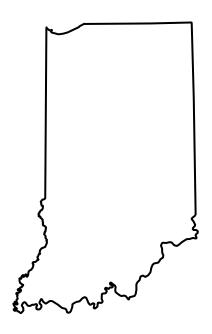
Water Resources Data Indiana Water Year 2003

By Scott E. Morlock, Hieu T. Nguyen and Deborah K. Majors



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

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U.S. Department of the Interior

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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 U.S. Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data:

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Water resources data for the 2003 water year for Indiana consists of records of discharge, stage, and water quality of streams and wells; reservoir stage and contents; and water levels in lakes and wells. This report contains records of discharge for 148 stream-gaging stations, stage for 16 stream stations, stage and contents for 1 reservoir, water quality for 5 streams, water temperature at 17 sites, sediment analysis for 2 streams, water levels for 8 lakes and 88 observation wells. Also included are records of miscellaneous discharge measurements, miscellaneous levels and miscellaneous water-quality, not part of the systematic data-collection program. Data contained in this report represent that part of the National Water Information System operated by the U.S. Geological Survey in Indiana in cooperation with State and Federal agencies.				
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Bartholomew 10 (e, h)	BA 10	390317085523701	499
Bartholomew 13 (e, h)	BA 13	390658085572201	500
Benton 4 (e, h)	BE 4	402851087213501	501
Boone 17 (e, h)	BO 17	400532086183901	502
Cass 3 (e, h)	CS 3	403407086175701	503
Clay 6 (e, h)	CY 6	392653087120501	504
Clay 7 (e, h)	CY 7	391124087134701	505
Decatur 2 (e,h)	DC 2	392022085371801	506
Delaware 4 (e, h)	DW 4	400541085213701	507
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Elkhart 9 (e, h)	EH 9	414419085595801	510
Fountain 3 (e, h)	FO 3	401200087121701	511
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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)

· ·	0 / 1	,	
		Droinago	Period
	64-4:	Drainage	
C4-4:	Station	area	of
Station name	number	(\mathbf{mi}^2)	record
	OHIO DIVED DAGIN		
	OHIO RIVER BASIN		
Little Williams Courts of Commencella	02274050	0.17	10/0 1001
Little Williams Creek at Connersville	03274950	9.16	1968-1991
East Fork Whitewater River at Richmond	03275500	121	1949-1978
South Hogan Creek near Dillsboro	03276700	38.1	1961-1993
Laughery Creek near Farmers Retreat (a)	03277000	248	1941-1973
Indian Creek near Corydon	03302500	129	1943-1993
Friday Branch tributary near Saint Meinrad (b)	03303276	.096	1981
Little Pigeon Creek near Tennyson	03304000	150	1944-1947
Pigeon Creek near Fort Branch	03322011	35.4	1986-2001
Pigeon Creek at Evansville	03322100	323	1960-1985
1 igeon creek at Evansyme	03322100	323	1700-1705
	WABASH RIVER BASIN		
	WADASH KI VEK DASHV		
Wabash River near New Corydon	03322500	262	1951-1988
Wabash River at Bluffton	03323000	532	1930-1971,
		0.0	1987-1992 (d)
Salamonie River at Portland	03324200	85.6	1959-1993
Little Mississinewa River at Union City	03325311	9.67	1982-1997
Mississinewa River near Eaton (b)	03326000	310	1952-1971
Wabash River at Delphi	03329500	4,072	1940-1971
Tippecanoe River near Warsaw	03331000	126	1943-1949
Tippecanoe River at Pulaski	03332000	1,089	1928-1931
Little Indian Creek near Royal Center (a)	03332000	35.0	1959-1973
Time and Discount Description (a)	03332345		
Tippecanoe River at Buffalo (e)	03332345	1,285	1986-1992
Pi M C I F III ()	02222400	150	1050 1053
Big Monon Creek near Francesville (a)	03332400	152	1959-1973
Tippecanoe River near Monticello (c)	03332500	1,732	1932-1981
Weesau Creek near Deedsville	03328430	8.87	1970-2001
Rattlesnake Creek near Patton	03329400	6.83	1968-1993
Wildcat Creek at Greentown	03333500	168	1945-1961
Marshall Ditch near Montmorenci	03335677	1.58	1990-1994
Indian Creek near Montmorenci	03335678	27.8	1990-1994
Little Pine Creek at Green Hill	03335679	42.3	1990-1994
Big Pine Creek near Williamsport	03335700	323	1955-1987
East Fork Coal Creek near Hillsboro	03339108	33.4	1968-1991
East Fork Coar Creek near Hinsboro	03337100	33.4	1900-1991
Coal Creek at Coal Creek	02220120	214	1965-1972
	03339120		
Little Vermilion River near Newport	03339150	237	1965-1972
Sugar Creek tributary near Deer Mill (b)	03339855	.45	1981
Sugar Creek near Byron (b)	03340000	670	1941-1971
Big Raccoon Creek at Mansfield (d)	03341000	248	1939-1958
Little Raccoon Creek near Catlin (d,g)	03341200	134	1957-1971
Big Raccoon Creek near Mecca	03341315	473	1988-1992
Brouilletts Creek near Universal (b)	03341420	321	1966-1971
North Coal Creek near Terre Haute	03341470	1.91	1974-1976
Honey Creek near Riley (b)	03341570	5.79	1981
Honey Creek hear kiney (b)	000 11070	2.77	1501
West Fork Busseron Creek near Hymera	03342150	14.4	1966-1986
Mud Creek near Cass	03342150	9.16	1981-1991
	03342244		
Mud Creek near Dugger		11.9	1966-1981
Busseron Creek near Sullivan	03342300	138	1966-1986
Buttermilk Creek near Paxton	03342350	16.5	1966-1973
Buttermilk Creek near Sullivan	03342360	17.6	1975-1978
South Fork Smalls Creek at Bruceville (b,g)	03342800	4.94	1972-1975
Killbuck Creek near Gaston	03348020	25.5	1968-1991
Killbuck Creek near Anderson	03348100	97.8	1964-1968
White River near Noblesville	03348500	828	1915-1926,
······································	022 10200	525	1929-1974 (b)
			1/2/-1/17 (0)

	G. A	Drainage	Period
Station name	Station number	area (mi ²)	of record
	numou.	(100014
WA	ABASH RIVER BASINConti	inued	
Cicero Creek near Arcadia (a)	03349500	131	1955-1976
Little Cicero Creek near Arcadia (a)	03349700	40.4	1956-1976
Cicero Creek near Cicero	03350000	196	1946-1954
Hinkle Creek near Cicero (a)	03350100	18.5	1956-1976
Cicero Creek at Noblesville	03350500	216	1950-1980, 1986-1992
			1700-1772
Sugar Creek near Middletown	03351400	5.80	1969-1989
Lawrence Creek at Fort Benjamin Harrison	03352000	2.74	1952-1956,
Mud Creek at Indianapolis (a)	03352200	42.4	1958-1969 1958-1976
Fall Creek at 16th St. at Indianapolis	03352200	317	1986-1991
Pleasant Run at Brookville Road at Indianapolis	03353160	10.1	1960-1981
December 1 and 1 Process Process	02252190	4.4	1070 1003
Bean Creek at Indianapolis	03353180 03353551	4.4 6.28	1970-1993 1989-2000
Little Eagle Creek at 52 nd St. at Indianapolis Guion Creek aby 52 nd St. at Indianapolis	03353560	4.10	1989-2000
Falcon Creek at 30th St. at Indianapolis	03353583	4.15	1989-2001
Little Buck Creek near Southport	03353630	5.75	1989-2000
	02252/25	1.87	1000 2001
Derbyshire Creek at Southport Little Buck Creek at Southport	03353635 03353636	1.76 10.8	1989-2001 1989-2001
White River at Waverly	03353660	2,026	1986-1988
Beanblossom Creek at Beanblossom	03354500	14.6	1952-1993
Bear Creek near Trevlac (a)	03355000	6.94	1952-1973
Describiosom Considerat Delan	02257000	100	1047 1070
Beanblossom Creek at Dolan Beanblossom Creek near Bloomington	03356000 03356500	100 112	1946-1978 1931-1933
Big Walnut Creek at Greencastle	03357420	216	1975-1982
Deer Creek near Putnamville	03359500	59.0	1955-1965,
			1968-1972
Jordan Creek near Jordan (b)	03359980	25.9	1981
Kessinger Ditch near Monroe City	03360895	56.2	1992-1998
Driftwood River near Edinburgh	03363000	1,060	1940-1991
Haw Creek near Clifford	03364200	47.5	1967-1991
Sand Creek near Brewersville	03365000	155	1948-1986
Von Fange Ditch at Seymour	03365575	4.17	1994-1997
Graham Creek near Vernon	03366000	77.2	1955-1973
Muscatatuck River near Austin	03367000	359	1932-1943,
	022/8500	105	1944-1971 (f)
Stucker Creek near Austin Vernon Fork Muscatatuck River near Butlerville	03367500 03369000	127 85.9	1932-1933 1942-2001
Vernon Fork near Crothersville	03370000	391	1932-1933
Muscatatuck River near Tampico	03370500	960	1939
Muscatatuck River near Vallonia South Fork Salt Creek at Kurtz	03371000 03371600	1,134 38.2	1932-1933 1961-1971,
South Fork Sait Creek at Kurtz	033/1000	36.2	1901-1971, 1972-1975 (e)
North Fork Salt Creek at Nashville (a)	03371650	76.1	1962-1976
North Fork Salt Creek near Belmont	03372000	120	1946-1971
Stephens Creek near Bloomington	03372300	10.9	1970-1991
Clear Creek near Harrodsburg	03372300	55.2	1960-1971
Salt Creek near Peerless	03373000	573	1939-1950,
			1957-1971,
Indian Creek near Springville (a)	02272200	Z0.7	1971-1984 (d)
Lost River near Leipsic	03373200 03373530	60.7 34.8	1961-1973 1992-2001
Lost Edici near Delpsic	05575550	5-1.0	1//2-2001
Lost River near West Baden Springs	03373700	287	1964-1993
White River at Hazelton (h)	03374100	11,305	1928-1938
Hall Creek at St. Anthony	03375800	21.8	1970-2001
Patoka River near Jasper (g) Flat Creek near Otwell	03376000 03376260	348 21.3	1944-1947 1965-1982
Tank Cabon Mona Oblica	00070 <u>0</u> 00	=1.0	1705-1702
Little Flat Creek near Otwell (b)	03376279	6.56	1981

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

Station name	Station number	Drainage area (mi ²)	Period of record
STREAMS	S TRIBUTARY TO LAKE M	IICHIGAN	
Little Calumet at Gary	04093200	5.82	1958-1971 1984-2002(e)
Burns Ditch at Gary (g)	04093500	160	1943-1991
Salt Creek near McCool	04094500	74.6	1945-1991
Dunes Creek at Porter	04095050	3.40	1979-1982
Derby Ditch at Beverly Shores	04095100	4.64	1980
Trail Creek at Michigan City	04095300	54.1	1969-1994
Lime Lake outlet at Panama	04097970	17.5	1969-1986
Fawn River at Orland	04098000	86.4	1943-1947
Pigeon Creek and Hogback Lake near Angola	04099500	103	1946-1974
Pretty Lake Inlet near Stroh	04099610	1.96	1963-1980
Christiana Creek at Elkhart	04100000	127	1947-1952
North Branch Elkhart River near Cosperville	04100220	134	1951-1971
Rimmel Branch near Albion	04100295	10.7	1979-2001
Turkey Creek at Syracuse	04100465	43.8	1969-1987
STREA	AMS TRIBUTARY TO LAK	E ERIE	
St. Joseph River at Hursh	04178500	734	1950-1954
St. Joseph River at Cedarville	04179000	763	1931-1932,
_			1956-1981
Cedar Creek near Auburn (a)	04179500	87.3	1943-1973
Harber Ditch at Fort Wayne	04182590	21.9	1960-1964 (g),
			1961-1964 (e), 1964-1991
St. Marys River at Fort Wayne	04182700	810	1905-1906
Spy Run Creek at Fort Wayne	04182810	14.0	1983-2001
UPP	ER MISSISSIPPI RIVER BA	ASIN	
Kingsbury Creek near LaPorte	05515400	7.08	1970-1986
Yellow River near Bremen (a)	05516000	135	1955-1973
Singleton Ditch near Hebron	05518500	34.2	1949-1951
Singleton Ditch near Schneider	05519000	123	1948-2001
West Creek near Schneider	05519500	54.7	1948-1952,
Singleton Ditch at Illinoi II	05520000	220	1954-1972
Singleton Ditch at Illinoi, IL	05520000	22U	1945-1977
Oliver Ditch near Aix	05521500	79.6	1948-1951
Iroquois River near North Marion	05522000	144	1948-1993
Bice Ditch at South Marion	05523000	21.8	1948-1993
Slough Creek near Collegeville	05523500	83.7	1948-1952, 1953-1982
Carpenter Creek at Egypt	05524000	44.8	1953-1982 1948-1952,
Carpenter Creek at Egypt	03324000	44.0	1948-1952, 1953-1982
			1/33-1704

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

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

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

Station name	Station number	Drainage area (mi²)	Type of Record	Period of record
	оню	RIVER BASIN		
Whitewater River near Alpine	03275000	529	C,T,S	1987-94, 1999-2000
East Fork Whitewater River at Abington	03275600	198	C T T	1968-79 1969-76, 1970-71, 1973-76
East Fork Whitewater at Brookville Whitewater River at Brookville	03276000 03276500	380 1224	C,T T C	1974-75 1974-81, 1974-86
South Hogan Creek near Dillsboro	03276700	38.1	C,T,S	1961-93
Trib to Friday Branch at St. Meinard	03303276	.096	C,T,S	1980-81
	WABAS	H RIVER BASIN		
Wabash River near New Corydon Wabash River at Huntington Salamonie Creek at Warren Mississinewa River at Marion Eel River near Logansport	03322500 03323500 03324288 03326500 03328500	262 710 402 682 789	C T T C,T S,T	1969-73 1963-77 1980-81 1975-76,79 1969-80
Wildcat Creek near Lafayette	03335000	794	C	1970-79,
Wabash River at Lafayette	03335500	7247	T T T	1970-74 1954-64, 1967-75,
Big Pine Creek at Williamsport	03335700	323	T S C T	1978-80 1970-76, 1970-75,
Big Raccoon Creek near Fincastle	03340800	132	C,T,S T	1980-81 1965-77,
Honey Creek at Riley	03341570	5.79	C C,T,S	1975-77 1980-81
Wabash River near Sullivan Wabash River at Riverton	03341805 03342000	12,600 13,100	C,T T T	1963-64 1954-61, 1962-65,
South Fork Smalls Creek at Bruceville White River at Noblesville White River near Nora	03342800 03348500 03351000	4.94 814 1200	T C T T	1967-78 1973-75 1952-76 1954-60, 1962-72
White River near Centerton	03354000	2,444	C,S T	1986-95 1953-56 1966-67 1970-72 1977-80
Big Walnut Creek at Greencastle Mill Creek at Cataract Jordan Creek at Jordan Big Blue River at Carthage	03357420 03358000 03359980 03361000	216 245 25.9 184	S C,T C,T C,T T C,T S C	1982-85 1965-77 1973-77 1978-82 1980-81 1974-77, 1979-82, 1977-81, 1973-77
Flatrock River at St. Paul Clifty Creek at Hartsville East Fork White River at Seymour	03363500 03364500 03365500	303 91.4 2333	C,T C,T S T	1976-79 1970-75 1966-80, 1954-79
North Fork Salt Creek near Nashville Salt Creek near Harrodsburg	03371650 03372500	761 441	С,Т Т	1934-79 1974-76 1966-76
White River at Petersburg White River near Hazelton	03374000 03374100	11125 11305	T T S C T	1964-77 1973-81, 1973-83,
Patoka River near English	03374470	308	T C	1973-86 1970-76, 1969-76
Little Flat Creek near Otwell Wabash River at New Harmony	03376279 03378500	6.36 29234	C,T,S T C S	1969-76 1980-81 1974-80 1974-86 1974-83

Station name	Station number	Drainage area (mi ²)	Type of Record	Period of record
	STREAM TRIBUT	ARY TO LAKE MICH	IGAN	
Trail Creek near Michigan City	04095300	54.1	C,T S	1977-81 1990-94
	STREAMS TRIE	BUTARY TO LAKE EF	RIE	
St. Joseph River near Newville St. Marys River at Wilshire St. Marys River near Ft Wayne	04178100 04181050 04182000	615 435 762	C C S T	1996-99, 1969-73 1969-73 1953-67,
	UPPER MISS	ISSIPPI RIVER BASI		1964-67
Yellow Creek near Plymouth	05516500	29.4	S,T	1979-81

WATER RESOURCES DATA—INDIANA, 2003

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 2003 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 148 gaging stations, stage at 16 gaging stations, stage and contents at 1 reservoir, water quality at 7 stream sites, water temperature at 17 sites, sediment data at 2 sites, water levels at 8 lakes, and 88 observation wells. Also included are streamflow records for discharge at miscellaneous sites, and observation well water levels from special studies done in Lake county. Locations of the streamflow and water-quality sites are shown on figures 6 and 7. The locations of lakes and ground-water observation wells having 2003 water-level records are shown on figures 8, 9 and 10. 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 the present format, 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 through1974 water years were published under the title "Ground-Water Levels in the United States." The above mentioned Water-Supply Papers may be consulted in the libraries of the principal cities of the United States and may be purchased from U.S. Geological Survey, Branch of Information Services, Box 25286, Denver, CO 80225-0286.

Publications similar to this report are published annually by the U.S. Geological Survey for all States. These official U.S. Geological Survey reports have an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report IN-03-1." 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.

The U.S. Geological Survey has compiled and disseminated estimates of water use for the Nation at 5-year intervals since 1950. A large amount of the Indiana withdrawal data presented in the publication, "Estimated Use of Water in the United States in 2000" U.S. Geological Survey Circular 1268, were provided by the Indiana Department of Natural Resources, Division of Water. The data indicated that in 2000 over 10.1 billion gallons per day were withdrawn from the surface- and ground-water resources of Indiana to meet the needs of its citizens. Approximately 94 percent of this withdrawal was from surface-water sources. Nearly 6.7 billion gallons per day of surface water was used for thermoelectric power production, making it the largest category of use in Indiana. A small percentage of those withdrawals were consumed in the power-production process and the rest of the water was returned to the source, making it available for future use.

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

COOPERATION

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

State of Indiana, Department of Natural Resources, John Goss, Director, through the Bureau of Resource and Regulation, Paul Ehret, Deputy Director

State of Indiana, Department of Environmental Management, Lori F. Kaplan, Commissioner, Mary Bruce Palin, Deputy Assistant Commissioner, Office of Water Management

State of Indiana, Department of Transportation, J. Bryan Nicol, Commissioner

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

The following organizations aided in collecting records: The cities of Anderson, Carmel, Elkhart, Fort Wayne, and Indianapolis; Hoosier Energy; Indianapolis Water Co.; AES Energy; CINERGY; Jefferson Smurfit Corp.; Eli Lilly and Co.; Northern Indiana Public Service Co.

SUMMARY OF HYDROLOGIC CONDITIONS

Descriptions of precipitation and flooding during the 2003 water year in the summary of Hydrologic Conditions are based on information from the National Weather Service, Monthly Reports of River Flood Conditions, October 2002 through September 2003, by the National Weather Service Indianapolis, Indiana; North Webster, Indiana; and Paducah, Kentucky offices.

Precipitation

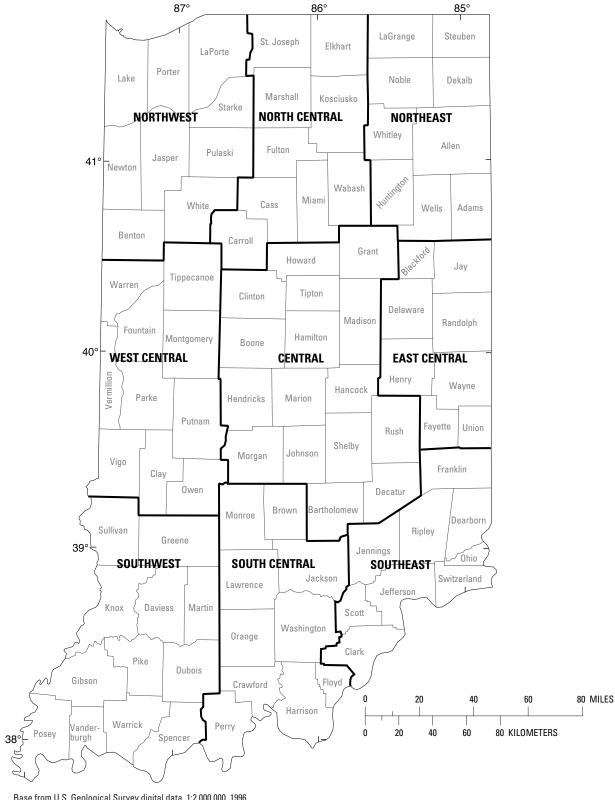
The climate of Indiana is continental, influenced mainly by eastward-moving cold polar and warm gulf air masses. The low-pressure centers formed by the interaction of these air masses are the major sources of Indiana precipitation. Spring and early summer are normally the wettest periods of the year, as storm systems tap moisture from the Gulf of Mexico and travel across Indiana. Early fall is generally the driest period. Seasonal patterns may vary geographically, particularly in the summer when isolated thunderstorms are common and during the winter when lake-effect snows can affect northern Indiana. The average annual precipitation ranges geographically from 37 inches in northern Indiana to 46 inches in southern Indiana (fig. 2). Snowfall accounts for 2 to 7 inches of the average annual precipitation, with the greatest amount of snowfall in northern Indiana (Clark, 1980).

