lat 41°30'19", long 86°15'31", in NW¹/₄NE¹/₄ 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.41	7.35	7.33	7.29	7.30	7.28	7.31	7.25	7.31	7.13	7.23	7.21
10	7.26	7.28	7.31	7.32	7.27	7.41	7.31	7.25	7.26	7.15	7.22	7.67
15	7.25	7.30	7.35	7.30	7.42	7.32	7.33	7.23	7.21	7.32	7.19	7.28
20	7.24	7.49	7.33	7.26	7.39	7.33	7.39	7.23	7.20	7.25	7.18	7.29
25	7.51	7.31	7.30	7.34	7.37	7.39	7.31	7.23	7.18	7.26	7.16	7.38
COM	7.47	7.39	7.28	7.28	7.29	7.45	7.29	7.29	7.14	7.35	7.16	7.34

WTR YR 1992 MEAN 7.29 MAX 7.67 MIN 7.11

WABASH RIVER BASIN

03330300 RIDINGER LAKE NEAR PIERCETON, IN

LOCATION.--Lat 41°15'07", long 85°39'34", in SW¹/₄SW¹/₄SE¹/₄ 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	2.61	2.62	2.95	2.80	2.88	2.76	2.90	2.78	2.72	2.58	2.59	2.56
10	2.52	2.62	2.80	2.80	2.77	3.19	2.85	2.74	2.74	2.60	2.57	3.50
15	2.54	2.66	2.96	2.88	3.12	2.91	2.95	2.71	2.64	2.87	2.56	2.69
20	2.56	3.41	2.80	2.88	3.03	3.18	3.20	2.70	2.67	3.18	2.55	2.64
25	2.84	2.83	2.78	3.04	2.91	3.08	3.14	2.66	2.63	2.78	2.54	2.99
COM	2.70	2.98	2.77	2.82	2.83	3.02	2.92	2.74	2.60	2.70	2.57	2.79

WTR YR 1992 MEAN 2.81 MAX 3.87 MIN 2.52

WABASH RIVER BASIN

03330460 SAWMILL LAKE NEAR NORTH WEBSTER, IN

LOCATION.--Lat 41°17'22", long 85°42'52", in NE¹/₄SW¹/₄NE¹/₄ 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 south-eastern 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.33	7.40	7.66	7.48	7.49	7.37	7.66	7.54	7.41	7.28	7.35	7.28
10	7.28	7.38	7.55	7.50	7.48	7.60	7.56	7.46	7.50	7.24	7.31	7.56
15	7.30	7.40	7.65	7.51	7.56	7.66	7.62	7.35	7.37	7.48	7.27	7.51
20	7.30	7.66	7.55	7.49	7.73	7.74	7.88	7.35	7.37	7.87	7.24	7.39
25	7.44	7.67	7.50	7.54	7.57	7.83	7.82	7.29	7.34	7.58	7.21	7.57
EOM	7.58	7.61	7.45	7.49	7.46	7.76	7.70	7.37	7.29	7.45	7.28	7.53

WTR YR 1992 MEAN 7.49 MAX 7.88 MIN 7.16

WABASH RIVER BASIN

03331120 SHERBURN LAKE NEAR PIERCETON, IN

LOCATION.--Lat 41°09'40", long 85°44'43", in SE¹/₄SE¹/₄SE¹/₄ 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.

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, 9.20 ft Sept. 14-18, 1983.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.74	10.04	10.76	10.28	10.52	10.25	10.51	10.29	9.97	10.08	---	---
10	9.73	9.95	10.42	10.31	10.28	10.98	10.34	10.16	10.21	10.23	---	---
15	9.75	9.99	10.81	10.50	10.72	10.73	10.53	10.10	9.98	10.66	---	---
20	9.77	11.21	10.32	10.24	10.99	11.04	11.05	10.02	10.02	---	---	---
25	9.97	10.73	10.27	10.75	10.56	10.92	11.00	9.96	9.99	---	---	---
EOM	10.35	10.75	10.17	10.38	10.39	10.76	10.59	10.04	9.96	---	---	---

WTR YR 1992 MEAN 10.35 MAX 11.35 MIN 9.59

STREAMS TRIBUTARY TO LAKE MICHIGAN

277

04099740 SHIPSHEWANA LAKE NEAR SHIPSHEWANA, IN

LOCATION.--Lat 41°40'53", long 85°36'03", in SE¹/₄NE¹/₄NE¹/₄ 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 fishing 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	2.37	2.49	2.52	2.45	2.42	2.45	2.49	2.37	2.37	2.18	2.49	2.36
10	2.30	2.44	2.54	2.47	2.41	2.55	2.45	2.35	2.38	2.20	2.43	2.62
15	2.29	2.45	2.52	2.48	2.49	2.48	2.44	2.33	2.29	2.47	2.35	2.57
20	2.28	2.63	2.47	2.42	2.52	2.49	2.46	2.39	2.26	2.44	2.34	2.49
25	2.56	2.59	2.45	2.45	2.52	2.52	2.46	2.34	2.26	2.58	2.32	2.48
DOM	2.61	2.59	2.43	2.44	2.46	2.55	2.44	2.41	2.20	2.60	2.33	2.45

WTR YR 1992 MEAN 2.43 MAX 2.67 MIN 2.16

WABASH RIVER BASIN

03330380 SHOE LAKE NEAR OSWEGO, IN

LOCATION.--Lat 41°18'32", long 85°45'10", in SE¹/₄SW¹/₄SE¹/₄ 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.03	11.11	11.27	11.31	11.34	11.35	11.50	11.58	11.46	11.14	11.23	10.96
10	10.98	11.08	11.27	11.32	11.32	11.46	11.49	11.55	11.44	11.09	11.18	11.14
15	10.98	11.08	11.31	11.38	11.36	11.42	11.54	11.53	11.35	11.30	11.10	11.08
20	10.96	11.24	11.30	11.35	11.38	11.44	11.63	11.53	11.32	11.40	11.04	11.06
25	11.03	11.22	11.30	11.38	11.39	11.47	11.64	11.46	11.27	11.33	10.97	11.04
DOM	11.18	11.26	11.30	11.35	11.37	11.52	11.64	11.48	11.19	11.30	10.97	11.02

WTR YR 1992 MEAN 11.29 MAX 11.65 MIN 10.89

WABASH RIVER BASIN

03327650 SHRINER LAKE AT TRI-LAKES, IN

LOCATION.--Lat 41°14'37", long 85°26'24", in SE¹/₄SW¹/₄NW¹/₄, 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.38	6.58	7.09	7.34	7.47	7.18	7.18	7.12	6.85	6.71	7.14	---
10	6.32	6.55	7.10	7.37	7.46	7.23	7.14	7.05	---	6.71	---	---
15	6.33	6.57	7.28	7.46	7.45	7.17	7.18	6.99	---	6.86	---	---
20	6.32	6.85	7.28	7.46	7.41	7.24	7.41	7.01	6.86	7.26	---	---
25	6.44	6.88	7.30	7.46	7.34	7.29	7.34	6.93	6.81	7.21	---	---
EOM	6.62	7.00	7.31	7.46	7.26	7.24	7.21	6.91	6.74	7.20	---	---

WTR YR 1992 MEAN 7.05 MAX 7.47 MIN 6.26

WABASH RIVER BASIN

03328350 SILVER LAKE AT SILVER LAKE, IN

LOCATION.--Lat 41°04'49", long 85°54'29", in SE¹/₄SE¹/₄NE¹/₄, 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 west side of the lake, approximately 30 feet above 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	1.29	1.50	1.60	1.51	1.61	1.51	1.59	1.52	1.49	---	---	---
10	1.30	1.46	1.53	1.51	1.56	1.73	1.56	1.51	1.51	---	---	---
15	1.33	1.48	1.58	1.56	1.61	1.61	1.56	1.50	1.45	---	---	---
20	1.34	1.74	1.54	1.56	1.63	1.68	1.66	1.48	1.49	---	---	---
25	1.53	1.57	1.53	1.57	1.58	1.63	1.63	1.45	1.57	---	---	---
EOM	1.55	1.61	1.51	1.57	1.54	1.66	1.57	1.51	1.55	---	---	---

WTR YR 1992 MEAN 1.54 MAX 1.74 MIN 1.13

STREAMS TRIBUTARY TO LAKE MICHIGAN

04099880 SIMONTON LAKE NEAR ELKHART, IN

LOCATION.--Lat 41°45'05", long 85°57'28", in NE¹/₄NE¹/₄NW¹/₄ 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 fishing 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	2.92	---	---	---	2.79	2.77	2.57	2.76	2.58
10	---	---	---	2.93	---	---	2.86	2.78	2.76	2.53	2.73	2.78
15	---	---	---	2.94	---	---	2.88	2.76	2.68	2.72	2.67	2.79
20	---	---	---	2.94	---	---	2.89	2.76	2.63	2.68	2.66	2.79
25	---	---	---	2.97	---	---	2.87	2.73	2.60	2.74	2.60	2.79
EOM	---	---	2.91	---	---	---	2.85	2.79	2.54	2.82	2.58	2.81

WTR YR 1992 MEAN 2.76 MAX 2.97 MIN 2.53

STREAMS TRIBUTARY TO LAKE MICHIGAN

04100300 SKINNER LAKE NEAR ALBION, IN

LOCATION.--Lat 41°24'12", long 85°22'37", in SE¹/₄SE¹/₄NW¹/₄ 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.81	7.82	7.94	7.91	7.92	7.86	7.94	7.87	7.80	7.73	7.78	7.80
10	7.74	7.79	7.90	7.88	7.85	7.96	7.89	7.85	7.79	7.74	7.76	8.17
15	7.74	7.81	7.96	7.92	7.99	7.90	7.95	7.82	7.74	8.10	7.74	7.81
20	7.76	8.26	7.87	7.92	8.00	8.02	8.06	7.87	7.78	8.11	7.74	7.89
25	7.92	7.90	7.85	8.00	7.94	8.07	7.98	7.80	7.76	7.90	7.74	8.05
EOM	7.89	8.05	7.83	7.87	7.89	8.03	7.97	7.83	7.74	7.84	7.77	7.89

WTR YR 1992 MEAN 7.88 MAX 9.00 MIN 7.69

WABASH RIVER BASIN

03330140 SMALLEY LAKE NEAR WASHINGTON CENTER, IN

LOCATION.--Lat 41°18'52", long 85°35'04", in SW¹/₄NW¹/₄SE¹/₄ 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	2.14	2.10	2.34	2.08	2.17	1.99	2.21	1.94	1.67	1.38	---	---
10	1.87	1.96	2.12	2.13	2.10	2.23	2.05	1.80	1.82	1.35	---	---
15	1.94	1.92	2.37	2.26	2.16	2.22	2.10	1.77	1.78	1.53	---	---
20	2.06	2.50	2.08	2.07	2.49	2.43	2.76	1.81	1.59	2.13	---	---
25	2.30	2.48	1.99	2.30	2.25	2.58	2.54	1.69	1.48	1.81	---	---
EOM	2.31	2.29	1.92	2.17	2.12	2.35	2.19	1.67	1.41	---	---	---

WTR YR 1992 MEAN 2.05 MAX 2.80 MIN 1.33

STREAMS TRIBUTARY TO LAKE MICHIGAN

04099780 STONE LAKE NEAR SCOTT, IN

LOCATION.--Lat 41°44'32", long 85°39'03", in SE¹/₄SE¹/₄SW¹/₄ 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.32	8.67	8.83	8.77	8.72	8.66	8.65	8.53	8.42	8.10	8.38	8.24
10	8.26	8.65	8.83	8.78	8.69	8.73	8.63	8.51	8.39	8.07	8.35	8.46
15	8.29	8.66	8.84	8.79	8.75	8.69	8.62	8.51	8.24	8.32	8.29	8.41
20	8.24	8.78	8.80	8.76	8.75	8.67	8.64	8.47	8.20	8.30	8.26	8.38
25	8.57	8.75	8.79	8.76	8.74	8.71	8.61	8.43	8.19	8.38	8.24	8.40
EOM	8.65	8.80	8.77	8.74	8.71	8.70	8.58	8.46	8.13	8.45	8.23	8.39

WTR YR 1992 MEAN 8.53 MAX 8.86 MIN 8.05

STREAMS TRIBUTARY TO LAKE MICHIGAN

281

04100180 SYLVAN LAKE AT ROME CITY, IN

LOCATION.--Lat 41°29'53", long 85°22'38", in SE¹/₄/SE¹/₄/SW¹/₄, sec.9, T.35 N., R.10 E., Noble County, Hydrologic Unit 04050001 (ALBION, IN quadrangle). The gage is at the south, upstream side of the bridge over the 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.

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, 10.76 ft Feb. 25 1985; minimum stage, 2.72 ft Nov. 8, 1979.

LAKE LEVEL, IN FEET ABOVE GAGE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.34	6.35	6.47	6.37	6.35	6.37	6.46	6.40	6.31	6.21	6.37	6.27
10	6.27	6.29	6.43	6.41	6.35	6.45	6.39	6.34	6.31	6.26	6.29	6.51
15	6.26	6.31	6.42	6.46	6.43	6.42	6.43	6.32	6.23	6.60	6.24	6.36
20	6.27	6.50	6.39	6.40	6.53	6.46	6.58	6.41	6.33	6.72	6.23	6.37
25	6.44	6.46	6.36	6.38	6.48	6.53	6.55	6.34	6.29	6.68	6.21	6.64
DOM	6.43	6.44	6.33	6.39	6.41	6.57	6.52	6.36	6.25	6.54	6.29	6.46

WTR YR 1992 MEAN 6.40 MAX 6.79 MIN 6.18

STREAMS TRIBUTARY TO LAKE MICHIGAN

04100460 SYRACUSE LAKE AT SYRACUSE, IN

LOCATION.--Lat 41°25'26", long 85°44'59", in SW¹/₄/SW¹/₄, 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.65	8.84	8.71	8.61	8.72	8.82	8.63	8.48	8.73	8.66	8.89	8.82
10	8.62	8.72	8.74	8.62	8.72	8.89	8.51	8.52	8.78	8.67	8.86	8.86
15	8.65	8.67	8.71	8.66	8.76	8.90	8.69	8.56	8.76	9.01	8.81	8.76
20	8.67	8.81	8.67	8.67	8.81	8.82	8.71	8.63	8.75	8.92	8.79	8.71
25	8.83	8.78	8.60	8.67	8.84	8.81	8.62	8.62	8.73	8.81	8.77	8.78
DOM	9.04	8.78	8.60	8.72	8.84	8.77	8.53	8.70	8.70	8.92	8.77	8.72

WTR YR 1992 MEAN 8.73 MAX 9.04 MIN 8.38

WABASH RIVER BASIN

03330480 TIPPECANOE LAKE AT OSWEGO, IN

LOCATION.--Lat 41°19'15", long 85°47'20", in NW¹/₄NE¹/₄NE¹/₄ 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.43	6.05	6.11	5.59	5.92	5.87	6.38	6.59	6.59	6.54	---	---
10	6.56	5.74	6.10	5.59	5.80	5.79	6.57	6.58	6.68	6.55	---	---
15	6.40	5.64	6.12	5.76	5.75	6.04	6.60	6.55	6.55	6.61	---	---
20	6.26	6.03	6.05	5.80	5.93	6.22	6.57	6.54	6.54	6.59	---	---
25	6.27	6.16	5.96	5.87	6.21	6.19	6.69	6.62	6.59	6.57	---	---
EOM	6.51	6.15	5.65	5.96	6.16	6.48	6.53	6.62	6.57	6.59	---	---

WTR YR 1992 MEAN 6.25 MAX 6.72 MIN 5.58

STREAMS TRIBUTARY TO LAKE MICHIGAN

04100320 UPPER LONG LAKE NEAR WOLFLAKE, IN

LOCATION.--Lat 41°21'33", long 85°29'09", in NE¹/₄NE¹/₄SE¹/₄ 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.47	11.44	11.50	11.43	11.42	11.42	11.47	11.45	11.59	11.39	11.39	11.42
10	11.43	11.40	11.47	11.44	11.41	11.52	11.44	11.44	11.60	11.39	11.37	11.59
15	11.41	11.42	11.49	11.47	11.49	11.46	11.51	11.44	11.54	11.54	11.32	11.49
20	11.42	11.62	11.44	11.41	11.51	11.50	11.62	11.50	11.54	11.62	11.33	11.48
25	11.59	11.51	11.42	11.45	11.48	11.53	11.54	11.45	11.48	11.52	11.32	11.58
EOM	11.56	11.51	11.41	11.43	11.44	11.52	11.50	11.56	11.43	11.49	11.34	11.48

WTR YR 1992 MEAN 11.47 MAX 11.71 MIN 11.31

LAUGHERY CREEK BASIN

283

03276800 VERSAILLES LAKE NEAR VERSAILLES, IN

LOCATION.--Lat 39°04'50", long 85°14'02", in NE¹/₄NE¹/₄SW¹/₄ 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	29.09	29.11	29.32	29.46	29.27	29.24	29.56	29.24	29.24	29.28	29.27	29.23
10	29.09	29.12	29.23	29.30	29.23	29.30	29.83	29.29	29.21	29.34	29.27	29.19
15	29.09	29.12	29.34	29.61	29.51	29.30	29.35	29.28	29.19	30.43	29.22	29.16
20	29.07	29.20	29.20	29.33	29.34	29.52	30.10	29.32	29.40	29.39	29.17	29.23
25	29.09	29.16	29.39	29.38	29.29	29.35	29.38	29.25	29.26	29.43	29.15	29.21
ECM	29.16	29.26	29.36	29.36	29.24	29.75	29.31	29.38	29.17	29.84	29.26	29.18

WTR YR 1992 MEAN 29.33 MAX 32.21 MIN 29.03

STREAMS TRIBUTARY TO LAKE MICHIGAN

04100220 WALDRON LAKE NEAR COSPERVILLE, IN

LOCATION.--Lat 41°29'34", long 85°26'55", in SE¹/₄NW¹/₄NE¹/₄ 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 fishing 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.71	6.39	6.42	5.90	5.79	5.90	6.40	6.07	5.95	5.83	6.78	5.94
10	5.65	6.10	6.35	5.91	5.73	6.11	6.15	5.79	5.97	5.86	6.39	6.38
15	5.59	5.96	6.33	6.03	5.78	6.16	6.03	5.62	5.89	6.65	6.02	6.19
20	5.53	6.36	6.10	5.87	6.13	6.21	6.38	5.68	6.03	7.09	5.92	6.06
25	5.76	6.49	5.99	5.84	6.16	6.37	6.40	5.58	5.94	7.23	5.88	6.76
ECM	6.61	6.44	5.84	5.79	6.07	6.47	6.33	5.96	5.88	7.08	5.96	6.55

WTR YR 1992 MEAN 6.11 MAX 7.24 MIN 5.42

ILLINOIS RIVER BASIN

05517600 WAUHOE LAKE NEAR VALPARAISO, IN

LOCATION.--Lat 41°32'02", long 87°02'42", in NW¹/₄NW¹/₄NW¹/₄ 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.08	9.12	9.36	9.66	9.66	9.80	10.00	9.92	9.50	9.00	9.06	8.90
10	9.01	9.12	9.40	9.66	9.66	9.96	10.00	9.80	9.44	8.98	9.04	9.25
15	9.00	9.14	9.60	9.66	9.66	9.96	10.00	9.72	9.34	9.06	9.00	9.08
20	8.96	9.20	9.60	9.66	9.74	9.96	10.04	9.72	9.32	9.10	8.94	9.06
25	9.00	9.20	9.62	9.66	9.88	9.98	10.04	9.60	9.10	9.10	8.88	9.14
EOM	9.28	9.28	9.64	9.66	9.90	10.00	10.00	9.48	9.06	9.10	8.98	9.10

WTR YR 1992 MEAN 9.44 MAX 10.04 MIN 8.88

WABASH RIVER BASIN

03330240 WEBSTER LAKE AT NORTH WEBSTER, IN

LOCATION.--Lat 41°19'09", long 85°41'20", in NE¹/₄SW¹/₄NW¹/₄ 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 auxiliary 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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.03	13.04	13.07	13.00	13.17	12.95	12.84	13.03	13.00	12.91	12.85	12.97
10	12.96	13.15	12.94	13.17	13.14	13.15	13.04	12.87	12.97	12.93	12.85	13.11
15	12.91	13.18	12.88	13.18	13.14	12.94	12.78	12.90	12.87	13.06	12.87	12.92
20	12.80	12.99	12.76	13.18	13.32	12.76	13.16	12.98	12.90	13.21	12.88	12.97
25	12.90	13.12	12.60	13.13	13.08	13.24	13.12	12.98	12.96	13.14	12.86	13.02
EOM	12.96	13.10	12.80	13.20	12.87	13.02	13.10	13.04	12.93	13.00	12.91	13.04

WTR YR 1992 MEAN 12.99 MAX 13.32 MIN 12.60

ILLINOIS RIVER BASIN

285

05514770 WHARTON LAKE NEAR SOUTH BEND, IN

LOCATION.--Lat 41°36'11", long 86°18'36", in NW¹/₄SW¹/₄NW¹/₄ 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 mi².

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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.57	6.49	6.62	6.63	6.66	6.63	6.71	6.60	6.52	5.97	6.10	6.11
10	5.55	6.46	6.66	6.65	6.64	6.73	6.65	6.54	6.49	5.92	6.02	6.83
15	5.55	6.54	6.69	6.65	6.83	6.68	6.77	6.48	6.27	6.15	5.96	6.52
20	5.55	6.71	6.60	6.62	6.83	6.70	6.84	6.36	6.21	6.27	5.96	6.53
25	5.99	6.59	6.64	6.68	6.74	6.76	6.74	6.29	6.14	6.20	5.85	6.71
DOM	6.62	6.67	6.61	6.65	6.68	6.83	6.68	6.41	6.02	6.24	5.88	6.72

WTR YR 1992 MEAN 6.42 MAX 7.01 MIN 4.93

WABASH RIVER BASIN

03331140 WINONA LAKE AT WARSAW, IN

LOCATION.--Lat 41°13'34", long 85°50'46", in NW¹/₄NE¹/₄SE¹/₄ 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 mi².

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 1991 TO SEPTEMBER 1992
24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.97	10.16	9.96	9.86	9.91	9.87	9.96	10.29	11.02	10.84	10.90	10.91
10	10.89	9.86	9.91	9.87	9.88	10.04	9.90	10.63	11.02	10.89	10.86	11.12
15	10.90	9.82	9.97	9.91	9.93	10.00	10.00	10.88	10.94	11.00	10.84	10.87
20	10.91	10.13	9.90	9.90	10.04	10.06	10.11	10.98	10.94	11.07	10.86	10.89
25	11.08	9.97	9.87	9.95	9.96	10.05	10.08	10.94	10.92	10.99	10.83	10.92
DOM	10.59	9.97	9.84	9.90	9.90	10.05	9.97	11.03	10.87	10.99	10.91	11.04

WTR YR 1992 MEAN 10.43 MAX 11.12 MIN 9.80

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 1954-
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	*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 Shpeshewana	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	*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 near 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	Hackenburt 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	*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	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	Papakeechee 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	*8.05	551	867.70	9,000	+	1945-
04100480	Wabee Lake near Milford	Kosciusko	*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

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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 (acres-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
05515230	Stone Lake at LaPorte	LaPorte	^a 10.7	140	796.20	---	-	1980- 1946-75
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.

^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

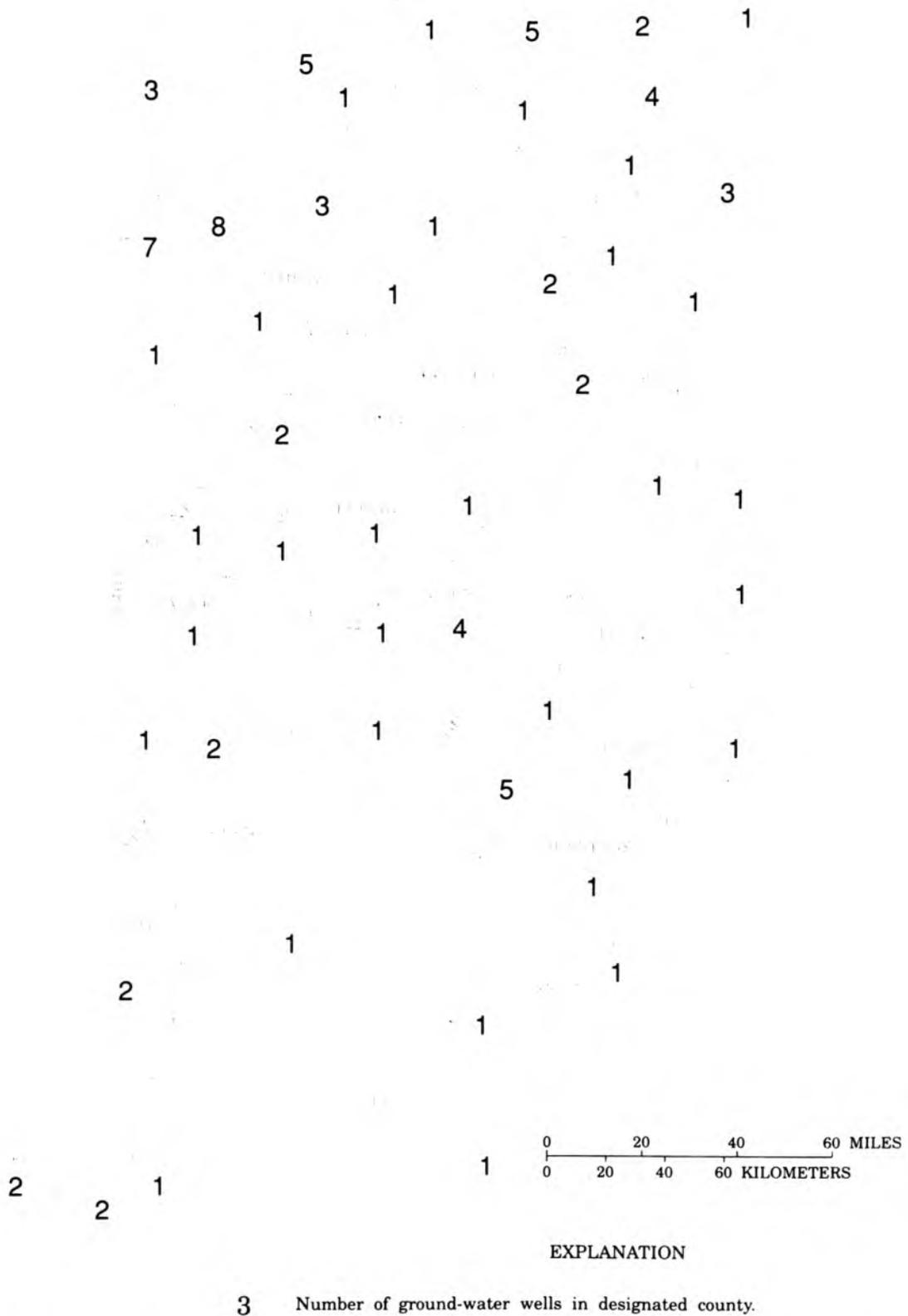


Figure 8.-- Number of ground-water wells by county having 1992 water-level records.