An "overall picture" of precipitation patterns in Indiana during the 2003 water year is presented in table 1. Table 1 shows monthly precipitation by Indiana climate division (fig. 1) during the 2003 water year, expressed as percentage of the mean monthly precipitation for 1971–2000 (mean monthly precipitation for 1971–2000 was obtained from the Midwest Climate Center, http://mcc.sws.uiuc.edu). For purposes of this discussion, mean precipitation for 1971–2000 is termed "normal". Table 1 can be viewed as a record by month and geographic area of precipitation departures from normal.

The 2003 water year began with dry conditions across northern and central Indiana. Precipitation was below normal across all three northern climate divisions from October through April. Precipitation was below normal across central Indiana during the same period, except for February. A major winter storm on February 14 and 15 brought heavy rain and snow to parts of central Indiana.

This storm caused above-normal precipitation in all three southern Indiana climate divisions for February. Southern Indiana also received above-normal precipitation in October and December from several storm systems that were confined to southern parts of the state. In April, there was below-normal precipitation across northern and central Indiana and near-normal precipitation across southern Indiana.

A series of widespread storms May 4–19 produced above normal precipitation for May across all Indiana climate divisions. June was drier than normal across the northern and central climate divisions and was near normal across the southern climate divisions. Heavy localized rain occurred across southern Indiana,

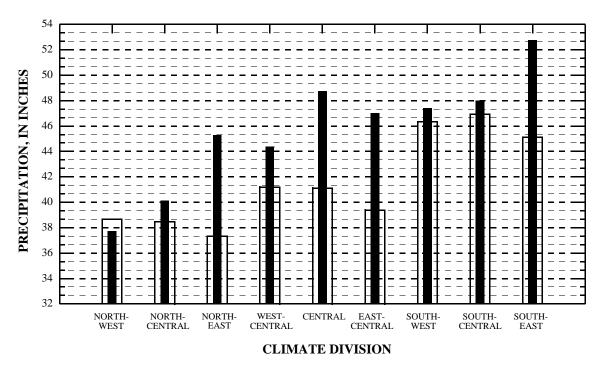


Base from U.S. Geological Survey digital data, 1:2,000,000, 1996 Albers Equal-Area Conic projection Standard parallels 29°30' and 45°30' central meridian -96°

EXPLANATION Climate division boundaries

Figure 1.--Climate divisions in Indiana.

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



EXPLANATION

Total precipitation, Mean annual precipitation, 2003 water year 1971–2000

Figure 2.--Indiana precipitation during water-year 2003 and mean annual precipitation for 1971–2000.

Table 1.--Monthly precipitation during water-year 2003 as a percentage of mean monthly precipitation, 1971–2000.

Climate Division	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Northwest	63	55	55	49	58	39	78	155	66	289	56	119
North-central	57	61	61	50	74	53	86	166	52	237	103	173
Northeast	61	83	67	52	93	84	83	189	79	241	139	199
West-central	96	62	70	55	105	51	72	136	72	190	71	296
Central	87	79	91	64	135	81	60	149	74	225	96	265
East-central	86	80	98	70	112	80	36	139	81	224	135	268
Southwest	130	66	123	50	170	66	92	140	100	101	73	130
South-central	132	70	92	51	154	62	89	133	102	141	64	146
Southeast	116	86	131	73	142	61	101	139	89	170	104	208

June 10–16. July brought 2 weeks of torrential rains across much of Indiana, starting on July 4. The heaviest rains fell in north-central Indiana July 5–10 (Arvin, 2003), where rainfall totals were as high as 13 inches (about one third of the normal total annual precipitation for north-central Indiana). Because of these storms, July precipitation amounts were 200 to 300 percent above normal across northern and central Indiana climate divisions.

In August, localized thunderstorms caused above-normal precipitation in the eastern climate divisions; the western and central climate divisions were below or near normal. An intense storm began September 1. Central Indiana received 6 to 8 inches of rain in less than 24 hours. Indianapolis in central Indiana received 7.2 inches of rain, breaking the previous 108-year-old rainfall record. Rainfall totals for September were up to nearly 300 percent of normal in the central climate divisions. Though not as affected by this storm as central Indiana, northern and southern parts of the state also received up to 4 inches of rainfall. While the 2003 water year was relatively dry across of much of Indiana for 9 of 12 months, the widespread rainfall in May, torrential rains in July, and intense September storm caused total annual precipitation amounts to be greater than normal in all climate divisions except for the northwest (fig. 2).

Surface Water

The Ohio River, Upper Mississippi River, Lake Michigan, and Lake Erie Basins are the major drainage basins in Indiana. Most of Indiana (24,000 square miles) is drained by the Wabash River of the Ohio River Basin.

The sources of flow in Indiana streams and rivers are ground water and direct runoff from precipitation. The majority of streamflow during normal and low-flow periods is from ground water; during high-flow periods, a significant amount of streamflow is runoff. Of the 38 inches of average annual precipitation in Indiana, it is estimated that about 26 inches are lost to evapotranspiration (Clark, 1980). The remaining 12 inches are considered the total-average annual runoff for Indiana. Of the 12-inch total-average annual runoff, about 9 inches are direct-surface runoff to streams and lakes, while the remaining 3 inches recharge ground water (Clark, 1980).

A predominant characteristic of streamflow across Indiana is variability. Streamflow is ultimately reflective of the runoff resulting from precipitation, which is highly variable depending on geography and time (Clark, 1980). Thus low-flow periods resulting from droughts or floods resulting from storms have occurred historically in every month. The variability of flows in Indiana streams and rivers was evident during the 2003 water year.

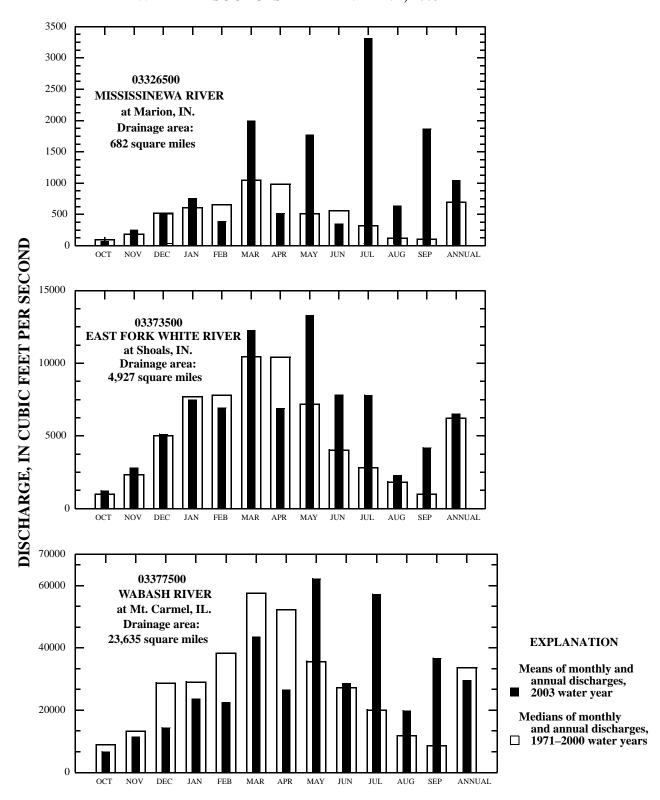


Figure 3.--Mean discharges at three Indiana streamflow-gaging stations during water-year 2003 and median discharges for period of 1971–2000.

Figure 3 illustrates discharge during the 2003 water year, as compared to medians of monthly and yearly discharges during 1971–2000 for three USGS Indiana discharge-gaging stations: Mississinewa River at Marion (03326500); East Fork White River at Shoals (03373500); and Wabash River at Mount Carmel, Illinois (03377500). Median monthly and yearly discharges for 1971–2000 are considered to be normal streamflows in this discussion because the period includes 30 years of record (this allows the 2003 water year streamflows to be quantified relative to normal streamflows).

The Wabash River at Mount Carmel station drains more than 95 percent of Indiana and is influenced by climate factors across the entire State. Mean streamflows for the 2003 water year at this station were below normal October through April, reflecting the below-normal to near-normal precipitation amounts across much of the State (fig. 3). In June and August mean streamflows were slightly above normal, as streamflow declined after the rainfall of the preceding months. Mean streamflows were much greater than normal in May, August, and September because of widespread heavy rainfall in those months.

While precipitation and streamflows were near or below normal for much of the 2003 water year, Indiana did not experience drought conditions. Flooding occurred in the State during the year; in some cases it was severe. Flooding during the period October through April and during June and August was mainly confined to small geographic areas and limited to lowland flooding, with little damage to property.

In May, there was widespread flooding across Indiana from rainfall May 4–19. Rivers affected by the flooding included the Wabash, White, East Fork White, and Muscatatuck. While May flooding was widespread, it was mostly confined to lowlands, with little damage to property.

Severe flooding resulted from the torrential rains of early July. During this flooding, new record gage heights or streamflows were set at 12 USGS streamflow-gaging stations (Arvin, 2003). Affected rivers and streams included the Wabash, Tippecanoe, White, St. Marys, Maumee, and Iroquois Rivers and Deer, Wildcat, and Kokomo Creeks. The July flooding resulted in loss of life and extensive damage to public and private property. Significant flooding occurred in Huntington and Decatur in northeastern Indiana and Kokomo and Delphi in north-central Indiana. By the end of July, 40 Indiana counties were listed by the Federal Emergency Management Agency as declared disaster areas (Arvin, 2003).

Extensive flooding affected much of central Indiana because of record rainfalls on September 1. The flooding resulted in loss of life and affected hundreds of homes and numerous roads. Parts of Indianapolis and surrounding communities were affected by the flooding. Flooded rivers and streams included White and Big Blue Rivers and Sugar, Pipe, Youngs, Pipe, Fall, and White Lick Creeks. A record gage height and streamflow was set at the USGS streamflow-gaging stations White River near Centerton and White Lick Creek at Mooresville, both in central Indiana. Normally Indiana streamflows in September are relatively low because of dry conditions, but September of the 2003 water year ended with lowland flooding in parts of Indiana, mainly along the lower reaches of the Wabash River.

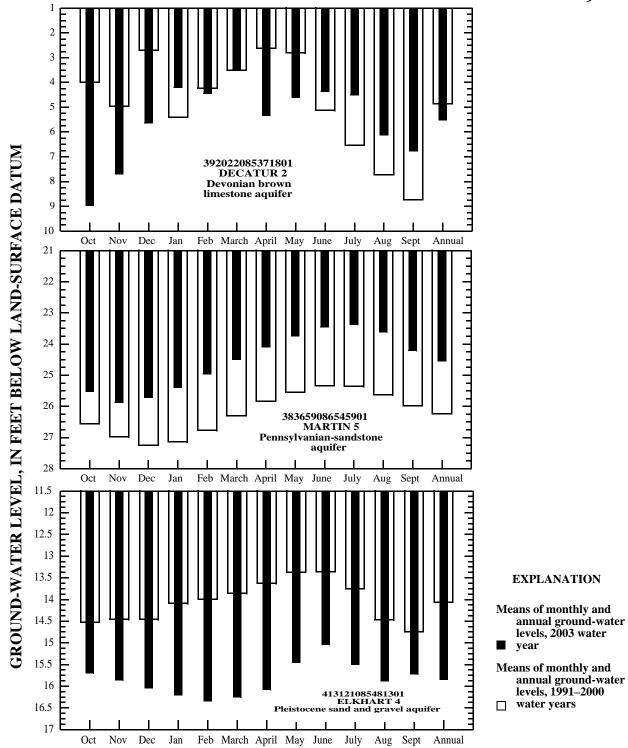


Figure 4.--Monthly and annual mean of daily minimum ground-water levels at three Indiana ground-water-observation wells during water-year 2003 and mean of monthly and annual minimum ground-water levels for period of 1991–2000.

Ground Water

Ground water in Indiana occurs in a variety of unconsolidated- and bedrock-aquifer systems. Changes in ground-water levels are produced by natural influences such as precipitation and by man-made causes such as ground-water withdrawals. Normal annual ground-water-level changes are typically in the range of 3 to 7 feet in most aquifers. Statewide, ground-water levels have shown no long-term rising or declining trends (Clark, 1980).

Generally in Indiana, ground-water levels follow a 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 reduction in evapotranspiration (Clark, 1980).

This seasonal pattern is seen in plots of mean ground-water levels for 1991 to 2000 for three USGS index ground-water-observation wells in Indiana: Decatur 2, Martin 5, and Elkhart 4 (fig. 4). Mean ground-water levels for this period are considered to be normal for purposes of this discussion. Figure 4 compares the 2003 water year with normal ground-water levels for the three wells. In this discussion, the term "ground-water level(s)" refers to a height above an arbitrary datum; however, ground-water-level data normally are quantified in terms of distance lower than a land-surface datum.

The observation well Decatur 2 is in a Devonian brown limestone aquifer in central Indiana. For Decatur 2, ground-water levels were lower than normal for October, November, December, February, April, and May; they were normal for March and above normal for January, June, July, August, and September (fig. 4).

Martin 5 is in a Pennsylvanian-sandstone aquifer in southwestern Indiana. Ground-water levels for Martin 5 were higher than normal for the 2003 water year (fig. 4).

The index observation well Elkhart 4 is in north-central Indiana in a Pleistocene sand and gravel aquifer. Ground-water levels were lower than normal for the entire 2003 water year (fig. 4).

Of 88 USGS ground-water-observation wells in Indiana, 5 wells had record-high water levels and 16 wells had record-low water levels at some time during the 2003 water year.

DOWNSTREAM ORDER AND STATION NUMBER

Since October 1, 1950, hydrologic-station records in USGS reports have been listed in order of downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary entering between two main-stream stations is listed between those stations. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is located with respect to the stream to which it is immediately tributary is indicated by an indention in that list of stations in the front of this report. Each indentation represents one rank. This downstream order and system of indentation indicates which stations are on tributaries between any two stations and the rank of the tributary on which each station is located.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These station numbers are in the same downstream order used in this report. In assigning a station number, 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 composed of both types of stations. Gaps are consecutive. The complete 8-digit (or 10-digit) number for each station such as 03335500, which appears just to the left of the station name, includes a 2-digit part number "03" plus the 6-digit (or 8-digit) downstream order number "335500." In areas of high station density, an additional two digits may be added to the station identification number to yield a 10-digit number. The stations are numbered in downstream order as described above between stations of consecutive 8-digit numbers.

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The USGS well and miscellaneous site-numbering system is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, and the next 7 digits denote degrees, minutes, and seconds of longitude; the last 2 digits are a sequential number for wells within a 1-second grid. In the event that the latitude-longitude coordinates for a well and miscellaneous site are the same, a sequential number such as "01," "02," and so forth, would be assigned as one would for wells (see fig. 5). The 8-digit, downstream order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

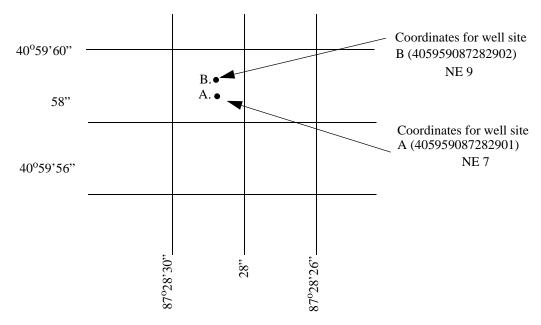


Figure 5.--System for numbering wells and miscellaneous sites (latitude and longitude).

In addition, each well in Indiana carries dual-identification numbers for example, NE 7. 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.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Benchmark Network is a network of 61 sites in small drainage basins in 39 States that was established in 1963 to provide consistent streamflow data representative of undeveloped watersheds nationwide, and from which data could be analyzed on a continuing basis for use in comparison and contrast with conditions observed in basins more obviously affected by human activities. At selected sites, water-quality information is being gathered on major ions and nutrients, primarily to assess the effects of acid deposition on stream chemistry. Additional information on the Hydrologic Benchmark Program may be accessed from http://water.usgs.gov/hbn/.

National Stream-Quality Accounting Network (NASQAN) is a network of sites used to monitor the water quality of large rivers within the Nation's largest river basins. From 1995 through 1999, a network of approximately 40 stations was operated in the Mississippi, Columbia, Colorado, and Rio Grande River basins. For the period 2000 through 2004, sampling was reduced to a few index stations on the Colorado and Columbia Rivers so that a network of 5 stations could be implemented on the Yukon River. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions,

dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment (NAWQA) Program; (3) to characterize processes unique to large-river systems such as storage and remobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals. Additional information about the NASQAN Program may be accessed from http://water.usgs.gov/nasqan/.

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) is a network of monitoring sites that provide continuous measurement and assessment of the chemical constituents in precipitation throughout the United States. As the lead Federal agency, the USGS works together with over 100 organizations to provide a long-term, spatial and temporal record of atmospheric deposition generated from this network of 250 precipitation-chemistry monitoring sites. The USGS supports 74 of these 250 sites. This long-term, nationally consistent monitoring program, coupled with ecosystem research, provides critical information toward a national scorecard to evaluate the effectiveness of ongoing and future regulations intended to reduce atmospheric emissions and subsequent impacts to the Nation's land and water resources. Reports and other information on the NADP/NTN Program, as well as data from the individual sites, may be accessed from http://bqs.usgs.gov/acidrain/.

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

Assessment activities are being conducted in 42 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents is measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for water-resources managers to use in making decisions and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and Federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key Federal, State, and local water-resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semi-annually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities to collaborate efforts among the agencies. Additional information about the NAWQA Program may be accessed from http://water.usgs.gov/nawqa/.

The USGS National Streamflow Information Program (NSIP) is a long-term program with goals to provide framework streamflow data across the Nation. Included in the program are creation of a permanent Federally funded streamflow network, research on the nature of streamflow, regional assessments of streamflow data and databases, and upgrades in the streamflow information delivery systems. Additional information about NSIP may be accessed from http://water.usgs.gov/nsip/.

EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS

Data Collection and Computation

The base data collected at gaging stations (figs. 6 and 7) consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and volume of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from a water-stage recorder that is either downloaded electronically in the field to a laptop computer or similar device or is transmitted using telemetry such as GOES satellite, land-line or cellular-phone modems, or by radio transmission. Measurements of discharge are made with mechanical or hydroacoustic current meters, using the general methods adopted by the USGS. These methods are described in standard textbooks, USGS Water-Supply Paper 2175, and the Techniques of Water-Resources Investigations of the United States Geological Survey (TWRIs), Book 3, Chapters A1 through A19 and Book 8, Chapters A2 and B2. The methods are consistent with the American Society for Testing and Materials (ASTM) standards and generally follow the standards of the International Organization for Standards (ISO). USGS guidelines, policies, and reports regarding hydroacoustic current meters may be accessed from http://hydroacoustics.usgs.gov.

For stream-gaging stations, discharge-rating tables for any stage are prepared from stage-discharge curves. If extensions to the rating curves are necessary to express discharge greater than measured, the extensions are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, or computation of flow over dams and weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharges are computed from the daily values. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features of the stream channel, the daily mean discharge is computed by the shifting-control method in which correction factors based on individual discharge measurements and notes by engineers and observers are used when applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the controlling section, the daily mean discharge is computed by the shifting-control method.

The stage-discharge relation at some stream-gaging stations is affected by backwater from reservoirs, tributary streams, or other sources. Such an occurrence 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 at some distance from the base gage.

An index velocity is measured using fixed hydroacoustic current meters at some stream-gaging stations and this index velocity is used to calculate an average velocity for the flow in the stream. This average velocity along with a stage-area relation is then used to calculate average discharge.

At some stations, the stage-discharge relation is affected by changing stage. At these stations, the rate of change in stage is used as a factor in computing discharge.

At some stream-gaging stations in the northern United States, the stage-discharge relation is affected by ice in the winter; therefore, computation of the discharge in the usual manner is impossible. Discharge for periods of ice effect is computed on the basis of gage-height record and occasional winter-discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge from other stations in the same or nearby basins.