GROUND-WATER DATA

ALLEN COUNTY

410426084495201. Local number, AL 5.

LOCATION.--Lat 41°04'26", long 84°49'52", in NW¹/₄NE¹/₄SE¹/₄, 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, 0.10 ft above land-surface datum.

REMARKS.--Nearby quarry operations were shut down in 1980, and since that time water levels have been rising.

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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.23	15.47	15.42	14.90	15.04	14.81	14.30	---	13.49	13.52	13.40	13.15
10	14.68	15.38	14.97	14.96	15.27	14.29	14.10	---	13.78	13.74	13.16	12.89
15	14.86	15.02	15.20	15.08	14.62	15.17	14.22	---	13.83	13.41	13.35	13.16
20	15.08	14.68	15.24	15.45	15.13	15.06	---	---	13.64	13.57	13.31	12.80
25	14.72	15.61	15.02	15.39	15.05	14.34	---	13.89	13.47	13.45	13.37	13.05
COM	14.96	14.56	15.65	14.87	15.03	14.13	---	13.84	13.54	13.21	13.14	13.08

WTR YR 1992 HIGH 12.67 SEP 21

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.06	16.21	16.24	15.49	15.53	15.33	14.72	---	13.97	13.61	13.47	13.53
10	15.13	16.15	15.50	15.48	15.97	15.35	14.49	---	13.86	14.12	13.97	13.29
15	15.38	15.46	15.78	15.75	15.42	15.90	14.69	---	14.39	14.03	13.41	13.81
20	15.74	15.02	16.12	15.90	15.72	15.58	---	---	14.11	14.08	13.42	13.22
25	15.05	16.04	15.76	15.98	15.51	14.87	---	14.23	13.62	13.95	13.92	13.33
COM	15.75	15.39	16.09	15.47	15.70	14.67	---	14.02	14.41	13.45	13.71	13.62

WTR YR 1992 LOW 16.36 NOV 7

ALLEN COUNTY

410932084561101. Local number, AL 6.

LOCATION.--Lat 41°09'32", long 84°56'11", in SW¹/₄SW¹/₄NE¹/₄, 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, 14.77 ft below land-surface datum, Oct. 29, 1978.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.68	11.38	---	---	---	---	10.09	10.24	10.74	11.14	10.86	11.26
10	13.67	11.59	---	---	---	---	10.37	10.58	10.79	11.40	11.15	10.39
15	13.70	11.78	---	---	---	---	10.57	10.80	11.09	9.96	11.36	10.25
20	13.82	11.31	---	---	---	---	9.30	11.01	10.04	9.80	11.55	10.66
25	13.63	10.51	---	---	---	9.56	9.43	11.09	10.33	10.21	11.80	9.62
COM	11.54	---	---	---	---	9.89	9.83	10.92	10.79	10.50	11.13	10.16

WTR YR 1992 HIGH 9.21 APR 21

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.91	11.59	---	---	---	---	10.32	10.48	10.92	11.31	11.09	11.42
10	13.88	11.74	---	---	---	---	10.53	10.77	11.02	11.58	11.40	11.12
15	13.93	11.98	---	---	---	---	10.77	11.04	11.30	10.83	11.57	10.48
20	14.01	11.78	---	---	---	---	9.52	11.21	10.26	10.08	11.77	10.88
25	13.91	10.70	---	---	---	9.76	9.60	11.28	10.55	10.42	12.04	9.83
COM	11.78	---	---	---	---	10.04	10.08	11.16	11.05	10.73	11.32	10.37

WTR YR 1992 LOW 14.08 OCT 3

GROUND-WATER DATA.

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ALLEN COUNTY

410335085190701. Local number, AL 8.

LOCATION.--Lat 41°03'35", long 85°19'07", in SE¹/₄, SW¹/₄, SW¹/₄, sec. 8, T.30N., R.11E., Allen County, Hydrologic Unit 05120101, on Covington Road about 5 mi west of Interstate Highway 69 on the northeast corner of the United Telephone Company 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.

PERIOD OF RECORD.--July 1988 to current year. Records for WY1988, WY1989, WY1990 published as AL 7.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 55.70 ft below land-surface datum, April 26, 1989; lowest, 68.47 ft below land-surface datum, June 19, 1991.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	61.87	61.63	62.22	61.22	60.89	61.13	60.54	63.74	61.67	62.41	63.34	63.43
10	62.33	61.77	61.64	61.52	61.48	60.47	60.64	61.40	62.92	62.89	65.08	62.57
15	62.34	61.07	61.32	61.24	60.30	60.97	60.87	61.97	65.19	61.80	63.29	63.44
20	62.23	61.17	61.77	61.47	60.68	60.66	60.87	62.14	60.68	62.13	63.86	62.38
25	61.58	61.89	61.29	60.66	60.94	60.77	60.16	61.51	59.77	61.47	65.58	62.76
COM	61.43	60.70	61.54	60.90	60.38	60.53	60.44	61.47	63.95	61.89	65.79	63.15

WTR YR 1992 HIGH 59.73 APR 4

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	64.38	63.00	65.67	63.04	61.80	62.23	62.68	67.70	63.91	66.78	66.10	65.76
10	63.86	63.93	63.12	62.32	62.50	61.36	61.97	64.01	66.19	66.76	67.87	64.69
15	64.06	62.32	64.21	62.23	61.80	62.73	62.24	63.69	67.57	64.22	66.23	65.22
20	64.44	62.81	63.07	62.48	61.88	62.04	62.55	65.78	61.04	64.84	67.21	64.69
25	63.15	63.83	62.49	62.49	61.82	61.96	62.14	65.37	64.04	64.12	68.02	64.64
COM	62.88	63.50	63.15	62.04	62.51	61.73	62.23	64.49	67.45	65.08	68.02	65.01

WTR YR 1992 LOW 68.04 JUN 13

BARTHOLOMEW COUNTY

391627085534401. Local number, BA 4.

LOCATION.--Lat 39°16'27", long 85°53'44", in NE¹/₄, NE¹/₄, NE¹/₄, 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.

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

REVISED RECORDS.--WDR IN-80-1: 1979.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.11 ft below land-surface datum, April 8, 9, 1991; lowest, 21.18 ft below land-surface datum, July 2, 1992.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.14	18.74	19.18	19.51	19.65	19.69	19.77	19.48	19.67	20.28	18.47	18.45
10	18.25	18.82	19.23	19.55	19.64	19.71	19.76	19.48	19.71	19.99	18.32	18.50
15	18.35	18.90	19.29	19.60	19.64	19.74	19.75	19.51	19.74	19.87	18.27	18.58
20	18.44	18.98	19.35	19.62	19.66	19.76	19.74	19.55	19.76	19.56	18.43	18.64
25	18.55	19.05	19.40	19.65	19.66	19.76	19.62	19.59	19.80	19.18	18.38	---
COM	18.66	19.11	19.46	19.66	19.67	19.76	19.51	19.64	20.41	18.74	18.41	---

WTR YR 1992 HIGH 18.07 OCT 1

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.17	18.75	19.19	19.52	19.65	19.69	19.77	19.48	19.68	20.39	18.52	18.45
10	18.27	18.84	19.25	19.56	19.65	19.72	19.76	19.48	19.72	20.02	18.34	18.52
15	18.37	18.92	19.30	19.61	19.65	19.74	19.76	19.52	19.75	19.88	18.67	18.59
20	18.46	18.99	19.36	19.63	19.67	19.76	19.75	19.56	19.76	19.61	18.48	18.65
25	18.57	19.07	19.41	19.66	19.67	19.77	19.64	19.60	20.20	19.25	18.39	---
COM	18.67	19.13	19.48	19.66	19.68	19.77	19.53	19.65	20.90	18.80	18.42	---

WTR YR 1992 LOW 21.18 JUL 2

GROUND-WATER DATA

BARTHOLOMEW COUNTY

390950085553501. Local number, BA 8.

LOCATION.--Lat 39°09'50", long 85°55'35", in NE¹/₄/NW¹/₄/SW¹/₄ 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.68	20.66	21.21	21.57	21.64	21.84	22.13	21.37	21.81	22.15	21.67	21.80
10	19.87	20.77	21.27	21.62	21.65	21.89	22.16	21.33	21.94	22.20	21.54	21.88
15	20.02	20.90	21.32	21.64	21.65	21.98	22.19	21.41	22.03	22.16	21.50	21.97
20	20.20	20.98	21.40	21.63	21.73	22.03	22.18	21.51	22.13	22.12	21.54	22.06
25	20.35	21.09	21.45	21.64	21.76	22.09	21.87	21.62	22.18	21.99	21.62	22.15
EOM	20.52	21.17	21.54	21.61	21.79	22.11	21.54	21.73	22.15	21.80	21.71	22.25

WTR YR 1992 HIGH 19.56 OCT 1

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.73	20.68	21.22	21.58	21.65	21.86	22.14	21.38	21.85	22.17	21.71	21.82
10	19.89	20.79	21.29	21.63	21.66	21.91	22.16	21.35	21.96	22.21	21.56	21.89
15	20.06	20.92	21.33	21.66	21.68	21.99	22.20	21.43	22.06	22.18	21.51	21.99
20	20.22	21.00	21.42	21.65	21.74	22.05	22.20	21.54	22.14	22.13	21.55	22.07
25	20.37	21.11	21.47	21.66	21.77	22.09	21.94	21.63	22.19	22.02	21.64	22.18
EOM	20.54	21.18	21.55	21.64	21.80	22.12	21.58	21.75	22.16	21.82	21.73	22.27

WTR YR 1992 LOW 22.27 SEP 30

BARTHOLOMEW COUNTY

391035085560401. Local number, BA 9.

LOCATION.--Lat 39°10'35", long 85°56'04", in SW¹/₄/NE¹/₄/SW¹/₄ 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, 41.56 ft below land-surface datum, June 17, 1992.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	32.19	32.79	33.33	34.27	---	---	---	---	40.86	---	---	---
10	36.60	32.70	33.79	34.60	---	---	---	---	41.11	---	---	---
15	32.07	32.87	33.92	37.06	---	---	---	---	37.02	---	---	---
20	32.11	32.98	34.09	---	---	---	---	---	39.14	---	---	---
25	32.20	33.27	33.98	---	---	---	---	---	39.16	---	---	36.18
EOM	32.36	33.35	34.29	---	---	---	---	---	---	---	---	36.88

WTR YR 1992 HIGH 31.00 OCT 3

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	36.39	37.76	38.34	39.11	---	---	---	---	40.94	---	---	---
10	36.66	37.84	38.59	39.39	---	---	---	---	41.17	---	---	---
15	36.84	37.97	38.78	39.60	---	---	---	---	41.29	---	---	---
20	37.00	38.24	39.01	---	---	---	---	---	41.55	---	---	---
25	37.21	38.34	38.68	---	---	---	---	---	41.41	---	---	40.70
EOM	37.51	38.31	38.95	---	---	---	---	---	---	---	---	40.65

WTR YR 1992 LOW 41.56 JUN 17

GROUND-WATER DATA

295

BARTHOLOMEW COUNTY

390317085523701. Local number, BA 10.

LOCATION.--Lat 39°03'17", long 85°52'37", in NE¹/₄/NE¹/₄/NE¹/₄ sec.16, T.7 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.

PERIOD OF RECORD.--October 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.67 ft below land-surface datum, Apr. 14, 1979; lowest, 12.65 ft below land-surface datum, Oct. 29, Nov. 2, 1988.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.34	11.55	11.23	11.19	10.90	11.13	10.98	7.83	9.75	9.68	6.90	9.12
10	11.43	11.65	11.38	11.25	11.03	11.12	10.96	8.35	9.92	9.70	7.40	9.31
15	11.54	11.76	11.32	11.09	10.95	11.26	10.85	8.72	10.13	9.40	8.04	9.56
20	11.57	11.73	11.34	11.09	10.97	11.15	7.43	9.04	9.55	7.18	8.56	9.74
25	11.66	11.68	11.36	10.84	11.02	11.08	6.11	9.26	9.52	6.79	8.91	9.84
DOM	11.54	11.60	11.26	10.88	11.14	10.99	7.11	9.53	9.68	7.00	8.83	10.07

WTR YR 1992 HIGH 4.51 APR 22

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.55	11.69	11.48	11.34	11.04	11.25	11.16	8.00	9.85	9.76	7.06	9.18
10	11.54	11.74	11.48	11.34	11.08	11.35	11.02	8.46	10.04	9.86	7.57	9.48
15	11.63	11.83	11.48	11.28	11.27	11.43	11.02	8.86	10.26	9.55	8.19	9.66
20	11.70	11.91	11.49	11.06	11.20	11.33	10.24	9.13	9.82	7.34	8.63	9.83
25	11.79	11.79	11.48	11.04	11.07	11.10	6.43	9.32	9.62	6.92	9.08	10.02
DOM	11.65	11.81	11.36	11.05	11.23	11.17	7.36	9.69	9.83	7.21	8.93	10.15

WTR YR 1992 LOW 11.91 NOV 20

BARTHOLOMEW COUNTY

390658085572201. Local number, BA 13.

LOCATION.--Lat 39°06'58", long 85°57'22", in SW¹/₄/NW¹/₄/SE¹/₄ 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, 19.91 ft below land-surface datum, March 27, 1991; lowest, 24.17 ft below land-surface datum, Feb. 16, 1989.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	21.51	21.64	21.63	21.47	21.43	21.51	21.31	21.06	21.41	21.75	21.71
10	---	21.50	21.74	21.59	21.75	20.84	21.28	21.47	21.42	21.50	21.51	21.55
15	---	21.52	21.80	21.46	21.04	21.53	21.43	21.43	21.37	21.33	21.74	21.80
20	---	21.37	22.04	21.58	21.64	21.45	21.03	21.63	21.36	21.66	21.74	21.41
25	---	21.71	21.85	21.39	21.45	21.41	21.35	21.40	21.22	21.62	21.79	21.75
DOM	21.30	21.36	22.06	21.46	21.37	21.28	21.24	21.50	21.35	21.44	21.71	21.91

WTR YR 1992 HIGH 20.78 JAN 14

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	21.79	22.00	21.76	21.64	21.56	21.72	21.55	21.20	21.52	21.81	21.81
10	---	21.71	21.86	21.77	21.94	21.35	21.49	21.58	21.51	21.58	21.63	21.80
15	---	21.59	22.04	21.86	21.35	21.76	21.61	21.51	21.50	21.51	21.80	21.91
20	---	21.50	22.37	21.76	21.83	21.59	21.22	21.71	21.51	21.72	21.79	21.63
25	---	21.91	21.98	21.92	21.55	21.60	21.39	21.51	21.32	21.80	21.89	21.85
DOM	21.53	21.84	22.14	21.67	21.69	21.51	21.39	21.59	21.43	21.77	21.82	22.01

WTR YR 1992 LOW 22.50 DEC 19

GROUND-WATER DATA

BENTON COUNTY

402851087213501. Local number, BE 4.

LOCATION.--Lat 40°28'51", long 87°21'35", in SE¹/₄NE¹/₄SE¹/₄ 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, 10.65 ft below land-surface datum, May 7, 1982; lowest, 16.55 ft below land-surface datum, Dec. 4, 1988.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.22	15.75	15.74	15.34	14.95	14.39	13.70	13.14	13.14	13.70	13.19	13.04
10	15.49	15.86	15.71	15.24	14.98	14.12	13.56	13.14	13.29	13.74	12.99	12.90
15	15.50	15.81	15.67	15.09	14.66	14.22	13.57	13.12	13.36	13.53	13.02	13.10
20	15.75	15.70	15.74	15.16	14.72	14.08	13.28	13.21	13.42	13.63	12.99	13.04
25	15.72	15.84	15.53	15.01	14.62	13.95	13.30	13.20	13.43	13.49	13.03	13.17
EOM	15.63	15.68	15.54	15.00	14.46	13.78	13.18	13.23	13.60	13.24	12.95	13.25

WTR YR 1992 HIGH 12.85 AUG 27

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.36	15.84	15.86	15.38	15.00	14.46	13.77	13.19	13.17	13.72	13.21	13.06
10	15.51	15.92	15.74	15.26	15.02	14.19	13.66	13.17	13.33	13.77	13.03	13.02
15	15.56	15.84	15.75	15.22	14.75	14.28	13.67	13.15	13.41	13.62	13.05	13.12
20	15.78	15.78	15.85	15.18	14.77	14.09	13.36	13.23	13.47	13.67	13.00	13.12
25	15.76	15.91	15.56	15.11	14.63	14.02	13.32	13.24	13.47	13.62	13.06	13.20
EOM	15.69	15.85	15.57	15.05	14.53	13.86	13.22	13.28	13.64	13.32	12.99	13.28

WTR YR 1992 LOW 15.96 NOV 9

BOONE COUNTY

400532086183901. Local number, BO 17.

LOCATION.--Lat 40°05'32", long 86°18'39", in SW¹/₄SE¹/₄NW¹/₄ 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.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 45.87 ft below land-surface datum, July 11-13, 1986; lowest, 51.98 ft below land-surface datum, Oct. 13, 14, 1988.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	51.55	51.52	51.20	51.02	50.48	49.98	49.29	48.63	48.97	49.64	48.87	49.33
10	51.67	51.49	51.24	50.93	50.48	49.70	49.15	48.76	49.01	49.61	48.76	49.31
15	51.59	51.42	51.19	50.71	50.17	49.75	49.09	48.92	49.21	49.41	48.87	49.34
20	51.73	51.27	51.25	50.71	50.21	49.59	48.79	49.09	49.35	49.33	49.06	49.11
25	51.74	51.32	51.15	50.59	50.15	49.50	48.80	49.17	49.31	49.11	49.43	48.92
EOM	51.59	51.16	51.20	50.52	50.06	49.34	48.68	49.16	49.55	48.91	49.01	48.83

WTR YR 1992 HIGH 48.63 MAY 1

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	51.62	51.62	51.35	51.08	50.54	50.05	49.36	48.68	48.99	49.76	48.87	49.37
10	51.67	51.55	51.27	50.96	50.54	49.76	49.23	48.82	49.11	49.62	48.79	49.33
15	51.64	51.45	51.28	50.84	50.28	49.82	49.19	48.98	49.31	49.43	48.90	49.34
20	51.73	51.35	51.38	50.76	50.28	49.62	48.86	49.13	49.40	49.33	49.12	49.18
25	51.74	51.37	51.18	50.72	50.16	49.58	48.82	49.19	49.34	49.16	49.47	48.97
EOM	51.65	51.33	51.25	50.59	50.13	49.42	48.73	49.20	49.59	48.92	49.37	48.85

WTR YR 1992 LOW 51.74 OCT 23

GROUND-WATER DATA

297

CASS COUNTY

403407086175701. Local number, CS 3.

LOCATION.--Lat 40°34'07", long 86°17'57", in NE¹/₄NE¹/₄SE¹/₄ 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 78ft, 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.00	9.86	9.73	8.55	8.16	7.04	6.68	6.15	6.29	7.20	6.15	6.67
10	9.21	9.83	9.28	8.48	8.33	6.57	6.26	6.19	6.68	7.22	6.23	6.55
15	9.21	9.73	9.09	8.52	7.80	7.19	6.38	6.23	6.91	6.93	6.24	6.58
20	9.39	9.49	9.14	8.80	7.79	6.94	6.19	6.30	7.01	6.71	6.32	6.68
25	9.38	9.93	8.82	8.65	7.43	6.69	6.12	6.34	6.90	6.19	6.33	6.45
EOM	9.38	9.53	8.78	8.31	7.26	6.47	6.12	6.39	7.00	6.12	6.59	6.31

WTR YR 1992 HIGH 6.01 MAY 2

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.26	10.06	9.99	8.71	8.27	7.23	6.79	6.43	6.36	7.37	6.22	6.76
10	9.28	10.01	9.38	8.57	8.43	6.88	6.38	6.31	6.85	7.36	6.36	6.72
15	9.32	9.81	9.32	8.83	8.03	7.37	6.53	6.34	7.00	7.07	6.34	6.73
20	9.47	9.69	9.38	8.92	7.91	7.02	6.28	6.43	7.08	6.79	6.39	6.85
25	9.50	10.07	8.88	8.89	7.48	6.81	6.21	6.44	6.98	6.32	6.57	6.59
EOM	9.49	9.80	8.92	8.48	7.39	6.66	6.22	6.61	7.19	6.24	6.69	6.41

WTR YR 1992 LOW 10.12 NOV 26

CLAY COUNTY

392653087120501. Local number, CY 6.

LOCATION.--Lat 39°26'53", long 87°12'05", in SE¹/₄SE¹/₄SE¹/₄ 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.

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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	155.07	155.16	155.00	154.96	155.13	155.13	155.21	154.97	154.97	155.10	154.99	155.00
10	155.23	155.20	155.12	155.04	155.39	154.87	155.03	155.07	155.14	155.08	154.83	154.85
15	155.18	155.15	155.16	154.93	154.89	155.21	154.97	155.08	155.09	154.93	155.00	154.99
20	155.36	154.93	155.21	155.08	155.23	155.16	154.69	155.28	155.12	155.03	155.03	154.70
25	155.24	155.26	155.18	155.01	155.22	155.17	154.96	155.17	155.00	154.94	155.04	154.83
EOM	155.16	154.90	155.23	155.14	155.21	154.99	154.86	155.24	155.00	154.84	155.00	154.95

WTR YR 1992 HIGH 154.39 SEP 21

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	155.41	155.50	155.42	155.17	155.36	155.31	155.38	155.19	155.12	155.19	155.10	155.12
10	155.40	155.42	155.25	155.14	155.49	155.18	155.12	155.19	155.30	155.25	155.04	155.10
15	155.29	155.25	155.38	155.36	155.28	155.47	155.22	155.28	155.28	155.14	155.13	155.11
20	155.56	155.22	155.62	155.24	155.44	155.32	154.85	155.39	155.25	155.08	155.12	154.98
25	155.45	155.37	155.27	155.39	155.29	155.26	155.04	155.27	155.18	155.17	155.25	155.03
EOM	155.32	155.32	155.37	155.38	155.40	155.23	155.07	155.45	155.28	155.09	155.11	155.12

WTR YR 1992 LOW 165.28 JUN 8

GROUND-WATER DATA

CLAY COUNTY

391124087134701. Local number, CY 7.

LOCATION.--Lat 39°11'24", long 87°13'47", in SW¹/₄/NW¹/₄/SE¹/₄ 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 (revised) 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	30.77	30.83	30.51	30.07	29.81	29.64	29.38	29.19	29.45	29.80	29.57	29.81
10	30.88	30.87	30.46	30.01	29.84	29.56	29.35	29.26	29.51	29.78	29.56	29.66
15	30.90	30.88	30.39	29.90	29.70	29.62	29.29	29.26	29.58	29.66	29.67	29.74
20	31.02	30.66	30.36	29.88	29.70	29.55	29.13	29.34	29.66	29.64	29.74	29.71
25	31.04	30.73	30.25	29.82	29.66	29.51	29.16	29.39	29.64	29.57	29.82	29.67
COM	30.78	30.58	30.20	29.82	29.64	29.41	29.14	29.42	29.79	29.53	29.83	29.64

WTR YR 1992 HIGH 29.13 APR 20

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	30.84	30.87	30.58	30.10	29.84	29.67	29.40	29.22	29.48	29.80	29.59	29.83
10	30.89	30.90	30.48	30.02	29.85	29.59	29.36	29.28	29.54	29.78	29.58	29.71
15	30.93	30.90	30.41	29.96	29.75	29.65	29.38	29.29	29.61	29.67	29.69	29.75
20	31.03	30.78	30.42	29.90	29.73	29.56	29.16	29.36	29.68	29.66	29.76	29.76
25	31.07	30.74	30.26	29.88	29.67	29.55	29.17	29.39	29.68	29.61	29.86	29.70
COM	30.81	30.64	30.22	29.85	29.68	29.43	29.16	29.46	29.80	29.57	29.85	29.66

WTR YR 1992 LOW 31.07 OCT 24

GROUND-WATER DATA

DECATUR COUNTY

392022085371801. Local number, DC 2.

LOCATION.--Lat 39°20'22", long 85°37'18", in SE¹/₄, NE¹/₄, SW¹/₄, 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.

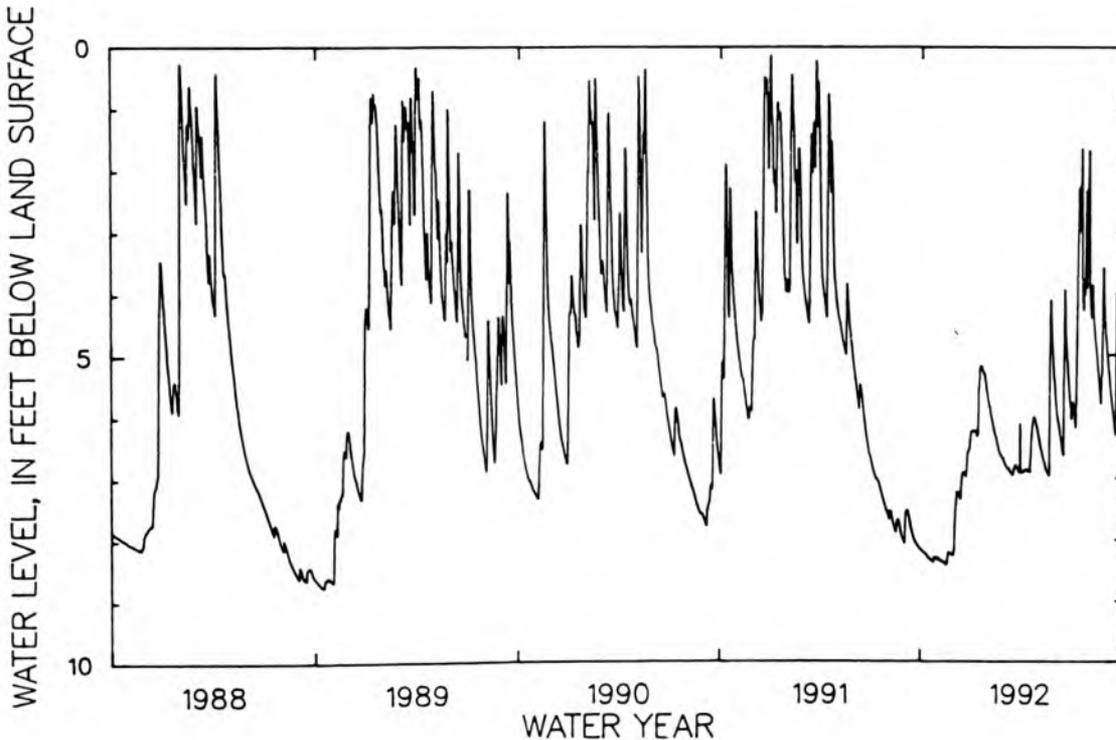
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.12 ft below land-surface datum, Dec. 30, 1991; lowest, 9.25 ft below land-surface datum, Feb. 9-11, 1977.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.20	8.33	7.23	6.24	5.97	6.82	6.91	6.44	5.99	5.82	4.27	5.03
10	8.23	8.36	7.29	6.28	6.19	6.85	6.85	6.65	6.25	5.73	4.38	5.53
15	8.29	8.40	6.94	5.44	6.34	6.95	6.88	6.83	6.57	2.24	4.89	5.97
20	8.34	8.20	6.94	5.18	6.56	6.81	6.32	6.94	4.56	3.77	5.40	6.32
25	8.37	8.24	6.59	5.33	6.66	6.85	6.02	4.34	5.28	4.03	5.29	4.77
DOM	8.31	8.20	6.25	5.72	6.74	6.91	6.19	5.42	5.84	1.67	4.51	5.30

WTR YR 1992 HIGH 1.63 JUL 17

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.22	8.34	7.44	6.24	6.01	6.84	6.93	6.50	6.06	5.93	4.39	5.13
10	8.24	8.38	7.32	6.32	6.23	6.90	6.89	6.69	6.32	6.33	4.49	5.61
15	8.31	8.41	7.04	5.52	6.40	6.97	6.90	6.86	6.62	2.99	4.97	6.04
20	8.34	8.29	6.97	5.25	6.58	6.85	6.52	6.96	4.76	4.09	5.50	6.36
25	8.38	8.25	6.68	5.43	6.67	6.87	6.04	4.62	5.43	4.19	5.95	4.88
DOM	8.33	8.28	6.32	5.79	6.75	6.93	6.25	5.44	6.06	2.44	4.64	5.40

WTR YR 1992 LOW 8.42 NOV 16



GROUND-WATER DATA

DELAWARE COUNTY

400541085213701. Local number, DW 4.

LOCATION.--Lat 40°05'41", long 85°21'37", in SE¹/₄, NW¹/₄, SW¹/₄, sec. 9, 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	48.83	48.55	---	48.67	48.45	48.51	48.53	48.11	48.57	48.28	47.41	48.33
10	48.83	48.65	48.44	48.69	48.52	48.53	48.56	48.24	48.61	48.39	47.82	48.16
15	48.82	48.71	48.52	48.60	48.42	48.57	48.59	48.33	48.65	48.37	48.07	48.25
20	48.83	48.56	48.60	48.57	48.28	48.45	47.47	48.41	47.48	46.87	48.23	48.36
25	48.75	48.45	48.60	48.44	48.32	48.48	47.69	48.48	47.85	44.41	48.28	48.36
ECM	48.41	48.51	48.64	48.48	48.42	48.50	47.95	48.53	48.13	46.68	48.22	48.41

WTR YR 1992 HIGH 43.45 JUL 24

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	48.84	48.56	---	48.67	48.47	48.51	48.55	48.15	48.58	48.30	47.51	48.36
10	48.83	48.67	48.47	48.70	48.53	48.54	48.57	48.26	48.62	48.41	47.89	48.33
15	48.83	48.72	48.54	48.63	48.56	48.58	48.60	48.36	48.67	48.44	48.10	48.28
20	48.83	48.68	48.61	48.60	48.29	48.46	47.50	48.43	47.54	47.06	48.26	48.38
25	48.83	48.48	48.60	48.46	48.34	48.48	47.76	48.49	47.92	45.18	48.36	48.37
ECM	48.43	48.52	48.64	48.49	48.45	48.51	47.97	48.54	48.18	46.87	48.26	48.42

WTR YR 1992 LOW 48.85 OCT 1

GROUND-WATER DATA

ELKHART COUNTY

413121085481301. Local number, EH 4.

LOCATION.--Lat 41°31'21", long 85°48'13", in SW¹/₄, SE¹/₄, SW¹/₄, 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.

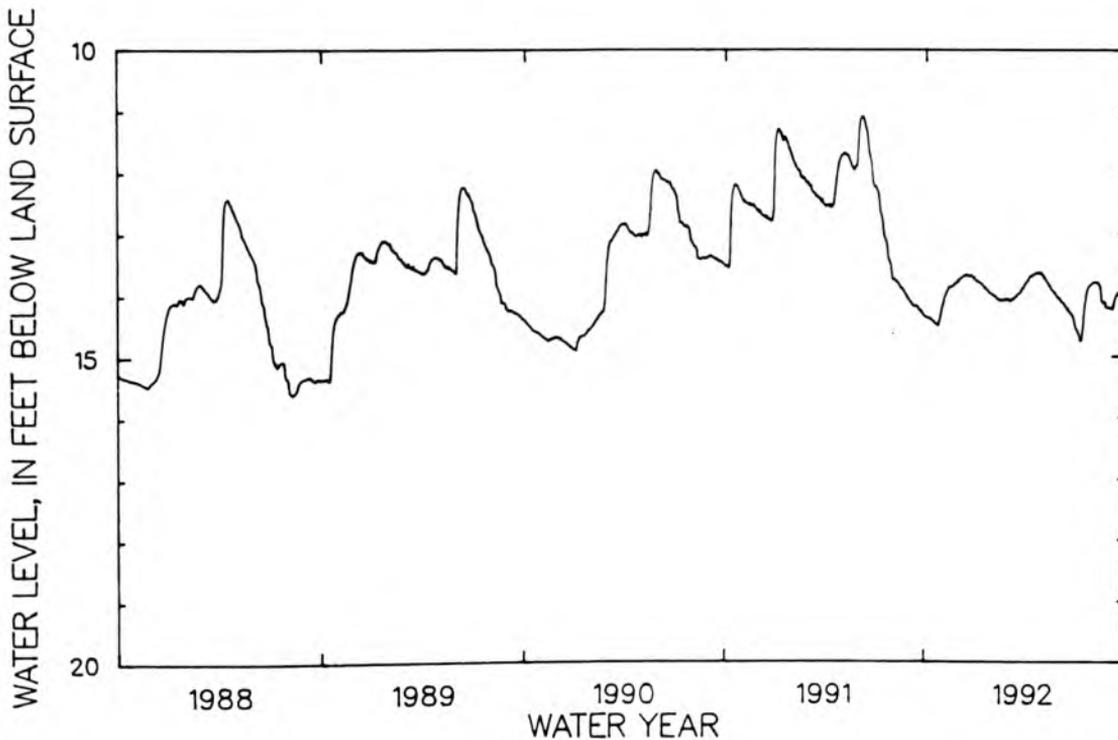
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 10.60 ft below land-surface datum, Apr. 14, 1985; lowest, 16.18 ft below land-surface datum, Dec. 1-5, 1971.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.36	14.03	13.71	13.77	14.01	14.09	13.78	13.69	14.08	14.57	13.79	14.21
10	14.38	13.92	13.68	13.80	14.06	14.06	13.69	13.77	14.13	14.71	13.79	14.17
15	14.41	13.86	13.66	13.85	14.08	14.03	13.67	13.84	14.19	14.64	13.82	14.00
20	14.46	13.85	13.68	13.89	14.08	13.98	13.63	13.91	14.26	14.14	14.12	13.95
25	14.50	13.80	13.68	13.94	14.08	13.93	13.63	13.96	14.31	13.89	14.11	13.87
DOM	14.25	13.75	13.73	13.98	14.07	13.84	13.64	14.04	14.44	13.82	14.20	13.83

WTR YR 1992 HIGH 13.63 APR 20

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.37	14.09	13.73	13.77	14.02	14.09	13.78	13.71	14.09	14.58	13.79	14.21
10	14.39	13.94	13.69	13.81	14.06	14.07	13.71	13.78	14.14	14.77	13.79	14.22
15	14.42	13.86	13.67	13.86	14.09	14.03	13.68	13.85	14.21	14.73	13.84	14.02
20	14.47	13.85	13.69	13.91	14.09	13.98	13.64	13.92	14.27	14.21	14.17	13.96
25	14.50	13.80	13.69	13.95	14.08	13.95	13.64	13.97	14.32	13.92	14.12	13.89
DOM	14.30	13.77	13.77	13.98	14.08	13.86	13.65	14.04	14.47	13.83	14.20	13.84

WTR YR 1992 LOW 14.77 JUL 10



GROUND-WATER DATA

ELKHART COUNTY

414419085544601. Local number, EH 5.

LOCATION.--Lat 41°44'19", long 85°54'46", in NW¹/₄NE¹/₄NE¹/₄ 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.01	2.92	3.05	3.21	3.34	3.31	3.09	3.40	3.70	4.38	4.05	4.61
10	4.04	3.05	3.01	3.18	3.42	3.14	3.18	3.47	3.76	4.51	4.11	3.79
15	3.95	3.05	2.99	3.24	3.27	3.16	3.22	3.54	3.90	4.14	4.25	3.71
20	3.99	2.95	3.15	3.33	3.18	3.16	3.21	3.58	3.96	4.25	4.38	3.54
25	3.20	2.99	3.11	3.30	3.18	3.10	3.23	3.68	4.16	4.09	4.55	3.20
EOM	2.78	3.01	3.21	3.30	3.22	3.03	3.27	3.65	---	3.91	4.65	3.20

WTR YR 1992 HIGH 2.75 NOV 1

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.14	2.92	3.05	3.22	3.34	3.31	3.14	3.43	3.70	4.45	4.11	4.64
10	4.05	3.06	3.01	3.20	3.43	3.21	3.18	3.51	3.81	4.56	4.18	3.82
15	3.96	3.12	3.05	3.28	3.43	3.21	3.23	3.55	3.96	4.16	4.31	3.91
20	3.99	3.09	3.15	3.35	3.18	3.19	3.22	3.65	3.96	4.28	4.42	3.58
25	3.94	3.05	3.16	3.30	3.18	3.17	3.23	3.68	4.17	4.10	4.61	3.24
EOM	2.79	3.04	3.22	3.30	3.26	3.06	3.31	3.65	---	4.05	4.68	3.24

WTR YR 1992 LOW 4.69 SEP 1

ELKHART COUNTY

414351085540401. Local number, EH 6.

LOCATION.--Lat 41°43'51", long 85°54'04", in NW¹/₄NE¹/₄SW¹/₄ 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.35	---	---	7.67	7.95	7.80	7.64	7.99	8.56	9.28	9.10	9.60
10	8.95	---	---	7.73	8.00	7.73	7.67	8.12	8.62	9.39	9.14	9.26
15	---	---	---	7.79	7.98	7.72	7.73	8.19	8.76	9.33	9.23	8.89
20	---	---	---	7.84	7.92	7.67	7.79	8.33	8.86	9.28	9.33	8.69
25	---	---	---	7.86	7.82	7.66	7.83	8.38	9.01	9.21	9.45	8.19
EOM	---	---	7.67	7.86	7.73	7.65	7.89	8.52	9.14	9.14	9.53	8.09

WTR YR 1992 HIGH 7.64 APR 5

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.35	---	---	7.68	7.95	7.81	7.65	8.01	8.57	9.29	9.12	9.61
10	8.97	---	---	7.75	8.00	7.75	7.67	8.14	8.64	9.41	9.16	9.45
15	---	---	---	7.80	8.01	7.72	7.74	8.21	8.81	9.39	9.25	8.93
20	---	---	---	7.84	7.94	7.67	7.80	8.35	8.89	9.28	9.36	8.73
25	---	---	---	7.86	7.83	7.66	7.83	8.40	9.04	9.23	9.47	8.25
EOM	---	---	7.67	7.89	7.74	7.65	7.93	8.53	9.18	9.17	9.56	8.10

WTR YR 1992 LOW 9.62 SEP 7

GROUND-WATER DATA

303

ELKHART COUNTY

414514085505001. Local number, EH 7.

LOCATION --Lat 41°45'14", long 85°50'50", in SW¹/₄SE¹/₄SW¹/₄ 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 water-table 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.06	10.04	9.83	9.65	9.92	9.85	9.75	9.90	10.35	10.81	10.80	11.21
10	10.96	9.92	9.80	9.73	9.95	9.80	9.68	9.96	10.41	11.09	10.77	11.12
15	10.86	9.89	9.69	9.77	9.93	9.82	9.69	10.02	10.46	11.06	10.76	10.94
20	10.82	9.91	9.60	9.77	9.98	9.81	9.69	10.09	10.51	10.95	10.94	10.79
25	10.76	9.92	9.57	9.85	9.94	9.80	9.76	10.29	10.55	10.88	11.16	10.61
EOM	10.29	9.85	9.62	9.86	9.89	9.76	9.80	10.32	10.61	10.84	11.23	10.42

WTR YR 1992 HIGH 9.53 DEC 23

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.07	10.09	9.89	9.66	9.94	9.86	9.77	9.92	10.36	10.90	10.80	11.22
10	10.99	9.94	9.82	9.74	9.97	9.83	9.71	9.98	10.42	11.12	10.77	11.15
15	10.87	9.91	9.71	9.80	9.96	9.84	9.71	10.03	10.47	11.10	10.77	10.96
20	10.83	9.94	9.63	9.84	10.01	9.82	9.70	10.14	10.52	10.96	10.99	10.82
25	10.80	9.94	9.58	9.89	9.95	9.82	9.77	10.30	10.56	10.90	11.16	10.66
EOM	10.37	9.90	9.63	9.90	9.92	9.77	9.84	10.33	10.62	10.84	11.24	10.45

WTR YR 1992 LOW 11.24 AUG 31

ELKHART COUNTY

414419085595801. Local number, EH 9.

LOCATION --Lat 41°44'19", long 85°59'58", in NE¹/₄NW¹/₄NW¹/₄ 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, from topographic map. 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, 20.89 ft below land-surface datum, Aug. 25, 1992.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.94	17.17	16.95	17.04	17.38	17.85	18.16	18.76	18.84	19.85	20.30	20.69
10	17.77	17.01	16.98	17.11	17.42	17.86	18.33	18.99	18.91	20.15	20.49	20.59
15	17.73	16.94	16.96	17.15	17.66	17.98	18.18	19.37	19.39	19.69	20.55	20.74
20	17.75	16.91	16.95	17.19	17.79	18.38	17.99	19.66	19.42	19.86	20.58	20.20
25	17.76	16.92	16.97	17.25	17.83	18.50	18.30	19.30	19.62	20.15	20.78	19.78
EOM	17.41	16.92	17.02	17.33	17.77	18.13	18.59	19.01	19.91	20.23	20.72	19.92

WTR YR 1992 HIGH 16.90 NOV 23

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.97	17.22	16.98	17.05	17.39	17.97	18.28	18.90	18.89	20.06	20.41	20.83
10	17.79	17.04	16.99	17.12	17.42	18.01	18.45	19.11	19.10	20.23	20.59	20.70
15	17.74	16.94	16.97	17.16	17.69	18.01	18.29	19.44	19.50	19.81	20.63	20.86
20	17.75	16.93	16.98	17.23	17.82	18.55	18.12	19.78	19.61	19.92	20.72	20.38
25	17.78	16.94	16.98	17.29	17.88	18.54	18.43	19.38	19.77	20.19	20.89	19.85
EOM	17.47	16.97	17.03	17.36	17.78	18.27	18.71	19.10	20.00	20.38	20.80	20.02

WTR YR 1992 LOW 20.89 AUG 25

GROUND-WATER DATA

FOUNTAIN COUNTY

401200087121701. Local number, FO 3.

LOCATION.--Lat 40°12'00", long 87°12'17", in NW¹/₄, NW¹/₄, NW¹/₄, 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 water-table 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.58	12.92	12.82	12.73	12.20	10.66	10.22	8.92	9.74	10.07	8.94	10.32
10	12.64	12.97	12.91	12.60	12.20	10.76	10.14	9.09	9.89	10.15	9.20	10.42
15	12.73	13.03	12.61	12.43	11.88	10.65	10.20	9.27	9.75	9.51	9.50	10.57
20	12.80	12.83	12.69	12.38	10.49	10.26	7.97	9.38	9.71	9.62	9.72	10.71
25	12.85	12.84	12.65	12.33	10.50	10.16	8.37	9.50	9.87	9.58	9.89	10.71
DOM	12.84	12.90	12.70	12.30	10.58	10.12	8.66	9.68	10.05	8.74	10.11	10.26

WTR YR 1992 HIGH 7.97 APR 20

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.60	12.92	12.83	12.73	12.22	10.68	10.25	9.01	9.77	10.12	9.00	10.33
10	12.65	12.98	12.93	12.65	12.22	10.78	10.20	9.14	9.91	10.20	9.25	10.47
15	12.74	13.05	12.64	12.47	12.20	10.68	10.23	9.31	9.79	9.77	9.53	10.61
20	12.81	13.07	12.69	12.40	10.59	10.34	8.10	9.43	9.77	9.68	9.75	10.72
25	12.87	12.88	12.66	12.36	10.55	10.19	8.45	9.53	9.92	9.77	9.93	10.73
DOM	12.85	12.93	12.72	12.32	10.62	10.16	8.74	9.71	10.06	8.82	10.17	10.26

WTR YR 1992 LOW 13.09 NOV 19

FRANKLIN COUNTY

392416085004301. Local number, FR 5.

LOCATION.--Lat 39°24'16", long 85°00'43", in SE¹/₄, NE¹/₄, NW¹/₄, 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	26.52	26.03	26.10	26.21	26.13	26.34	26.09	25.33	25.94	25.77	23.83	25.86
10	26.59	26.00	26.25	26.18	26.28	26.40	26.14	25.53	25.52	25.44	24.83	25.92
15	26.62	25.98	26.32	26.08	26.33	26.42	26.20	25.74	25.84	25.08	25.38	25.96
20	26.67	25.96	26.43	26.14	26.10	26.13	24.62	25.89	24.69	23.24	25.73	26.16
25	26.37	25.90	26.40	26.05	26.04	26.15	24.70	25.93	25.02	23.25	25.98	26.22
DOM	26.10	26.26	26.43	26.04	26.20	26.06	25.11	25.85	25.54	22.35	25.55	26.30

WTR YR 1992 HIGH 22.35 JUL 31

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	26.54	26.04	26.12	26.23	26.15	26.37	26.10	25.37	25.96	25.82	24.10	25.90
10	26.59	26.00	26.28	26.23	26.31	26.41	26.18	25.56	25.63	25.57	24.95	25.94
15	26.63	25.99	26.33	26.13	26.36	26.43	26.21	25.79	25.88	25.34	25.46	26.03
20	26.67	25.97	26.45	26.15	26.16	26.22	24.68	25.92	24.79	23.72	25.79	26.19
25	26.45	25.97	26.40	26.07	26.07	26.18	24.80	25.94	25.18	23.69	26.03	26.24
DOM	26.13	26.28	26.44	26.05	26.23	26.18	25.17	25.88	25.63	22.92	25.63	26.32

WTR YR 1992 LOW 26.67 OCT 19

GROUND-WATER DATA

305

FULTON COUNTY

405829086175801. Local number, FU 7.

LOCATION.--Lat 40°58'29", long 86°17'58", in NW¹/₄, NW¹/₄, SW¹/₄ 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.10	10.55	---	9.59	9.69	9.45	8.87	8.47	9.59	10.39	9.90	10.91
10	12.17	10.56	9.29	9.58	9.81	9.33	8.99	8.80	9.67	10.52	10.22	10.72
15	12.16	---	9.21	9.55	9.71	9.23	8.95	9.01	9.75	9.92	10.44	10.58
20	12.28	---	9.38	9.64	9.48	8.95	8.20	9.27	9.87	9.62	10.80	10.67
25	12.10	---	9.43	9.61	9.31	8.80	8.06	9.49	9.88	9.63	10.80	10.51
DOM	10.80	---	9.62	9.63	9.29	8.77	8.16	9.57	10.34	9.73	10.81	10.24

WTR YR 1992 HIGH 8.06 APR 25

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.18	10.63	---	9.61	9.72	9.46	8.94	8.56	9.61	10.40	9.95	10.92
10	12.19	10.60	9.31	9.60	9.83	9.42	9.02	8.87	9.68	10.59	10.23	10.76
15	12.21	---	9.26	9.61	9.82	9.26	9.03	9.09	9.92	10.08	10.45	10.62
20	12.28	---	9.44	9.67	9.57	9.02	8.44	9.37	9.91	9.67	10.80	10.69
25	12.27	---	9.48	9.67	9.33	8.84	8.08	9.49	9.96	9.66	10.87	10.54
DOM	10.96	---	9.65	9.68	9.37	8.82	8.23	9.61	10.44	9.80	10.84	10.28

WTR YR 1992 LOW 12.30 OCT 1

GRANT COUNTY

402322085481901. Local number, GT 8.

LOCATION.--Lat 40°23'22", long 85°48'19", in NW¹/₄, SW¹/₄, NW¹/₄ 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.74	8.67	5.55	4.60	3.41	3.77	2.74	3.46	4.16	4.44	4.25	5.53
10	8.96	8.71	5.52	4.55	3.71	3.63	3.04	3.74	4.47	4.62	4.34	4.82
15	9.03	8.80	4.85	3.88	3.52	3.66	3.35	3.92	4.55	1.89	4.64	4.71
20	9.27	7.99	4.92	---	3.03	2.77	1.53	4.04	3.19	2.63	4.89	4.85
25	9.34	6.66	4.82	---	3.13	2.94	2.45	4.21	3.70	3.44	5.15	3.30
DOM	8.64	5.99	4.88	3.68	3.40	2.51	2.96	4.28	4.18	3.84	5.31	3.66

WTR YR 1992 HIGH 1.46 APR 19

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.95	8.78	5.80	4.67	3.51	3.80	2.92	3.63	4.50	4.69	4.71	5.76
10	8.99	8.78	5.57	4.61	3.79	3.77	3.11	4.01	4.62	4.81	4.55	5.31
15	9.16	8.85	4.98	4.11	3.77	3.77	3.42	4.09	4.95	2.30	5.04	4.97
20	9.32	8.78	5.11	---	3.15	2.86	1.63	4.41	3.58	2.99	5.28	5.20
25	9.40	6.68	4.87	---	3.22	3.02	2.63	4.37	4.06	3.59	5.50	3.43
DOM	8.72	6.14	4.90	3.75	3.64	2.64	3.11	4.53	4.57	3.98	5.52	3.90

WTR YR 1992 LOW 9.43 OCT 22

GROUND-WATER DATA

GRANT COUNTY

403836085374401. Local number, GT 10.

LOCATION.--Lat 40°38'36", long 85°37'44", in NE¹/₄SE¹/₄SW¹/₄ 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, 3.16 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, 120.87 ft below land-surface datum, June 29, 1989.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	117.52	118.84	118.10	115.57	116.18	117.91	117.79	116.34	---	---	118.11	116.21
10	116.66	118.90	118.67	118.27	116.46	116.31	117.67	116.18	---	116.76	117.23	115.86
15	117.73	118.21	117.10	117.44	115.05	116.26	117.29	116.09	---	118.32	116.82	116.21
20	117.51	116.17	116.95	116.54	116.73	116.28	116.04	115.25	118.96	119.01	117.00	118.84
25	116.51	116.54	118.02	118.03	115.99	117.90	114.71	114.06	117.44	119.59	117.46	116.64
EOM	116.79	115.88	116.97	116.01	115.73	118.01	114.76	116.59	---	116.73	116.72	116.61

WTR YR 1992 HIGH 114.06 MAY 24

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	118.74	118.97	118.29	115.92	117.54	118.22	118.01	116.55	---	---	118.53	116.76
10	118.13	119.14	118.75	118.73	116.85	116.57	117.91	116.31	---	116.96	118.75	116.17
15	118.41	119.14	117.49	118.47	115.74	116.43	117.45	116.20	---	118.79	116.86	116.29
20	118.44	116.55	117.29	116.76	117.55	116.40	117.30	115.98	118.97	119.28	117.04	118.95
25	116.61	116.84	118.63	118.99	116.06	118.13	114.90	114.49	117.44	119.72	118.45	116.88
EOM	116.87	116.24	117.54	116.15	116.05	118.22	116.01	116.71	---	116.80	116.80	116.68

WTR YR 1992 LOW 119.72 JUL 25

HAMILTON COUNTY

400000086023001. Local number, HA 5.

LOCATION.--Lat 40°00'00", long 86°02'30", in NE¹/₄NE¹/₄NW¹/₄ 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 760.46 ft (revised) 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, 11.99 ft below land-surface datum, Oct. 30-Nov. 4, 1988.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.63	11.32	10.94	10.98	10.80	10.71	10.63	9.98	10.45	10.63	---	10.50
10	11.63	11.36	10.93	11.01	10.82	10.68	10.64	10.09	10.52	10.62	10.13	10.41
15	11.64	11.39	10.91	10.94	10.78	10.69	10.67	10.18	10.60	10.61	10.26	10.50
20	11.65	11.23	10.96	10.93	10.70	10.62	9.56	10.26	10.51	10.14	10.36	10.58
25	11.64	11.07	10.91	10.87	10.68	10.62	9.63	10.33	10.54	9.87	10.46	10.48
EOM	11.31	11.02	10.96	10.82	10.67	10.62	9.81	10.39	10.64	9.85	10.44	10.48