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

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

For some stream-gaging stations, periods of time occur when no gage-height record is obtained or the recorded gage height is faulty and cannot be used to compute daily discharge or contents. Such a situation can happen when the recorder stops or otherwise fails to operate properly, the intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records from other stations in the same or nearby basins. Likewise, lake or reservoir volumes may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

Data Presentation

The records published for each continuous-record surface-water discharge station (stream-gaging station) consist of five parts: (1) the station manuscript or description; (2) the data table of daily mean values of discharge for the current water year with summary data; (3) a tabular statistical summary of monthly mean flow data for a designated period, by water year; (4) 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; and (5) a hydrograph of discharge.

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 follow that clarify information presented under the various headings of the station description.

LOCATION.—Location information is obtained from the most accurate maps available. The location of the gaging station 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, given for only a few stations, 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. Because the type of maps available varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

PERIOD OF RECORD.—This term indicates the time period for which records have been published 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 its flow reasonably can be considered equivalent to flow at the present station.

REVISED RECORDS.—If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

GAGE.—The type of gage in current use, the datum of the current gage referred to a standard datum, 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 either will be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily discharge table. (See section titled Identifying Estimated Daily Discharge.) Information is presented relative to the accuracy of the records, to special methods of computation, and to conditions that affect natural flow at the station. In addition, information may be presented pertaining to average discharge data for the period of record; to extremes data for the period of record and the current year; and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, the outlet works and spillway, and the purpose and use of the reservoir.

COOPERATION.—Records provided by a cooperating organization or obtained for the USGS by a cooperating organization are identified here.

EXTREMES OUTSIDE PERIOD OF RECORD.—Information here documents 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 USGS.

REVISIONS.—Records are revised if errors in published records are discovered. Appropriate updates are made in the USGS distributed data system, NWIS, and subsequently to its Web-based National data system, NWISWeb (http://water.usgs.gov/nwis). Users are encouraged to obtain all required data from NWIS or NWISWeb to ensure that they have the most recent data updates. Updates to NWISWeb are made on an annual basis.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because no current or, possibly, future station manuscript would be published for these stations 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 District Office (address given on the back of the title page of this report) to determine if the published records were revised after the station was discontinued. If, however, the data for a discontinued station were obtained by computer retrieval, the data would be current. 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 stage-capacity table when daily volumes are given.

Peak Discharge Greater than Base Discharge

Tables of peak discharge above base discharge are included for some stations where secondary instantaneous peak discharge data are used in flood-frequency studies of highway and bridge design, flood-control structures, and other flood-related projects. The base discharge value is selected so an average of three peaks a year will be reported. This base discharge value has a recurrence interval of approximately 1.1 years or a 91-percent chance of exceedence in any 1 year.

Data Table of Daily Mean Values

The daily table of discharge records 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 arithmetic average flow in cubic feet per second for the month; and the lines headed MAX and MIN give the maximum and minimum daily mean discharges, respectively, for each month. Discharge for the month is 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). Values for cubic feet per second per square mile and runoff in inches or in acre-feet may be omitted if extensive regulation or diversion is in effect 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 volumes are given. These values are identified by a symbol and a corresponding footnote.

Statistics of Monthly Mean Data

A tabular summary of the mean (line headed MEAN), maximum (MAX), and minimum (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 values. The designated period will be expressed as FOR WATER YEARS __-_, BY WATER

YEAR (WY), and will list the first and last water years of the range of years selected from the PERIOD OF RECORD paragraph in the station manuscript. The designated period will consist of all of the station record within the specified water years, including complete months of record for partial water years, and may coincide with the period of record for the station. The water years for which the statistics are computed are 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 records within the specified water years, including complete months of record for partial water years, and may coincide with the period of record for the station. The water years for which the statistics are computed are 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 the dates of occurrence do not fall within the selected water years listed in the heading, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration-curve statistics and runoff data also are given. Runoff data may be omitted if extensive regulation or diversion of flow is in effect in the drainage basin.

The following summary statistics data are provided with each continuous record of discharge. Comments that 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.

ANNUAL MEAN.—The arithmetic mean for the individual daily mean discharges for the year noted or for the designated period.

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 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.

MAXIMUM PEAK FLOW.—The maximum instantaneous peak discharge occurring for the water year or designated period. Occasionally the maximum flow for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak flow is given in the table and the maximum flow may be reported in a footnote or in the REMARKS paragraph in the manuscript.

MAXIMUM PEAK STAGE.—The maximum instantaneous peak stage occurring for the water year or designated period. Occasionally the maximum stage for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak stage is given in the table and the maximum stage may be reported in the REMARKS paragraph in the manuscript or in a footnote. If the dates of occurrence of the maximum peak stage and maximum peak flow are different, 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 square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area.

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

- 10 PERCENT EXCEEDS.—The discharge that has been exceeded 10 percent of the time for the designated period.
- 50 PERCENT EXCEEDS.—The discharge that has been exceeded 50 percent of the time for the designated period.
- 90 PERCENT EXCEEDS.—The discharge that has been exceeded 90 percent of the time for the designated period.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two tables. The first table lists annual maximum stage and discharge at crest-stage stations, and the second table lists discharge measurements at low-flow partial-record stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are often made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for a special reason are called measurements at miscellaneous sites.

Hydrographs

Hydrographs are a graphic display of streamflow fluctuations over a period of time. In this report, current water year and, when appropriate, period-of-record hydrographs are shown. Hydrographs that display recorder data show a solid line representing the mean water level recorded for each day.

Identifying Estimated Daily Discharge

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

Accuracy of Field Data and Computed Results

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

The degree of accuracy of the records is stated in the REMARKS in the station description. "Excellent" indicates that about 95 percent of the daily discharges are within 5 percent of the true value; "good" within 10 percent; and "fair," within 15 percent. "Poor" indicates that daily discharges have less than "fair" accuracy. Different accuracies may be attributed to different parts of a given record.

Values of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 $\rm ft^3/s$; to the nearest tenths between 1.0 and 10 $\rm ft^3/s$; to whole numbers between 10 and 1,000 $\rm ft^3/s$; and to 3 significant figures above 1,000 $\rm ft^3/s$. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharge values listed for partial-record stations.

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, values 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 Data Records Available

Information of a more detailed nature than that published for most of the stream-gaging stations such as discharge measurements, gage-height records, and rating tables is available from the District office. Also, most stream-gaging station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the District office (see address that is shown on the back of the title page of this report).

EXPLANATION OF PRECIPITATION RECORDS

Data Collection and Computation

Rainfall data generally are collected using electronic data loggers that measure the rainfall in 0.01-inch increments every 15 minutes using either a tipping-bucket rain gage or a collection well gage. Twenty-four hour rainfall totals are tabulated and presented. A 24-hour period extends from just past midnight of the previous day to midnight of the current day. Snowfall-affected data can result during cold weather when snow fills the rain-gage funnel and then melts as temperatures rise. Snowfall-affected data are subject to errors. Missing values are indicated by this symbol "---" in the table.

Data Presentation

Precipitation records collected at surface-water gaging stations are identified with the same station number and name as the stream-gaging station. Where a surface-water daily-record station is not available, the precipitation record is published with its own name and latitude-longitude identification number.

Information pertinent to the history of a precipitation station is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, period of record, and general remarks.

The following information is provided with each precipitation station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.—See Data Presentation in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

PERIOD OF RECORD.—See Data Presentation in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

INSTRUMENTATION.—Information on the type of rainfall collection system is given.

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

EXPLANATION OF WATER-QUALITY RECORDS

Collection and Examination of Data

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

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, water temperature, sediment discharge, and so forth); extremes for the current year; and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, sampling date, or other pertinent data are given in the table containing the chemical analyses of the ground water.

Water Analysis

Most of the methods used for collecting and analyzing water samples are described in the TWRIs. A list of TWRIs is provided in this report.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross-section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled at several verticals to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum and minimum values (and sometimes mean or median values) for each constituent measured, and are based on 15-minute or 1-hour intervals of recorded data beginning at 0000 hours and ending at 2400 hours for the day of record.

SURFACE-WATER-QUALITY RECORDS

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because discharge data is useful in the interpretation of surface-water quality. Records of surface-water quality in this report involve a variety of types of data and measurement frequencies.

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A *continuous-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 is usually less than quarterly. A *miscellaneous sampling site* is a location other than a continuous- or partial-record station, where 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 *continuous records* as used in this report and *continuous recordings* that refer to a continuous graph or a series of discrete values recorded at short intervals. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently. Locations of stations for which records on the quality of surface water appear in this report are shown in figures 6 and 7.

Accuracy of the Records

One of four accuracy classifications is applied for measured physical properties at continuous-record stations on a scale ranging from poor to excellent. The accuracy rating is based on data values recorded before any shifts or corrections are made. Additional consideration also is given to the amount of publishable record and to the amount of data that have been corrected or shifted.

Rating classifications for continuous water-quality records

[≤, less than or equal to; ±, plus or minus value shown; °C, degree Celsius; >, greater than; %, percent; mg/L, milligram per liter; pH unit, standard pH unit]

Management physical	Rating					
Measured physical property	Excellent Good		Fair	Poor		
Water temperature	≤±0.2 °C	>±0.2 to 0.5 °C	$> \pm 0.5$ to 0.8 °C	>±0.8 °C		
Specific conductance	≤±3%	$> \pm 3$ to 10%	$> \pm 10$ to 15%	$> \pm 15\%$		
Dissolved oxygen	\leq ±0.3 mg/L	$> \pm 0.3$ to 0.5 mg/L	$> \pm 0.5$ to 0.8 mg/L	$> \pm 0.8$ mg/L		
pН	$\leq \pm 0.2$ unit	$> \pm 0.2$ to 0.5 unit	$> \pm 0.5$ to 0.8 unit	> ±0.8 unit		
Turbidity	≤±5%	$> \pm 5$ to 10%	$> \pm 10$ to 15%	>±15%		

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. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream-order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites.

On-Site Measurements and Sample Collection

In obtaining water-quality data, a major concern is assuring that the data obtained represent the naturally occurring quality of the water. To ensure this, certain measurements, such as water temperature, pH, and dissolved oxygen, must be made on site when the samples are taken. To assure that measurements made in the laboratory also represent the naturally occurring water, carefully prescribed procedures must 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 TWRIs Book 1, Chapter D2; Book 3, Chapters A1, A3, and A4; and Book 9, Chapters A1-A9. These TWRIs are listed in this report. Also, detailed information on collecting, treating, and shipping samples can be obtained from the USGS District office (see address that is shown on the back of title page in this report).

Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at the time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements are on file in the District office.

Sediment

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

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

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

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

Laboratory Measurements

Samples for biochemical oxygen demand (BOD) and indicator bacteria are analyzed locally. All other samples are analyzed in the USGS laboratory in Lakewood, Colorado, unless otherwise noted. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chapter

C1. Methods used by the USGS laboratories are given in the TWRIs, Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, and A4. These methods are consistent with ASTM standards and generally follow ISO standards.

Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily are presented first. Tables of "daily values" of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

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 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 information in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

DRAINAGE AREA.—See Data Presentation information in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

PERIOD OF RECORD.—This indicates the time periods for which published water-quality records for the station are available. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

INSTRUMENTATION.—Information on instrumentation is given only if a water-quality monitor temperature record, sediment pumping sampler, or other sampling device is in operation at a station.

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

COOPERATION.—Records provided by a cooperating organization or obtained for the USGS by a cooperating organization are identified here.

EXTREMES.—Maximums and minimums are given only for parameters measured daily or more frequently. For parameters measured weekly or less frequently, true maximums or minimums may not have been obtained. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.—Records are revised if errors in published water-quality records are discovered. Appropriate updates are made in the USGS distributed data system, NWIS, and subsequently to its Webbased National data system, NWISWeb (http://waterdata.usgs.gov/nwis). Users of USGS water-quality data are encouraged to obtain all required data from NWIS or NWISWeb to ensure that they have the most recent updates. Updates to the NWISWeb are made on an annual basis.

The surface-water-quality records for partial-record stations and miscellaneous sampling sites are published in separate tables following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

Remark Codes

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

Printed Output	Remark
E or e	Estimated value.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
K	Results based on colony count outside the acceptance range (non-ideal colony count).
L	Biological organism count less than 0.5 percent (organism may be observed rather than counted).
D	Biological organism count equal to or greater than 15 percent (dominant).
V	Analyte was detected in both the environmental sample and the associated blanks.
&	Biological organism estimated as dominant.

Water-Quality Control Data

The USGS National Water Quality Laboratory collects quality-control data on a continuing basis to evaluate selected analytical methods to determine long-term method detection levels (LT-MDLs) and laboratory reporting levels (LRLs). These values are re-evaluated each year on the basis of the most recent quality-control data and, consequently, may change from year to year.

This reporting procedure limits the occurrence of false positive error. Falsely reporting a concentration greater than the LT-MDL for a sample in which the analyte is not present is 1 percent or less. Application of the LRL limits the occurrence of false negative error. The chance of falsely reporting a non-detection for a sample in which the analyte is present at a concentration equal to or greater than the LRL is 1 percent or less.

Accordingly, concentrations are reported as less than LRL for samples in which the analyte was either not detected or did not pass identification. Analytes detected at concentrations between the LT-MDL and the LRL and that pass identification criteria are estimated. Estimated concentrations will be noted with a remark code of "E." These data should be used with the understanding that their uncertainty is greater than that of data reported without the E remark code.

Data generated from quality-control (QC) samples are a requisite for evaluating the quality of the sampling and processing techniques as well as data from the actual samples themselves. Without QC data, environmental sample data cannot be adequately interpreted because the errors associated with the sample data are unknown. The various types of QC samples collected by this District office are described in the following section. Procedures have been established for the storage of water-quality-control data within the USGS. These procedures allow for storage of all derived QC data and are identified so that they can be related to corresponding environmental samples. These data are not presented in this report but are available from the District office.

Blank Samples

Blank samples are collected and analyzed to ensure that environmental samples have not been contaminated in the overall data-collection process. The blank solution used to develop specific types of blank samples is a solution that is free of the analytes of interest. Any measured value signal in a blank sample for an analyte (a specific component measured in a chemical analysis) that was absent in the blank solution is believed to be due to contamination. Many types of blank samples are possible; each is designed to segregate a different part of the overall data-collection process. The types of blank samples collected in this district are:

Field blank—A blank solution that is subjected to all aspects of sample collection, field processing preservation, transportation, and laboratory handling as an environmental sample.

Trip blank—A blank solution that is put in the same type of bottle used for an environmental sample and kept with the set of sample bottles before and after sample collection.

Equipment blank—A blank solution that is processed through all equipment used for collecting and processing an environmental sample (similar to a field blank but normally done in the more controlled conditions of the office).

Sampler blank—A blank solution that is poured or pumped through the same field sampler used for collecting an environmental sample.

Filter blank—A blank solution that is filtered in the same manner and through the same filter apparatus used for an environmental sample.

Splitter blank—A blank solution that is mixed and separated using a field splitter in the same manner and through the same apparatus used for an environmental sample.

Preservation blank—A blank solution that is treated with the sampler preservatives used for an environmental sample.

Reference Samples

Reference material is a solution or material prepared by a laboratory. The reference material composition is certified for one or more properties so that it can be used to assess a measurement method. Samples of reference material are submitted for analysis to ensure that an analytical method is accurate for the known properties of the reference material. Generally, the selected reference material properties are similar to the environmental sample properties.

Replicate Samples

Replicate samples are a set of environmental samples collected in a manner such that the samples are thought to be essentially identical in composition. Replicate is the general case for which a duplicate is the special case consisting of two samples. Replicate samples are collected and analyzed to establish the amount of variability in the data contributed by some part of the collection and analytical process. Many types of replicate samples are possible, each of which may yield slightly different results in a dynamic hydrologic setting, such as a flowing stream. The types of replicate samples collected in this district are:

Concurrent samples—A type of replicate sample in which the samples are collected simultaneously with two or more samplers or by using one sampler and alternating the collection of samples into two or more compositing containers.

Sequential samples—A type of replicate sample in which the samples are collected one after the other, typically over a short time.

Split sample—A type of replicate sample in which a sample is split into subsamples, each subsample contemporaneous in time and space.

Spike Samples

Spike samples are samples to which known quantities of a solution with one or more well-established analyte concentrations have been added. These samples are analyzed to determine the extent of matrix interference or degradation on the analyte concentration during sample processing and analysis.

EXPLANATION OF LAKE-LEVEL RECORDS

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. Locations of lakes having current water-level records are shown on figure 8.

Data Collection and Computation

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

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

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

Data Presentation

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

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

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

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

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

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

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

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

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

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

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

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

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

EXPLANATION OF GROUND-WATER-LEVEL RECORDS

Generally, only ground-water-level data from selected wells with continuous recorders from a basic network of observation wells are published in this report. This basic network contains observation wells located so that the most significant data are obtained from the fewest wells in the most important aquifers.

Site Identification Numbers

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is produced for local needs. See NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES in this report for a detailed explanation.

Data Collection and Computation

Measurements are made in many types of wells, under varying conditions of access and at different temperatures; hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Most methods for collecting and analyzing water samples are described in the TWRIs referred to in the On-site Measurements and Sample Collection and the Laboratory Measurements sections in this report. In addition, TWRI Book 1, Chapter D2, describes guidelines for the collection and field analysis of ground-water samples for selected unstable constituents. Procedures for on-site measurements and for collecting, treating, and shipping samples are given in TWRIs Book 1, Chapter D2; Book 3, Chapters A1, A3, and A4; and Book 9, Chapters A1 through A9. The values in this report represent water-quality conditions at the time of sampling, as much as possible, and that are consistent with available sampling techniques and methods of analysis. These methods are consistent with ASTM standards and generally follow ISO standards. Trained personnel collected all samples. The wells sampled were pumped long enough to ensure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

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 above sea level is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (EOM).

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

Data Presentation

Water-level data are presented in alphabetical order by county. The primary identification number for a given well is the 15-digit site identification number that appears in the upper left corner of the table. The secondary identification number is the local or county well number. Well locations are shown in figures 9 and 10; each well is identified on the map by its local well or county well number.

Each well record consists of three parts: the well description, the data table of water levels observed during the water year, and, for most wells, a hydrograph following the data table. Well descriptions are presented in the headings preceding the tabular data.

The following comments clarify information presented in these various headings.

LOCATION.—This paragraph follows the well-identification number and reports the hydrologic-unit number and a geographic point of reference. Latitudes and longitudes used in this report are reported as North American Datum of 1927 unless otherwise specified.

AQUIFER.—This entry designates by name and geologic age the aquifer that the well taps.

WELL CHARACTERISTICS.—This entry describes the well in terms of depth, casing diameter and depth or screened interval, method of construction, use, and 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 continuous, monthly, or some other frequency of measurement.

DATUM.—This entry describes both the measuring point and the land-surface elevation at the well. The altitude of the land-surface datum is described in feet above the altitude datum; it is reported with a precision depending on the method of determination. The measuring point is described physically (such as top of casing, top of instrument shelf, 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 National Geodetic Vertical Datum of 1929 (NGVD 29); 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, when various methods of measurement were begun, and the network (climatic, terrane, local, or areal effects) or the special project to which the well belongs.

PERIOD OF RECORD.—This entry indicates the time period for which records are published for the well, the month and year at the start of publication of water-level records by the USGS, and the words "to current year" if the records are to be continued into the following year. Time periods for which water-level records are available, but are not published by the USGS, may be noted.

EXTREMES FOR PERIOD OF RECORD.—This entry contains the highest and lowest instantaneously recorded or measured water levels of the period of published record, with respect to land-surface datum or sea level, and the dates of occurrence.

Water-Level Tables

A table of water levels follows the well description for each well. Water-level measurements in this report are given in feet with reference to either sea level or land-surface datum (lsd). Missing records are indicated by dashes in place of the water-level value.

For wells not equipped with recorders, water-level measurements were obtained periodically by steel or electric tape. Tables of periodic water-level measurements in these wells show the date of measurement and the measured water-level value.

Hydrographs

Hydrographs are a graphic display of water-level fluctuations over a period of time. In this report, five water years and, when appropriate, period-of-record hydrographs are shown. Hydrographs that display periodic water-level measurements show points that may be connected with a dashed line from one measurement to the next. Hydrographs that display recorder data show a solid line representing the mean water level recorded for each day. Missing data are indicated by a blank space or break in a hydrograph. Missing data may occur as a result of recorder malfunctions, battery failures, or mechanical problems related to the response of the recorder's float mechanism to water-level fluctuations in a well.

GROUND-WATER-QUALITY DATA

Data Collection and Computation

The ground-water-quality data in this report were obtained as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some wells within a county but not for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality Statewide.

Most methods for collecting and analyzing water samples are described in the TWRIs. Procedures for on-site measurements and for collecting, treating, and shipping samples are given in TWRI, Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, and A4. Also, detailed information on collecting, treating, and shipping samples may be obtained from the USGS District office (see address shown on back of title page in this report).

Laboratory Measurements

Analysis for sulfide and measurement of alkalinity, pH, water temperature, specific conductance, and dissolved oxygen are performed on site. All other sample analyses are performed at the USGS laboratory in Lakewood, Colorado, unless otherwise noted. Methods used by the USGS laboratory are given in TWRI, Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, and A4.

ACCESS TO USGS WATER DATA

The USGS provides near real-time stage and discharge data for many of the gaging stations equipped with the necessary telemetry and historic daily-mean and peak-flow discharge data for most current or discontinued gaging stations through the World Wide Web (WWW). These data may be accessed from http://water.usgs.gov.

Water-quality data and ground-water data also are available through the WWW. In addition, data can be provided in various machine-readable formats on various media. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each Water Discipline District Office (See address that is shown on the back of the title page of this report.)

DEFINITION OF TERMS

Specialized technical terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. Terms such as algae, water level, and precipitation are used in their common everyday meanings, definitions of which are given in standard dictionaries. Not all terms defined in this alphabetical list apply to every State. See also table for converting English units to International System (SI) Units. Other glossaries that also define water-related terms are accessible from http://water.usgs.gov/glossaries.html.

Acid neutralizing capacity (ANC) is the equivalent sum of all bases or base-producing materials, solutes plus particulates, in an aqueous system that can be titrated with acid to an equivalence point. This term designates titration of an "unfiltered" sample (formerly reported as alkalinity).

Acre-foot (AC-FT, acre-ft) is a unit of volume, commonly used to measure quantities of water used or stored, equivalent to the volume of water required to cover 1 acre to a depth of 1 foot and equivalent to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters. (See also "Annual runoff")

Adenosine triphosphate (ATP) is an organic, phosphaterich compound important in the transfer of energy in organisms. Its central role in living cells makes ATP an excellent indicator of the presence of living material in water. A measurement of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter.

Adjusted discharge is discharge data that have been mathematically adjusted (for example, to remove the effects of a daily tide cycle or reservoir storage).

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample. (See also "Biomass" and "Dry weight")

Alkalinity is the capacity of solutes in an aqueous system to neutralize acid. This term designates titration of a "filtered" sample.

Annual runoff is the total quantity of water that is discharged ("runs off") from a drainage basin in a year. Data reports may present annual runoff data as volumes in acrefeet, as discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches.

Annual 7-day minimum is the lowest mean value for any 7-consecutive-day period in a year. Annual 7-day minimum values are reported herein for the calendar year and the water year (October 1 through September 30). Most

low-flow frequency analyses use a climatic year (April 1-March 31), which tends to prevent the low-flow period from being artificially split between adjacent years. 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.)

Aroclor is the registered trademark for a group of polychlorinated biphenyls that were manufactured by the Monsanto Company prior to 1976. Aroclors are assigned specific 4-digit reference numbers dependent upon molecular type and degree of substitution of the biphenyl ring hydrogen atoms by chlorine atoms. The first two digits of a numbered aroclor represent the molecular type, and the last two digits represent the percentage weight of the hydrogen-substituted chlorine.

Artificial substrate is a device that purposely is placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is collected. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multiplate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection. (See also "Substrate")

Ash mass is the mass or amount of residue present after the residue from a dry-mass determination has been ashed in a muffle furnace at a temperature of 500 °C for 1 hour. Ash mass of zooplankton and phytoplankton is expressed in grams per cubic meter (g/m³), and periphyton and benthic organisms in grams per square meter (g/m²). (See also "Biomass" and "Dry mass")

Aspect is the direction toward which a slope faces with respect to the compass.

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

Bankfull stage, as used in this report, is the stage at which a stream first overflows its natural banks formed by floods with 1- to 3-year recurrence intervals.

Base discharge (for peak discharge) is a discharge value, determined for selected stations, above which peak discharge data are published. The base discharge at each station is selected so that an average of about three peak flows per year will be published. (See also "Peak flow")

Base flow is sustained flow of a stream in the absence of direct runoff. It includes natural and human-induced streamflows. Natural base flow is sustained largely by ground-water discharge.

Bed material is the sediment mixture of which a streambed, lake, pond, reservoir, or estuary bottom is composed. (See also "Bedload" and "Sediment")

Bedload is material in transport that primarily is supported by the streambed. In this report, bedload is considered to consist of particles in transit from the bed to the top of the bedload sampler nozzle (an elevation ranging from 0.25 to 0.5 foot). These particles are retained in the bedload sampler. A sample collected with a pressure-differential bedload sampler also may contain a component of the suspended load.

Bedload discharge (tons per day) is the rate of sediment moving as bedload, reported as dry weight, that passes through a cross section in a given time. NOTE: Bedload discharge values in this report may include a component of the suspended-sediment discharge. A correction may be necessary when computing the total sediment discharge by summing the bedload discharge and the suspended-sediment discharge. (See also "Bedload," "Dry weight," "Sediment," and "Suspended-sediment discharge")

Benthic organisms are the group of organisms inhabiting the bottom of an aquatic environment. They include a number of types of organisms, such as bacteria, fungi, insect larvae and nymphs, snails, clams, and crayfish. They are useful as indicators of water quality.

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

Biomass is the amount of living matter present at any given time, expressed as mass per unit area or volume of habitat.

Biomass pigment ratio is an indicator of the total proportion of periphyton that are autotrophic (plants). This also is called the Autotrophic Index.

Blue-green algae (*Cyanophyta*) are a group of phytoplankton and periphyton organisms with a blue pigment in addition to a green pigment called chlorophyll. Blue-green algae can cause nuisance water-quality conditions in lakes and slow-flowing rivers; however, they are found commonly in streams throughout the year. The abundance of blue-green algae in phytoplankton samples is expressed as the number of cells per milliliter (cells/mL) or biovolume in cubic micrometers per milliliter (μm³/mL). The abundance of blue-green algae in periphyton samples is given in cells per square centimeter (cells/cm²) or biovolume per square centimeter (μm³/cm²). (See also "Phytoplankton" and "Periphyton")

Bottom material (See "Bed material")

Bulk electrical conductivity is the combined electrical conductivity of all material within a doughnut-shaped volume surrounding an induction probe. Bulk conductivity is affected by different physical and chemical properties of the material including the dissolved-solids content of the pore water, and the lithology and porosity of the rock.

Canadian Geodetic Vertical Datum 1928 is a geodetic datum derived from a general adjustment of Canada's first order level network in 1928.

Cell volume (biovolume) determination is one of several common methods used to estimate biomass of algae in aquatic systems. Cell members of algae are used frequently in aquatic surveys as an indicator of algal production. However, cell numbers alone cannot represent true biomass because of considerable cell-size variation among the algal species. Cell volume (µm³) is determined by obtaining critical cell measurements or cell dimensions (for example, length, width, height, or radius) for 20 to 50 cells of each important species to obtain an average biovolume per cell. Cells are categorized according to the correspondence of their cellular shape to the nearest geometric solid or combinations of simple solids (for example, spheres, cones, or cylinders). Representative formulae used to compute biovolume are as follows:

sphere $4/3 \pi r^3$ cone $1/3 \pi r^2 h$ cylinder $\pi r^2 h$.

pi (π) is the ratio of the circumference to the diameter of a circle; pi = 3.14159....

From cell volume, total algal biomass expressed as biovolume (μ m³/mL) is thus determined by multiplying the number of cells of a given species by its average cell volume and then summing these volumes for all species.

Cells/volume refers to the number of cells of any organism that is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per

sample volume, and generally are reported as cells or units per milliliter (mL) or liter (L).

Cfs-day (See "Cubic foot per second-day")

Channel bars, as used in this report, are the lowest prominent geomorphic features higher than the channel bed.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with BOD or with carbonaceous organic pollution from sewage or industrial wastes. [See also "Biochemical oxygen demand (BOD)"]

Clostridium perfringens (C. perfringens) is a spore-forming bacterium that is common in the feces of human and other warmblooded animals. Clostridial spores are being used experimentally as an indicator of past fecal contamination and the presence of microorganisms that are resistant to disinfection and environmental stresses. (See also "Bacteria")

Coliphages are viruses that infect and replicate in coliform bacteria. They are indicative of sewage contamination of water and of the survival and transport of viruses in the environment.

Color unit is produced by 1 milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Confined aquifer is a term used to describe an aquifer containing water between two relatively impermeable boundaries. The water level in a well tapping a confined aquifer stands above the top of the confined aquifer and can be higher or lower than the water table that may be present in the material above it. In some cases, the water level can rise above the ground surface, yielding a flowing well.

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.

Continuous-record station is a site where data are collected with sufficient frequency to define daily mean values and variations within a day.

Control designates a feature in the channel that physically affects the water-surface elevation and thereby determines the stage-discharge relation at the gage. This feature may be a constriction of the channel, a bedrock outcrop, a gravel bar, 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 or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of saltwater.

Cubic foot per second (CFS, ft³/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point in 1 second. It is equivalent to approximately 7.48 gallons per second or approximately 449 gallons per minute, or 0.02832 cubic meters per second. The term "second-foot" sometimes is used synonymously with "cubic foot per second" but is now obsolete.

Cubic foot per second-day (CFS-DAY, Cfs-day, [(ft³/s)/d]) 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, 1.98347 acre-feet, 646,317 gallons, or 2,446.6 cubic meters. The daily mean discharges reported in the daily value data tables numerically are equal to the daily volumes in cfs-days, and the totals also represent volumes in cfs-days.

Cubic foot per second per square mile [CFSM, (ft³/s)/mi²] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area. (See also "Annual runoff")

Daily mean suspended-sediment concentration is the time-weighted mean concentration of suspended sediment passing a stream cross section during a 24-hour day. (See also "Sediment" and "Suspended-sediment concentration")

Daily record station is a site where data are collected with sufficient frequency to develop a record of one or more data values per day. The frequency of data collection can range from continuous recording to data collection on a daily or near-daily basis.

Data collection platform (DCP) is an electronic instrument that collects, processes, and stores data from various sensors, and transmits the data by satellite data relay, line-of-sight radio, and/or landline telemetry.

Data logger is a microprocessor-based data acquisition system designed specifically to acquire, process, and store data. Data usually are downloaded from onsite data loggers for entry into office data systems.

Datum is a surface or point relative to which measurements of height and/or horizontal position are reported. A vertical datum is a horizontal surface used as the zero point for measurements of gage height, stage, or elevation; a horizontal datum is a reference for positions given in terms of latitude-longitude, State Plane coordinates, or Universal Transverse Mercator (UTM) coordinates. (See also "Gage datum," "Land-surface datum," "National Geodetic Verti-

cal Datum of 1929," and "North American Vertical Datum of 1988")

Diatoms (*Bacillariophyta*) are unicellular or colonial algae with a siliceous cell wall. The abundance of diatoms in phytoplankton samples is expressed as the number of cells per milliliter (cells/mL) or biovolume in cubic micrometers per milliliter (μm³/mL). The abundance of diatoms in periphyton samples is given in cells per square centimeter (cells/cm²) or biovolume per square centimeter (μm³/cm²). (See also "Phytoplankton" and "Periphyton")

Diel is of or pertaining to a 24-hour period of time; a regular daily cycle.

Discharge, or flow, is the rate that matter passes through a cross section of a stream channel or other water body per unit of time. The term commonly refers to the volume of water (including, unless otherwise stated, any sediment or other constituents suspended or dissolved in the water) that passes a cross section in a stream channel, canal, pipeline, and so forth, within a given period of time (cubic feet per second). Discharge also can apply to the rate at which constituents, such as suspended sediment, bedload, and dissolved or suspended chemicals, pass through a cross section, in which cases the quantity is expressed as the mass of constituent that passes the cross section in a given period of time (tons per day).

Dissolved refers to that material in a representative water sample that passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal and State agencies that collect water-quality data. Determinations of "dissolved" constituent concentrations are made on sample water that has been filtered.

Dissolved oxygen (DO) is the molecular oxygen (oxygen gas) dissolved in water. The concentration in water is a function of atmospheric pressure, temperature, and dissolved-solids concentration of the water. The ability of water to retain oxygen decreases with increasing temperature or dissolved-solids concentration. Photosynthesis and respiration by plants commonly cause diurnal variations in dissolved-oxygen concentration in water from some streams.

Dissolved solids concentration in water is the quantity of dissolved material in a sample of water. It 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, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. In the mathematical calculation, the bicarbonate value, in milligrams per liter, is multiplied by 0.4926 to convert it to carbonate. Alterna-

tively, alkalinity concentration (as mg/L CaCO₃) can be converted to carbonate concentration by multiplying by 0.60.

Diversity index (H) (Shannon index) is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\bar{d} = -\sum_{i=1}^{s} \frac{n_i}{n} \log_2 \frac{n_i}{n},$$

where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Drainage area of a stream at a specific location is that area upstream from the location, measured in a horizontal plane, that has a common outlet at the site for its surface runoff from precipitation that normally drains by gravity into a stream. Drainage areas given herein include all closed basins, or noncontributing areas, within the area unless otherwise specified.

Drainage basin is a part of the Earth's surface that contains a drainage system with a common outlet for its surface runoff. (See "Drainage area")

Dry mass refers to the mass of residue present after drying in an oven at 105 °C, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass. (See also "Ash mass," "Biomass," and "Wet mass")

Dry weight refers to the weight of animal tissue after it has been dried in an oven at 65 °C until a constant weight is achieved. Dry weight represents total organic and inorganic matter in the tissue. (See also "Wet weight")

Embeddedness is the degree to which gravel-sized and larger particles are surrounded or enclosed by finer-sized particles. (See also "Substrate embeddedness class")

Enterococcus bacteria commonly are found in the feces of humans and other warmblooded animals. Although some strains are ubiquitous and not related to fecal pollution, the presence of enterococci in water is an indication of fecal pollution and the possible presence of enteric pathogens. Enterococcus bacteria are those bacteria that produce pink to red colonies with black or reddish-brown precipitate after incubation at 41 °C on mE agar (nutrient medium for bacterial growth) and subsequent transfer to EIA medium. Enterococci include *Streptococcus feacalis*, *Streptococcus*

feacium, Streptococcus avium, and their variants. (See also "Bacteria")

EPT Index is the total number of distinct taxa within the insect orders Ephemeroptera, Plecoptera, and Trichoptera. This index summarizes the taxa richness within the aquatic insects that generally are considered pollution sensitive; the index usually decreases with pollution.

Escherichia coli (E. coli) are bacteria present in the intestine and feces of warmblooded animals. E. coli are a member species of the fecal coliform group of indicator bacteria. In the laboratory, they are defined as those bacteria that produce yellow or yellow-brown colonies on a filter pad saturated with urea substrate broth after primary culturing for 22 to 24 hours at 44.5 °C on mTEC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Estimated (E) value of a concentration is reported when an analyte is detected and all criteria for a positive result are met. If the concentration is less than the method detection limit (MDL), an E code will be reported with the value. If the analyte is identified qualitatively as present, but the quantitative determination is substantially more uncertain, the National Water Quality Laboratory will identify the result with an E code even though the measured value is greater than the MDL. A value reported with an E code should be used with caution. When no analyte is detected in a sample, the default reporting value is the MDL preceded by a less than sign (<). For bacteriological data, concentrations are reported as estimated when results are based on non-ideal colony counts.

Euglenoids (*Euglenophyta*) are a group of algae that usually are free-swimming and rarely creeping. They have the ability to grow either photosynthetically in the light or heterotrophically in the dark. (See also "Phytoplankton")

Extractable organic halides (EOX) are organic compounds that contain halogen atoms such as chlorine. These organic compounds are semivolatile and extractable by ethyl acetate from air-dried streambed sediment. The ethyl acetate extract is combusted, and the concentration is determined by microcoulometric determination of the halides formed. The concentration is reported as micrograms of chlorine per gram of the dry weight of the streambed sediment.

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

Fecal streptococcal bacteria are present in the intestines of warmblooded animals and are ubiquitous in the environment. They are characterized as gram-positive, cocci bacteria that are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms that produce red or pink colonies within 48 hours at 35 °C plus or minus 1.0 °C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Fire algae (*Pyrrhophyta*) are free-swimming unicells characterized by a red pigment spot. (See also "Phytoplankton")

Flow-duration percentiles are values on a scale of 100 that indicate the percentage of time for which a flow is not exceeded. For example, the 90th percentile of river flow is greater than or equal to 90 percent of all recorded flow rates.

Gage datum is a horizontal surface used as a zero point for measurement of stage or gage height. This surface usually is located slightly below the lowest point of the stream bottom such that the gage height is usually slightly greater than the maximum depth of water. Because the gage datum is not an actual physical object, the datum is usually defined by specifying the elevations of permanent reference marks such as bridge abutments and survey monuments, and the gage is set to agree with the reference marks. Gage datum is a local datum that is maintained independently of any national geodetic datum. However, if the elevation of the gage datum relative to the national datum (North American Vertical Datum of 1988 or National Geodetic Vertical Datum of 1929) has been determined, then the gage readings can be converted to elevations above the national datum by adding the elevation of the gage datum to the gage reading.

Gage height (G.H.) is the water-surface elevation, in feet above the gage datum. If the water surface is below the gage datum, the gage height is negative. Gage height often is used interchangeably with the more general term "stage," although gage height is more appropriate when used in reference to a reading on a gage.

Gage values are values that are recorded, transmitted, and/or computed from a gaging station. Gage values typically are collected at 5-, 15-, or 30-minute intervals.

Gaging station is a site on a stream, canal, lake, or reservoir where systematic observations of stage, discharge, or other hydrologic data are obtained.

Gas chromatography/flame ionization detector (GC/FID) is a laboratory analytical method used as a screening tech-

nique for semivolatile organic compounds that are extractable from water in methylene chloride.

Geomorphic channel units, as used in this report, are fluvial geomorphic descriptors of channel shape and stream velocity. Pools, riffles, and runs are types of geomorphic channel units considered for National Water-Quality Assessment (NAWQA) Program habitat sampling.

Green algae (*Chlorophyta*) are unicellular or colonial algae with chlorophyll pigments similar to those in terrestrial green plants. Some forms of green algae produce mats or floating "moss" in lakes. The abundance of green algae in phytoplankton samples is expressed as the number of cells per milliliter (cells/mL) or biovolume in cubic micrometers per milliliter (μm³/mL). The abundance of green algae in periphyton samples is given in cells per square centimeter (cells/cm²) or biovolume per square centimeter (μm³/cm²). (See also "Phytoplankton" and "Periphyton")

Habitat, as used in this report, includes all nonliving (physical) aspects of the aquatic ecosystem, although living components like aquatic macrophytes and riparian vegetation also are usually included. Measurements of habitat typically are made over a wider geographic scale than are measurements of species distribution.

Habitat quality index is the qualitative description (level 1) of instream habitat and riparian conditions surrounding the reach sampled. Scores range from 0 to 100 percent with higher scores indicative of desirable habitat conditions for aquatic life. Index only applicable to wadable streams.

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 (primarily calcium and magnesium) and is expressed as the equivalent concentration of calcium carbonate (CaCO₃).

High tide is the maximum height reached by each rising tide. The high-high and low-high tides are the higher and lower of the two high tides, respectively, of each tidal day. *See NOAA Web site:*

http://www.co-ops.nos.noaa.gov/tideglos.html

Hilsenhoff's Biotic Index (HBI) is an indicator of organic pollution that uses tolerance values to weight taxa abundances; usually increases with pollution. It is calculated as follows:

$$HBI = sum \frac{(n)(a)}{N},$$

where n is the number of individuals of each taxon, a is the tolerance value of each taxon, and N is the total number of organisms in the sample.

Horizontal datum (See "Datum")

Hydrologic index stations referred to in this report are continuous-record gaging stations that have been selected as representative of streamflow patterns for their respective regions. Station locations are shown on index maps.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as defined by the former Office of Water Data Coordination and delineated on the State Hydrologic Unit Maps by the USGS. Each hydrologic unit is identified by an 8-digit number.

Inch (IN., in.), in reference to streamflow, as used in this report, refers to the depth to which the drainage area would be covered with water if all of the runoff for a given time period were distributed uniformly on it. (See also "Annual runoff")

Instantaneous discharge is the discharge at a particular instant of time. (See also "Discharge")

International Boundary Commission Survey Datum refers to a geodetic datum established at numerous monuments along the United States-Canada boundary by the International Boundary Commission.

Island, as used in this report, is a mid-channel bar that has permanent woody vegetation, is flooded once a year, on average, and remains stable except during large flood events.

Laboratory reporting level (LRL) generally is equal to twice the yearly determined long-term method detection level (LT-MDL). The LRL controls false negative error. The probability of falsely reporting a nondetection for a sample that contained an analyte at a concentration equal to or greater than the LRL is predicted to be less than or equal to 1 percent. The value of the LRL will be reported with a "less than" (<) remark code for samples in which the analyte was not detected. The National Water Quality Laboratory (NWQL) collects quality-control data from selected analytical methods on a continuing basis to determine LT-MDLs and to establish LRLs. These values are reevaluated annually on the basis of the most current quality-control data and, therefore, may change. The LRL replaces the term 'non-detection value' (NDV).