WTR YR 1992 HIGH 9.53 APR 21

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.63	11.32	10.96	10.98	10.80	10.71	10.63	10.01	10.47	10.69	---	10.52
10	11.63	11.37	10.93	11.02	10.83	10.71	10.65	10.11	10.54	10.65	10.15	10.49
15	11.64	11.39	10.92	10.97	10.84	10.71	10.67	10.19	10.62	10.62	10.28	10.53
20	11.66	11.39	10.96	10.93	10.72	10.63	9.67	10.28	10.51	10.23	10.38	10.58
25	11.67	11.08	10.91	10.88	10.68	10.63	9.67	10.34	10.56	9.90	10.47	10.50
EOM	11.31	11.03	10.96	10.83	10.69	10.63	9.85	10.40	10.65	9.88	10.47	10.49

WTR YR 1992 LOW 11.67 OCT 22

GROUND-WATER DATA

307

HARRISON COUNTY

382323086044501. Local number, HR 8.

LOCATION.--Lat 38°23'23", long 86°04'45", in NW²/₄/NW²/₄, 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; lowest, 20.18 ft below land-surface datum, Nov. 30, 1991.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.51	19.58	19.58	19.10	18.52	19.60	9.77	9.77	12.61	15.38	17.16	17.96
10	18.72	19.73	19.63	19.13	18.81	19.01	9.89	10.58	13.06	15.85	16.81	18.22
15	18.89	19.90	19.59	18.58	19.02	18.32	10.31	11.21	13.54	16.28	16.77	18.50
20	19.09	19.98	19.70	18.15	19.27	12.85	7.55	11.86	13.99	16.68	16.96	18.74
25	19.26	20.07	19.31	18.12	19.41	11.96	7.89	12.46	14.45	16.94	17.27	18.96
DOM	19.42	20.12	19.22	18.28	19.51	10.35	8.83	12.51	14.92	17.00	17.63	19.17

WTR YR 1992 HIGH 7.49 APR 21

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.57	19.60	19.64	19.15	18.56	19.62	9.81	9.96	12.70	15.47	17.21	18.01
10	18.75	19.79	19.69	19.16	18.85	19.21	9.96	10.73	13.14	15.95	16.91	18.30
15	18.93	19.92	19.63	18.76	19.10	18.36	10.55	11.35	13.65	16.36	16.80	18.56
20	19.12	20.00	19.72	18.17	19.30	13.61	7.72	12.02	14.11	16.78	17.03	18.78
25	19.30	20.09	19.42	18.19	19.43	12.07	8.07	12.56	14.54	16.98	17.33	19.01
DOM	19.45	20.18	19.24	18.35	19.54	10.85	9.06	12.57	15.01	17.03	17.70	19.21

WTR YR 1992 LOW 20.18 NOV 30

HENDRICKS COUNTY

394025086400801. Local number, HD 4.

LOCATION.--Lat 39°40'25", long 86°40'08", in NW²/₄/NW²/₄, 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	26.16	25.12	---	---	---	---	21.07	21.50	22.87	23.14	21.19	23.20
10	26.42	25.11	---	---	---	---	21.23	21.90	23.10	22.58	21.47	23.20
15	26.47	25.09	---	---	---	---	21.12	22.19	23.15	22.09	22.24	23.41
20	26.57	23.94	---	---	---	21.63	20.54	22.44	23.32	21.80	22.69	23.56
25	26.63	22.77	---	---	---	21.37	20.57	22.76	23.41	21.74	23.00	23.48
DOM	25.35	21.78	---	---	---	21.24	20.93	22.77	23.65	21.13	23.02	23.41

WTR YR 1992 HIGH 20.49 APR 22

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	26.31	25.28	---	---	---	---	21.17	21.63	22.99	23.42	21.28	23.35
10	26.55	25.26	---	---	---	---	21.32	22.14	23.24	22.80	21.58	23.30
15	26.56	25.19	---	---	---	---	21.30	22.26	23.21	22.21	22.36	23.47
20	26.97	24.98	---	---	---	21.75	21.03	22.68	23.44	21.95	22.79	23.70
25	26.91	23.05	---	---	---	21.49	20.71	22.97	23.50	22.04	23.09	23.59
DOM	25.50	22.05	---	---	---	21.34	21.11	22.84	23.86	21.20	23.19	23.49

WTR YR 1992 LOW 26.97 OCT 20

GROUND-WATER DATA

HUNTINGTON COUNTY

404858085284301. Local number, HU 2.

LOCATION.--Lat 40°48'58", long 85°28'43", in SW¹/₄, SW¹/₄, SE¹/₄, sec. 2, T.2N., 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, 71.65 ft below land-surface datum, Aug. 1, 1992.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	69.83	69.52	70.14	69.68	69.78	70.21	70.30	70.60	70.68	71.15	71.54	70.96
10	70.06	69.80	70.22	69.69	70.03	69.02	69.72	70.87	70.90	71.27	71.00	70.58
15	69.62	69.88	69.86	69.61	69.32	69.81	69.93	70.88	71.08	71.09	71.23	70.99
20	69.85	69.83	70.21	69.69	70.13	69.72	69.85	71.19	71.00	71.39	71.18	70.57
25	69.72	70.29	69.91	69.72	70.26	70.16	70.23	70.92	70.91	71.21	71.19	71.03
COM	69.46	69.83	70.14	69.70	70.38	70.00	70.32	71.08	71.09	71.16	70.88	71.22

WTR YR 1992 HIGH 68.85 NOV 1

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	70.26	69.77	70.66	69.96	70.14	70.51	70.52	70.90	70.84	71.25	71.63	71.23
10	70.23	69.97	70.42	69.94	70.38	69.58	70.07	70.98	71.11	71.37	71.14	70.96
15	69.92	70.02	70.16	69.99	69.71	70.03	70.14	71.04	71.25	71.29	71.45	71.08
20	70.06	70.12	70.75	70.03	70.30	70.09	70.09	71.36	71.21	71.56	71.26	70.85
25	69.92	70.64	70.18	70.08	70.41	70.38	70.43	71.07	71.03	71.60	71.30	71.14
COM	69.73	70.44	70.28	69.96	70.76	70.37	70.57	71.24	71.15	71.60	71.20	71.33

WTR YR 1992 LOW 71.65 AUG 1

JASPER COUNTY

410249087011201. Local number, JP 4.

LOCATION.--Lat 41°02'49", long 87°01'12", in SW¹/₄, NE¹/₄, SW¹/₄, 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.

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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.27	5.53	4.14	3.52	3.26	3.16	3.09	3.13	6.93	9.47	5.34	5.85
10	6.32	5.39	4.11	3.49	3.40	3.00	2.91	3.20	6.28	9.27	5.33	5.35
15	6.24	5.17	3.97	3.39	3.03	3.20	2.93	3.22	7.06	7.38	5.39	4.96
20	6.26	4.87	3.82	3.38	3.26	3.06	2.82	3.39	7.20	6.38	8.11	4.55
25	6.17	4.83	3.75	3.33	3.23	3.02	3.03	3.39	7.16	5.61	8.02	4.46
COM	5.77	4.25	3.76	3.25	3.26	2.86	2.97	6.08	8.64	5.37	6.33	4.29

WTR YR 1992 HIGH 2.78 APR 4

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.56	5.86	4.46	3.69	3.45	3.32	3.24	3.30	7.10	9.72	5.46	5.96
10	6.47	5.56	4.27	3.55	3.52	3.22	3.05	3.30	6.42	9.77	5.47	5.50
15	6.34	5.27	4.16	3.66	3.36	3.39	3.14	3.39	7.21	7.63	5.54	5.09
20	6.45	5.10	4.17	3.51	3.47	3.16	2.94	3.48	7.68	6.52	8.95	4.79
25	6.31	4.92	3.83	3.56	3.30	3.11	3.12	3.47	7.29	5.89	8.55	4.66
COM	5.98	4.64	3.86	3.49	3.39	3.06	3.14	6.54	9.99	5.55	6.53	4.47

WTR YR 1992 LOW 11.02 JUL 2

GROUND-WATER DATA

309

JASPER COUNTY

410809087580801. Local number, JP 7.

LOCATION.--Lat 41°08'09", long 86°58'08", in SE¹/₄SE¹/₄NE¹/₄, 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.96	8.88	8.03	7.91	7.87	7.82	7.49	7.59	9.71	13.63	10.01	---
10	9.94	8.84	8.10	7.81	8.04	7.62	7.44	7.76	9.45	13.96	---	---
15	9.75	8.65	8.12	7.80	7.56	7.71	7.49	10.80	9.17	12.47	---	---
20	9.81	8.38	8.21	7.91	7.80	7.60	7.23	---	9.00	11.69	---	---
25	9.58	8.36	8.00	7.88	7.88	7.57	7.51	---	8.97	10.89	---	8.70
EOM	9.15	7.95	8.15	7.85	7.68	7.42	7.44	---	11.98	10.27	---	8.65

WTR YR 1992 HIGH 7.23 APR 20

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.26	9.25	8.41	7.95	7.94	7.83	7.70	7.81	9.79	13.98	10.12	---
10	10.11	9.03	8.18	7.84	8.04	7.70	7.64	8.38	9.63	14.14	---	---
15	9.85	8.71	8.31	7.97	7.88	7.83	7.70	11.31	9.34	12.67	---	---
20	10.04	8.54	8.52	7.95	7.87	7.62	7.37	---	9.10	11.77	---	---
25	9.71	8.52	8.04	7.98	7.90	7.63	7.54	---	9.60	11.21	---	8.90
EOM	9.37	8.38	8.18	7.95	7.82	7.56	7.70	---	12.43	10.47	---	8.83

WTR YR 1992 LOW 14.54 JUL 7

JASPER COUNTY

410535087035801. Local number, JP 8.

LOCATION.--Lat 41°05'35", long 87°03'58", in NE¹/₄NE¹/₄SE¹/₄, 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, 8.52 ft below land-surface datum, Jan. 1, 1991; lowest, 25.11 ft below land-surface datum, July 26, 1980.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.86	12.09	10.93	10.69	---	---	10.49	10.81	11.48	13.33	11.97	12.34
10	12.86	11.97	10.86	---	---	---	10.49	10.91	11.94	13.43	11.83	11.98
15	12.79	11.76	10.73	---	---	10.58	10.58	10.97	12.39	13.02	11.85	11.86
20	12.83	11.50	10.77	---	---	10.49	10.49	11.09	12.66	12.72	11.86	11.69
25	12.70	11.36	10.68	---	---	10.48	10.64	11.28	12.77	12.26	12.12	11.65
EOM	12.29	11.03	10.76	---	---	10.40	10.68	11.32	12.94	11.95	12.36	11.45

WTR YR 1992 HIGH 10.36 APR 4

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.06	12.22	11.07	10.73	---	---	10.56	10.88	11.61	13.43	11.99	12.36
10	12.93	12.05	10.91	---	---	---	10.54	10.94	12.01	13.55	11.89	12.02
15	12.86	11.78	10.80	---	---	10.66	10.67	11.02	12.53	13.09	11.89	11.92
20	12.90	11.58	10.88	---	---	10.52	10.55	11.13	12.72	12.78	11.88	11.78
25	12.82	11.38	10.72	---	---	10.52	10.67	11.35	12.82	12.39	12.21	11.71
EOM	12.40	11.17	10.80	---	---	10.47	10.74	11.40	13.00	12.00	12.39	11.51

WTR YR 1992 LOW 13.59 JUL 9

GROUND-WATER DATA

JASPER COUNTY

410713087063201. Local number, JP 9.

LOCATION.--Lat 41°07'13", long 87°06'32", in NE¹/₄, SW¹/₄, SE¹/₄ 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.59	7.30	6.07	5.74	5.84	5.69	5.46	5.66	8.02	14.47	7.17	8.64
10	8.53	7.10	5.99	5.71	5.96	5.47	5.52	5.73	8.26	14.57	6.97	7.96
15	8.31	6.88	5.90	5.70	5.72	5.60	5.59	5.99	8.35	10.02	7.22	7.46
20	8.32	6.62	5.98	5.82	5.73	5.52	5.35	6.50	8.25	8.74	7.36	7.07
25	8.05	6.43	5.78	5.80	5.68	5.50	5.48	8.32	7.53	7.95	12.27	7.01
EOM	7.62	6.12	5.86	5.80	5.55	5.44	5.52	7.86	7.52	7.37	9.72	6.75

WTR YR 1992 HIGH 5.34 APR 21

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.72	7.47	6.18	5.77	5.88	5.71	5.57	5.72	8.10	16.46	7.19	8.82
10	8.59	7.23	6.00	5.75	5.99	5.53	5.57	5.78	8.28	15.34	7.01	7.96
15	8.34	6.91	5.94	5.80	5.88	5.67	5.71	6.17	8.46	10.45	7.36	7.51
20	8.39	6.67	6.09	5.85	5.78	5.55	5.41	8.17	8.37	8.92	7.38	7.21
25	8.15	6.50	5.83	5.86	5.69	5.54	5.50	8.86	7.58	8.13	14.91	7.08
EOM	7.81	6.26	5.90	5.86	5.68	5.49	5.54	7.95	9.12	7.40	10.07	6.83

WTR YR 1992 LOW 16.60 JUL 4

JASPER COUNTY

410322087163101. Local number, JP 11.

LOCATION.--Lat 41°03'22", long 87°16'31", in NW¹/₄, NW¹/₄, NW¹/₄ 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 680 ft above sea level, from topographic map. 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.92	7.96	---	4.53	3.96	3.38	---	3.00	5.95	19.18	7.32	24.30
10	11.09	7.60	---	4.42	4.02	---	2.95	3.14	4.97	15.57	7.01	15.96
15	10.48	7.18	5.21	4.28	3.74	---	3.01	3.22	6.26	11.16	35.47	12.76
20	9.97	6.71	5.16	4.27	3.63	---	2.73	3.33	6.53	9.23	38.33	10.82
25	9.33	6.40	4.84	4.11	3.63	---	2.91	3.82	5.74	7.88	29.79	9.71
EOM	8.42	---	4.73	4.04	3.39	---	2.88	5.97	19.99	6.93	19.26	10.80

WTR YR 1992 HIGH 2.73 APR 20

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.96	8.18	---	4.59	4.03	3.46	---	3.08	6.40	21.99	7.87	27.08
10	11.29	7.74	---	4.44	4.06	---	3.05	3.21	5.13	17.11	7.20	16.74
15	10.53	7.23	5.30	4.40	3.85	---	3.12	3.26	6.41	11.70	38.51	13.23
20	10.16	6.80	5.34	4.34	3.65	---	2.82	3.35	6.72	9.50	40.39	11.26
25	9.49	6.43	4.84	4.25	3.63	---	2.94	3.90	6.14	8.19	32.78	9.95
EOM	8.66	---	4.83	4.12	3.48	---	2.94	6.25	25.65	6.98	20.81	13.92

WTR YR 1992 LOW 40.80 AUG 19

GROUND-WATER DATA

311

JASPER COUNTY

410145087130401. Local number, JP 12.

LOCATION.--Lat 41°01'45", long 87°13'04", in NW¹/₄/SW¹/₄/SW¹/₄ 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 695ft above sea level, from topographic map. 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	27.73	23.41	20.70	19.08	18.19	17.50	17.07	16.91	18.08	25.50	25.21	---
10	26.91	22.99	20.44	18.89	18.18	17.23	16.89	17.03	18.53	28.02	23.13	---
15	26.15	22.44	20.16	18.64	17.72	17.34	16.92	17.04	18.43	25.76	---	---
20	25.56	21.92	19.90	18.57	17.78	17.18	16.72	17.21	18.66	24.25	---	---
25	24.80	21.66	19.61	18.41	17.71	17.13	16.85	17.22	18.48	22.97	---	25.15
COM	23.95	21.00	19.43	18.30	17.61	16.96	16.77	17.50	20.69	21.95	---	25.16

WTR YR 1992 HIGH 16.72 APR 20

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	27.86	23.70	21.05	19.23	18.33	17.64	17.30	17.11	18.27	25.75	26.78	---
10	27.11	23.15	20.56	18.97	18.33	17.46	17.03	17.21	18.75	28.64	23.59	---
15	26.23	22.56	20.39	18.88	18.02	17.53	17.12	17.22	18.69	26.03	---	---
20	25.76	22.12	20.20	18.74	17.97	17.34	16.87	17.45	18.79	24.50	---	---
25	25.05	21.81	19.68	18.66	17.77	17.22	16.96	17.37	18.65	23.29	---	25.45
COM	24.19	21.30	19.52	18.41	17.75	17.13	17.02	17.79	22.21	22.09	---	26.29

WTR YR 1992 LOW 29.07 JUL 9

JASPER COUNTY

405902087141501. Local number, JP 13.

LOCATION.--Lat 40°59'02", long 87°14'15", in NW¹/₄/NW¹/₄/NW¹/₄ 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	37.85	33.12	30.12	28.06	26.87	26.06	25.47	25.11	25.48	31.84	30.17	38.44
10	36.87	32.64	29.79	27.86	26.85	25.72	25.24	25.18	26.06	33.72	30.57	37.72
15	36.05	32.08	29.45	27.57	26.32	25.87	25.20	25.16	26.19	32.96	32.81	36.50
20	35.40	31.50	29.14	27.46	26.43	25.70	24.99	25.29	26.52	32.23	37.81	35.16
25	34.62	31.24	28.79	27.20	26.32	25.56	25.12	25.28	26.55	31.30	39.38	34.32
COM	33.66	30.48	28.53	27.01	26.24	25.37	25.02	25.39	27.50	30.52	39.27	33.40

WTR YR 1992 HIGH 24.95 MAY 1

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	38.00	33.47	30.50	28.23	27.03	26.19	25.60	25.25	25.62	32.10	30.31	38.59
10	37.13	32.85	29.95	27.89	26.96	25.92	25.38	25.29	26.20	33.81	30.74	37.91
15	36.15	32.16	29.59	27.80	26.59	26.04	25.40	25.29	26.35	33.10	34.22	36.73
20	35.66	31.65	29.42	27.57	26.61	25.78	25.10	25.38	26.63	32.35	38.72	35.50
25	34.82	31.33	28.87	27.43	26.36	25.66	25.19	25.33	26.67	31.55	39.57	34.67
COM	33.93	30.79	28.61	27.17	26.38	25.54	25.14	25.56	28.11	30.62	39.38	33.62

WTR YR 1992 LOW 39.59 AUG 28

GROUND-WATER DATA

JASPER COUNTY

410839087130301. Local number, JP 14.

LOCATION.--Lat 41°08'39", long 87°13'03", in NW¹/₄NW¹/₄NW¹/₄ 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, 3.93 ft below land-surface datum, Dec. 29, 1990; lowest, 8.80 ft below land-surface datum, July 13, 1989.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.23	5.65	5.24	5.76	5.78	5.74	5.74	5.83	6.15	6.47	5.49	6.83
10	7.02	5.83	5.48	5.84	5.90	5.39	5.67	5.88	5.84	6.22	5.70	5.17
15	7.04	5.84	5.34	5.85	5.69	5.55	5.68	5.91	6.02	6.05	6.03	5.70
20	7.11	5.12	5.57	5.70	5.35	5.36	5.37	6.00	6.09	6.04	6.33	5.69
25	6.75	5.55	5.65	5.70	5.52	5.45	5.55	---	6.18	5.55	6.56	5.57
EOM	5.35	5.26	5.76	5.82	5.69	5.48	5.67	6.24	6.35	5.04	6.74	5.46

WTR YR 1992 HIGH 5.04 JUL 31

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.38	5.74	5.44	5.80	5.87	5.78	5.80	5.92	6.17	6.54	5.55	6.87
10	7.07	5.86	5.53	5.87	5.98	5.55	5.79	5.95	5.86	6.61	5.77	5.32
15	7.09	5.92	5.51	5.99	5.85	5.62	5.81	5.94	6.10	6.10	6.08	5.76
20	7.15	5.51	5.65	5.89	5.49	5.43	5.48	6.03	6.14	6.08	6.38	5.96
25	7.16	5.59	5.69	5.91	5.55	5.51	5.60	---	6.21	5.71	6.59	5.64
EOM	5.40	5.43	5.80	5.94	5.80	5.55	5.76	6.27	6.39	5.32	6.79	5.51

WTR YR 1992 LOW 7.78 OCT 1

JEFFERSON COUNTY

384949085251901. Local number, JF 5.

LOCATION.--Lat 38°49'49", long 85°25'19", in SE¹/₄NW¹/₄SW¹/₄ 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.97	8.29	8.06	6.26	5.70	6.01	5.28	5.72	5.81	5.69	5.11	5.38
10	8.06	8.28	7.80	6.08	5.71	5.65	5.37	5.86	5.93	5.65	4.98	5.36
15	8.13	8.34	7.41	5.96	5.67	5.87	5.48	5.91	5.96	5.45	5.02	5.59
20	8.23	8.37	7.15	5.81	5.71	5.47	5.36	5.93	5.90	5.39	5.07	5.58
25	8.26	8.50	6.91	5.73	5.71	5.52	5.44	5.91	5.66	5.16	5.24	5.63
EOM	8.26	8.36	6.67	5.64	5.72	5.31	5.49	6.03	5.71	4.96	5.34	5.67

WTR YR 1992 HIGH 4.92 JUL 30

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.27	8.42	8.35	6.38	5.76	6.04	5.47	5.78	5.94	5.81	5.22	5.46
10	8.20	8.37	7.85	6.14	5.71	5.82	5.38	5.87	6.06	5.81	5.12	5.56
15	8.22	8.39	7.60	6.15	5.72	5.94	5.53	5.92	6.11	5.61	5.11	5.64
20	8.25	8.46	7.41	5.89	5.71	5.71	5.44	5.98	5.96	5.46	5.14	5.70
25	8.27	8.56	6.94	5.93	5.72	5.63	5.45	5.97	5.81	5.36	5.38	5.77
EOM	8.32	8.50	6.70	5.75	5.72	5.37	5.56	6.19	5.88	5.12	5.40	5.82

WTR YR 1992 LOW 8.62 NOV 26

JENNINGS COUNTY

385601085365701. Local number, JN 3.

LOCATION.--Lat 38°56'01", long 85°36'57", in SE¹/₄SW¹/₄NE¹/₄ 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	40.17	40.50	40.22	39.67	39.74	39.88	39.25	39.34	39.59	39.45	39.25	39.39
10	40.31	40.46	40.18	39.69	40.01	39.49	39.22	39.50	39.80	39.63	38.91	39.37
15	40.31	40.50	40.11	39.69	39.58	39.72	39.13	39.58	39.87	39.20	39.30	39.43
20	40.51	40.43	40.17	39.72	39.82	39.50	38.86	39.74	39.31	39.07	39.51	---
25	40.45	40.61	39.93	39.65	39.73	39.43	39.05	39.70	39.33	38.92	39.74	39.60
COM	40.37	40.42	39.98	39.62	39.70	39.17	39.10	39.83	39.69	38.92	39.15	39.68

WTR YR 1992 HIGH 38.72 JUL 27

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	40.39	40.65	40.43	39.73	39.80	39.95	39.42	39.46	39.67	39.56	39.38	39.43
10	40.42	40.58	40.24	39.78	40.10	39.70	39.34	39.58	39.85	39.68	39.03	39.52
15	40.39	40.54	40.22	39.84	39.75	39.86	39.24	39.66	39.96	39.27	39.35	39.53
20	40.58	40.49	40.38	39.78	39.93	39.56	38.94	39.76	39.35	39.13	39.58	---
25	40.47	40.71	39.98	39.84	39.76	39.55	39.10	39.74	39.44	39.05	39.79	39.67
COM	40.49	40.60	40.01	39.73	39.97	39.30	39.20	39.87	39.73	39.05	39.29	39.73

WTR YR 1992 LOW 40.75 NOV 26

KNOX COUNTY

383247087361001. Local number, KN 7.

LOCATION.--Lat 38°32'47", long 87°36'10", in SE¹/₄SE¹/₄NW¹/₄ 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.59	10.14	8.60	8.98	9.54	9.69	9.14	9.20	9.31	9.86	9.25	10.21
10	10.60	10.18	8.96	9.11	9.64	9.70	9.34	9.40	9.48	9.91	9.18	10.23
15	10.61	10.22	8.63	9.04	9.63	9.84	9.46	9.11	9.58	9.67	9.71	10.26
20	10.63	6.93	9.02	9.09	9.63	9.61	9.02	8.58	9.69	9.60	9.93	10.27
25	10.63	8.13	8.81	9.28	9.41	9.53	9.11	8.70	9.68	9.53	10.07	10.27
COM	10.07	8.75	9.09	9.43	9.57	9.03	9.13	9.12	9.79	9.39	10.16	10.18

WTR YR 1992 HIGH 6.71 NOV 21

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.59	10.15	8.67	9.00	9.56	9.70	9.22	9.28	9.36	9.88	9.28	10.22
10	10.60	10.18	9.02	9.15	9.66	9.80	9.36	9.44	9.50	9.92	9.34	10.24
15	10.62	10.23	8.73	9.11	9.69	9.86	9.48	9.19	9.61	9.88	9.78	10.27
20	10.63	9.88	9.05	9.17	9.68	9.65	9.15	8.71	9.72	9.61	9.97	10.30
25	10.63	8.35	8.86	9.37	9.45	9.55	9.14	8.78	9.70	9.64	10.09	10.27
COM	10.08	8.92	9.12	9.47	9.63	9.20	9.15	9.18	9.80	9.40	10.17	10.19

WTR YR 1992 LOW 10.63 OCT 19

GROUND-WATER DATA

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, 12.00 ft below land-surface datum, Feb. 22, 1990; lowest, 15.32 ft below land-surface datum, Oct. 19, 1991.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.02	14.96	13.96	13.47	13.33	13.27	13.14	13.14	13.01	13.41	13.35	13.80
10	15.13	14.97	13.92	13.42	13.43	13.16	13.15	13.18	13.15	13.51	13.37	13.79
15	15.12	14.99	13.90	13.35	13.20	13.32	13.18	13.17	13.16	13.46	13.52	13.91
20	15.29	14.57	13.91	13.36	13.29	13.24	12.97	13.18	13.23	13.47	13.58	13.88
25	15.29	14.20	13.70	13.31	13.25	13.23	13.10	13.07	13.20	13.23	13.71	13.93
EOM	14.89	14.05	13.66	13.32	13.21	13.14	13.08	13.08	13.33	13.21	13.68	14.00