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

Latent heat flux (often used interchangeably with latent heat-flux density) is the amount of heat energy that converts water from liquid to vapor (evaporation) or from vapor to liquid (condensation) across a specified crosssectional area per unit time. Usually expressed in watts per square meter.

Light-attenuation coefficient, also known as the extinction coefficient, is a measure of water clarity. Light is attenuated according to the Lambert-Beer equation:

$$I = I_0 e^{-\lambda L}$$
,

where I_o is the source light intensity, I is the light intensity at length L (in meters) from the source, λ is the light-attenuation coefficient, and e is the base of the natural logarithm. The light-attenuation coefficient is defined as

$$\lambda = -\frac{1}{L} \log_e \frac{I}{I_o}.$$

Lipid is any one of a family of compounds that are insoluble in water and that make up one of the principal components of living cells. Lipids include fats, oils, waxes, and steroids. Many environmental contaminants such as organochlorine pesticides are lipophilic.

Long-term method detection level (LT-MDL) is a detection level derived by determining the standard deviation of a minimum of 24 method detection limit (MDL) spike-sample measurements over an extended period of time. LT-MDL data are collected on a continuous basis to assess year-to-year variations in the LT-MDL. The LT-MDL controls false positive error. The chance of falsely reporting a concentration at or greater than the LT-MDL for a sample that did not contain the analyte is predicted to be less than or equal to 1 percent.

Low tide is the minimum height reached by each falling tide. The high-low and low-low tides are the higher and lower of the two low tides, respectively, of each tidal day. *See NOAA Web site:*

http://www.co-ops.nos.noaa.gov/tideglos.html

Macrophytes are the macroscopic plants in the aquatic environment. The most common macrophytes are the rooted vascular plants that usually are arranged in zones in aquatic ecosystems and restricted in the area by the extent of illumination through the water and sediment deposition along the shoreline.

Mean concentration of suspended sediment (Daily mean suspended-sediment concentration) is the time-weighted concentration of suspended sediment passing a stream cross section during a given time period. (See also "Daily mean suspended-sediment concentration" and "Suspended-sediment concentration")

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

Mean high or **low tide** is the average of all high or low tides, respectively, over a specific period.

Mean sea level is a local tidal datum. It is the arithmetic mean of hourly heights observed over the National Tidal Datum Epoch. Shorter series are specified in the name; for example, monthly mean sea level and yearly mean sea level. In order that they may be recovered when needed, such datums are referenced to fixed points known as benchmarks. (See also "Datum")

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

Megahertz is a unit of frequency. One megahertz equals one million cycles per second.

Membrane filter is a thin microporous material of specific pore size used to filter bacteria, algae, and other very small particles from water.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Method detection limit (MDL) is the minimum concentration of a substance that can be measured and reported with 99-percent confidence that the analyte concentration is greater than zero. It is determined from the analysis of a sample in a given matrix containing the analyte. At the MDL concentration, the risk of a false positive is predicted to be less than or equal to 1 percent.

Method of Cubatures is a method of computing discharge in tidal estuaries based on the conservation of mass equation.

Methylene blue active substances (MBAS) indicate the presence of detergents (anionic surfactants). The determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

Micrograms per gram (UG/G, μ 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 kilogram (UG/KG, µg/kg) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the constituent per unit mass

(kilogram) of the material analyzed. One microgram per kilogram is equivalent to 1 part per billion.

Micrograms per liter (UG/L, μ g/L) is a unit expressing the concentration of chemical constituents in water as mass (micrograms) of constituent per unit volume (liter) of water. One thousand micrograms per liter is equivalent to 1 milligram per liter. One microgram per liter is equivalent to 1 part per billion.

Microsiemens per centimeter (US/CM, μ S/cm) is a unit expressing the amount of electrical conductivity of a solution as measured between opposite faces of a centimeter cube of solution at a specified temperature. Siemens is the International System of Units nomenclature. It is synonymous with mhos and is the reciprocal of resistance in ohms.

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

Minimum reporting level (MRL) is the smallest measured concentration of a constituent that may be reliably reported by using a given analytical method.

Miscellaneous site, miscellaneous station, or miscellaneous sampling site is a site where streamflow, sediment, and/or water-quality data or water-quality or sediment samples are collected once, or more often on a random or discontinuous basis to provide better areal coverage for defining hydrologic and water-quality conditions over a broad area in a river basin.

Most probable number (MPN) is an index of the number of coliform bacteria that, more probably than any other number, would give the results shown by the laboratory examination; it is not an actual enumeration. MPN is determined from the distribution of gas-positive cultures among multiple inoculated tubes.

Multiple-plate samplers are artificial substrates of known surface area used for obtaining benthic invertebrate samples. They consist of a series of spaced, hardboard plates on an eyebolt.

Nanograms per liter (NG/L, ng/L) is a unit expressing the concentration of chemical constituents in solution as mass (nanograms) of solute per unit volume (liter) of water. One million nanograms per liter is equivalent to 1 milligram per liter.

National Geodetic Vertical Datum of 1929 (NGVD 29) is a fixed reference adopted as a standard geodetic datum for

elevations determined by leveling. It formerly was called "Sea Level Datum of 1929" or "mean sea level." Although the datum was derived from the mean sea level at 26 tide stations, it does not necessarily represent local mean sea level at any particular place. See NOAA Web site: http://www.ngs.noaa.gov/faq.shtml#WhatVD29VD88 (See "North American Vertical Datum of 1988")

Natural substrate refers to any naturally occurring immersed or submersed solid surface, such as a rock or tree, upon which an organism lives. (See also "Substrate")

Nekton are the consumers in the aquatic environment and consist of large, free-swimming organisms that are capable of sustained, directed mobility.

Nephelometric turbidity unit (NTU) is the measurement for reporting turbidity that is based on use of a standard suspension of formazin. Turbidity measured in NTU uses nephelometric methods that depend on passing specific light of a specific wavelength through the sample.

North American Datum of 1927 (NAD 27) is the horizontal control datum for the United States that was defined by a location and azimuth on the Clarke spheroid of 1866.

North American Datum of 1983 (NAD 83) is the horizontal control datum for the United States, Canada, Mexico, and Central America that is based on the adjustment of 250,000 points including 600 satellite Doppler stations that constrain the system to a geocentric origin. NAD 83 has been officially adopted as the legal horizontal datum for the United States by the Federal government.

North American Vertical Datum of 1988 (NAVD 88) is a fixed reference adopted as the official civilian vertical datum for elevations determined by Federal surveying and mapping activities in the United States. This datum was established in 1991 by minimum-constraint adjustment of the Canadian, Mexican, and United States first-order terrestrial leveling networks.

Open or **screened interval** is the length of unscreened opening or of well screen through which water enters a well, in feet below land surface.

Organic carbon (OC) is a measure of organic matter present in aqueous solution, suspension, or bottom sediment. May be reported as dissolved organic carbon (DOC), particulate organic carbon (POC), or total organic carbon (TOC).

Organic mass or volatile mass of a living substance is the difference between the dry mass and ash mass and represents the actual mass of the living matter. Organic mass is expressed in the same units as for ash mass and dry mass. (See also "Ash mass," "Biomass," and "Dry mass")

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meter (m²), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

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.

Organochlorine compounds are any chemicals that contain carbon and chlorine. Organochlorine compounds that are important in investigations of water, sediment, and biological quality include certain pesticides and industrial compounds.

Parameter code is a 5-digit number used in the USGS computerized data system, National Water Information System (NWIS), to uniquely identify a specific constituent or property.

Partial-record station is a site where discrete measurements of one or more hydrologic parameters are obtained over a period of time without continuous data being recorded or computed. A common example is a crest-stage gage partial-record station at which only peak stages and flows are recorded.

Particle size is the diameter, in millimeters (mm), of a particle determined by sieve or sedimentation methods. The sedimentation method uses the principle of Stokes Law to calculate sediment particle sizes. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube, sedigraph) 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, as used in this report, agrees with the recommendation made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis	
Clay	>0.00024 - 0.004	Sedimentation	
Silt	>0.004 - 0.062	Sedimentation	
Sand	>0.062 - 2.0	Sedimentation/sieve	
Gravel	>2.0 - 64.0	Sieve	
Cobble	>64 - 256	Manual measurement	
Boulder	>256	Manual measurement	

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. For the sedimentation method, 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.

Peak flow (peak stage) is an instantaneous local maximum value in the continuous time series of streamflows or stages, preceded by a period of increasing values and followed by a period of decreasing values. Several peak values ordinarily occur in a year. The maximum peak value in a year is called the annual peak; peaks lower than the annual peak are called secondary peaks. Occasionally, the annual peak may not be the maximum value for the year; in such cases, the maximum value occurs at midnight at the beginning or end of the year, on the recession from or rise toward a higher peak in the adjoining year. If values are recorded at a discrete series of times, the peak recorded value may be taken as an approximation of the true peak, which may occur between the recording instants. If the values are recorded with finite precision, a sequence of equal recorded values may occur at the peak; in this case, the first value is taken as the peak.

Percent composition or **percent of total** is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, weight, mass, or volume.

Percent shading is a measure of the amount of sunlight potentially reaching the stream. A clinometer is used to measure left and right bank canopy angles. These values are added together, divided by 180, and multiplied by 100 to compute percentage of shade.

Periodic-record station is a site where stage, discharge, sediment, chemical, physical, or other hydrologic measurements are made one or more times during a year but at a frequency insufficient to develop a daily record.

Periphyton is the assemblage of microorganisms attached to and living upon submerged solid surfaces. Although primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton are useful indicators of water quality.

Pesticides are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

pH of water is the negative logarithm of the hydrogen-ion activity. Solutions with pH less than 7.0 standard units are termed "acidic," and solutions with a pH greater than 7.0 are termed "basic." Solutions with a pH of 7.0 are neutral. The presence and concentration of many dissolved chemical constituents found in water are affected, in part, by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of

the water to organisms also are affected, in part, by the hydrogen-ion activity of water.

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

Picocurie (PC, pCi) is one-trillionth (1 x 10⁻¹²) of the amount of radioactive nuclide represented by a curie (Ci). A curie is the quantity of radioactive nuclide that yields 3.7 x 10¹⁰ radioactive disintegrations per second (dps). A picocurie yields 0.037 dps, or 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers. Concentrations are expressed as a number of cells per milliliter (cells/mL) of sample.

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Polychlorinated naphthalenes (PCNs) are industrial chemicals that are mixtures of chlorinated naphthalene compounds. They have properties and applications similar to polychlorinated biphenyls (PCBs) and have been identified in commercial PCB preparations.

Pool, as used in this report, is a small part of a stream reach with little velocity, commonly with water deeper than surrounding areas.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly, green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated (carbon method) by the plants.

Primary productivity (carbon method) is expressed as milligrams of carbon per area per unit time [mg C/(m²/time)] for periphyton and macrophytes or per volume [mg C/(m³/time)] for phytoplankton. The carbon method defines the amount of carbon dioxide consumed as measured by radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity than the oxygen light- and dark-bottle method and is preferred for use with unenriched water samples.

Unit time may be either the hour or day, depending on the incubation period. (See also "Primary productivity")

Primary productivity (oxygen method) is expressed as milligrams of oxygen per area per unit time [mg O/(m²/time)] for periphyton and macrophytes or per volume [mg O/(m³/time)] for phytoplankton. The oxygen method defines production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light- and dark-bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period. (See also "Primary productivity")

Radioisotopes are isotopic forms of elements that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus; for example, ordinary chlorine is a mixture of isotopes having atomic weights of 35 and 37, and the natural mixture has an atomic weight of about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron. There are 275 isotopes of the 81 stable elements, in addition to more than 800 radioactive isotopes.

Reach, as used in this report, is a length of stream that is chosen to represent a uniform set of physical, chemical, and biological conditions within a segment. It is the principal sampling unit for collecting physical, chemical, and biological data.

Recoverable from bed (bottom) material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results. (See also "Bed material")

Recurrence interval, also referred to as return period, is the average time, usually expressed in years, between occurrences of hydrologic events of a specified type (such as exceedances of a specified high flow or nonexceedance of a specified low flow). The terms "return period" and "recurrence interval" do not imply regular cyclic occurrence. The actual times between occurrences vary randomly, with most of the times being less than the average

and a few being substantially greater than the average. For example, the 100-year flood is the flow rate that is exceeded by the annual maximum peak flow at intervals whose average length is 100 years (that is, once in 100 years, on average); almost two-thirds of all exceedances of the 100-year flood occur less than 100 years after the previous exceedance, half occur less than 70 years after the previous exceedance, and about one-eighth occur more than 200 years after the previous exceedance. Similarly, the 7-day, 10-year low flow $(7Q_{10})$ is the flow rate below which the annual minimum 7-day-mean flow dips at intervals whose average length is 10 years (that is, once in 10 years, on average); almost two-thirds of the nonexceedances of the 7Q₁₀ occur less than 10 years after the previous nonexceedance, half occur less than 7 years after, and about one-eighth occur more than 20 years after the previous nonexceedance. The recurrence interval for annual events is the reciprocal of the annual probability of occurrence. Thus, the 100-year flood has a 1-percent chance of being exceeded by the maximum peak flow in any year, and there is a 10-percent chance in any year that the annual minimum 7-day-mean flow will be less than the $7Q_{10}$.

Replicate samples are a group of samples collected in a manner such that the samples are thought to be essentially identical in composition.

Return period (See "Recurrence interval")

Riffle, as used in this report, is a shallow part of the stream where water flows swiftly over completely or partially submerged obstructions to produce surface agitation.

River mileage is the curvilinear distance, in miles, measured upstream from the mouth along the meandering path of a stream channel in accordance with Bulletin No. 14 (October 1968) of the Water Resources Council and typically is used to denote location along a river.

Run, as used in this report, is a relatively shallow part of a stream with moderate velocity and little or no surface turbulence.

Runoff is the quantity of water that is discharged ("runs off") from a drainage basin during a given time period. Runoff data may be presented as volumes in acre-feet, as mean discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches. (See also "Annual runoff")

Sea level, as used in this report, refers to one of the two commonly used national vertical datums (NGVD 1929 or NAVD 1988). See separate entries for definitions of these datums.

Sediment is solid material that originates mostly from disintegrated rocks; when transported by, suspended in, or deposited from water, it is referred to as "fluvial sediment." Sediment 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 affected by environmental and land-use factors. Some major factors are topography, soil characteristics, land cover, and depth and intensity of precipitation.

Sensible heat flux (often used interchangeably with latent sensible heat-flux density) is the amount of heat energy that moves by turbulent transport through the air across a specified cross-sectional area per unit time and goes to heating (cooling) the air. Usually expressed in watts per square meter.

Seven-day, 10-year low flow ($7Q_{10}$) is the discharge below which the annual 7-day minimum flow falls in 1 year out of 10 on the long-term average. The recurrence interval of the $7Q_{10}$ is 10 years; the chance that the annual 7-day minimum flow will be less than the $7Q_{10}$ is 10 percent in any given year. (See also "Annual 7-day minimum" and "Recurrence interval")

Shelves, as used in this report, are streambank features extending nearly horizontally from the flood plain to the lower limit of persistent woody vegetation.

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. Sodium hazard in water is an index that can be used to evaluate the suitability of water for irrigating crops.

Soil heat flux (often used interchangeably with soil heatflux density) is the amount of heat energy that moves by conduction across a specified cross-sectional area of soil per unit time and goes to heating (or cooling) the soil. Usually expressed in watts per square meter.

Soil-water content is the water lost from the soil upon drying to constant mass at 105 °C; expressed either as mass of water per unit mass of dry soil or as the volume of water per unit bulk volume of soil.

Specific electrical conductance (conductivity) is a measure of the capacity of water (or other media) to conduct an electrical current. It is expressed in microsiemens per centimeter at 25 °C. Specific electrical conductance is a function of the types and quantity of dissolved substances in water and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is from 55 to 75 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.

Stable isotope ratio (per MIL) is a unit expressing the ratio of the abundance of two radioactive isotopes. Isotope ratios are used in hydrologic studies to determine the age or source of specific water, to evaluate mixing of different water, as an aid in determining reaction rates, and other chemical or hydrologic processes.

Stage (See "Gage height")

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

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.

Substrate is the physical surface upon which an organism lives

Substrate embeddedness class is a visual estimate of riffle streambed substrate larger than gravel that is surrounded or covered by fine sediment (<2 mm, sand or finer). Below are the class categories expressed as the percentage covered by fine sediment:

 0
 no gravel or larger substrate
 3
 26-50 percent

 1
 > 75 percent
 4
 5-25 percent

 2
 51-75 percent
 5
 < 5 percent</td>

Surface area of a lake is that area (acres) encompassed by the boundary of the lake as shown on USGS topographic maps, or other available maps or photographs. Because surface area changes with lake stage, surface areas listed in this report represent those determined for the stage at the time the maps or photographs were obtained.

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

Surrogate is an analyte that behaves similarly to a target analyte, but that is highly unlikely to occur in a sample. A surrogate is added to a sample in known amounts before extraction and is measured with the same laboratory procedures used to measure the target analyte. Its purpose is to monitor method performance for an individual sample.

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

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative suspended water-sediment sample that is retained on a 0.45-micrometer 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 directly analyzing the suspended material collected on the filter or, more commonly, by difference, on the basis of determinations of (1) dissolved and (2) total recoverable concentrations of the constituent. (See also "Suspended")

Suspended sediment is the sediment maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid. (See also "Sediment")

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 foot above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L). The analytical technique uses the mass of all of the sediment and the net weight of the water-sediment mixture in a sample to compute the suspended-sediment concentration. (See also "Sediment" and "Suspended sediment")

Suspended-sediment discharge (tons/d) is the rate of sediment transport, as measured by dry mass or volume, that passes a cross 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. (See also "Sediment," "Suspended sediment," and "Suspended-sediment concentration")

Suspended-sediment load is a general term that refers to a given characteristic of the material in suspension that passes a point during a specified period of time. The term needs to be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It is not synonymous with either suspended-sediment discharge or concentration. (See also "Sediment")

Suspended solids, total residue at 105 °C concentration is the concentration of inorganic and organic material retained on a filter, expressed as milligrams of dry material per liter of water (mg/L). An aliquot of the sample is used for this analysis.

Suspended, total is the total amount of a given constituent in the part of a water-sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. 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 directly analyzing portions of the suspended material collected on the filter or, more commonly, by difference, on the basis of determinations of (1) dissolved and (2) total concentrations of the constituent. (See also "Suspended")

Synoptic studies are short-term investigations of specific water-quality conditions during selected seasonal or hydrologic periods to provide improved spatial resolution for critical water-quality conditions. For the period and conditions sampled, they assess the spatial distribution of selected water-quality conditions in relation to causative factors, such as land use and contaminant sources.

Taxa (Species) richness is the number of species (taxa) present in a defined area or sampling unit.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchial scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, *Hexagenia limbata*, is the following:

Kingdom: Animal
Phylum: Arthropeda
Class: Insecta
Order: Ephemeropte

Order: Ephemeroptera
Family: Ephemeridae
Genus: Hexagenia

Species: Hexagenia limbata

Thalweg is the line formed by connecting points of minimum streambed elevation (deepest part of the channel).

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table descriptions and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

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 resulting from the mixing of flow proportionally to the duration of the concentration.

Tons per acre-foot (T/acre-ft) is the dry mass (tons) of a constituent per unit volume (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, tons/d) is a common chemical or sediment discharge unit. It is the quantity of a substance in solution, in suspension, or as bedload that passes a stream section during a 24-hour period. It is equivalent to 2,000 pounds per day, or 0.9072 metric ton per day.

Total is the amount of a given constituent in a representative whole-water (unfiltered) 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 at least 95 percent of the constituent in the sample.)

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. This group includes coliforms that inhabit the intestine of warmblooded animals and those that inhabit soils. They are characterized as aerobic or facultative anaerobic, gramnegative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at 35 °C. In the laboratory, these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35 °C plus or minus 1.0 °C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 milliliters of sample. (See also "Bacteria")

Total discharge is the quantity of a given constituent, measured as dry mass or volume, that passes a stream cross section per unit of time. When referring to constituents other than water, this term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

Total in bottom material is the amount of a given constituent in a representative sample of bottom material. 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 judge when the results should be reported as "total in bottom material."

Total length (fish) is the straight-line distance from the anterior point of a fish specimen's snout, with the mouth closed, to the posterior end of the caudal (tail) fin, with the lobes of the caudal fin squeezed together.

Total load refers to all of a constituent in transport. When referring to sediment, it includes suspended load plus bed load.

Total organism count is the number of organisms collected and enumerated in any particular sample. (See also "Organism count/volume")

Total recoverable is the amount of a given constituent in a whole-water sample after a 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 for whole-water samples, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures may produce different analytical results.

Total sediment discharge is the mass of suspendedsediment plus bed-load transport, measured as dry weight, that passes a cross section in a given time. It is a rate and is reported as tons per day. (See also "Bedload," "Bedload discharge," "Sediment," "Suspended sediment," and "Suspended-sediment concentration")

Total sediment load or total load is the sediment in transport as bedload and suspended-sediment load. The term may be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It differs from total sediment discharge in that load refers to the material, whereas discharge refers to the quantity of material, expressed in units of mass per unit time. (See also "Sediment," "Suspended-sediment load," and "Total load")

Transect, as used in this report, is a line across a stream perpendicular to the flow and along which measurements are taken, so that morphological and flow characteristics along the line are described from bank to bank. Unlike a cross section, no attempt is made to determine known elevation points along the line.

Turbidity is the reduction in the transparency of a solution because of the presence of suspended and some dissolved substances. The measurement technique records the collective optical properties of the solution that cause light to be scattered and attenuated rather than transmitted in straight lines; the higher the intensity of scattered or attenuated light, the higher the value of the turbidity. Turbidity is expressed in nephelometric turbidity units (NTU). Depending on the method used, the turbidity units as NTU can be defined as the intensity of light of a specified wavelength scattered or attenuated by suspended particles or absorbed at a method specified angle, usually 90 degrees, from the path of the incident light. Currently approved methods for the measurement of turbidity in the USGS include those that conform to USEPA Method 180.1, ASTM D1889-00. and ISO 7027. Measurements of turbidity by these different methods and different instruments are unlikely to yield equivalent values.

Ultraviolet (UV) absorbance (absorption) at 254 or 280 nanometers is a measure of the aggregate concentration of the mixture of UV absorbing organic materials dissolved in the analyzed water, such as lignin, tannin, humic substances, and various aromatic compounds. UV absorbance (absorption) at 254 or 280 nanometers is measured in UV absorption units per centimeter of path length of UV light through a sample.

Unconfined aquifer is an aquifer whose upper surface is a water table free to fluctuate under atmospheric pressure. (See "Water-table aquifer")

Vertical datum (See "Datum")

Volatile organic compounds (VOCs) are organic compounds that can be isolated from the water phase of a sample by purging the water sample with inert gas, such as helium, and, subsequently, analyzed by gas chromatography. Many VOCs are human-made chemicals that are used and produced in the manufacture of paints, adhesives, petroleum products, pharmaceuticals, and refrigerants. They often are components of fuels, solvents, hydraulic fluids, paint thinners, and dry-cleaning agents commonly used in urban settings. VOC contamination of drinkingwater supplies is a human-health concern because many are toxic and are known or suspected human carcinogens.

Water table is that surface in a ground-water body at which the water pressure is equal to the atmospheric pressure.

Water-table aquifer is an unconfined aquifer within which the water table is found.

Water year in USGS 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, 2002, is called the "2002 water year."

Watershed (See "Drainage basin")

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.

Wet mass is the mass of living matter plus contained water. (See also "Biomass" and "Dry mass")

Wet weight refers to the weight of animal tissue or other substance including its contained water. (See also "Dry weight")

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

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column and often are large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers. (See also "Plankton")

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

	Multiply		Multiply	
Ion	by	Ion	by	
Aluminum (A1 ⁺³)	0.11119	Iodide (I ⁻¹)	0.00788	
Ammonia as NH ₄ ⁺¹	.05544	Iron (Fe ⁺³)*	.05372	
Barium (Ba ⁺²)	.01456	Lead (Pb ⁺²)*	.00965	
Bicarbonate (HCO ₃ ⁻¹	.01639	Lithium (Li ⁺¹)*	.14411	
Bromide (Br ⁻¹)	.01251	Magnesium (Mg ⁺²)	.08226	
Calcium (Ca ⁺²)	.04990	Manganese (Mn ⁺²)*	.03640	
Carbonate (CO ₃ ⁻²)	.03333	Nickel (Ni ⁺²)*	.03406	
Chloride (C1 ⁻¹)	.02821	Nitrate (NO ₃ ⁻¹)	.01613	
Chromium (Cr ⁺⁶)*	.11539	Nitrite (NO ₂ ⁻¹)	.02174	
Cobalt (Co ⁺²)*	.03394	Phosphate (PO_4^{-3})	.03159	
Copper (Cu ⁺²)*	.03148	Potassium (K ⁺¹)	.02557	
Cyanide (CN ⁻¹)	.03844	Sodium (Na ⁺¹)	.04350	
Fluoride (F ⁻¹)	.05264	Strontium (Sr ⁺²)*	.02283	
Hydrogen (H ⁺¹)	.99209	Sulfate (SO ₄ ⁻²)	.02082	
Hydroxide (OH ⁻¹)	.05880	$Zinc (Zn^{+2})*$.03060	

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

(All values calculated to three significant figures)

Range of concen- tration 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.

52 TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS OF THE U.S. GEOLOGICAL SURVEY

The USGS publishes a series of manuals, the Techniques of Water-Resources Investigations, 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.

Reports in the Techniques of Water-Resources Investigations series, which are listed below, are online at http://water.usgs.gov/pubs/twri/. Printed copies are for sale by the USGS, Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office), telephone 1-888-ASK-USGS. Please telephone 1-888-ASK-USGS for current prices, and refer to the title, book number, chapter number, and mention the "U.S. Geological Survey Techniques of Water-Resources Investigations." Products can then be ordered by telephone, or online at http://www.usgs.gov/sales.html, or by FAX to (303)236-469 of an order form available online at http://mac.usgs.gov/isb/pubs/forms/. Prepayment by major credit card or by a check or money order payable to the "U.S. Geological Survey" is required.

Book 1. Collection of Water Data by Direct Measurement

Section D. Water Quality

- 1-D1. Water temperature—influential factors, field measurement, and data presentation, by H. H. Stevens, Jr., J.F. Ficke, and G. F. Smoot: USGS–TWRI book 1, chap. D1. 1975. 65 p.
- 1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W.W. Wood: USGS–TWRI book 1, chap. D2. 1976. 24 p.

Book 2. Collection of Environmental Data

Section D. Surface Geophysical Methods

- 2-D1. Application of surface geophysics to ground-water investigations, by A.A. R. Zohdy, G.P. Eaton, and D.R. Mabey: USGS–TWRI book 2, chap. D1. 1974. 116 p.
- 2-D2. Application of seismic-refraction techniques to hydrologic studies, by F.P. Haeni: USGS-TWRI book 2, chap. D2. 1988. 86 p.

Section E. Subsurface Geophysical Methods

- 2-E1. *Application of borehole geophysics to water-resources investigations*, by W.S. Keys and L.M. MacCary: USGS–TWRI book 2, chap. E1. 1971. 126 p.
- 2-E2. *Borehole geophysics applied to ground-water investigations*, by W.S. Keys: USGS–TWRI book 2, chap. E2. 1990. 150 p.

Section F. Drilling and Sampling Methods

2-F1. Application of drilling, coring, and sampling techniques to test holes and wells, by Eugene Shuter and W.E. Teasdale: USGS–TWRI book 2, chap. F1. 1989. 97 p.

Book 3. Applications of Hydraulics

Section A. Surface-Water Techniques

- 3-A1. *General field and office procedures for indirect discharge measurements*, by M.A. Benson and Tate Dalrymple: USGS–TWRI book 3, chap. A1. 1967. 30 p.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M.A. Benson: USGS—TWRI book 3, chap. A2. 1967. 12 p.

- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G.L. Bodhaine: USGS–TWRI book 3, chap. A3. 1968. 60 p.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H.F. Matthai: USGS-TWRI book 3, chap. A4. 1967. 44 p.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS–TWRI book 3. chap. A5. 1967. 29 p.
- 3-A6. *General procedure for gaging streams*, by R.W. Carter and Jacob Davidian: USGS–TWRI book 3, chap. A6. 1968. 13 p.
- 3-A7. *Stage measurement at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS–TWRI book 3, chap. A7. 1968. 28 p.
- 3-A8. *Discharge measurements at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS–TWRI book 3, chap. A8. 1969. 65 p.
- 3-A9. *Measurement of time of travel in streams by dye tracing*, by F.A. Kilpatrick and J.F. Wilson, Jr.: USGS–TWRI book 3, chap. A9. 1989. 27 p.
- 3-Al0. Discharge ratings at gaging stations, by E.J. Kennedy: USGS-TWRI book 3, chap. Al0. 1984. 59 p.
- 3-A11. *Measurement of discharge by the moving-boat method*, by G.F. Smoot and C.E. Novak: USGS–TWRI book 3, chap. A11. 1969. 22 p.
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- 3-A13. *Computation of continuous records of streamflow*, by E.J. Kennedy: USGS–TWRI book 3, chap. A13. 1983. 53 p.
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- 3-A16. *Measurement of discharge using tracers*, by F.A. Kilpatrick and E.D. Cobb: USGS–TWRI book 3, chap. A16. 1985. 52 p.
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- 3-A21 *Stream-gaging cableways*, by C. Russell Wagner: USGS–TWRI book 3, chap. A21. 1995. 56 p.

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- 3-B1. *Aquifer-test design, observation, and data analysis,* by R.W. Stallman: USGS–TWRI book 3, chap. B1. 1971. 26 p.
- 3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G.D. Bennett: USGS–TWRI book 3, chap. B2. 1976. 172 p.

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- 3-C1. Fluvial sediment concepts, by H.P. Guy: USGS-TWRI book 3, chap. C1. 1970. 55 p.
- 3-C2. *Field methods for measurement of fluvial sediment*, by T.K. Edwards and G.D. Glysson: USGS–TWRI book 3, chap. C2. 1999. 89 p.
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Section A. Statistical Analysis

- 4-A1. Some statistical tools in hydrology, by H.C. Riggs: USGS-TWRI book 4, chap. A1. 1968. 39 p.
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Section A. Ground Water

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8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G.F. Smoot and C.E. Novak: USGS—TWRI book 8, chap. B2. 1968. 15 p.

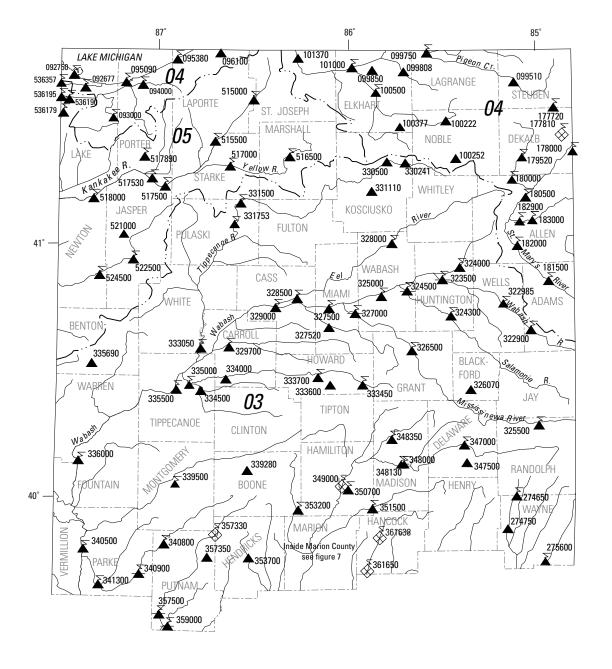
Book 9. Handbooks for Water-Resources Investigations

Section A. National Field Manual for the Collection of Water-Quality Data

- 9-A1. *National Field Manual for the Collection of Water-Quality Data: Preparations for Water Sampling*, by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A1. 1998. 47 p.
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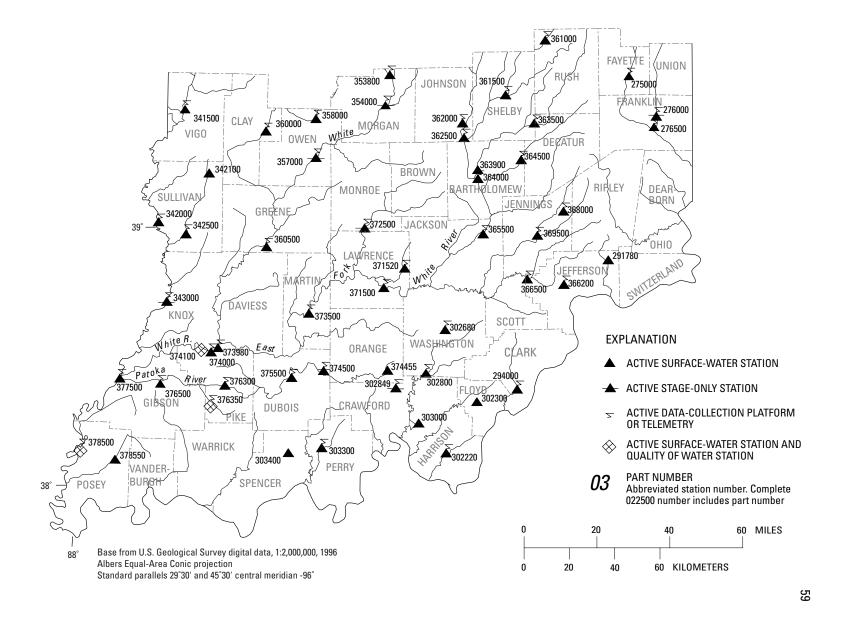


Figure 6.--Locations of streamflow and water-quality gaging stations in Indiana.

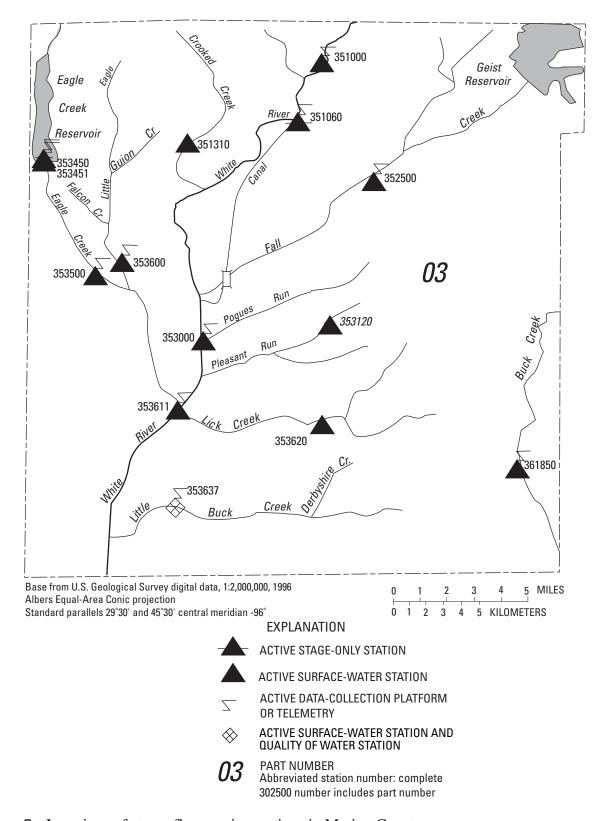


Figure 7.--Locations of streamflow-gaging stations in Marion County.

STATION RECORDS FOR

GAGING STATIONS

IN THE

STATE OF INDIANA

03274650 WHITEWATER RIVER NEAR ECONOMY, IN

LOCATION.--Lat $40^{\circ}00'05^{\circ}$, long $85^{\circ}06'56^{\circ}$, in $NW^{1}_{4}NE^{1}_{4}$ sec.19, T.18 N., R.13 E., Wayne County, Hydrologic Unit 05080003, (CARLOS, IN quadrangle), 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 National Geodetic Vertical Datum of 1929.