WTR YR 1992 HIGH 12.97 APR 20

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.11	15.04	14.08	13.52	13.38	13.32	13.24	13.20	13.05	13.43	13.39	13.82
10	15.16	15.03	13.95	13.46	13.47	13.27	13.18	13.22	13.19	13.55	13.40	13.85
15	15.17	15.01	13.94	13.43	13.31	13.39	13.23	13.21	13.21	13.51	13.54	13.95
20	15.32	14.89	14.01	13.39	13.34	13.28	13.04	13.21	13.27	13.48	13.62	13.97
25	15.30	14.25	13.72	13.41	13.27	13.29	13.12	13.10	13.25	13.31	13.75	13.96
EOM	14.97	14.15	13.68	13.37	13.33	13.20	13.12	13.14	13.37	13.30	13.74	14.03

WTR YR 1992 LOW 15.32 OCT 19

KOSCIUSKO COUNTY

412556085513401. Local number, KO 9.

LOCATION.--Lat 41°25'56", long 85°51'34", in SW¹/₄, E²/₄, NW¹/₄, 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.41	13.09	12.43	12.23	12.29	12.18	11.79	11.76	12.22	12.76	12.68	13.32
10	13.41	12.96	12.36	12.26	12.31	12.14	11.68	11.84	12.27	13.04	12.70	13.20
15	13.43	12.89	12.32	12.28	12.29	12.13	11.65	11.87	12.32	13.03	12.78	13.04
20	13.47	12.85	12.27	12.30	12.29	12.08	11.63	11.97	12.37	12.83	12.96	12.94
25	13.50	12.74	12.25	12.31	12.25	12.02	11.66	12.05	12.41	12.72	13.23	12.84
EOM	13.31	12.55	12.24	12.29	12.22	11.90	11.69	12.15	12.57	12.69	13.28	12.74

WTR YR 1992 HIGH 11.63 APR 19

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.41	13.14	12.46	12.24	12.30	12.19	11.82	11.79	12.23	12.80	12.68	13.32
10	13.41	12.98	12.37	12.27	12.33	12.15	11.71	11.86	12.28	13.06	12.71	13.30
15	13.44	12.90	12.32	12.29	12.31	12.13	11.67	11.88	12.33	13.07	12.81	13.06
20	13.48	12.87	12.29	12.33	12.30	12.09	11.64	11.99	12.38	12.86	13.02	12.96
25	13.51	12.76	12.25	12.32	12.26	12.04	11.67	12.06	12.43	12.74	13.26	12.86
EOM	13.35	12.57	12.25	12.30	12.24	11.93	11.71	12.17	12.63	12.70	13.29	12.76

WTR YR 1992 LOW 13.51 OCT 23

GROUND-WATER DATA

315

LAGRANGE COUNTY

414318085200601. Local number, LG 2.

LOCATION.--Lat 41°43'18", long 85°20'06", in SW¹/₄/SE¹/₄/NE¹/₄, 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, 10.99 ft below land-surface datum, Apr. 3, 1982; lowest, 16.93 ft below land-surface datum, Aug. 14, 15, 1988.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.24	15.21	14.86	14.63	14.69	14.70	14.51	14.36	14.50	15.05	14.41	14.65
10	15.29	15.16	14.81	14.61	14.70	14.65	14.46	14.38	14.56	15.29	14.31	14.60
15	15.33	15.13	14.77	14.61	14.68	14.68	14.43	14.40	14.68	15.21	14.38	14.61
20	15.37	15.10	14.74	14.60	14.71	14.64	14.39	14.43	14.66	15.11	14.50	14.59
25	15.38	15.07	14.70	14.63	14.71	14.60	14.38	14.45	14.68	14.82	14.76	14.59
DOM	15.32	14.97	14.67	14.66	14.70	14.55	14.36	14.48	14.79	14.57	14.69	14.59

WTR YR 1992 HIGH 14.31 AUG 10

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.27	15.23	14.88	14.64	14.70	14.71	14.53	14.37	14.51	15.06	14.43	14.66
10	15.30	15.17	14.82	14.62	14.72	14.67	14.47	14.39	14.57	15.30	14.33	14.62
15	15.34	15.13	14.79	14.62	14.70	14.69	14.44	14.41	14.70	15.25	14.48	14.62
20	15.38	15.12	14.76	14.63	14.73	14.65	14.41	14.44	14.67	15.13	14.54	14.61
25	15.41	15.07	14.71	14.65	14.71	14.61	14.38	14.45	14.68	14.88	14.79	14.60
DOM	15.36	14.98	14.67	14.68	14.72	14.56	14.37	14.49	14.87	14.60	14.70	14.60

WTR YR 1992 LOW 15.41 OCT 24

LAGRANGE COUNTY

414158085253401. Local number, LG 3.

LOCATION.--Lat 41°41'58", long 85°25'34", in SE¹/₄/SE¹/₄/SE¹/₄, 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.31	7.40	6.90	7.04	7.13	7.06	6.55	6.99	7.24	7.54	6.33	7.12
10	8.31	7.40	6.88	7.06	7.16	6.98	6.62	7.06	7.28	7.64	6.47	6.89
15	8.33	7.43	6.81	7.09	7.14	6.77	6.74	7.13	7.33	7.34	6.60	6.79
20	8.35	7.31	6.81	7.10	7.07	6.65	6.81	7.06	7.25	7.14	6.77	6.91
25	8.14	6.99	6.87	7.10	7.02	6.61	6.88	7.14	7.35	6.58	6.96	6.91
DOM	7.50	6.92	7.00	7.10	7.01	6.54	6.93	7.18	7.42	6.25	7.02	6.98

WTR YR 1992 HIGH 6.25 JUL 31

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.33	7.41	6.92	7.04	7.14	7.07	6.57	7.01	7.26	7.56	6.38	7.17
10	8.33	7.40	6.89	7.07	7.17	7.06	6.63	7.09	7.29	7.66	6.50	7.04
15	8.34	7.45	6.82	7.10	7.20	6.79	6.75	7.14	7.34	7.47	6.63	6.81
20	8.36	7.49	6.83	7.13	7.09	6.67	6.82	7.09	7.28	7.16	6.81	6.94
25	8.37	7.01	6.90	7.12	7.03	6.63	6.89	7.15	7.37	6.67	6.99	6.93
DOM	7.53	6.94	7.01	7.12	7.03	6.55	6.94	7.20	7.44	6.27	7.07	7.00

WTR YR 1992 LOW 8.38 OCT 2

GROUND-WATER DATA

LAKE COUNTY

411038087284701. Local number, LK 12.

LOCATION.--Lat 41°10'38", long 87°28'47", in SW¹/₄NE¹/₄SW¹/₄ 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.17	6.87	5.29	4.67	4.26	3.86	3.55	3.63	7.69	9.81	7.58	11.75
10	8.95	6.73	5.23	4.64	4.30	3.72	3.57	3.72	8.26	10.67	7.32	10.56
15	8.57	6.48	5.04	4.53	4.11	3.69	3.62	3.83	9.08	10.42	8.20	9.65
20	8.27	6.06	4.98	4.43	3.94	3.61	3.50	4.03	9.05	9.60	9.37	9.02
25	8.04	5.84	4.87	4.30	3.89	3.55	3.52	4.25	8.31	8.70	10.83	8.56
EOM	7.16	5.59	4.81	4.33	3.90	3.50	3.53	6.09	8.64	7.97	11.88	8.09

WTR YR 1992 HIGH 3.45 APR 4

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.51	7.01	5.46	4.87	4.40	4.06	3.71	3.83	8.02	10.01	7.76	12.01
10	9.09	7.05	5.40	4.83	4.46	3.96	3.73	3.91	8.32	10.78	7.55	10.93
15	8.79	6.66	5.27	4.78	4.34	3.84	3.80	3.88	9.35	10.68	8.48	9.93
20	8.49	6.27	5.20	4.65	4.11	3.87	3.65	4.23	9.24	9.73	9.73	9.19
25	8.21	5.97	5.00	4.56	4.08	3.74	3.56	4.46	8.57	9.02	11.57	8.74
EOM	7.35	5.81	5.01	4.58	4.08	3.68	3.67	6.44	8.87	8.24	11.98	8.24

WTR YR 1992 LOW 12.09 SEP 1

LAKE COUNTY

413559087270301. Local number, LK 13.

LOCATION.--Lat 41°35'59", long 87°27'03", in SW¹/₄NW¹/₄SW¹/₄ sec.34, 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, 3.50 ft above land-surface datum.

PERIOD OF RECORD.--July 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.01 ft below land-surface datum, Apr. 15, 1991; lowest, 5.15 ft below land-surface datum, Sept. 10, 1986.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	2.77	2.18	1.01	1.56	1.52	.98	1.18	1.63	2.56	3.76	3.94	4.54
10	3.52	2.23	1.07	1.55	1.75	.72	1.29	1.94	3.08	3.88	4.14	2.24
15	3.54	1.55	1.13	1.65	.83	1.05	.74	2.09	2.57	3.35	4.15	3.45
20	3.58	1.12	1.36	1.83	1.08	1.16	1.06	2.51	3.27	3.79	4.32	3.74
25	3.17	1.65	1.29	1.50	.89	1.09	1.12	2.69	3.44	3.72	4.47	3.83
EOM	1.91	.58	1.46	1.54	1.24	.97	1.32	2.60	3.66	3.35	4.45	3.79

WTR YR 1992 HIGH .55 MAR 6

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	3.30	2.26	1.22	1.57	1.56	1.39	1.21	1.72	2.76	3.93	4.13	4.71
10	3.59	2.34	1.11	1.60	1.86	.93	1.33	2.03	3.26	4.07	4.33	3.07
15	3.58	1.84	1.17	1.65	1.43	1.10	1.32	2.23	2.95	3.57	4.32	3.68
20	3.60	1.40	1.42	1.93	1.13	1.20	1.10	2.67	3.38	3.98	4.50	3.84
25	3.53	1.73	1.38	1.59	1.11	1.09	1.19	2.77	3.62	3.80	4.65	3.96
EOM	2.08	1.09	1.49	1.57	1.28	1.08	1.36	2.89	3.81	3.58	4.65	3.95

WTR YR 1992 LOW 4.83 OCT 2

GROUND-WATER DATA

317

LAKE COUNTY

411146087204101. Local number, LK 14.

LOCATION.--Lat 41°11'46", long 87°20'41", in SE¹/₄SE¹/₄NW¹/₄ 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, 6.19 ft below land-surface datum, Mar. 27, 1991; lowest, 22.86 ft below land-surface datum, July 28, 1991.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.04	10.07	8.74	8.80	9.18	8.94	8.97	9.35	9.86	11.77	9.75	12.70
10	11.04	9.90	8.70	8.88	9.28	8.83	8.97	9.43	9.71	12.01	9.70	11.17
15	11.02	9.80	8.61	8.94	9.08	8.93	9.04	10.37	9.69	10.54	12.01	10.23
20	11.03	9.59	8.61	9.10	9.12	8.89	9.00	10.29	9.78	10.14	13.54	9.81
25	10.96	9.34	8.64	9.05	9.00	8.87	9.19	10.68	9.68	9.84	13.15	9.76
ECM	10.48	8.94	8.79	9.10	8.96	8.84	9.22	10.60	13.10	9.72	12.02	9.74

WTR YR 1992 HIGH 8.48 DEC 23

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.19	10.27	8.96	8.88	9.26	9.01	9.04	9.45	9.90	12.32	9.79	12.81
10	11.12	9.98	8.77	8.92	9.33	8.93	9.07	9.49	9.82	12.40	12.04	11.35
15	11.06	9.84	8.70	9.07	9.24	9.04	9.15	10.52	9.76	10.68	13.49	10.36
20	11.12	9.69	8.75	9.18	9.25	8.93	9.04	10.44	9.82	10.19	13.63	9.95
25	11.07	9.40	8.68	9.19	9.02	8.93	9.24	11.03	11.95	9.96	13.68	9.84
ECM	10.64	9.13	8.85	9.23	9.02	8.92	9.29	11.02	14.58	9.82	14.18	9.81

WTR YR 1992 LOW 15.69 AUG 23

LA PORTE COUNTY

413700086445401. Local number, LP 8.

LOCATION.--Lat 41°37'00", long 86°44'54", in NE¹/₄SE¹/₄NW¹/₄ 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 3.0 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, 1.84 ft below land-surface datum, May 24, 25, 1983; lowest, 7.04 ft below land-surface datum, Mar. 8-11, 1978.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	3.71	3.66	2.92	3.81	3.71	3.53	3.23	3.21	3.36	3.88	3.85	4.00
10	4.39	3.67	2.88	3.76	3.73	3.12	3.17	3.27	3.54	3.95	3.90	3.28
15	4.21	3.22	3.80	3.77	3.25	3.32	2.97	3.31	3.63	3.63	3.95	3.81
20	4.28	2.77	3.82	3.70	3.50	3.31	2.96	3.37	3.65	3.58	4.00	3.60
25	3.22	3.24	3.76	3.74	3.23	3.27	3.12	3.44	3.76	3.52	4.08	3.87
ECM	3.32	2.63	3.81	3.74	3.56	3.09	3.13	3.53	3.88	3.34	4.11	3.78

WTR YR 1992 HIGH 2.63 NOV 30

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.34	3.68	2.98	3.81	3.71	3.53	3.25	3.23	3.49	3.92	3.86	4.00
10	4.40	3.68	2.89	3.78	3.76	3.27	3.22	3.28	3.55	3.98	3.92	3.71
15	4.31	3.55	3.81	3.81	3.63	3.34	3.29	3.32	3.67	3.78	3.96	3.81
20	4.30	3.11	3.87	3.76	3.53	3.36	3.07	3.40	3.68	3.85	4.01	3.88
25	4.10	3.26	3.78	3.75	3.46	3.28	3.12	3.45	3.81	3.80	4.09	3.90
ECM	3.52	2.98	3.81	3.74	3.57	3.19	3.17	3.55	3.88	3.70	4.12	3.78

WTR YR 1992 LOW 4.91 OCT 2

GROUND-WATER DATA

LA PORTE COUNTY

412350086512801. Local number, LP 9.

LOCATION.--Lat 41°23'50", long 86°51'28", in SE¹/₄/SW¹/₄/NE¹/₄, 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.68	5.68	---	5.29	5.66	5.29	3.76	4.56	5.80	6.47	6.93	7.60
10	7.64	5.65	4.62	5.40	5.76	2.32	3.82	4.83	5.96	6.58	7.03	7.30
15	7.63	5.73	4.58	5.49	5.68	2.77	3.71	5.01	6.06	6.65	7.16	7.11
20	7.64	4.88	4.81	5.54	5.33	3.05	3.79	5.20	6.13	6.72	7.27	7.08
25	7.48	4.64	5.01	5.60	5.18	3.22	4.14	5.38	6.22	6.79	7.39	6.79
EOM	6.20	4.41	5.23	5.71	5.23	3.36	4.33	5.64	6.35	6.85	---	6.43

WTR YR 1992 HIGH 2.32 MAR 10

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.88	5.75	---	5.32	5.70	5.31	3.82	4.65	5.84	6.50	6.95	7.61
10	7.66	5.67	4.67	5.44	5.81	2.52	3.94	4.87	5.98	6.61	7.05	7.44
15	7.64	5.78	4.72	5.58	5.77	2.93	4.13	5.04	6.09	6.66	7.17	7.13
20	7.66	5.55	4.88	5.65	5.39	3.20	3.90	5.24	6.16	6.74	7.30	7.09
25	7.67	4.69	5.05	5.70	5.22	3.29	4.21	5.40	6.24	6.80	7.42	6.82
EOM	6.51	4.56	5.25	5.77	5.28	3.45	4.42	5.70	6.38	6.87	---	6.48

WTR YR 1992 LOW 7.93 OCT 2

LA PORTE COUNTY

413139086341401. Local number, LP 10.

LOCATION.--Lat 41°31'40", long 86°34'10", in SE¹/₄/SW¹/₄/NE¹/₄, 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.09	8.09	7.41	7.68	7.47	6.88	6.23	7.54	8.18	8.61	8.59	8.93
10	8.99	8.05	7.44	7.76	7.48	5.41	6.35	7.63	8.15	8.69	8.70	8.46
15	8.98	8.00	7.29	7.81	7.19	6.07	6.76	7.78	8.26	8.63	8.76	8.31
20	8.99	7.85	7.39	7.78	6.63	6.56	6.89	7.94	8.37	8.49	8.84	8.28
25	8.90	7.74	7.39	7.59	6.59	6.16	7.21	8.00	8.45	8.52	8.92	8.25
EOM	8.30	7.58	7.64	7.50	6.76	5.69	7.33	8.15	8.53	8.51	8.93	8.08

WTR YR 1992 HIGH 5.40 MAR 11

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.19	8.13	7.49	7.71	7.52	6.93	6.33	7.60	8.19	8.63	8.62	8.94
10	8.99	8.06	7.46	7.78	7.53	5.92	6.51	7.65	8.17	8.70	8.72	8.58
15	8.98	8.02	7.36	7.87	7.47	6.28	6.84	7.82	8.28	8.67	8.77	8.32
20	9.00	7.95	7.46	7.85	6.76	6.69	6.94	7.96	8.40	8.49	8.86	8.31
25	9.00	7.75	7.45	7.65	6.65	6.24	7.27	8.02	8.47	8.53	8.93	8.25
EOM	8.40	7.62	7.66	7.54	6.86	5.78	7.39	8.16	8.55	8.52	8.95	8.09

WTR YR 1992 LOW 9.31 OCT 1

GROUND-WATER DATA

319

LA PORTE COUNTY

412839086533101. Local number, LP 11.

LOCATION.--Lat 41°28'39", long 86°53'31", in SW¹/₄, SW¹/₄, SW¹/₄, 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.35	5.62	4.92	5.39	5.85	5.65	5.39	5.98	6.67	7.49	8.36	9.17
10	7.15	5.77	4.96	5.50	5.91	5.31	5.42	6.09	6.83	7.63	8.48	9.09
15	7.22	5.90	4.79	5.56	5.86	5.30	5.57	6.19	6.95	7.76	8.65	9.18
20	7.43	5.42	4.94	5.63	5.75	5.25	5.64	6.31	7.07	7.91	8.78	9.26
25	7.33	5.17	5.10	5.72	5.60	5.24	5.79	6.40	7.20	8.05	8.92	9.20
EOM	5.85	5.11	5.31	5.80	5.59	5.25	5.86	6.58	7.35	8.19	9.06	8.88

WTR YR 1992 HIGH 4.77 DEC 17

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.47	5.69	5.05	5.41	5.91	5.67	5.43	6.04	6.71	7.54	8.39	9.18
10	7.21	5.80	5.01	5.53	5.96	5.37	5.49	6.11	6.86	7.70	8.51	9.14
15	7.30	5.96	4.86	5.67	5.95	5.33	5.67	6.22	6.99	7.81	8.67	9.21
20	7.46	5.88	4.99	5.77	5.89	5.29	5.69	6.34	7.11	7.96	8.81	9.27
25	7.55	5.20	5.15	5.84	5.62	5.29	5.82	6.42	7.23	8.08	8.94	9.22
EOM	6.19	5.19	5.33	5.88	5.65	5.29	5.91	6.61	7.37	8.26	9.09	8.97

WTR YR 1992 LOW 9.28 SEP 19

LA PORTE COUNTY

413434086434701. Local number, LP 12.

LOCATION.--Lat 41°34'34", long 86°43'47", in NE¹/₄, NE¹/₄, NW¹/₄, 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..

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.12	18.05	17.89	17.65	18.12	18.15	17.70	17.57	18.17	18.65	19.12	19.69
10	18.12	18.02	17.82	17.69	18.20	18.04	17.56	17.64	18.29	18.75	19.18	19.73
15	18.13	18.00	17.75	17.78	18.18	18.01	17.52	17.72	18.32	18.83	19.29	19.72
20	18.25	18.04	17.71	17.83	18.29	17.91	17.45	17.84	18.36	18.90	19.38	19.66
25	18.31	18.07	17.69	17.95	18.29	17.82	17.49	17.94	18.40	18.98	19.51	19.68
EOM	18.23	17.95	17.69	18.04	18.24	17.72	17.48	18.10	18.53	19.04	19.63	19.71

WTR YR 1992 HIGH 17.45 APR 20

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.17	18.13	17.97	17.66	18.13	18.18	17.73	17.63	18.21	18.67	19.13	19.70
10	18.15	18.04	17.85	17.72	18.21	18.07	17.61	17.67	18.29	18.77	19.20	19.74
15	18.17	18.04	17.80	17.84	18.26	18.02	17.58	17.74	18.34	18.85	19.31	19.72
20	18.25	18.08	17.78	17.91	18.33	17.93	17.48	17.87	18.38	18.92	19.39	19.66
25	18.32	18.09	17.71	18.01	18.30	17.85	17.49	17.96	18.42	18.98	19.54	19.68
EOM	18.33	18.04	17.69	18.08	18.28	17.76	17.51	18.13	18.56	19.07	19.64	19.71

WTR YR 1992 LOW 19.75 SEP 11

GROUND-WATER DATA

MARION COUNTY

393855086120701. Local number, MA 34.

LOCATION.--Lat 39°38'55", long 86°12'07", in NE¹/₄NW¹/₄NE¹/₄ 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, 2.72 ft below land-surface datum, Dec. 30, 1990; lowest, 8.84 ft below land-surface datum, Nov. 23-25, 1987.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.70	7.17	7.34	6.89	6.78	6.72	6.29	5.48	6.09	4.83	4.68	5.74
10	7.76	6.98	7.04	6.93	6.86	6.63	6.06	5.58	6.04	4.33	4.89	5.60
15	7.80	6.82	6.89	6.63	6.58	6.71	6.16	5.68	6.22	4.06	5.12	5.94
20	7.84	6.79	6.89	6.78	6.48	6.40	4.96	5.80	5.60	4.93	5.35	6.07
25	7.85	7.16	6.67	6.67	6.61	6.51	5.21	5.94	5.66	4.69	5.52	6.12
EOM	7.40	7.06	6.85	6.73	6.68	6.37	5.33	6.05	5.87	3.95	5.60	6.19

WTR YR 1992 HIGH 3.83 JUL 30

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.74	7.20	7.38	6.89	6.79	6.74	6.31	5.52	6.15	5.85	4.74	5.78
10	7.77	7.02	7.09	6.94	6.88	6.70	6.27	5.62	6.10	5.37	4.95	5.80
15	7.81	6.86	6.94	6.69	6.86	6.74	6.19	5.71	6.25	4.94	5.17	5.98
20	7.85	7.80	6.91	6.81	6.50	6.42	5.06	5.83	5.68	4.98	5.40	6.09
25	7.89	7.24	6.72	6.73	6.63	6.53	5.25	5.97	5.73	4.78	5.56	6.16
EOM	7.42	7.28	6.86	6.76	6.70	6.39	5.38	6.11	5.92	4.33	5.64	6.21

WTR YR 1992 LOW 7.89 OCT 24

MARION COUNTY

394632086092701. Local number, MA 35.

LOCATION.--Lat 39°46'32", long 86°09'27", in NW¹/₄SW¹/₄NW¹/₄ 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.

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, 36.95 ft below land-surface datum, Sept. 25, 1987.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	33.10	32.64	32.17	32.39	32.68	32.65	32.37	32.37	32.92	33.27	33.08	33.49
10	33.14	32.56	32.10	32.44	32.71	32.58	32.50	32.35	33.04	33.31	33.34	33.61
15	33.22	32.48	32.02	32.59	32.65	32.60	32.44	32.51	33.19	33.21	33.25	33.56
20	33.14	32.41	31.85	32.79	32.60	32.54	32.54	32.77	33.22	33.10	33.41	33.52
25	32.48	32.33	32.09	32.84	32.62	32.49	32.47	32.69	33.20	33.22	33.43	33.47
EOM	32.72	32.25	32.34	32.73	32.62	32.40	32.36	32.54	33.27	33.19	33.26	33.30

WTR YR 1992 HIGH 31.85 DEC 20

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	33.27	32.66	32.19	32.42	32.71	32.75	32.40	32.42	33.17	33.56	33.36	33.75
10	33.25	32.58	32.11	32.55	32.77	32.64	32.76	32.42	33.28	33.50	33.55	33.88
15	33.28	32.50	32.03	32.66	32.69	32.67	32.70	32.81	33.52	33.51	33.43	33.90
20	33.21	32.42	31.92	32.83	32.63	32.57	32.85	33.04	33.60	33.45	33.71	33.73
25	32.82	32.35	32.14	32.89	32.67	32.54	32.58	32.79	33.46	33.44	33.76	33.75
EOM	32.73	32.27	32.40	32.77	32.65	32.44	32.49	32.62	33.61	33.48	33.59	33.38

WTR YR 1992 LOW 34.06 SEP 18

GROUND-WATER DATA

321

MARION COUNTY

394626086100201. Local number, MA 36.

LOCATION.--Lat 39°46'26", long 86°10'02", in SW¹/₄SW¹/₄NE¹/₄ 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, 33.12 ft below land-surface datum, Sept. 24, 25, 1987.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	29.58	29.50	29.07	28.91	29.21	29.20	29.01	28.79	29.06	29.45	29.03	29.42
10	29.55	29.43	28.98	28.97	29.22	29.20	28.95	28.81	29.12	29.26	29.03	29.52
15	29.56	29.37	28.89	29.01	29.17	29.26	28.97	28.86	29.19	29.19	29.10	29.59
20	29.56	29.28	28.84	29.10	29.17	29.18	28.91	28.93	29.29	29.13	29.16	29.70
25	29.57	29.21	28.87	29.18	29.17	29.11	28.88	29.03	29.36	29.05	29.25	29.79
COM	29.60	29.14	28.87	29.22	29.21	29.03	28.81	29.05	29.40	29.03	29.34	29.85

WTR YR 1992 HIGH 28.79 MAY 1

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	29.59	29.52	29.08	28.92	29.23	29.21	29.02	28.80	29.08	29.45	29.03	29.44
10	29.57	29.45	29.00	28.99	29.24	29.24	28.96	28.82	29.12	29.26	29.03	29.53
15	29.57	29.39	28.91	29.04	29.19	29.26	28.98	28.88	29.21	29.20	29.12	29.61
20	29.57	29.30	28.87	29.12	29.19	29.19	28.93	28.95	29.31	29.14	29.18	29.72
25	29.58	29.24	28.88	29.21	29.18	29.12	28.89	29.04	29.37	29.07	29.26	29.85
COM	29.61	29.17	28.88	29.24	29.22	29.05	28.81	29.06	29.40	29.03	29.36	29.85

WTR YR 1992 LOW 29.85 SEP 25

MARION COUNTY

394732086115501. Local number, MA 37.

LOCATION.--Lat 39°47'32", long 86°11'55", in SE¹/₄NE¹/₄NE¹/₄ sec. 33, T.16N., R.3W., 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.