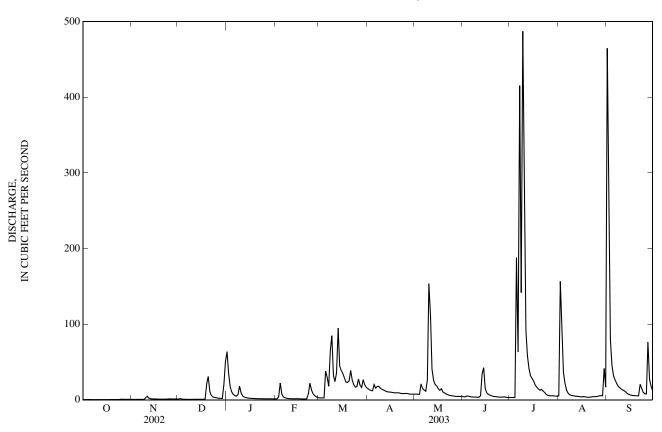
REMARKS.--Records fair except for estimated daily discharges and those below 1.0 ft³/s, which are poor.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
0.30	e0.58	0.97	64	e1.3	e2.6	15	7.5	4.1	3.0	5.3	465
0.28	e0.58	1.6	35	e1.3	e2.5	13	7.6	3.8	3.1	157	227
0.28	e0.56	1.1	18	e3.8	e2.5	12	7.3	4.8	3.0	105	80
0.41	e0.56	0.75	11	22	e2.6	12	7.3	5.1	3.1	36	45
0.44	e0.60	0.73	7.2	e8.0	38	20	21	4.4	188	22	32
0.36	e0.64	0.70	5.4	e3.8	30	15	15	3.9	63	13	26
0.33	e0.60	0.67	4.9	e2.7	e18	18	13	3.8	416	8.7	22
0.33	e0.58	0.67	7.0	e2.1	65	18	11	3.7	142	6.8	18
0.33	e0.56	0.65	18	e1.7	85	15	26	3.6	487	6.0	16
0.33	e2.7	0.62	9.2	e1.6	e32	14	154	3.5	234	5.5	14
0.31	4.8	0.70	e5.2	e1.5	e24	13	112	3.3	92	5.1	13
0.30	2.3	0.69	e3.6	e1.4	36	12	40	5.5	58	4.7	12
0.29	1.5	0.79	e3.0	e1.4	95	11	26	34	41	4.7	10
0.29	1.3	e0.76	e2.5	e1.5	45	10	20	42	32	4.4	8.2
0.31	1.2	e0.74	e2.2	e1.5	39	10	18	15	28	4.0	7.1
0.30	1.2	e0.72	e2.0	e1.3	35	10	15	9.2	24	3.9	6.3
0.30	1.0	e0.70	e1.9	e1.4	29	9.7	13	7.3	19	4.3	5.8
0.29	0.95	e0.90	e1.8	e1.2	23	9.3	15	6.2	17	3.9	5.6
0.44	0.94	22	e1.7	e1.2	23	9.2	10	5.4	14	3.4	5.5
0.39	0.89	31	e1.6	e1.2	25	9.3	9.0	4.7	13	3.3	5.3
0.38	0.89	11	e1.5	e1.3	39	9.2	7.8	4.3	14	3.5	5.3
0.38	0.96	5.8	e1.5	e8.0	26	8.6	6.8	4.1	12	3.9	21
0.38	0.90	3.9	e1.5	e22	20	8.2	6.0	3.8	9.7	4.1	15
0.40	1.1	3.2	e1.4	e13	17	8.2	5.6	3.6	7.2	4.2	9.9
0.76	1.2	3.0	e1.4	e8.0	17	8.5	5.3	3.5	6.0	4.2	8.0
0.89 0.75 0.57 e0.70 e0.64 e0.60	1.2 1.1 1.0 1.2 1.1	2.2 2.0 1.9 1.8 21 50	e1.4 e1.3 e1.4 e1.4 e1.3 e1.3	e5.6 e4.0 e3.0	28 20 16 27 20 16	8.5 7.8 7.5 7.5 7.5	5.0 4.7 4.5 4.6 4.3 4.7	3.6 4.0 3.5 3.2 3.1	5.5 5.3 5.4 5.2 4.9 4.7	4.6 5.4 5.4 5.3 42 17	7.8 76 27 18 12
13.06	34.69	173.26	220.6	126.8	898.2	337.0	607.0	210.0	1,960.1	506.6	1,223.8
0.42	1.16	5.59	7.12	4.53	29.0	11.2	19.6	7.00	63.2	16.3	40.8
0.89	4.8	50	64	22	95	20	154	42	487	157	465
0.28	0.56	0.62	1.3	1.2	2.5	7.5	4.3	3.1	3.0	3.3	5.3
0.04	0.11	0.54	0.68	0.44	2.79	1.08	1.88	0.67	6.08	1.57	3.92
0.05	0.12	0.62	0.79	0.45	3.21	1.21	2.17	0.75	7.01	1.81	4.38
TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1971 - 2003	, BY WATE	R YEAR (W	YY)			
4.39	10.3	12.3	12.8	17.4	19.7	19.0	14.4	9.24	8.72	4.59	4.16
39.9	67.0	39.7	37.7	56.0	41.6	46.0	58.4	24.8	63.2	61.5	40.8
(1987)	(1994)	(1978)	(1996)	(1985)	(1978)	(1996)	(1996)	(1998)	(2003)	(1979)	(2003)
0.14	0.097	0.19	0.33	3.31	2.58	2.96	1.47	1.03	0.57	0.40	0.15
(2000)	(2000)	(2000)	(1977)	(1978)	(1981)	(1971)	(1988)	(1977)	(1977)	(1999)	(1999)
RY STATIS	STICS]	FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	/EAR	WATER	YEARS 197	71 - 2003
FANNUAL FDAILY M FDAILY M LSEVEN-E UM PEAK F UM PEAK F LRUNOFF LRUNOFF ENT EXCE	MEAN IEAN EAN DAY MINIM FLOW STAGE (CFSM) (INCHES) EDS EDS	UM	223 () () () 13 26	3.3 May 3.28 Oct 3.30 Oct 3.40 6.5 3.1	2	48 1,04	17.3 37 Ju 0.28 Oc 0.30 Oc 40 Ju 8.76 Ju 1.66 222.57 32 5.2	t 2 t 12 1 9	6	18.8 3.26 47 No 0.00 Fe 0.00 Fe 20 No 8.91 No 1.09 14.86 25 4.0	1979 1977 ov 14, 1993 eb 3, 2000 eb 3, 2000 ov 14, 1993 ov 14, 1993
	0.30 0.28 0.28 0.41 0.44 0.36 0.33 0.33 0.33 0.33 0.33 0.33 0.33	0.30 e0.58 0.28 e0.58 0.28 e0.58 0.28 e0.56 0.41 e0.56 0.41 e0.56 0.44 e0.60 0.36 e0.64 0.33 e0.56 0.33 e0.56 0.33 e2.7 0.31 4.8 0.30 2.3 0.29 1.5 0.29 1.3 0.31 1.2 0.30 1.0 0.29 0.95 0.44 0.94 0.39 0.89 0.38 0.89 0.38 0.99 0.38 0.90 0.40 1.1 0.76 1.2 0.89 1.2 0.75 1.1 0.57 1.0 e0.70 1.2 e0.64 1.1 e0.60 13.06 34.69 0.42 1.16 0.89 4.8 0.28 0.56 0.04 0.11 0.05 0.12 CICS OF MONTHLY M 4.39 10.3 39.9 67.0 (1987) (1994) 0.14 0.097 (2000) (2000) RY STATISTICS L TOTAL L MEAN T ANNUAL MEAN T DAILY MEAN	0.30 e0.58 0.97 0.28 e0.58 1.6 0.28 e0.56 1.1 0.41 e0.56 0.75 0.44 e0.60 0.73 0.36 e0.64 0.70 0.33 e0.58 0.67 0.33 e0.56 0.65 0.33 e0.56 0.65 0.33 e2.7 0.62 0.31 4.8 0.70 0.30 2.3 0.69 0.29 1.5 0.79 0.29 1.3 e0.76 0.31 1.2 e0.74 0.30 1.2 e0.74 0.30 1.2 e0.74 0.30 1.0 e0.70 0.29 0.95 e0.90 0.44 0.94 22 0.39 0.89 31 0.38 0.89 11 0.38 0.89 11 0.38 0.96 5.8 0.38 0.90 3.9 0.40 1.1 3.2 0.76 1.2 3.0 0.89 1.2 2.2 0.75 1.1 2.0 0.89 1.2 2.2 0.75 1.1 2.0 0.57 1.0 1.9 e0.70 1.2 1.8 e0.64 1.1 21 e0.60 50 13.06 34.69 173.26 0.42 1.16 5.59 0.89 4.8 50 0.28 0.56 0.62 0.04 0.11 0.54 0.05 0.12 0.62 CICS OF MONTHLY MEAN DATA 4.39 10.3 12.3 39.9 67.0 39.7 (1987) (1994) (1978) 0.14 0.097 0.19 (2000) (2000) RY STATISTICS L TOTAL L MEAN T ANNUAL	0.30 e0.58 0.97 64 0.28 e0.58 1.6 35 0.28 e0.56 1.1 18 0.41 e0.56 0.75 11 0.44 e0.60 0.73 7.2 0.36 e0.64 0.70 5.4 0.33 e0.58 0.67 7.0 0.33 e0.58 0.67 7.0 0.33 e0.58 0.67 7.0 0.33 e0.56 0.65 18 0.33 e2.7 0.62 9.2 0.31 4.8 0.70 e5.2 0.30 2.3 0.69 e3.6 0.29 1.5 0.79 e3.0 0.29 1.5 0.79 e3.0 0.29 1.3 e0.76 e2.5 0.31 1.2 e0.74 e2.2 0.30 1.2 e0.72 e2.0 0.30 1.2 e0.70 e1.9 0.29 0.95 e0.90 e1.8 0.44 0.94 22 e1.7 0.39 0.89 31 e1.6 0.38 0.89 11 e1.5 0.38 0.96 5.8 e1.5 0.39 0.40 1.1 3.2 e1.4 0.76 1.2 3.0 e1.4 0.76 1.2 3.0 e1.4 0.76 1.2 3.0 e1.4 0.76 1.2 1.8 e1.4 e0.64 1.1 21 e1.3 e0.60 50 e1.3 13.06 34.69 173.26 220.6 0.42 1.16 5.59 7.12 0.89 4.8 50 64 0.28 0.56 0.62 1.3 0.04 0.11 0.54 0.68 0.05 0.12 0.62 0.79 CICS OF MONTHLY MEAN DATA FOR WATH 0.78 1.1 0.54 0.68 0.05 0.12 0.62 0.79 CICS OF MONTHLY MEAN DATA FOR WATH 0.79 0.19 0.33 0.00 0.10 0.90 0.19 0.33 0.00 0.10 0.90 0.19 0.33 0.00 0.10 0.90 0.19 0.33 0.00 0.10 0.90 0.19 0.33 0.00 0.10 0.90 0.19 0.33 0.00 0.10 0.90 0.19 0.33 0.00 0.10 0.90 0.19 0.33 0.00 0.10 0.90 0.19 0.33 0.00 0.10 0.90 0.19 0.33 0.00 0.10 0.00 0.00 0.10 0.10 0.10 0.10	0.30	0.30 e0.58	0.30 e0.58 0.97 64 e1.3 e2.6 15 0.28 e0.56 1.6 35 e1.3 e2.5 13 0.28 e0.56 1.1 18 e3.8 e2.5 12 0.44 e0.60 0.73 7.2 e8.0 38 20 0.44 e0.60 0.73 7.2 e8.0 38 20 0.36 e0.64 0.60 0.73 7.2 e8.0 38 20 0.36 e0.64 0.60 0.67 4.9 e2.7 e18 18 0.33 e0.60 0.67 4.9 e2.7 e18 18 0.33 e0.58 0.67 7.0 e2.1 65 18 0.33 e0.56 0.65 18 e1.7 85 15 0.33 e2.7 0.62 9.2 e1.6 e32 14 0.30 e2.7 0.62 9.2 e1.6 e32 14 0.30 e2.7 0.62 9.2 e1.6 e32 14 0.30 12 0.30 e1.4 95 11 0.30 1.2 e0.76 e2.5 e1.5 45 10 0.31 1.2 e0.74 e2.2 e1.5 39 10 0.30 1.2 e0.72 e2.0 e1.3 35 10 0.30 1.2 e0.70 e2.9 e1.4 29 9.7 0.29 0.95 e0.90 e1.8 e1.2 23 9.3 0.34 0.99 0.89 31 e1.6 e1.2 23 9.3 0.39 0.89 31 e1.6 e1.2 23 9.3 0.38 0.96 5.8 e1.5 e2.2 20 0.39 0.89 31 e1.6 e1.2 25 9.3 0.38 0.96 5.8 e1.5 e2.2 20 0.38 0.96 0.38 0.96 5.8 e1.5 e2.2 20 0.39 0.89 31 e1.6 e1.2 25 9.3 0.38 0.96 0.90 0.90 e1.8 e1.2 23 9.3 0.38 0.96 0.90 0.90 e1.8 e1.2 23 9.3 0.38 0.96 0.90 0.90 0.90 0.90 0.90 0.90 0.90	0.30	0.30 e0.58 0.97 64 c1.3 e2.6 15 7.5 4.1 0.28 e0.58 1.6 35 e1.3 e2.5 13 7.6 3.8 0.28 e0.56 1.1 18 c3.8 e2.5 12 7.3 4.8 0.41 e0.56 0.75 11 22 e2.6 12 7.3 5.1 0.44 e0.60 0.73 7.2 e8.0 38 20 21 4.4 0.44 e0.60 0.73 7.2 e8.0 38 20 21 4.4 0.36 0.33 e0.60 0.67 4.9 e2.7 e18 18 13 3.8 0.33 e0.60 0.67 4.9 e2.7 e18 18 13 3.8 0.33 e0.58 0.67 7.0 e2.1 65 18 11 3.7 0.63 0.33 e0.58 0.67 7.0 e2.1 65 18 11 3.7 0.33 e0.56 0.65 18 e1.7 85 15 26 3.6 0.33 e2.7 0.62 9.2 e1.6 e32 14 154 3.5 0.33 e2.7 0.62 9.2 e1.6 e32 14 154 3.5 0.33 e2.7 0.62 9.2 e1.6 e32 14 154 3.5 0.33 e2.7 0.62 9.2 e1.6 e32 14 154 3.5 0.31 4.8 0.70 e5.2 e1.5 e24 13 112 3.3 0.30 0.2 3.0 6.9 e3.6 e1.4 36 12 40 5.5 0.29 1.3 e0.76 e2.5 e1.5 45 10 20 42 0.31 1.2 e0.74 e2.2 e1.5 39 10 18 15 0.30 1.2 e0.72 e2.0 e1.3 35 0.30 1.2 e0.72 e2.0 e1.3 35 0.30 1.2 e0.72 e2.0 e1.3 35 0.30 1.0 e0.70 e1.9 e1.3 23 9.7 3 15 0.29 0.39 1.0 e1.9 e1.4 23 9.7 3 15 0.30 0.39 0.89 31 e1.6 e1.2 23 9.3 15 6.2 0.30 1.0 e0.70 e1.9 e1.4 23 9.3 10 18 15 0.34 0.39 0.89 31 e1.5 e1.2 23 9.3 15 6.2 0.39 0.89 31 e1.5 e1.2 23 9.3 15 6.2 0.30 1.0 e0.70 e1.9 e1.4 e1.3 17 8.2 5.6 3.6 0.30 0.89 21 e1.5 e1.5 e1.3 39 0.8 9 11 e1.5 e1.3 39 9.2 7.8 4.3 0.38 0.96 5.8 e1.5 e8.0 26 8.6 6.8 4.1 0.38 0.96 5.8 e1.5 e1.5 e8.0 26 8.6 6.8 4.1 0.38 0.90 3.9 e1.5 e2.2 20 8.2 6.0 8.6 6.8 4.1 0.38 0.90 3.9 e1.5 e2.2 20 8.2 6.0 8.6 6.8 4.1 0.38 0.90 3.9 e1.5 e2.2 20 8.2 6.0 8.6 6.8 4.1 0.38 0.90 3.9 e1.5 e2.2 20 8.2 6.0 3.8 0.40 1.1 3.2 e1.4 e1.3 1.2 2.5 7.5 4.5 3.5 0.5 0.5 0.29 1.1 2.0 0.20 1.3 e1.4 e8.0 17 8.5 5.3 3.5 0.0 0.5 0.2 1.2 e1.4 e1.3 1.7 8.2 5.6 3.6 0.5 0.5 0.2 1.3 e1.5 e1.5 e2.2 20 8.2 6.0 3.8 0.40 0.1 1.3 2.2 e1.4 e1.3 1.7 8.2 5.6 3.6 0.5 0.5 0.2 1.3 e1.4 e1.3 1.7 8.2 5.6 3.6 0.5 0.5 0.2 1.3 e1.4 e1.3 1.7 8.2 5.6 3.6 0.5 0.5 0.2 1.3 e1.4 e1.3 1.7 8.2 5.6 3.6 0.5 0.5 0.2 1.3 e1.4 e1.3 1.7 8.2 5.6 0.3 0.5 0.0 0.5 0.1 2 e1.3 0.2 0.2 0.7 5.4 4.3 3.1 0.0 0.5 0.1 2 e1.4 e5.0 1.5 0.1 1.2 0.0 0.0 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0	0.30 e0.58 0.97 64 c1.3 c2.6 15 7.5 4.1 3.0 0.28 e0.58 1.6 55 e1.3 c2.5 13 7.6 3.8 3.1 0.28 e0.58 1.6 55 e1.3 e2.5 13 7.6 3.8 3.1 0.41 e0.56 0.75 11 18 e3.8 e2.5 12 7.3 5.1 181 188 0.44 e0.66 0.75 11 2.8 e2.6 12 7.3 5.1 181 188 0.34 e2.5 12 7.3 5.1 181 188 0.34 e2.6 12 7.3 5.1 181 188 0.34 e2.6 12 7.3 5.1 181 188 0.34 e2.6 12 7.3 5.1 181 188 0.35 e2.6 0.44 e0.66 0.75 7.2 e8.0 38 20 21 4.4 4 188 0.33 e0.60 0.67 4.9 e2.7 e18 181 13 3.8 416 0.33 e0.56 0.65 18 e1.7 85 15 2.6 3.6 487 0.33 e0.56 0.65 18 e1.7 85 15 2.6 3.6 487 0.33 e0.56 0.65 18 e1.7 85 15 2.6 3.6 487 0.33 e0.56 0.65 18 e1.7 85 15 2.6 3.6 487 0.33 e0.56 0.65 18 e1.7 85 15 2.6 3.6 487 0.33 e0.56 0.67 7.0 e2.1 65 18 11 3.7 142 0.33 e0.56 0.69 e2.6 e1.6 e32 14 154 3.5 234 0.29 1.5 0.79 e3.0 e1.4 95 11 2.6 34 44 10.2 3.3 0.29 1.5 0.79 e3.0 e1.4 95 11 2.6 34 44 14 0.5 5.5 58 0.29 1.5 0.79 e3.0 e1.4 95 11 2.6 34 44 14 0.31 1.2 e0.74 e2.2 e1.5 39 10 18 15 28 0.30 1.2 e0.76 e2.5 e1.5 45 10 20 42 32 0.30 1.0 e0.70 e1.9 e1.4 29 9.7 13 7.3 19 0.29 0.55 e0.90 e1.8 e1.2 23 9.3 15 6.2 17 0.44 0.94 22 e1.7 e1.2 23 9.2 10 18 15 28 0.30 1.0 e0.70 e1.9 e1.4 29 9.7 13 7.3 19 0.29 0.55 e0.90 e1.8 e1.2 23 9.3 15 6.2 17 0.44 0.94 22 e1.7 e1.2 23 9.2 10 5.4 14 0.33 0.39 0.39 31 e1.6 e1.2 25 9.3 9.0 4.7 13 0.38 0.98 31 e1.6 e1.2 25 9.3 9.0 4.7 13 0.38 0.98 11 e1.5 e2.5 e2.2 0.8 8.2 6.6 8.4 4.1 14 0.30 0.38 0.98 11 e1.5 e2.5 e2.2 0.8 8.2 6.6 8.4 4.1 14 0.30 0.38 0.98 11 e1.5 e2.2 0.7 8.2 0.7 8.5 5.3 5.5 6.0 0.5 7.1 1.2 0.0 1.3 1.4 e2.0 0.7 7.5 4.5 3.5 5.0 0.5 7.1 1.0 1.9 e1.4 e3.0 1.7 8.5 5.3 3.5 5.0 0.5 6.0 0.0 1.3 1.2 e0.74 e2.2 e1.7 e1.2 23 9.2 10 0.5 4.4 14 0.30 0.38 0.98 11 e1.5 e2.2 0.0 8.2 6.8 8.5 5.0 3.6 5.5 6.0 0.0 1.3 1.2 e0.76 e1.3 e1.0 e1.2 e2.0 e1.3 e1.0 e1.2 e1.0 e1.3 e1.0 e1.0 e1.2 e1.0 e1.0 e1.0 e1.0 e1.0 e1.0 e1.0 e1.0	0.30

e Estimated

03274650 WHITEWATER RIVER NEAR ECONOMY, IN—Continued



03274750 WHITEWATER RIVER NEAR HAGERSTOWN, IN

LOCATION.--Lat 39°52'25", long 85°09'47", in $NE_4^1/4$ Sec. 3, T.16 N., R.12 E., Wayne County, Hydrologic Unit 05080003, (CAMBRIDGE CITY, IN quadrangle), on right bank at upstream side of bridge on Jerry Meyers Road, 1.0 mi upstream from Pronghorn Run, 1.5 mi north of Interstate 70, 2.0 mi downstream from Nettle Creek, 2.6 mi south of Hagerstown, and at mile 84.9.

DRAINAGE AREA.--58.7 mi².

PERIOD OF RECORD.--October 1970 to October 2003 (discontinued).

REVISED RECORDS .-- WDR IN-01-1: 1997-2000 (P).

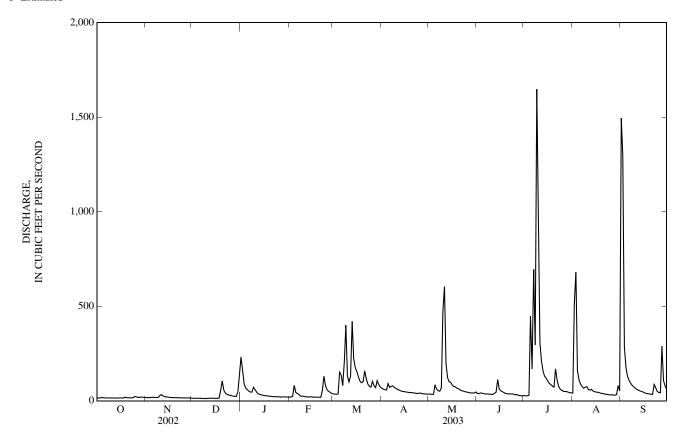
GAGE.--Water-stage recorder. Datum of gage is 950.00 ft above National Geodetic Vertical Datum of 1929 (Indiana Flood Control and Water Resources Commission bench mark).