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, 13.73 ft below land-surface datum, June 20, 1992.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.38	5.89	6.89	5.85	5.99	6.19	5.82	5.78	6.45	5.72	5.45	6.16
10	6.29	7.59	5.83	5.91	5.94	5.97	6.15	5.89	6.48	5.93	5.76	6.13
15	6.24	6.23	5.72	6.97	7.03	5.90	7.39	5.88	6.51	5.51	5.79	6.26
20	6.15	5.91	6.05	7.24	7.16	5.72	6.10	6.32	12.41	5.72	5.95	6.16
25	6.45	5.73	5.83	7.26	6.16	5.86	7.05	5.99	6.10	5.91	6.20	5.81
COM	5.97	5.81	5.85	6.21	6.03	5.94	5.74	6.18	6.16	4.91	5.92	5.84

WTR YR 1992 HIGH 4.64 AUG 1

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.71	6.04	6.97	5.90	6.04	6.25	5.91	5.86	6.63	6.23	5.52	6.30
10	6.41	7.70	5.89	5.93	5.96	6.18	6.26	6.01	6.58	6.05	5.98	6.34
15	6.32	6.35	6.87	7.09	7.19	5.93	7.61	6.17	8.05	6.07	5.86	6.45
20	6.20	6.35	6.38	7.31	7.20	5.82	6.26	6.45	13.73	6.14	6.06	6.30
25	6.55	6.00	5.88	7.35	6.36	6.03	7.13	6.08	6.91	6.15	6.33	6.14
COM	6.08	5.91	5.88	6.41	6.11	5.99	6.00	6.20	6.33	5.48	6.03	6.15

WTR YR 1992 LOW 13.73 JUN 20

GROUND-WATER DATA

MARTIN COUNTY

383659086545901. Local number, MT 5.

LOCATION.--Lat 38°36'59", long 86°54'59", in SE¹/₄/NE¹/₄/SW¹/₄ 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 floor of shelter, 2.80 ft above land-surface datum.

PERIOD OF RECORD.--May 1958 to current year.

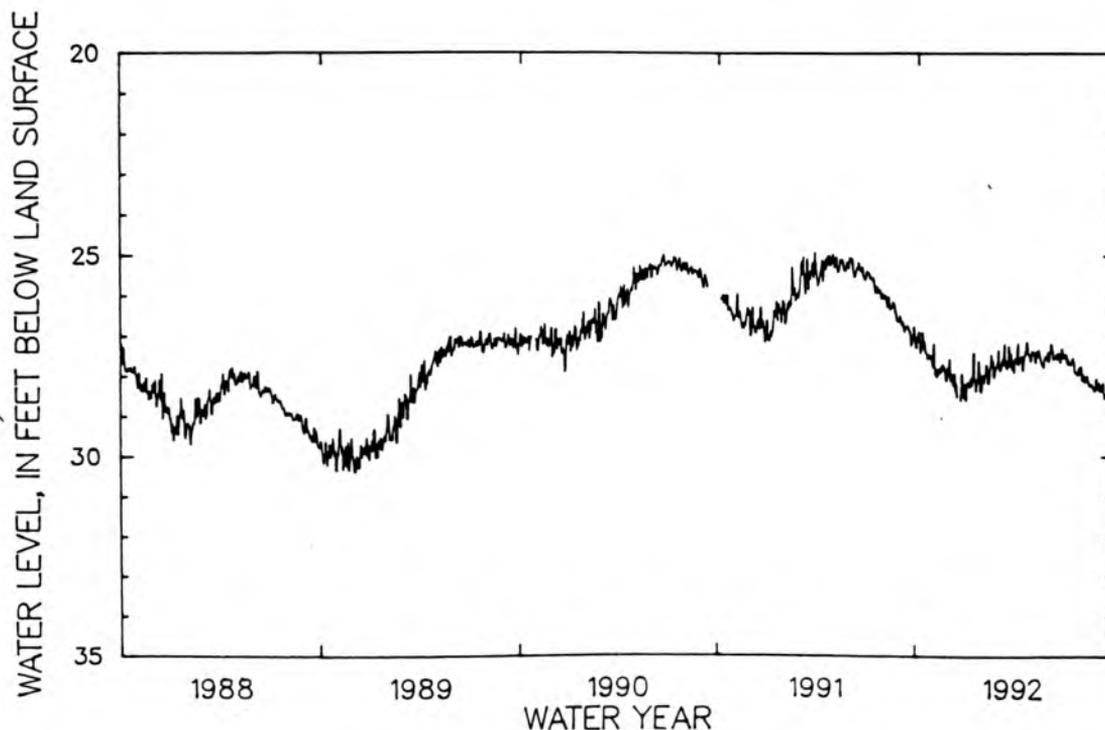
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 23.91 ft below land-surface datum, Apr. 14, 1980; lowest, 34.10 ft below land-surface datum, Jan. 1, 5, 22, 23, 1960, and Dec. 18, 19, 1964.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	26.86	27.81	27.95	28.18	27.90	27.71	27.70	27.40	27.18	27.54	28.10	28.37
10	27.21	27.95	28.01	28.17	28.16	27.17	27.47	27.50	27.53	27.67	27.97	28.22
15	27.15	27.86	---	28.10	27.44	27.79	27.57	27.49	27.47	27.53	28.22	28.52
20	27.56	27.83	---	28.15	28.02	27.75	27.12	27.72	27.48	27.90	28.23	28.16
25	27.52	28.10	28.41	27.93	27.78	27.67	27.49	27.49	27.35	27.94	28.37	28.53
EOM	27.48	27.57	28.62	27.94	27.65	27.60	27.35	27.63	27.45	27.81	28.31	28.75

WTR YR 1992 HIGH 26.86 OCT 5

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	27.29	27.97	28.16	28.29	28.07	27.85	27.93	27.62	27.29	27.68	28.18	28.44
10	27.33	27.98	28.52	28.34	28.35	27.69	27.65	27.64	27.60	27.75	28.07	28.49
15	27.33	28.06	---	28.45	27.76	28.03	27.72	27.58	27.59	27.69	28.27	28.64
20	27.70	27.89	---	28.28	28.21	27.84	27.32	27.80	27.65	27.95	28.27	28.40
25	27.58	28.17	28.53	28.38	27.87	27.86	27.53	27.59	27.44	28.07	28.45	28.62
EOM	27.76	27.89	28.71	28.12	28.00	27.80	27.44	27.72	27.52	28.11	28.43	28.84

WTR YR 1992 LOW 29.00 DEC 14



GROUND-WATER DATA

323

MONTGOMERY COUNTY

400247086482101. Local number, MY 7.

LOCATION.--Lat 40°02'47", long 86°48'21", in NE¹/₄/NW¹/₄/SW¹/₄ 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	33.53	33.90	33.89	33.02	33.07	32.73	32.52	30.54	30.76	31.76	30.93	31.03
10	33.72	34.02	33.79	33.18	33.23	32.42	32.17	30.49	31.09	31.71	30.85	31.02
15	33.70	33.89	33.66	33.15	33.03	32.75	32.03	30.44	31.31	31.73	30.91	31.16
20	33.87	33.66	33.84	33.47	33.08	32.67	31.21	30.62	31.54	31.60	30.79	31.18
25	33.67	33.76	33.52	33.32	32.92	32.67	30.93	30.72	31.47	31.34	30.81	31.07
EOM	33.57	33.69	33.30	33.10	32.83	32.59	30.69	30.81	31.65	31.04	30.83	30.97

WTR YR 1992 HIGH 30.40 MAY 12

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	33.64	33.95	33.95	33.05	33.12	32.81	32.59	30.57	30.80	31.82	30.95	31.17
10	33.76	34.09	33.81	33.21	33.26	32.52	32.32	30.52	31.19	31.73	30.89	31.13
15	33.77	33.91	33.72	33.30	33.17	32.84	32.11	30.47	31.40	31.77	30.94	31.19
20	33.91	33.73	33.94	33.51	33.15	32.71	31.35	30.65	31.57	31.61	30.80	31.25
25	33.83	33.90	33.54	33.42	32.93	32.75	30.97	30.75	31.50	31.45	30.86	31.14
EOM	33.63	33.79	33.31	33.16	32.93	32.65	30.73	30.87	31.70	31.09	30.86	31.01

WTR YR 1992 LOW 34.13 NOV 9

MORGAN COUNTY

393423086161001. Local number, MG 4.

LOCATION.--Lat 39°34'23", long 86°16'10", in NW¹/₄/NW¹/₄/NW¹/₄ 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 60 ft, cased to 56 ft, screened to 60 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.82	15.13	14.80	14.68	14.52	14.29	14.10	11.53	12.65	11.35	9.49	11.39
10	14.92	15.20	14.74	14.75	14.51	14.29	14.03	11.72	12.82	11.34	9.81	11.59
15	15.01	15.28	14.68	14.76	14.51	14.30	13.92	11.89	12.96	11.02	10.17	11.75
20	15.10	15.22	14.69	14.70	14.41	14.24	12.16	12.08	11.79	10.44	10.52	11.90
25	15.19	15.00	14.67	14.64	14.34	14.20	11.52	12.24	11.39	9.72	10.88	11.98
EOM	15.08	14.91	14.66	14.57	14.30	14.16	11.43	12.47	11.41	9.49	11.15	12.14

WTR YR 1992 HIGH 9.38 AUG 2

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.83	15.14	14.82	14.69	14.53	14.31	14.12	11.58	12.70	11.44	9.56	11.43
10	14.94	15.22	14.76	14.76	14.52	14.31	14.06	11.76	12.86	11.35	9.87	11.62
15	15.04	15.30	14.69	14.78	14.52	14.30	13.95	11.94	12.99	11.24	10.24	11.78
20	15.12	15.31	14.70	14.71	14.43	14.26	12.67	12.12	12.07	10.49	10.60	11.93
25	15.21	15.02	14.67	14.66	14.35	14.21	11.58	12.27	11.40	9.94	10.94	12.01
EOM	15.10	14.92	14.67	14.58	14.31	14.17	11.45	12.51	11.43	9.55	11.21	12.17

WTR YR 1992 LOW 15.32 NOV 18

GROUND-WATER DATA

NEWTON COUNTY

405105087173301. Local number, NE 6.

LOCATION.--Lat 40°51'05", long 87°17'33", in SE¹/₄, SW¹/₄, SE¹/₄, 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.43	16.44	13.42	12.64	12.42	11.80	11.47	11.86	13.34	14.00	13.28	14.62
10	17.48	16.16	13.15	12.59	12.42	11.45	11.59	12.24	13.28	14.10	13.43	14.61
15	17.48	15.92	12.71	12.54	12.24	11.32	11.75	12.40	---	13.94	13.82	14.50
20	17.54	15.44	12.61	12.56	11.82	11.14	11.25	12.68	13.52	13.62	14.00	14.47
25	17.56	14.57	12.61	12.49	11.59	11.03	11.29	12.97	13.59	13.43	14.22	14.49
EOM	16.94	13.98	12.72	12.46	11.65	11.15	11.58	13.08	13.77	13.25	14.37	14.36

WTR YR 1992 HIGH 10.90 MAR 22

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.51	16.57	13.64	12.68	12.52	11.83	11.54	11.99	13.44	14.04	13.33	14.71
10	17.50	16.23	13.24	12.65	12.49	11.57	11.65	12.29	13.31	14.16	13.53	14.66
15	17.52	15.94	12.84	12.69	12.40	11.42	11.80	12.49	---	13.98	13.93	14.56
20	17.58	15.64	12.72	12.66	11.99	11.21	11.38	12.75	13.59	13.66	14.03	14.52
25	17.62	14.67	12.65	12.62	11.64	11.08	11.44	13.03	13.63	13.54	14.29	14.57
EOM	17.11	14.12	12.77	12.57	11.74	11.22	11.68	13.14	13.87	13.30	14.46	14.39

WTR YR 1992 LOW 17.63 OCT 23

NEWTON COUNTY

405959087282901. Local number, NE 7.

LOCATION.--Lat 40°59'59", long 87°28'29", in SE¹/₄, SW¹/₄, SE¹/₄, 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	85.89	77.82	71.22	65.77	61.41	58.13	55.24	52.65	55.36	62.80	63.26	71.30
10	84.55	76.71	70.30	64.98	60.90	57.54	54.64	52.43	55.74	65.71	62.40	72.75
15	83.27	75.54	69.39	64.24	60.07	57.34	54.22	52.46	55.75	66.47	63.01	72.95
20	82.06	74.37	68.53	63.55	59.64	56.92	53.63	52.76	56.98	66.21	65.14	71.93
25	80.67	73.41	67.60	62.83	59.11	56.29	53.37	54.03	57.71	65.28	67.50	71.09
EOM	78.97	72.25	66.72	62.05	58.71	55.60	52.93	55.25	58.80	64.19	69.71	70.03

WTR YR 1992 HIGH 52.38 MAY 9

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	85.96	78.18	71.59	65.97	61.60	58.28	55.33	52.70	55.47	63.55	63.43	71.61
10	84.87	76.99	70.52	65.11	61.07	57.59	54.82	52.49	55.81	66.00	62.52	73.02
15	83.44	75.70	69.53	64.35	60.25	57.46	54.43	52.54	55.89	66.55	63.35	73.07
20	82.36	74.57	68.80	63.64	59.79	57.03	53.76	52.92	57.26	66.28	65.57	72.24
25	80.96	73.57	67.76	62.97	59.19	56.43	53.44	54.31	57.80	65.56	67.93	71.31
EOM	79.30	72.37	66.85	62.15	58.78	55.78	53.02	55.38	59.15	64.28	70.03	70.28

WTR YR 1992 LOW 87.38 OCT 1

GROUND-WATER DATA

325

NEWTON COUNTY

410428087231501. Local number, NE 8.

LOCATION.--Lat 41°04'28", long 87°25'44", in NW¹/₄SW¹/₄SW¹/₄ 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	49.94	38.52	32.11	---	---	---	19.48	17.60	26.34	39.16	26.33	55.60
10	47.50	37.31	31.36	---	---	---	18.95	17.38	24.56	37.81	32.91	48.25
15	45.47	36.19	---	---	---	21.04	18.69	17.17	32.32	33.54	47.04	42.50
20	43.68	35.03	---	---	---	20.60	18.17	36.13	28.14	31.09	42.86	40.24
25	41.91	34.15	---	---	---	20.17	18.12	37.86	27.44	29.08	46.02	37.21
EOM	39.86	32.98	---	---	---	19.65	17.78	29.82	38.06	27.41	51.87	35.04

WTR YR 1992 HIGH 17.17 MAY 15

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	50.14	38.93	32.50	---	---	---	19.56	17.67	26.79	40.87	26.52	55.73
10	48.00	37.62	31.54	---	---	---	19.14	17.46	24.90	39.18	34.14	50.01
15	45.75	36.32	---	---	---	21.10	18.88	17.26	34.28	34.11	50.76	43.32
20	44.12	35.20	---	---	---	20.66	18.31	42.28	29.12	31.45	44.93	41.31
25	42.25	34.27	---	---	---	20.29	18.16	41.29	30.48	29.53	46.75	37.70
EOM	40.25	33.17	---	---	---	19.82	17.87	30.72	45.17	27.54	55.70	35.46

WTR YR 1992 LOW 55.82 SEP 8

NEWTON COUNTY

405959087282902. Local number, NE 9.

LOCATION.--Lat 40°59'59", long 87°28'29", in SE¹/₄SW¹/₄SE¹/₄ 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.33	12.89	11.90	11.38	11.56	11.13	10.87	10.80	11.66	12.62	12.74	13.69
10	14.11	12.78	11.75	11.38	11.57	---	10.88	11.02	11.73	12.80	12.94	13.61
15	14.07	12.60	11.61	11.42	11.59	11.04	10.93	11.14	11.93	12.84	13.05	13.28
20	14.09	12.43	11.52	11.46	11.26	10.98	10.66	11.34	12.06	12.88	13.23	13.30
25	14.13	12.22	11.44	11.56	11.21	10.91	10.67	11.36	12.20	12.89	13.36	13.39
EOM	13.37	12.05	11.40	11.57	11.14	10.87	10.69	11.47	12.42	12.75	13.53	13.49

WTR YR 1992 HIGH 10.66 APR 20

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.36	12.98	11.94	11.38	11.56	11.13	10.88	10.83	11.67	12.69	12.78	13.70
10	14.13	12.81	11.77	11.39	11.57	---	10.89	11.04	11.77	12.81	12.96	13.76
15	14.07	12.62	11.62	11.44	11.59	11.04	10.93	11.19	11.97	12.84	13.07	13.28
20	14.11	12.48	11.54	11.48	11.31	11.00	10.69	11.39	12.09	12.89	13.25	13.30
25	14.14	12.22	11.45	11.56	11.23	10.94	10.67	11.36	12.23	12.93	13.40	13.40
EOM	13.63	12.06	11.40	11.57	11.14	10.87	10.70	11.49	12.47	12.75	13.57	13.51

WTR YR 1992 LOW 14.37 OCT 2

GROUND-WATER DATA

NEWTON COUNTY

410428087231502. Local number, NE 10.

LOCATION.--Lat 41°04'28", long 87°25'44", in NW¹/₄, SW¹/₄, SW¹/₄, 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 663 ft above sea level, from topographic map. Measuring point: Top 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.08	---	---	4.11	4.53	4.39	4.52	4.81	5.24	5.57	4.67	5.55
10	4.80	---	---	4.22	4.58	4.32	4.60	4.92	5.28	5.45	4.91	4.42
15	4.80	---	3.41	4.34	4.58	4.32	4.66	4.97	5.33	5.13	5.16	4.29
20	4.80	---	3.58	4.45	4.10	4.35	4.52	5.09	5.33	5.12	5.23	4.44
25	4.90	---	3.69	4.45	4.10	4.37	4.53	5.09	5.41	5.03	5.31	4.61
EOM	4.90	---	3.98	4.52	4.13	4.44	4.70	5.17	5.50	4.71	5.47	---

WTR YR 1992 HIGH 3.41 DEC 14

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.66	---	---	4.15	4.57	4.40	4.58	4.83	5.25	5.60	4.73	5.56
10	4.80	---	---	4.25	4.60	4.33	4.60	4.94	5.29	5.61	4.97	5.01
15	4.80	---	3.42	4.38	4.64	4.34	4.67	5.00	5.34	5.16	5.20	4.30
20	4.80	---	3.58	4.46	4.14	4.38	4.55	5.10	5.35	5.13	5.25	4.45
25	4.90	---	3.77	4.46	4.10	4.38	4.55	5.10	5.42	5.10	5.34	4.64
EOM	4.90	---	4.01	4.54	4.20	4.47	4.74	5.19	5.52	4.75	5.48	---

WTR YR 1992 LOW 5.83 OCT 2

NEWTON COUNTY

410235087305901. Local number, NE 11.

LOCATION.--Lat 41°02'35", long 87°30'59", in SW¹/₄, SW¹/₄, SE¹/₄, 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.

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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	69.72	62.53	56.42	51.10	46.92	43.25	43.29	52.69	57.21	52.64	---
10	---	68.61	61.61	55.56	50.55	46.05	42.28	51.10	49.57	56.36	53.61	---
15	---	67.32	60.74	54.61	49.26	45.82	41.84	46.65	53.53	55.78	---	---
20	---	66.10	59.79	53.78	48.90	45.06	41.03	45.06	50.77	55.33	---	---
25	72.82	65.20	58.72	52.90	48.24	44.33	40.88	44.36	49.08	54.35	---	64.73
EOM	70.97	63.52	57.75	51.93	47.74	43.49	40.29	44.44	59.01	53.42	---	65.06

WTR YR 1992 HIGH 40.03 MAY 2

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	70.32	63.19	56.72	51.43	47.17	43.40	47.91	53.59	57.41	52.79	---
10	---	68.98	61.88	55.65	50.84	46.30	42.64	52.41	50.06	56.45	57.62	---
15	---	67.43	61.01	54.90	49.56	45.92	42.17	47.26	54.09	55.88	---	---
20	---	66.23	60.24	54.02	49.24	45.16	41.27	45.15	51.03	55.39	---	---
25	72.94	65.24	58.86	53.25	48.35	44.56	40.97	44.52	49.26	54.71	---	68.00
EOM	71.53	64.00	57.90	52.11	47.93	43.79	40.42	44.57	60.02	53.56	---	66.02

WTR YR 1992 LOW 73.31 OCT 24

GROUND-WATER DATA

327

NEWTON COUNTY

410917087285801. Local number, NE 14.

LOCATION.--Lat 41°09'17", long 87°28'58", in NE¹/₄/SW¹/₄/NW¹/₄, 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 (revised) 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.75	15.54	13.43	11.93	10.78	9.96	9.19	8.95	17.60	20.23	16.40	22.72
10	18.14	15.22	13.17	11.73	10.72	9.74	9.10	9.11	17.80	21.79	15.78	20.99
15	17.66	14.85	12.95	11.47	10.35	9.74	9.07	9.25	18.56	20.77	18.44	19.62
20	17.24	14.48	12.76	11.31	10.31	9.55	8.88	9.52	18.45	19.32	20.39	18.66
25	16.72	14.22	12.42	11.10	10.16	9.42	8.99	10.51	17.05	18.01	22.47	18.08
COM	16.01	13.76	12.27	10.94	10.03	9.24	8.89	14.84	18.16	17.00	23.33	17.43

WTR YR 1992 HIGH 8.85 MAY 2

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.81	15.76	13.61	12.01	10.87	10.02	9.28	9.07	17.97	20.51	16.53	23.12
10	18.27	15.37	13.21	11.74	10.77	9.79	9.21	9.40	17.90	21.86	15.95	21.18
15	17.68	14.93	12.98	11.50	10.46	9.77	9.15	9.33	18.57	21.07	18.94	19.90
20	17.38	14.55	12.89	11.33	10.34	9.57	8.94	9.54	18.80	19.51	20.84	18.93
25	16.84	14.23	12.48	11.15	10.17	9.45	9.02	11.34	17.24	18.30	22.79	18.25
COM	16.19	13.85	12.31	10.98	10.11	9.31	8.92	15.31	18.74	17.09	23.48	17.58

WTR YR 1992 LOW 23.63 AUG 29

NOBLE COUNTY

411922085221801. Local number, NO 8.

LOCATION.--Lat 41°19'22", long 85°22'18", in SE¹/₄/SW¹/₄/SE¹/₄, 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 (revised) 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	29.05	29.49	29.59	29.72	29.83	29.93	29.93	29.75	29.52	29.98	30.17	30.27
10	29.32	29.55	29.76	29.69	29.98	29.56	29.71	29.74	29.84	29.94	30.02	30.08
15	29.29	29.54	29.75	29.74	29.50	29.99	29.79	29.77	29.81	29.84	30.23	30.31
20	29.54	29.46	29.80	29.72	29.92	29.91	29.57	29.84	29.83	30.03	30.20	30.15
25	29.47	29.67	29.73	29.85	29.86	29.85	29.75	29.68	29.73	30.00	30.21	30.33
COM	29.48	29.43	29.96	29.71	29.80	29.75	29.64	29.71	29.88	29.92	30.18	30.39

WTR YR 1992 HIGH 29.05 OCT 5

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	29.34	29.71	29.90	29.80	29.94	30.00	30.09	29.89	29.61	30.01	30.22	30.37
10	29.42	29.70	29.81	29.78	30.17	29.82	29.91	29.84	29.88	30.01	30.09	30.32
15	29.45	29.62	29.91	29.87	29.79	30.14	29.95	29.81	29.93	29.97	30.26	30.36
20	29.66	29.62	30.13	29.90	30.06	29.99	29.68	29.89	29.92	30.10	30.24	30.31
25	29.53	29.85	29.87	30.05	29.91	30.02	29.78	29.77	29.82	30.13	30.26	30.42
COM	29.59	29.79	30.00	29.87	30.05	29.88	29.76	29.81	29.92	30.15	30.29	30.46

WTR YR 1992 LOW 30.55 SEP 23

GROUND-WATER DATA

NOBLE COUNTY

413106085232701. Local number, NO 9.

LOCATION.--Lat 41°31'06", long 85°23'27", in NW¹/NE¹/SE¹/₄ 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, 8.45 ft below land-surface datum, Mar. 31, Apr. 1, 1985;
lowest, 17.55 ft below land-surface datum, Dec. 27, 28, 1978.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.81	13.71	12.78	13.44	13.13	13.10	11.48	12.00	13.27	14.30	11.91	14.07
10	15.87	14.02	12.97	13.39	13.29	12.82	11.78	12.30	13.55	14.47	12.47	13.58
15	15.88	14.24	12.85	13.46	13.18	12.06	11.98	12.65	13.71	12.88	12.98	13.40
20	16.00	13.81	13.04	13.32	13.00	11.97	11.60	12.61	13.62	11.62	13.34	13.81
25	15.99	12.93	13.24	13.25	12.88	11.63	11.63	12.86	13.74	11.37	13.67	12.72
EOM	13.83	12.95	13.56	13.05	12.81	11.38	11.63	13.13	14.05	11.83	13.70	12.86

WTR YR 1992 HIGH 11.31 APR 4

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.89	13.79	13.00	13.49	13.21	13.12	11.65	12.12	13.35	14.32	12.06	14.09
10	15.89	14.06	13.00	13.47	13.43	13.01	11.84	12.42	13.57	14.49	12.53	14.08
15	15.98	14.31	12.90	13.52	13.37	12.16	12.01	12.70	13.84	14.08	13.04	13.52
20	16.08	14.30	13.24	13.43	13.10	11.99	11.67	12.64	13.66	11.77	13.42	13.84
25	16.04	13.11	13.36	13.41	12.90	11.92	11.67	12.87	13.87	11.39	13.72	12.73
EOM	13.93	13.11	13.60	13.16	13.07	11.46	11.71	13.23	14.09	11.95	13.84	12.87

WTR YR 1992 LOW 16.08 OCT 19

NOBLE COUNTY

412405085154501. Local number, NO 11.

LOCATION.--Lat 41°24'05", long 85°15'45", in NW¹/NE¹/SW¹/₄ 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 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,
115.00 ft below land-surface datum, Feb. 17, 1989.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	113.69	114.15	113.99	114.06	114.01	114.09	113.94	114.03	113.80	114.03	114.38	114.38
10	114.02	114.23	114.03	113.88	114.21	113.55	113.98	114.10	114.15	114.09	114.15	114.05
15	113.82	114.02	114.05	113.75	113.63	114.00	114.19	114.15	114.05	114.01	114.42	114.40
20	114.23	113.89	114.47	113.95	113.94	113.98	113.78	114.36	114.00	114.21	114.38	114.11
25	114.05	113.99	114.06	113.95	114.01	113.99	113.95	114.16	113.84	114.12	114.39	114.41
EOM	114.14	113.81	114.39	113.88	113.70	113.92	113.93	114.07	113.99	114.15	114.21	114.52

WTR YR 1992 HIGH 113.41 JAN 14

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	113.94	114.38	114.24	114.10	114.08	114.16	114.23	114.18	113.83	114.07	114.47	114.45
10	114.10	114.45	114.08	113.96	114.33	113.72	114.12	114.22	114.18	114.18	114.22	114.27
15	113.94	114.08	114.18	113.90	114.01	114.21	114.38	114.20	114.20	114.06	114.47	114.44
20	114.33	114.05	114.77	114.06	114.13	114.04	113.94	114.42	114.09	114.35	114.42	114.26
25	114.12	114.28	114.28	114.10	114.06	114.15	113.99	114.24	113.90	114.34	114.48	114.52
EOM	114.26	114.11	114.50	113.99	114.07	114.05	114.04	114.20	114.04	114.36	114.38	114.56

WTR YR 1992 LOW 114.77 DEC 19

GROUND-WATER DATA

329

NOBLE COUNTY

412405085154504. Local number, NO 14.

LOCATION.--Lat 41°24'05", long 85°15'45", in NW¹/₄/NE¹/₄/SW¹/₄, 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, 114.29 ft below land-surface datum, Feb. 17, 1989.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	112.66	113.05	112.89	113.06	113.00	113.09	113.15	113.07	112.76	113.02	113.37	113.32
10	113.01	113.17	113.14	112.94	113.22	112.42	112.85	113.20	113.19	113.06	113.08	113.03
15	112.79	113.02	113.07	112.84	112.48	113.12	113.14	113.23	113.12	112.91	113.43	113.40
20	113.27	112.84	113.38	112.85	113.08	113.01	112.71	113.44	113.04	113.19	113.39	113.02
25	113.12	112.99	113.18	112.97	113.05	112.98	112.99	113.14	112.86	113.17	113.39	113.39
EOM	113.16	112.68	113.55	112.89	112.91	112.85	112.92	113.16	112.99	112.98	113.25	113.51

WTR YR 1992 HIGH 112.26 JAN 14

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	113.09	113.42	113.32	113.21	113.21	113.23	113.39	113.33	112.87	113.09	113.47	113.51
10	113.16	113.41	113.23	113.07	113.51	112.86	113.22	113.33	113.26	113.15	113.22	113.41
15	113.02	113.11	113.38	113.08	112.92	113.36	113.45	113.32	113.28	113.11	113.49	113.48
20	113.40	113.06	113.87	113.20	113.33	113.18	112.94	113.52	113.18	113.35	113.46	113.28
25	113.15	113.31	113.41	113.35	113.13	113.24	113.06	113.30	112.97	113.42	113.48	113.51
EOM	113.33	113.20	113.65	113.14	113.26	113.10	113.13	113.31	113.05	113.36	113.42	113.62

WTR YR 1992 LOW 113.99 DEC 19

PARKE COUNTY

393619087043001. Local number, PA 6.

LOCATION.--Lat 39°36'19", long 87°04'30", in SE¹/₄/SW¹/₄/SE¹/₄, 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 ft above sea level, from topographic map. 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.21	15.36	14.93	14.09	13.32	13.04	12.61	12.37	12.72	13.71	13.90	13.89
10	15.37	15.35	14.87	13.98	13.36	12.87	12.50	12.46	13.10	13.71	13.82	13.89
15	15.42	15.30	14.73	13.78	13.05	13.01	12.44	12.49	13.31	13.70	---	13.98
20	15.57	15.11	14.61	13.72	13.16	12.92	12.25	12.62	13.50	13.79	---	13.89
25	15.46	15.18	14.48	13.54	13.09	12.77	12.34	12.67	13.57	13.66	---	13.91
EOM	15.26	15.03	14.33	13.44	13.02	12.62	12.31	12.73	13.75	13.76	---	13.95

WTR YR 1992 HIGH 12.25 APR 20

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.38	15.50	15.14	14.18	13.43	13.11	12.70	12.46	12.81	13.75	13.95	13.94
10	15.42	15.43	14.93	14.00	13.43	13.00	12.57	12.51	13.19	13.78	13.89	13.99
15	15.50	15.34	14.82	13.94	13.20	13.11	12.55	12.56	13.41	13.78	---	14.03
20	15.65	15.22	14.79	13.78	13.26	12.95	12.31	12.68	13.58	13.82	---	13.98
25	15.58	15.22	14.52	13.71	13.11	12.87	12.37	12.70	13.63	13.72	---	13.97
EOM	15.36	15.22	14.39	13.53	13.08	12.73	12.39	12.80	13.81	13.81	---	14.01

WTR YR 1992 LOW 15.67 OCT 19

GROUND-WATER DATA

POSEY COUNTY

380758087551001. Local number, PY 3.

LOCATION.--Lat 38°07'58", long 87°55'10", in NW¹/₄NW¹/₄SW¹/₄ 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 ft above sea level, from topographic map. Measuring point: Top of floor of shelter, 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.77	20.37	19.73	20.03	20.09	19.94	18.83	17.03	18.13	18.55	17.23	18.19
10	19.91	20.39	19.81	20.05	20.15	19.98	18.81	17.32	18.31	18.64	17.14	18.02
15	20.02	20.45	19.90	20.07	20.15	20.06	18.86	17.59	18.44	18.36	17.31	18.22
20	20.14	20.51	19.96	20.03	20.15	19.84	18.54	17.77	18.58	18.16	17.51	18.33
25	20.25	20.47	20.00	20.06	19.97	19.63	17.69	17.88	18.68	17.76	17.72	18.41
DOM	20.36	20.35	20.03	20.06	19.92	19.10	16.83	18.04	18.63	17.46	17.99	18.21

WTR YR 1992 HIGH 16.82 MAY 1

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.81	20.38	19.75	20.04	20.09	19.94	18.85	17.13	18.16	18.61	17.27	18.23
10	19.93	20.40	19.82	20.06	20.15	20.01	18.82	17.39	18.34	18.74	17.17	18.05
15	20.04	20.47	19.92	20.08	20.17	20.07	18.89	17.66	18.47	18.39	17.34	18.26
20	20.16	20.54	19.97	20.04	20.18	19.88	18.71	17.81	18.61	18.22	17.57	18.34
25	20.27	20.49	20.01	20.09	20.00	19.68	17.90	17.91	18.69	17.86	17.80	18.42
DOM	20.37	20.36	20.04	20.07	19.93	19.21	16.87	18.08	18.65	17.50	18.04	18.22

WTR YR 1992 LOW 20.54 NOV 20

POSEY COUNTY

380546087474301. Local number, PY 5.

LOCATION.--Lat 38°05'46", long 87°47'43", in NE¹/₄NW¹/₄NE¹/₄ 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 Cemetery.
 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.

PERIOD OF RECORD.--September 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 132.83 ft below land-surface datum, Mar. 27, 1991; lowest, 142.69 ft below land-surface datum, Aug. 16, 1992.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	141.71	141.57	140.68	139.89	139.49	139.34	138.68	139.11	138.73	139.16	141.24	141.40
10	141.62	141.40	140.62	139.80	139.55	139.21	138.67	139.17	139.08	139.16	141.22	141.21
15	141.44	141.18	140.46	139.70	138.98	139.42	138.68	138.94	139.16	139.16	141.58	141.27
20	141.48	140.98	140.35	139.78	139.25	139.11	138.56	139.05	139.16	140.47	141.89	140.94
25	141.51	141.06	140.23	139.60	139.27	139.01	138.74	138.89	139.16	141.11	141.98	140.89
DOM	141.54	140.72	140.13	139.58	139.31	138.64	138.81	139.06	139.16	141.16	141.60	140.77

WTR YR 1992 HIGH 138.38 APR 4

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	141.95	141.58	140.92	140.02	139.61	139.52	138.83	139.25	138.78	139.16	141.30	141.49
10	141.82	141.56	140.69	139.89	139.64	139.41	138.75	139.27	139.16	139.16	141.46	141.34
15	141.47	141.25	140.62	139.96	139.34	139.60	138.85	139.04	139.16	139.16	141.74	141.35
20	141.48	141.14	140.63	139.90	139.39	139.38	138.71	139.13	139.16	140.56	141.97	141.09
25	141.51	141.19	140.30	139.87	139.34	139.18	138.81	138.95	139.16	141.25	142.14	141.01
DOM	141.55	140.99	140.27	139.73	139.47	138.80	138.96	139.17	139.16	141.38	141.78	140.88

WTR YR 1992 LOW 142.69 AUG 16

GROUND-WATER DATA

331

PULASKI COUNTY

405916086530701. Local number, PU 6.

LOCATION.--Lat 40°59'16", long 86°53'07", in NW¹/₄SE¹/₄SW¹/₄ 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 artesian 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 floor of shelter, 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, 25.98 ft below land-surface datum, Oct. 25, 1991.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	24.93	23.72	19.22	18.20	18.09	17.04	16.89	16.62	18.63	19.57	19.38	21.26
10	25.11	23.58	18.85	18.21	18.23	16.93	16.92	17.09	18.49	19.95	19.49	21.21
15	25.21	23.28	18.39	18.22	17.66	17.18	16.80	17.38	18.51	19.76	20.10	20.63
20	25.40	22.91	18.12	18.27	17.73	16.94	16.07	18.06	18.73	20.02	20.43	20.67
25	25.74	21.12	18.12	18.26	17.01	16.54	16.11	18.08	19.05	19.51	20.73	20.64
EOM	24.60	20.02	18.39	17.92	16.92	16.49	16.03	18.52	19.73	19.07	21.05	19.83

WTR YR 1992 HIGH 15.94 APR 21

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.40	24.21	19.85	18.47	18.36	17.33	17.20	17.05	18.92	19.86	19.59	21.51
10	25.29	23.92	19.10	18.49	18.51	17.30	17.14	17.36	18.71	20.11	19.90	21.50
15	25.51	23.56	18.81	18.56	18.23	17.70	17.17	17.89	18.89	20.08	20.37	20.82
20	25.67	23.29	18.66	18.61	17.94	17.16	16.39	18.50	19.13	20.34	20.60	20.89
25	25.98	22.29	18.35	18.71	17.28	16.80	16.36	18.32	19.26	19.88	20.96	20.99
EOM	25.16	20.61	18.66	18.24	17.40	16.80	16.38	18.84	19.89	19.51	21.33	20.13

WTR YR 1992 LOW 25.98 OCT 25

PULASKI COUNTY

410739086365201. Local number, PU 7.

LOCATION.--Lat 41°07'39", long 86°36'52", in NE¹/₄NE¹/₄NW¹/₄ 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.11	10.87	10.13	9.70	9.69	9.45	8.96	8.92	9.63	10.07	10.32	10.91
10	11.19	10.79	10.01	9.71	9.75	9.38	8.92	9.04	9.35	10.13	10.43	10.77
15	11.24	10.77	9.84	9.69	9.68	9.37	8.95	9.22	9.50	10.08	10.72	10.57
20	11.29	10.70	9.72	9.69	9.60	9.21	8.80	9.33	9.64	10.04	10.71	10.57
25	11.31	10.56	9.71	9.69	9.50	9.07	8.77	9.40	9.83	10.09	10.82	10.66
EOM	11.11	10.32	9.73	9.68	9.49	8.93	8.76	9.52	9.99	10.18	10.85	10.56

WTR YR 1992 HIGH 8.74 APR 29

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.21	10.94	10.24	9.73	9.73	9.48	9.00	9.03	9.66	10.10	10.36	10.93
10	11.21	10.82	10.06	9.72	9.78	9.45	8.97	9.07	9.37	10.20	10.46	10.82
15	11.27	10.79	9.90	9.76	9.76	9.39	9.01	9.26	9.57	10.12	10.82	10.59
20	11.32	10.73	9.79	9.75	9.69	9.25	8.85	9.36	9.70	10.06	10.84	10.61
25	11.36	10.59	9.73	9.76	9.51	9.11	8.78	9.42	9.97	10.13	10.86	10.69
EOM	11.18	10.42	9.75	9.74	9.52	8.99	8.81	9.55	10.01	10.25	10.87	10.59

WTR YR 1992 LOW 11.36 OCT 24

GROUND-WATER DATA

PULASKI COUNTY

405605086551701. Local number, PU 8.

LOCATION.--Lat 40°56'05", long 86°55'17", in SE¹/₄, SE¹/₄, NW¹/₄, 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, 0.68 ft below land-surface datum, Dec. 29, 1991; lowest, 11.74 ft below land-surface datum, Aug. 25, 1988.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.35	3.43	2.33	2.87	2.65	2.93	2.81	3.14	4.01	4.72	4.27	5.46
10	6.51	3.72	2.59	2.68	3.03	2.22	2.85	3.31	3.37	4.84	4.50	3.97
15	6.61	3.74	2.26	2.75	2.48	2.32	2.50	3.46	3.79	4.07	4.87	4.65
20	6.75	1.95	2.94	2.95	1.97	1.73	1.57	3.71	4.08	4.24	5.18	4.82
25	6.00	2.82	2.87	2.60	2.30	2.41	2.50	3.80	4.30	3.79	5.42	4.93
EOM	2.61	1.85	3.08	2.75	2.78	2.30	2.82	3.94	4.50	3.80	5.36	4.05

WTR YR 1992 HIGH 1.57 APR 20

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.20	3.53	2.56	2.92	2.72	3.01	2.88	3.28	4.09	4.84	4.35	5.52
10	6.65	3.79	2.68	2.76	3.11	2.86	3.00	3.38	3.48	4.92	4.61	4.43
15	6.78	3.86	2.58	2.98	2.98	2.48	3.01	3.55	3.90	4.14	4.94	4.73
20	6.90	3.11	3.05	3.19	2.12	1.98	1.74	3.77	4.16	4.34	5.21	4.90
25	6.85	2.95	2.96	2.92	2.54	2.47	2.63	3.86	4.38	3.97	5.49	4.97
EOM	2.76	2.57	3.13	2.85	2.88	2.39	2.92	4.01	4.58	3.97	5.42	4.12

WTR YR 1992 LOW 8.47 OCT 3

RANDOLPH COUNTY

401532085085301. Local number, RA 3.

LOCATION.--Lat 40°15'32", long 85°08'53", in NE¹/₄, NE¹/₄, SE¹/₄, 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 970 ft above sea level, from topographic map. 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.35	13.69	11.69	11.35	10.26	10.50	9.98	10.00	11.12	10.79	9.74	10.58
10	14.38	13.72	11.84	11.33	10.62	10.26	10.04	10.36	11.50	11.00	10.33	9.91
15	14.42	13.71	11.63	10.85	10.28	10.38	9.95	10.61	11.60	8.98	10.89	10.31
20	14.45	13.03	11.76	10.77	9.74	9.84	8.82	10.88	10.14	9.33	11.24	10.75
25	14.43	12.64	11.58	10.43	9.85	9.86	9.36	10.98	9.72	9.15	11.57	10.63
EOM	13.63	12.10	11.62	10.40	10.13	9.68	9.62	11.16	10.34	8.26	10.50	10.94

WTR YR 1992 HIGH 8.26 JUL 31

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.55	13.82	11.96	11.44	10.35	10.56	10.11	10.20	11.22	10.85	9.95	11.03
10	14.45	13.81	11.89	11.43	10.72	10.46	10.15	10.45	11.55	11.09	10.43	10.29
15	14.52	13.76	11.79	11.10	10.61	10.51	10.09	10.69	11.71	9.38	10.94	10.48
20	14.56	13.36	11.97	10.94	9.88	9.94	9.03	10.94	10.21	9.47	11.33	10.82
25	14.50	12.72	11.64	10.68	9.93	9.97	9.48	11.02	9.79	9.22	11.63	10.69
EOM	13.74	12.36	11.66	10.49	10.37	9.79	9.78	11.25	10.45	8.96	10.66	10.97

WTR YR 1992 LOW 14.62 OCT 19

GROUND-WATER DATA

333

ST. JOSEPH COUNTY

413120086055601. Local number, SJ 31.

LOCATION.--Lat 41°31'20", long 86°05'56", in SW¹/₄SW¹/₄SW¹/₄ 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 water-table 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.17	11.13	9.67	9.18	8.93	8.70	8.30	8.59	9.76	11.05	10.71	11.28
10	12.22	10.93	9.56	9.07	8.94	8.46	8.35	8.75	9.99	11.33	10.75	11.09
15	12.12	10.67	9.38	8.96	8.78	8.49	8.47	8.91	10.42	11.10	10.88	10.96
20	12.22	10.44	9.45	9.02	8.71	8.45	8.34	9.22	10.37	10.99	10.95	10.83
25	12.03	10.20	9.34	8.96	8.64	8.39	8.41	9.39	10.66	10.91	11.10	10.68
EOM	11.52	9.88	9.36	8.93	8.58	8.27	8.45	9.70	10.97	10.70	11.18	10.53

WTR YR 1992 HIGH 8.19 APR 4

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.27	11.26	9.78	9.24	8.98	8.72	8.37	8.66	9.81	11.19	10.75	11.32
10	12.28	11.02	9.59	9.09	8.96	8.54	8.41	8.81	10.16	11.37	10.80	11.14
15	12.16	10.70	9.44	9.02	8.90	8.56	8.54	8.95	10.53	11.17	10.93	10.99
20	12.26	10.53	9.54	9.05	8.76	8.49	8.39	9.37	10.41	11.02	10.99	10.90
25	12.19	10.25	9.38	9.03	8.67	8.45	8.45	9.43	10.73	10.98	11.15	10.72
EOM	11.65	9.97	9.40	8.99	8.65	8.34	8.51	9.76	11.06	10.76	11.24	10.56

WTR YR 1992 LOW 12.46 OCT 1

SHELBY COUNTY

393943085490901. Local number, SH 2.

LOCATION.--Lat 39°39'43", long 85°49'09", in SW¹/₄SW¹/₄NW¹/₄ 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	20.00	19.82	19.06	19.70	20.03	18.68	20.18
10	---	---	---	---	---	19.90	19.65	19.30	19.91	18.80	19.17	20.23
15	---	---	---	---	---	20.19	---	19.51	20.03	18.68	19.54	20.34
20	---	---	---	---	19.67	20.27	17.65	19.62	19.60	18.63	19.71	20.45
25	---	---	---	---	19.61	19.88	18.08	19.40	19.60	18.76	20.00	20.60
EOM	---	---	---	---	19.76	19.88	18.64	19.51	19.95	18.50	19.93	20.72

WTR YR 1992 HIGH 17.65 APR 20

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	20.01	19.93	19.16	19.74	20.11	18.82	20.18
10	---	---	---	---	---	20.02	19.84	19.40	19.94	19.28	19.23	20.27
15	---	---	---	---	---	20.24	---	19.57	20.10	18.72	19.58	20.40
20	---	---	---	---	19.70	20.28	17.73	19.63	19.67	18.69	19.76	20.45
25	---	---	---	---	19.64	19.94	18.24	19.43	19.69	18.83	20.05	20.61
EOM	---	---	---	---	19.94	19.92	18.73	19.66	19.99	18.74	20.00	20.72

WTR YR 1992 LOW 20.72 SEP 29

GROUND-WATER DATA

STARKE COUNTY

411342086365601. Local number, SK 2.

LOCATION.--Lat 41°13'42", long 86°36'56", in NW¹/₄NE¹/₄NW¹/₄ 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. Measuringpoint: 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.13	5.50	5.08	5.23	5.28	5.24	4.82	5.31	5.69	6.03	5.75	6.28
10	6.27	5.59	5.16	5.21	5.39	5.09	4.94	5.37	5.56	5.94	5.86	5.48
15	6.30	5.58	4.93	5.25	5.25	5.02	4.99	5.51	5.71	5.44	5.99	5.70
20	6.34	5.22	5.13	5.31	5.05	4.81	4.91	5.56	5.79	5.40	6.10	5.78
25	5.92	5.31	5.12	5.23	5.08	4.83	5.06	5.62	5.92	5.54	6.20	5.79
EOM	5.43	5.17	5.25	5.27	5.16	4.71	5.14	5.64	5.97	5.56	6.23	5.43

WTR YR 1992 HIGH 4.68 APR 1

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.32	5.52	5.13	5.24	5.30	5.25	4.85	5.33	5.70	6.06	5.78	6.29
10	6.27	5.61	5.18	5.22	5.41	5.22	4.96	5.38	5.59	6.20	5.90	5.66
15	6.32	5.63	4.99	5.30	5.40	5.04	5.06	5.55	5.74	5.95	6.02	5.72
20	6.35	5.48	5.15	5.36	5.09	4.83	4.94	5.57	5.81	5.42	6.13	5.80
25	6.37	5.34	5.15	5.29	5.11	4.84	5.08	5.63	5.97	5.56	6.24	5.82
EOM	5.44	5.19	5.26	5.30	5.20	4.73	5.17	5.67	5.99	5.63	6.26	5.46

WTR YR 1992 LOW 6.67 OCT 2

STEUHEN COUNTY

414204085054002. Local number, SB 6.

LOCATION.--Lat 41°42'04", long 85°05'40", in SE¹/₄SE¹/₄SW¹/₄ 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 water-table 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, 14.79 ft below land-surface datum, May 5, 1991; lowest, 19.12 ft below land-surface datum, Oct. 17, 1988.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.48	16.82	17.02	17.30	17.52	17.67	17.59	17.46	17.51	---	17.66	17.75
10	16.61	16.89	17.11	17.34	17.58	17.60	17.51	17.47	17.58	17.85	17.61	17.69
15	16.67	16.94	17.11	17.36	17.53	17.67	17.53	17.45	17.65	17.83	17.65	17.75
20	16.74	16.92	17.14	17.38	17.61	17.63	17.51	17.47	17.66	17.86	17.67	17.73
25	16.78	17.04	17.22	17.44	17.62	17.60	17.52	17.49	---	17.75	17.69	17.77
EOM	16.79	16.97	17.29	17.48	17.67	17.55	17.46	17.51	---	17.64	17.74	17.82

WTR YR 1992 HIGH 16.48 OCT 5

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.59	16.87	17.13	17.33	17.58	17.70	17.64	17.50	17.55	---	17.67	17.78
10	16.64	16.91	17.13	17.37	17.61	17.69	17.58	17.49	17.60	17.89	17.65	17.78
15	16.72	16.99	17.18	17.41	17.63	17.70	17.60	17.50	17.70	17.89	17.67	17.77
20	16.77	17.02	17.20	17.46	17.68	17.67	17.55	17.50	17.69	17.88	17.68	17.78
25	16.82	17.06	17.24	17.51	17.66	17.63	17.54	17.50	---	17.82	17.73	17.81
EOM	16.82	17.11	17.31	17.55	17.73	17.60	17.51	17.59	---	17.72	17.76	17.83

WTR YR 1992 LOW 17.91 JUL 11

GROUND-WATER DATA

335

TIPPECANOE COUNTY

402734087033401. Local number, TC 17.

LOCATION.--Lat 40°27'34", long 87°03'34", NW¹/₄NE¹/₄NE¹/₄ 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	115.27	115.53	115.71	115.75	115.90	115.59	115.72	115.83	116.26	115.93	115.74	116.43
10	115.62	115.59	115.87	115.73	116.25	115.94	116.00	115.92	115.90	115.88	115.98	116.58
15	115.40	115.67	115.95	115.74	115.54	115.51	115.81	115.94	115.99	115.95	115.97	116.64
20	115.79	115.47	116.33	115.91	116.02	115.70	116.26	115.59	115.92	115.71	116.17	116.85
25	115.55	115.77	115.89	115.84	116.01	115.66	115.98	115.76	116.16	115.62	116.26	116.61
EOM	115.46	115.39	116.03	115.82	115.53	115.86	116.11	115.79	116.03	115.65	116.42	116.52

WTR YR 1992 HIGH 115.08 NOV 1

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	115.59	115.87	116.00	115.85	116.00	115.69	115.99	116.02	116.34	115.98	115.79	116.55
10	115.71	115.80	115.93	115.87	116.41	116.20	116.21	116.03	115.96	115.92	116.10	116.87
15	115.53	115.72	116.12	116.01	115.85	115.73	116.03	115.98	116.11	116.18	116.00	116.72
20	115.93	115.61	116.68	116.05	116.20	115.76	116.36	115.65	116.05	115.75	116.19	117.07
25	115.59	115.99	116.04	116.14	116.07	115.86	116.01	115.91	116.25	115.80	116.31	116.73
EOM	115.70	115.83	116.13	115.98	115.88	116.02	116.19	115.89	116.10	115.90	116.54	116.60

WTR YR 1992 LOW 117.21 SEP 21

TIPPECANOE COUNTY

402734087033402. Local number, TC 18.

LOCATION.--Lat 40°27'34", long 87°03'34", NW¹/₄NE¹/₄NE¹/₄ 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, 21.74 ft below land-surface datum, Nov. 16, 1991.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	21.37	21.62	21.52	21.66	21.49	21.05	20.57	19.93	20.52	21.05	19.98	20.71
10	21.50	21.68	21.57	21.60	21.53	20.96	20.49	20.06	20.66	21.11	20.08	20.68
15	21.53	21.70	21.54	21.53	21.41	20.87	20.49	20.18	20.73	20.67	20.27	20.80
20	21.59	21.62	21.60	21.57	21.11	20.67	19.90	20.30	20.82	20.63	20.40	20.84
25	21.58	21.63	21.63	21.51	21.04	20.58	19.84	20.38	20.88	20.50	20.52	20.84
EOM	21.58	21.56	21.70	21.54	21.05	20.53	19.83	20.47	20.98	19.98	20.60	20.76

WTR YR 1992 HIGH 19.82 APR 29

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	21.46	21.66	21.59	21.68	21.52	21.07	20.60	19.99	20.56	21.07	20.04	20.72
10	21.51	21.69	21.58	21.61	21.55	21.02	20.54	20.10	20.68	21.14	20.10	20.71
15	21.56	21.71	21.58	21.60	21.47	20.90	20.53	20.21	20.77	20.85	20.29	20.82
20	21.61	21.66	21.64	21.60	21.17	20.72	19.99	20.32	20.85	20.65	20.42	20.88
25	21.63	21.67	21.65	21.58	21.06	20.62	19.86	20.38	20.91	20.64	20.54	20.87
EOM	21.61	21.65	21.71	21.56	21.09	20.57	19.87	20.50	21.00	20.06	20.63	20.77

WTR YR 1992 LOW 21.74 NOV 16

GROUND-WATER DATA

VANDERBURGH COUNTY

380608087395901. Local number, VA 6.

LOCATION.--Lat 38°06'08", long 87°39'59", in SE¹/₄SW¹/₄NW¹/₄, 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, 35.50 ft below land-surface datum, Nov. 27, 1991.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	34.95	35.18	35.09	35.12	34.86	34.62	34.48	34.33	34.27	34.79	34.90	35.01
10	35.01	35.23	35.14	35.03	34.99	34.68	34.33	34.40	34.45	34.82	34.90	34.93
15	34.99	35.24	35.15	34.90	34.52	34.75	34.35	34.41	34.46	34.79	35.12	34.98
20	35.17	35.03	35.28	34.92	34.83	34.57	34.10	34.57	34.62	34.91	35.21	34.92
25	35.18	35.30	35.24	34.85	34.79	34.50	34.22	34.50	34.68	34.89	35.33	34.93
COM	35.07	35.14	35.27	34.84	34.76	34.41	34.22	34.50	34.86	34.85	35.07	35.09

WTR YR 1992 HIGH 34.10 APR 20

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	35.17	35.38	35.31	35.26	34.98	34.74	34.58	34.43	34.37	34.91	34.93	35.07
10	35.13	35.38	35.21	35.12	35.06	34.74	34.41	34.48	34.54	35.02	35.03	35.11
15	35.09	35.30	35.29	35.13	34.84	34.89	34.48	34.54	34.57	34.91	35.22	35.07
20	35.26	35.22	35.50	35.04	34.92	34.66	34.20	34.65	34.76	34.96	35.26	35.10
25	35.29	35.43	35.30	35.11	34.83	34.58	34.30	34.58	34.72	34.98	35.43	35.06
COM	35.26	35.40	35.42	35.02	34.92	34.49	34.31	34.59	34.96	34.98	35.13	35.22

WTR YR 1992 LOW 35.50 NOV 27

VANDERBURGH COUNTY

380626087344401. Local number, VA 7.

LOCATION.--Lat 38°06'26", long 87°34'44", in NE¹/₄NW¹/₄NW¹/₄, 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	23.75	24.25	24.16	23.70	23.52	23.34	22.82	22.62	22.31	23.06	23.30	23.70
10	23.98	24.19	24.17	23.76	23.89	23.51	22.55	22.77	22.69	23.11	23.19	23.63
15	24.01	24.26	24.25	23.77	23.18	23.71	22.77	22.81	22.70	22.95	23.51	23.84
20	24.26	24.19	24.15	23.63	23.74	23.26	22.37	22.94	22.80	23.08	23.52	23.59
25	24.27	24.60	24.01	23.55	23.38	22.95	22.67	22.58	22.75	23.05	23.68	23.85
COM	24.09	24.09	24.08	23.46	23.61	22.66	22.44	22.66	23.00	23.02	23.68	23.97

WTR YR 1992 HIGH 22.12 APR 3

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	24.20	24.53	24.51	23.83	23.69	23.48	22.91	22.86	22.45	23.14	23.39	23.79
10	24.08	24.35	24.26	23.94	24.06	23.70	22.71	22.90	22.82	23.22	23.32	23.90
15	24.19	24.36	24.42	24.07	23.58	23.89	22.94	22.91	22.82	23.08	23.59	23.99
20	24.43	24.36	24.47	23.78	23.95	23.43	22.56	23.01	22.97	23.15	23.58	23.81
25	24.33	24.73	24.10	23.99	23.56	23.08	22.72	22.72	22.88	23.14	23.83	23.96
COM	24.43	24.55	24.18	23.69	23.75	22.90	22.56	22.78	23.08	23.28	23.83	24.12

WTR YR 1992 LOW 24.75 NOV 26

GROUND-WATER DATA

337

VIGO COUNTY

392820087242601. Local number, VI 7.

LOCATION.--Lat 39°28'20", long 87°24'26", in SE¹/₄, SE¹/₄, NE¹/₄, 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, 41.13 ft below land-surface datum, Jan. 27, 1991; lowest, 51.90 ft below land-surface datum, Sept. 29 to Oct. 1, 1972.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	46.11	46.05	45.41	45.33	45.69	45.57	45.28	43.92	---	45.39	43.43	44.06
10	46.13	45.92	45.30	45.43	45.72	45.60	45.23	44.11	44.99	45.44	43.06	44.22
15	46.13	45.90	45.25	45.51	45.74	45.67	45.27	44.31	45.11	45.44	43.06	44.37
20	46.21	45.90	45.20	45.58	45.77	45.60	45.13	44.51	45.19	45.14	43.27	44.33
25	46.29	45.82	45.21	45.66	45.62	45.50	44.62	44.69	45.22	44.56	43.59	44.33
EOM	46.21	45.58	45.28	45.67	45.54	45.34	43.81	44.91	45.27	43.96	43.87	44.16

WTR YR 1992 HIGH 43.00 AUG 18

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	46.13	46.09	45.44	45.35	45.69	45.58	45.29	43.96	---	45.42	43.53	44.08
10	46.13	45.95	45.32	45.46	45.73	45.64	45.24	44.14	45.02	45.45	43.10	44.25
15	46.15	45.91	45.27	45.55	45.76	45.67	45.30	44.36	45.13	45.45	43.08	44.37
20	46.22	45.93	45.22	45.60	45.79	45.61	45.19	44.55	45.22	45.24	43.33	44.35
25	46.31	45.85	45.23	45.69	45.66	45.54	44.75	44.72	45.24	44.67	43.65	44.35
EOM	46.24	45.61	45.29	45.68	45.56	45.37	44.15	44.95	45.29	44.04	43.92	44.21

WTR YR 1992 LOW 46.31 OCT 25

WABASH COUNTY

404424085422801. Local number, WB 3.

LOCATION.--Lat 40°44'24", long 85°42'28", in SE¹/₄, SE¹/₄, SW¹/₄, 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.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 43.85 ft below land-surface datum, Mar. 27, 1991; lowest, 48.20 ft below land-surface datum, Oct. 30, 1988.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	46.54	47.21	47.02	46.66	46.29	45.99	45.74	45.16	45.36	45.78	45.39	45.88
10	46.90	47.30	46.95	46.51	46.41	45.60	45.74	45.28	45.65	45.84	45.41	45.66
15	46.83	47.16	46.85	46.42	46.00	45.86	45.74	45.35	45.69	45.67	45.63	45.81
20	47.18	47.04	47.05	46.52	46.12	45.75	45.74	45.61	45.60	45.61	45.68	45.65
25	47.01	47.12	46.76	46.39	46.00	45.74	45.74	45.56	45.47	45.56	45.77	45.61
EOM	47.06	46.89	46.89	46.29	45.81	45.74	45.74	45.54	45.64	45.37	45.76	45.66

WTR YR 1992 HIGH 45.10 MAY 3

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	46.77	47.33	47.16	46.71	46.38	46.05	45.74	45.28	45.41	45.80	45.47	45.94
10	46.95	47.41	46.97	46.57	46.46	45.75	45.74	45.40	45.73	45.87	45.46	45.83
15	46.93	47.20	46.95	46.54	46.22	46.01	45.74	45.43	45.76	45.73	45.69	45.81
20	47.22	47.15	47.23	46.60	46.20	45.78	45.74	45.68	45.67	45.63	45.73	45.70
25	47.13	47.25	46.86	46.51	46.04	45.74	45.74	45.60	45.53	45.65	45.84	45.69
EOM	47.17	47.12	46.96	46.37	46.05	45.74	45.74	45.65	45.72	45.47	45.85	45.66

WTR YR 1992 LOW 47.47 NOV 9

GROUND-WATER DATA

WABASH COUNTY

403948085414601. Local number, WB 4.

LOCATION.--Lat 40°39'48", long 85°41'46", in NE¹/₄SE¹/₄NE¹/₄ 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 (revised) 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, 44.58 ft below land-surface datum, Dec. 23, 1989.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	43.23	43.69	43.60	43.51	43.34	43.16	43.03	42.55	42.52	42.90	43.05	43.43
10	43.55	43.70	43.55	43.40	43.49	42.65	42.89	42.54	42.89	42.92	42.95	43.18
15	43.47	43.58	43.60	43.34	42.94	43.14	43.02	42.58	42.87	42.78	43.23	43.40
20	43.83	43.44	43.79	43.45	43.29	43.08	42.49	42.77	42.88	43.00	43.27	43.12
25	43.55	43.64	43.55	43.34	43.21	43.05	42.62	42.65	42.71	42.98	43.41	43.23
EOM	43.60	43.37	43.75	43.26	43.05	42.95	42.49	42.70	42.89	42.79	43.34	43.34

WTR YR 1992 HIGH 42.42 MAY 2

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	43.51	43.90	43.83	43.55	43.46	43.26	43.23	42.68	42.59	42.97	43.13	43.53
10	43.62	43.88	43.61	43.48	43.66	42.89	43.06	42.66	42.93	42.95	43.03	43.41
15	43.60	43.61	43.72	43.51	43.23	43.32	43.20	42.63	43.00	42.90	43.26	43.44
20	43.91	43.57	44.07	43.53	43.43	43.15	42.67	42.82	42.97	43.05	43.33	43.27
25	43.69	43.83	43.68	43.53	43.25	43.21	42.66	42.72	42.79	43.09	43.45	43.33
EOM	43.74	43.66	43.82	43.40	43.33	43.09	42.55	42.83	42.91	43.02	43.46	43.40

WTR YR 1992 LOW 44.08 DEC 19

WARRICK COUNTY

380624087164801. Local number, WK 4.

LOCATION.--Lat 38°06'24", long 87°16'48", in S¹/₂SW¹/₄SW¹/₄ 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, 8.01 ft below land-surface datum, Mar. 22, 1991; lowest, 18.20 ft below land-surface datum, Oct. 30, 1988.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.97	11.87	10.19	9.73	9.82	9.73	8.85	9.29	9.39	9.63	9.98	11.00
10	12.04	11.83	10.13	9.74	9.98	9.69	9.09	9.51	9.52	9.68	10.25	11.24
15	12.02	11.81	10.03	9.58	9.75	9.67	9.22	9.54	9.69	9.70	10.54	11.42
20	12.18	11.41	10.10	9.68	9.60	9.07	8.70	9.63	9.77	9.61	10.79	11.51
25	12.24	10.91	9.85	9.62	9.52	9.02	8.82	9.50	9.74	9.57	11.07	11.64
EOM	11.97	10.72	9.79	9.71	9.64	8.78	9.05	9.44	9.82	9.71	11.09	11.54

WTR YR 1992 HIGH 8.67 APR 21

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.05	11.93	10.28	9.74	9.84	9.74	8.93	9.36	9.40	9.67	10.05	11.17
10	12.08	11.87	10.14	9.76	10.00	9.73	9.12	9.58	9.55	9.74	10.29	11.28
15	12.06	11.83	10.07	9.64	9.77	9.71	9.38	9.57	9.74	9.73	10.59	11.47
20	12.20	11.59	10.13	9.72	9.62	9.14	8.79	9.64	9.82	9.88	10.85	11.53
25	12.25	10.93	9.86	9.69	9.54	9.07	8.87	9.53	9.76	9.59	11.12	11.66
EOM	12.06	10.75	9.81	9.76	9.68	8.87	9.11	9.46	9.84	9.80	11.12	11.55

WTR YR 1992 LOW 12.25 OCT 25

GROUND-WATER DATA

339

WASHINGTON COUNTY

383012086124501. Local number, WA 2.

LOCATION.--Lat 38°30'12", long 86°12'45", IN NE¹/₄SW¹/₄SW¹/₄ 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.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 65.57 ft below land-surface datum, June 8, 1990; lowest, 74.12 ft below land-surface datum, Nov. 8, 1991.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	73.85	73.98	73.54	72.86	72.63	73.00	72.31	72.18	72.21	72.68	73.31	73.50
10	73.78	73.95	73.48	72.77	72.90	72.89	72.19	72.28	72.46	72.80	73.29	73.51
15	73.79	73.92	73.33	72.71	72.64	73.16	72.14	72.49	72.51	73.05	73.43	73.59
20	73.97	73.85	73.38	72.69	72.84	72.32	71.90	72.62	72.52	73.21	73.37	73.54
25	74.02	74.01	73.11	72.56	72.96	72.47	72.02	72.09	72.60	73.36	73.41	73.63
EOM	73.94	73.88	73.05	72.52	73.07	72.32	72.06	72.31	72.63	73.30	73.59	73.50

WTR YR 1992 HIGH 71.90 APR 20

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	73.86	74.05	73.68	73.00	72.70	73.06	72.41	72.26	72.26	72.73	73.35	73.65
10	73.87	74.06	73.55	72.82	72.99	73.06	72.27	72.42	72.52	72.96	73.50	73.69
15	73.79	73.96	73.42	72.89	72.89	73.36	72.27	72.61	72.58	73.12	73.51	73.75
20	74.05	73.95	73.56	72.79	72.94	72.41	71.98	72.65	72.55	73.25	73.37	73.65
25	74.04	74.05	73.18	72.77	73.36	72.57	72.11	72.13	72.63	73.54	73.49	73.67
EOM	73.99	73.97	73.13	72.67	73.19	72.43	72.20	72.43	72.76	73.32	73.82	73.60

WTR YR 1992 LOW 74.12 NOV 8

WAYNE COUNTY

394426085080601. Local number, WE 6.

LOCATION.--Lat 39°44'26", long 85°08'06", in SE¹/₄NW¹/₄NE¹/₄ 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, 9.03 ft below land-surface datum, Jan. 1, 1991; lowest, 21.68 ft below land-surface datum, Feb. 1, 1977.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.47	18.50	19.17	19.38	19.19	19.02	18.54	14.21	15.51	15.27	13.83	15.18
10	17.65	18.65	19.19	19.40	19.17	19.01	18.44	14.37	15.31	15.50	13.95	15.38
15	17.84	18.78	19.22	19.41	19.19	19.01	18.34	14.59	15.27	15.70	14.17	15.59
20	17.99	18.92	19.26	19.32	19.19	18.97	16.22	14.84	15.05	15.18	14.44	15.81
25	18.16	19.03	19.32	19.26	19.11	18.82	14.61	15.05	14.95	14.59	14.76	16.04
EOM	18.35	19.11	19.35	19.22	19.05	18.66	14.19	15.32	15.09	13.90	15.00	16.28

WTR YR 1992 HIGH 13.81 AUG 3

LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.50	18.53	19.18	19.39	19.19	19.02	18.57	14.25	15.54	15.31	13.85	15.22
10	17.69	18.68	19.19	19.40	19.17	19.02	18.46	14.42	15.35	15.55	13.99	15.42
15	17.87	18.81	19.23	19.42	19.20	19.01	18.36	14.64	15.29	15.72	14.21	15.63
20	18.02	18.94	19.27	19.34	19.20	18.98	16.66	14.88	15.09	15.23	14.51	15.85
25	18.19	19.04	19.33	19.27	19.13	18.85	14.80	15.09	14.97	14.74	14.82	16.09
EOM	18.38	19.13	19.36	19.23	19.07	18.69	14.21	15.37	15.12	13.95	15.04	16.32

WTR YR 1992 LOW 19.42 JAN 13

GROUND-WATER DATA

WELLS COUNTY

404331085064701. Local number, WL 4.

LOCATION.--Lat 40°43'31", long 85°06'47", in SE¹/₄NW¹/₄NE¹/₄ sec.12, T.26 N., R.12 E., Wells County, Hydrologic Unit 05120101, 1000 ft south of north entrance to Ouabache State Recreation Area, and 3.5 mi southeast of Bluffton. 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.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	24.23	24.27	23.92	24.06	23.57	23.47	22.82	22.14	22.50	23.39	22.26	23.17
10	24.34	24.32	24.08	24.07	23.75	22.85	22.66	22.29	22.84	23.53	22.47	22.69
15	24.36	24.39	24.01	23.89	23.40	23.20	22.72	22.65	23.08	22.09	22.71	22.72
20	24.45	24.17	24.07	23.82	23.35	22.80	21.13	22.86	22.87	21.48	22.88	22.74
25	24.43	24.17	24.15	23.72	23.35	22.79	21.59	22.69	22.82	22.10	23.07	22.22
EOM	24.20	23.88	24.24	23.69	23.55	22.55	22.08	22.63	23.23	21.92	22.98	22.59

WTR YR 1992 HIGH 21.11 APR 21

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	24.51	24.44	24.25	24.18	23.75	23.56	22.94	22.28	22.69	23.51	22.35	23.23
10	24.42	24.43	24.14	24.17	23.91	23.12	22.85	22.39	22.93	23.60	22.61	22.99
15	24.48	24.46	24.20	24.14	23.62	23.35	22.91	22.80	23.18	22.49	22.80	22.83
20	24.57	24.36	24.30	24.05	23.56	22.99	21.32	23.07	22.93	21.64	22.95	22.90
25	24.50	24.25	24.21	23.99	23.45	22.92	21.72	22.83	22.92	22.20	23.17	22.35
EOM	24.33	24.25	24.29	23.88	23.73	22.74	22.29	22.73	23.38	22.06	23.14	22.64

WTR YR 1992 LOW 24.61 OCT 19

WHITE COUNTY

404914086403001. Local number, WT 4.

LOCATION.--Lat 40°49'14", long 86°40'30", in NW¹/₄SW¹/₄NW¹/₄ 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, 1.94 ft below land-surface datum, Mar. 27, 1991; lowest, 13.66 ft below land-surface datum, Aug. 3, 1991.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.38	4.70	3.86	4.20	4.32	4.06	3.74	3.67	5.16	8.88	4.46	5.10
10	6.37	4.80	3.92	4.15	4.35	3.99	3.85	3.87	4.28	7.67	4.65	4.98
15	6.36	4.88	3.76	4.14	4.20	3.95	3.67	3.97	4.35	5.03	6.27	4.93
20	6.41	4.56	3.96	4.16	3.87	3.63	3.27	4.98	7.88	4.46	5.22	5.00
25	6.29	4.04	4.10	4.32	3.84	3.54	3.29	4.73	8.50	4.27	6.10	4.75
EOM	4.82	3.97	4.25	4.30	3.89	3.61	3.41	6.45	10.35	4.24	4.99	4.42

WTR YR 1992 HIGH 3.25 APR 21

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.47	4.80	4.00	4.25	4.45	4.09	3.86	3.75	5.85	9.58	4.51	5.13
10	6.40	4.84	3.97	4.20	4.41	4.07	3.91	3.89	4.31	8.77	4.70	5.03
15	6.42	4.93	3.84	4.31	4.36	3.99	3.75	4.02	4.62	5.38	6.46	4.98
20	6.47	4.85	4.05	4.26	3.89	3.74	3.40	6.02	8.82	4.48	5.31	5.07
25	6.44	4.12	4.14	4.35	3.88	3.59	3.32	5.56	8.77	4.36	6.27	4.79
EOM	5.00	4.14	4.29	4.36	4.01	3.66	3.49	6.74	10.88	4.32	5.02	4.46

WTR YR 1992 LOW 11.17 JUN 29

GROUND-WATER DATA

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WHITLEY COUNTY

410337085264201. Local number, WY 3.

LOCATION.--Lat 41°03'37", long 85°26'42", in NW¹/₄,SE¹/₄,NW¹/₂ 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.

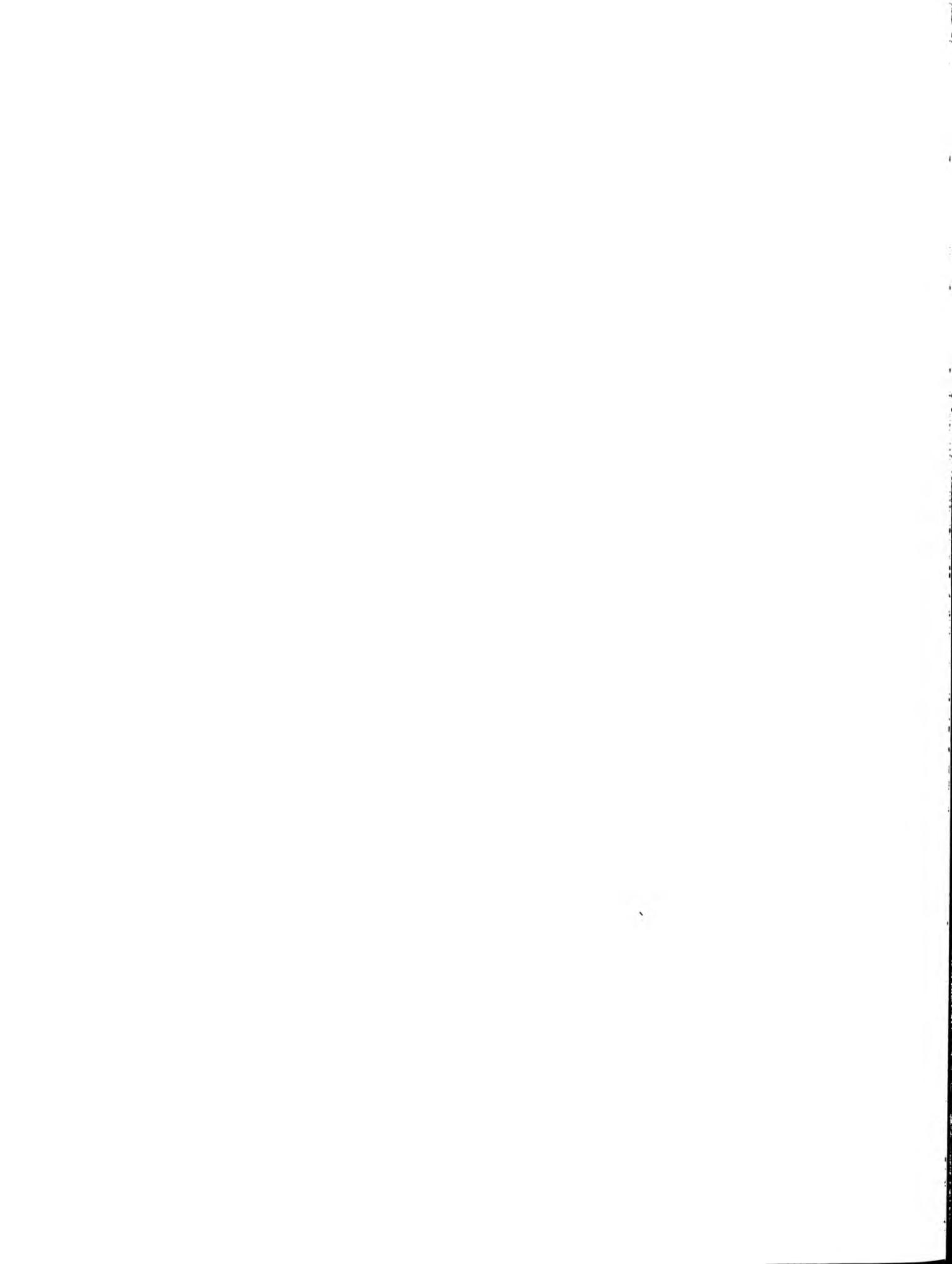
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 49.30 ft below land-surface datum, Mar. 27, 1976; lowest, 52.96 ft below land-surface datum, Dec. 7, 1989.

DAY	HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	51.77	51.74	51.57	51.45	51.29	51.32	51.78	51.82	51.89
10	---	---	---	51.76	51.83	51.29	51.29	51.36	51.51	51.80	51.73	51.72
15	---	---	51.95	51.63	51.44	51.62	51.39	51.35	51.60	51.63	51.87	51.93
20	---	---	52.03	51.76	51.63	51.54	51.19	51.50	51.62	51.81	51.86	51.74
25	---	---	51.88	51.73	51.61	51.51	51.24	51.43	51.50	51.73	51.93	51.85
EOM	---	---	52.01	51.71	51.56	51.34	51.22	51.39	51.69	51.64	51.88	51.87

WTR YR 1992 HIGH 51.17 MAY 1

DAY	LOWEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	51.90	51.87	51.68	51.58	51.41	51.40	51.84	51.88	52.01
10	---	---	---	51.82	51.93	51.48	51.46	51.45	51.61	51.90	51.83	51.92
15	---	---	52.13	51.84	51.69	51.79	51.60	51.47	51.70	51.77	51.93	51.98
20	---	---	52.30	51.90	51.78	51.62	51.29	51.57	51.75	51.85	51.90	51.88
25	---	---	51.98	51.93	51.66	51.62	51.31	51.49	51.60	51.89	52.05	51.95
EOM	---	---	52.09	51.87	51.68	51.52	51.37	51.53	51.79	51.82	51.94	51.97

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FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI).

Multiply inch-pound units	By	To obtain SI units
<i>Length</i>		
inches (in)	2.54×10^1	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^0	kilometers (km)
<i>Area</i>		
acres	4.047×10^3	square meters (m ²)
	4.047×10^{-1}	square hectometers (hm ²)
	4.047×10^{-3}	square kilometers (km ²)
square miles (mi ²)	2.590×10^0	square kilometers (km ²)
<i>Volume</i>		
gallons (gal)	3.785×10^0	liters (L)
	3.785×10^0	cubic decimeters (dm ³)
million gallons	3.785×10^{-3}	cubic meters (m ³)
	3.785×10^3	cubic meters (m ³)
	3.785×10^{-3}	cubic hectometers (hm ³)
cubic feet (ft ³)	2.832×10^1	cubic decimeters (dm ³)
	2.832×10^{-2}	cubic meters (m ³)
cfs-days	2.447×10^3	cubic meters (m ³)
	2.447×10^{-3}	cubic hectometers (hm ³)
acre-feet (acre-ft)	1.233×10^3	cubic meters (m ³)
	1.233×10^{-3}	cubic hectometers (hm ³)
	1.233×10^{-6}	cubic kilometers (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	2.832×10^1	liters per second (L/s)
	2.832×10^1	cubic decimeters per second (dm ³ /s)
	2.832×10^{-2}	cubic meters per second (m ³ /s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm ³ /s)
	6.309×10^{-5}	cubic meters per second (m ³ /s)
million gallons per day	4.381×10^1	cubic decimeters per second (dm ³ /s)
	4.381×10^{-2}	cubic meters per second (m ³ /s)
<i>Mass</i>		
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