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY						DAII	LY MEAN V	ALUES					
2 15 17 14 187 9 220 236 62 35 38 28 27 514 1290 3 15 17 17 14 89 224 265 59 34 41 2 26 681 284 4 17 17 14 89 224 265 59 34 41 22 26 519 174 5 16 18 11 13 51 38 136 77 53 38 481 10 130 6 16 16 19 13 5 51 38 136 77 53 38 481 10 130 6 16 16 19 13 5 51 38 136 77 53 38 481 10 130 6 16 16 19 13 5 17 12 2 64 38 136 77 53 38 481 10 130 6 16 16 19 13 5 17 2 12 2 64 38 136 77 53 38 185 77 7 81 10 11 10 15 10	DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
8 15 18 13 47 34 81 77 53 36 695 75 93 8 15 18 13 446 e25 206 79 50 36 296 67 75 61 9 15 17 12 71 e25 e400 71 69 35 1.650 72 74 10 15 26 12 59 e24 e130 65 473 34 8835 75 66 11 15 26 14 e37 e21 131 57 197 40 211 57 56 13 15 23 14 e34 e20 420 53 123 45 158 60 52 14 15 21 14 e32 e21 131 57 197 40 211 57 56 13 15 20 13 e29 e21 175 49 97 63 119 48 46 15 15 15 19 13 e28 e19 156 47 83 53 106 46 42 17 15 18 13 e27 e20 128 46 75 49 92 46 40 18 15 17 15 526 e20 105 44 67 5 49 92 46 40 18 15 17 15 58 e25 e19 96 43 67 39 78 40 36 20 17 16 104 e24 e19 101 44 63 38 872 39 35 21 16 16 55 e23 e19 158 43 58 36 169 37 34 22 16 17 41 e22 e56 119 44 63 38 72 39 35 22 16 16 55 e23 e19 e18 43 58 36 169 37 34 22 16 17 41 e22 e56 119 41 45 37 110 35 86 23 16 16 34 e22 e130 89 40 52 36 74 34 40 24 16 16 34 e22 e130 89 40 52 36 74 34 70 25 23 15 30 e21 e88 77 24 41 47 32 55 31 43 27 19 15 5 5 27 e21 e50 104 40 45 33 51 32 43 27 19 15 5 5 620 e20 e45 80 37 42 28 49 30 60 61 28 29 21 55 53 104 46 22 e150 e17 40 40 45 33 51 32 43 29 18 15 77 77 74 74 44 45 53 51 40 210 17 16 16 55 e23 e19 158 43 58 43 58 43 38 210 17 16 10 40 40 40 45 40 40 45 40 222 16 17 47 47 40 40 45 40 223 16 16 57 59 624 60 77 70 70 70 70 70 70	2	15	17	14	157	e20	e36	62	35	38	27	514	1,290
	3	15	17	14	89	e24	e35	59	34	42	26	681	284
	4	17	17	14	68	82	e36	58	34	41	29	159	174
12	7	15	18	13	47	34	81	77	53	36	695	75	93
	8	15	18	13	46	e25	206	79	50	36	296	67	81
	9	15	17	12	71	e25	e400	71	69	35	1,650	72	74
17	12	15	26	14	e37	e21	131	57	197	40	211	57	56
	13	15	23	14	e34	e20	420	53	123	45	158	60	52
	14	15	21	14	e32	e21	223	51	101	112	131	52	49
16	17	15	18	13	e27	e20	128	46	75	49	92	46	40
	18	15	17	15	e26	e20	105	45	74	44	85	43	38
	19	19	17	58	e25	e19	96	43	67	39	78	40	36
27	22	16	17	41	e22	e56	119	41	54	37	110	35	86
	23	16	16	34	e22	e130	89	40	52	36	74	34	70
	24	16	16	30	e21	e80	77	39	49	36	62	32	50
MEAN 16.5 18.3 28.3 45.8 36.3 126 52.8 94.6 40.5 204 90.4 171 MAX 23 33 135 232 130 420 92 604 112 1,650 681 1,500 MIN 15 14 12 20 19 35 35 34 27 26 30 34 CFSM 0.28 0.31 0.48 0.78 0.62 2.15 0.90 1.61 0.69 3.47 1.54 2.91 IN. 0.33 0.35 0.56 0.90 0.64 2.48 1.00 1.86 0.77 4.00 1.78 3.24 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2003, BY WATER YEAR (WY) MEAN 31.8 53.0 70.7 74.5 95.3 110 116 95.9 67.0 56.0 36.2 28.3 MAX 188 235 205 208	27 28 29 30	19 18 20 19	15 15 15 14	25 24 23 48	e20 e21 e21 e20	e45 e39 	80 70 107 87	37 36 36 35	42 42 42 41	30 28 27 27	49 49 46 43	31 30 33 80	289 108 78 62
MEAN 31.8 53.0 70.7 74.5 95.3 110 116 95.9 67.0 56.0 36.2 28.3 MAX 188 235 205 208 233 224 286 420 212 219 312 171 (WY) (1987) (1994) (1978) (1996) (1975) (1973) (1996) (1996) (1996) (1979) (1979) (2003) MIN 6.67 7.26 6.58 8.48 23.0 25.6 28.0 23.0 14.6 8.18 8.56 6.93 (WY) (2000) (2000) (2000) (1995) (1981) (1971) (1988) (1977) (1977) (1978) (1999) SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1971 - 2003 ANNUAL MEAN 75.6 77.4 69.4 HIGHEST ANNUAL MEAN 2,000 May 13 1,650	MEAN	16.5	18.3	28.3	45.8	36.3	126	52.8	94.6	40.5	204	90.4	171
	MAX	23	33	135	232	130	420	92	604	112	1,650	681	1,500
	MIN	15	14	12	20	19	35	35	34	27	26	30	34
	CFSM	0.28	0.31	0.48	0.78	0.62	2.15	0.90	1.61	0.69	3.47	1.54	2.91
MAX 188 235 205 208 233 224 286 420 212 219 312 171 (WY) (1987) (1994) (1978) (1996) (1975) (1973) (1996) (1996) (1979) (1979) (2003) MIN 6.67 7.26 6.58 8.48 23.0 25.6 28.0 23.0 14.6 8.18 8.56 6.93 (WY) (2000) (2000) (2000) (1977) (1995) (1981) (1971) (1988) (1977) (1977) (1988) (1999) SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1971 - 2003 ANNUAL MEAN 27,593 28,256 ANNUAL MEAN 121 1996 LOWEST ANNUAL MEAN 2,000 May 13 1,650 Jul 9 2,000 May 13, 2002 LOWEST DAILY MEAN 11 Sep 10 <	STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WATE	ER YEARS	1971 - 2003,	BY WATE	R YEAR (W	YY)			
ANNUAL TOTAL ANNUAL MEAN ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN HIGHEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM AXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 160 12 Dec 9 12 Dec 9 13.9 Dec 11, 1999 15.2 Dec 9 16.07 16.07 17.49 17.91 16.07 16.07 17.49 17.91 18.2 18.3 18.4 18.4 18.4 18.4 18.4 18.5 18.4 18.5 18.5 18.5 18.5 18.5 18.5 18.5 18.5	MAX	188	235	205	208	233	224	286	420	212	219	312	171
	(WY)	(1987)	(1994)	(1978)	(1996)	(1975)	(1973)	(1996)	(1996)	(1996)	(1979)	(1979)	(2003)
	MIN	6.67	7.26	6.58	8.48	23.0	25.6	28.0	23.0	14.6	8.18	8.56	6.93
ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN LOWEST DAILLY MEAN LOWEST DAILLY MEAN LOWEST DAILLY MEAN ANNUAL SEVEN-DAY MINIMUM 11 Sep 10 ANNUAL SEVEN-DAY MINIMUM 11 Sep 8 13 Dec 5 4.3 Nov 28, 1999 MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE 11.04 Sep 1 3,020 Sep 1 3,210 Apr 11, 2001 MAXIMUM PEAK STAGE 11.04 Sep 1 11.52 Nov 14, 1993 ANNUAL RUNOFF (CFSM) 1.29 1.32 1.18 ANNUAL RUNOFF (INCHES) 17.49 10 PERCENT EXCEEDS 160 130 128 50 PERCENT EXCEEDS 41 40 37	SUMMA	RY STATIS	STICS		FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	/EAR	WATER	YEARS 197	1 - 2003
	ANNUAI HIGHES' LOWEST HIGHES' LOWEST ANNUAI MAXIMU MAXIMU ANNUAI ANNUAI 10 PERC' 50 PERC'	L MEAN I ANNUAL I ANNUAL I ANNUAL I DAILY M I DAILY M L SEVEN-L JM PEAK I JM PEAK I L RUNOFF ENT EXCE	MEAN IEAN EAN DAY MINIM FLOW STAGE (CFSM) (INCHES) EDS EDS	IUM	2,000 11 11 11 17 160	.6 May Sep Sep 29 .49	10	28,25 7 1,65 1 3,02 1	66 677.4 50 Ju 22 Dec 33 Dec 20 Sep 1.04 Sep 1.32 7.91	1 9 2 9 2 5 3 1	2,0 3,2	21 25.4 000 Ma 3.9 De 4.3 No 210 Ap 11.52 No 1.18 16.07 28	1977 y 13, 2002 cc 11, 1999 v 28, 1999 or 11, 2001

e Estimated



MEAN

MAX (WY)

MIN

(WY)

(1987)

47.1

(1935)

1,685

(1994)

49.8

(1935)

1.978

03275000 WHITEWATER RIVER NEAR ALPINE, IN

(Former National stream-quality accounting network station)

LOCATION.--Lat 39°34'46", long 85°09'29", in SW¹₄NE¹₄ sec.14, T.13 N., R.12 E., Fayette County, Hydrologic Unit 05080003, (ALPINE, IN quadrangle), on right bank at Nulltown, 400 ft upstream from Wilson Creek, 0.4 mi upstream from bridge on County Road 480 South, 2.0 mi northeast of Alpine, 5.1 mi upstream from Bear Creek, and at mile 54.8.

DRAINAGE AREA.--522 mi².

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

REVISED RECORDS.--WSP 1143: 1943-44(M), 1947 (M). WSP 1335: 1929-30, 1932(M), 1938, 1946-47(m), 1949-50. WSP 1505: 1942(P). WSP 1908: 1937(M), 1944, 1949(M), drainage area. WDR IN-79-1: 1975 (P).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 750.19 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 9, 1928, nonrecording gage at site .5 mi downstream and same datum. Oct. 1, 1982 to June 30, 1993, at same site and datum. July 1, 1993 to Oct. 22, 1998 gage at site .5 mi downstream and at same datum.

DISCHARGE, CUBIC FEET PER SECOND

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

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES DAY OCT NOV DEC JAN **FEB** MAR APR MAY JUN JUL AUG SEP 3,040 e150 2,620 2,700 3.030 14,400 e140 1,290 3,260 5,170 1,660 1,880 1,380 1,640 1,260 1,280 1.830 2.160 32.7 2,990 1,150 5,410 1.610 Q 4.620 5.830 2,080 2,160 9,620 1,290 6,570 3,180 1,130 2,740 1,870 1,960 1,390 1,350 3,000 1,310 1,030 1.010 1,680 1,200 2.070 1,430 1,690 1.240 1,030 1.010 1.570 1,800 23 1,710 1,720 1,630 1,070 1,170 2,040 1,500 ---___ 1,330 ---5,339 16,980 15,791 20,133 TOTAL 4,457 10,046 11,075 39,971 13.043 28,224 46,918 40,848 MEAN 1.289 1.513 1,362 MAX 1,570 2.700 1,630 4,620 6,570 2,070 9,620 3,260 14,400 MIN 2.61 **CFSM** 0.28 0.34 0.62 1.05 0.76 2.47 0.83 1.01 2.90 1.24 0.32 0.38 0.72 1.21 0.79 2.85 0.93 2.01 3.34 1.43 2.91 IN.

(1963)

(1935)

2,522

1.009

2,665

(2002)

(1941)

(1996)

70.0

(1941)

3.763

(1998)

68.9

(1934)

2,609

(1979)

61.1

(1934)

1.777

(1979)

61.3

(1988)

2.342

(2003)

50.3

(1934)

1,362

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2003, BY WATER YEAR (WY)

(1950)

56.9

(1935)

2,639

(1937)

58.9

(1935)

4.409

(1991)

50.6

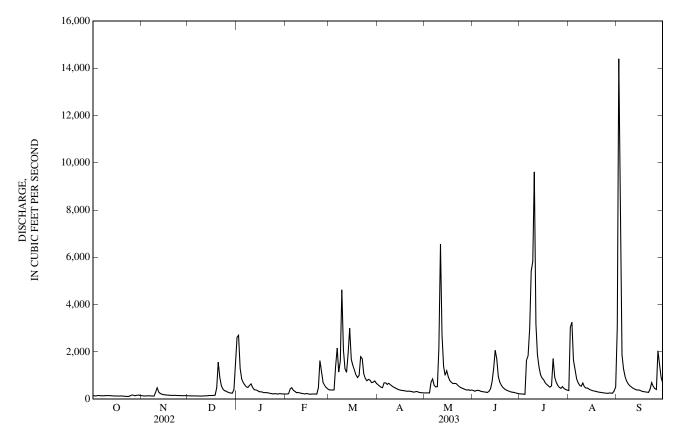
(1935)

2.531

03275000 WHITEWATER RIVER NEAR ALPINE, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALI	ENDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEARS	S 1929 - 2003
ANNUAL TOTAL	293,256		252,825			
ANNUAL MEAN	803		693		577	
HIGHEST ANNUAL MEAN					1,066	2002
LOWEST ANNUAL MEAN					117	1941
HIGHEST DAILY MEAN	14,300	May 13	14,400	Sep 2	26,300	Mar 5, 1963
LOWEST DAILY MEAN	114	Sep 12	118	Oct 23	30	Aug 6, 1934
ANNUAL SEVEN-DAY MINIMUM	116	Sep 8	126	Oct 18	33	Aug 2, 1934
MAXIMUM PEAK FLOW		-	17,700	Sep 2	37,100	Jan 14, 1937
MAXIMUM PEAK STAGE			18.63	Sep 2	19.70	Dec 31, 1990
ANNUAL RUNOFF (CFSM)	1.54		1.33	_	1.11	
ANNUAL RUNOFF (INCHES)	20.90		18.02		15.02	
10 PERCENT EXCEEDS	1,620		1,460		1,160	
50 PERCENT EXCEEDS	389		368		280	
90 PERCENT EXCEEDS	134		145		88	

e Estimated



03275600 EAST FORK WHITEWATER RIVER AT ABINGTON, IN

LOCATION.--Lat 39°43′59", long 84°57′35", in $NE^{1}_{4}SW^{1}_{4}$ sec. 2, T.12 N., R.2 W., Wayne County, Hydrologic Unit 05080003, (LIBERTY, IN quadrangle), 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.

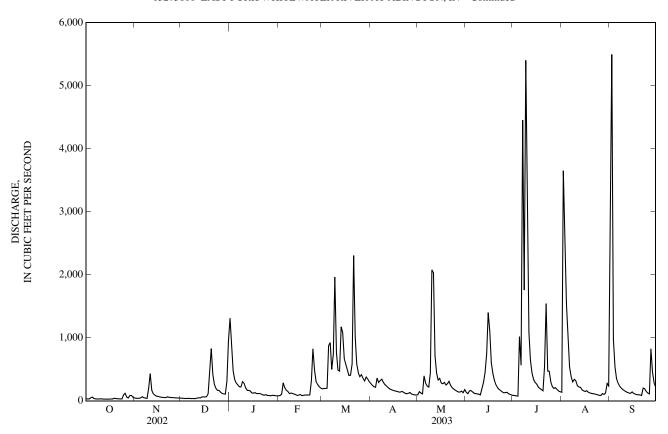
REVISED RECORDS.--WSP 2108: Drainage area. WDR IN-90-1: 1966(M), 1967-75(P), 1976-77(M), 1978-79(P), 1982(P), 1987(P), 1989(P).

GAGE.--Water-stage recorder. Datum of gage is 791.00 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 2, 1991 at site 250 ft downstream at same datum.

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

KEWAKI	XSRecord	is fair except	Tor estimate	u dany disci	-	-	ET DED GE	COND				
					YEAR OCT	CUBIC FEI OBER 2002 LY MEAN V	TO SEPTE		3			
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	32 30 30 48 58	46 41 40 39 46	41 40 38 37 40	1,310 871 474 339 281	80 84 105 285 209	188 197 195 201 871	275 244 223 215 362	95 145 123 110 396	136 113 160 163 141	87 84 78 75 1,020	136 3,650 2,390 1,540 1,060	2,800 5,500 972 536 354
6 7 8 9 10	37 32 30 30 31	64 48 43 40 201	39 36 37 35 36	252 224 220 303 278	167 148 115 123 117	924 499 736 1,960 767	291 322 343 293 257	279 236 218 443 2,080	119 115 111 106 93	566 4,450 1,760 5,400 2,730	537 383 302 340 318	278 234 201 181 162
11 12 13 14 15	30 28 28 26 27	430 166 113 89 74	44 48 47 61 63	207 166 166 155 126	106 99 85 92 99	489 472 1,170 1,080 667	234 212 191 177 167	2,030 719 439 331 356	193 297 e450 e750 e1,400	1,090 644 440 340 291	239 219 213 174 158	145 133 123 119 141
16 17 18 19 20	27 29 29 41 37	70 62 57 54 52	61 65 111 474 829	122 129 116 116 115	82 88 93 93	584 493 403 406 584	159 154 147 139 139	283 271 292 249 273	e1,100 e600 e430 324 251	266 218 195 179 159	148 160 136 125 119	116 106 98 97 94
21 22 23 24 25	32 32 30 30 97	51 63 57 53 51	416 264 199 167 165	107 93 88 98 83	94 318 826 490 303	2,310 1,010 583 443 382	150 133 118 112 119	311 244 208 185 168	207 180 162 142 128	539 1,540 473 470 298	113 109 102 94 88	85 201 192 148 123
26 27 28 29 30 31	120 58 46 86 84 55	50 47 45 45 45	137 116 109 106 312 947	85 79 87 86 81 78	259 223 203 	415 357 314 377 347 301	130 108 100 94 92	153 139 140 153 128 176	131 136 112 101 91	226 197 208 179 156 143	85 114 102 124 275 235	111 825 453 284 216
TOTAL MEAN MAX MIN CFSM IN.	1,330 42.9 120 26 0.21 0.25	2,282 76.1 430 39 0.38 0.42	5,120 165 947 35 0.83 0.95	6,935 224 1,310 78 1.12 1.29	5,077 181 826 80 0.91 0.94	19,725 636 2,310 188 3.18 3.67	5,700 190 362 92 0.95 1.06	11,373 367 2,080 95 1.83 2.12	8,442 281 1,400 91 1.41 1.57	24,501 790 5,400 75 3.95 4.56	13,788 445 3,650 85 2.22 2.56	15,028 501 5,500 85 2.50 2.80
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1966 - 2003,	, BY WATE	ER YEAR (V	WY)			
MEAN MAX (WY) MIN (WY)	85.8 615 (1987) 18.8 (2000)	163 732 (1994) 25.5 (2000)	274 929 (1991) 26.5 (1977)	268 708 (1969) 21.3 (1977)	310 901 (1975) 83.8 (1992)	371 884 (1978) 111 (1992)	397 1,052 (2002) 88.7 (1976)	348 1,049 (1968) 55.9 (1976)	24.6	175 790 (2003) 22.9 (1988)	112 773 (1979) 18.6 (1988)	68.3 501 (2003) 12.9 (1999)
SUMMA	RY STATIS	STICS		FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER	YEAR	WATER	YEARS 196	66 - 2003
ANNUAI HIGHEST LOWEST HIGHEST LOWEST ANNUAI MAXIMU MAXIMU ANNUAI	F ANNUAL F ANNUAL F DAILY M F DAILY M L SEVEN-D JM PEAK I JM PEAK S L RUNOFF	MEAN IEAN EAN DAY MINIM FLOW STAGE (CFSM)	IUM		2 May 4 Sep 5 Sep	14	5,5 11,10	27 00 Se 26 O 28 O 00 Se 13.96 Se 1.63	ep 2 ct 14 ct 12 ep 2		10 Se 11 Se 000 Ju 16.18 Ju 1.16	1979 1977 an 22, 1999 ep 17, 1999 ep 22, 1999 al 20, 1969 al 20, 1969
10 PERCI 50 PERCI	L RUNOFF ENT EXCE ENT EXCE ENT EXCE	EDS EDS		606 127 28	7		6:	22.19 53 50 42			15.70 .55 15 33	

03275600 EAST FORK WHITEWATER RIVER AT ABINGTON, IN—Continued



03276000 EAST FORK WHITEWATER RIVER AT BROOKVILLE, IN

LOCATION.--Lat 39°26'02", long 85°00'12", in NE 4 NE 1/4 NE 1/4 sec. 20, T.9 N., R.2 W., Franklin County, Hydrologic Unit 05080003, (BROOKVILLE, IN quadrangle), 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 September 1981 (discharge). October 1981 to September 2001 (discharge provided by U.S. Army Corps of Engineers). October 2001 to current year (stage only).

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 National Geodetic Vertical Datum of 1929. Prior to May 22, 1954, nonrecording gage site 100 ft downstream at datum 2.00 ft higher. May 22, 1954 to Aug. 20, 1965, water-stage recorder at site 165 ft downstream at datum 2.00 ft higher. Aug. 21, 1965 to Sept. 30, 1981, water-stage recorder at same site and datum. Data Collection Platform with water temperature probe since Nov. 5, 1986.

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

COOPERATION.--Records of daily discharge provided by U.S. Army Corps of Engineers October 1981 to September 2001.

EXTREMES FOR PERIOD OF RECORD.--(October 2001 to current year) maximum gage height, 8.21 ft, May 19, 2002; minimum gage height, 1.87 ft, Dec. 3, 2002. (March 1954 to September 1981) maximum discharge, 36,100 ft³/s, Jan. 21, 1959; maximum gage height, 17.35 ft, May 24, 1968; minimum discharge, no flow, Nov. 27, 1991, July 14-16, 21-26, Aug. 4-27, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 8.14 ft, July 12; minimum gage height, 1.87 ft, Dec. 3.

GAGE HEIGHT, FEET WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	2.69 2.69 2.69 2.69 2.69	3.77 3.77 3.77 3.77 3.77	1.93 1.92 2.68 1.94 1.95	3.38 4.41 5.50 5.48 5.48	3.11 3.11 3.13 3.10 3.10	4.45 4.45 4.44 4.45 4.45	3.67 3.67 3.68 3.36	2.92 2.94 2.95 2.97 2.94	3.03 3.31 3.08 3.04 3.33	3.08 3.08 3.08 3.12 3.79	3.79 3.78 3.79 5.62 7.22	3.61 3.62 3.62 5.80 7.30
6 7 8 9 10	2.69 2.69 2.69 2.69 2.69	5.74 5.74 3.70 5.40	3.35 3.35 3.35 3.35 3.35	5.47 4.86 4.32 4.32 3.65	3.10 3.37 3.37 3.37 3.37	4.45 4.45 4.46 3.70 4.52	3.36 3.37 3.37 3.35 3.19	2.93 2.93 2.93 2.93 2.94	3.30 3.07 3.03 3.68 3.66	4.47 5.49 4.50 4.46 2.61	6.49 3.72 3.72 3.26 3.26	6.54 4.54 4.54 3.84 3.29
11 12 13 14 15	2.69 2.69 2.69 2.69 2.69	5.38 5.56 5.55 5.54 5.54	3.35 3.35 3.36 3.36 3.36	3.65 3.21 3.20 3.20 3.20	3.36 3.36 3.36 3.36 3.36	4.52 4.52 4.52 4.52 4.52	2.85 2.85 2.85 2.84 2.84	2.94 2.93 3.97 3.93 4.60	3.68 3.67 3.68 3.68 4.48	6.41 8.12 8.09 8.02 8.00	3.16 3.16 3.17 3.17 3.75	3.29 3.29 2.85 2.85 2.85
16 17 18 19 20	2.69 2.69 2.69 2.69 2.69	4.47 3.89 1.97 1.95 1.93	3.35 3.35 3.35 3.42 3.37	3.19 3.20 3.20 3.20 3.20	3.36 3.36 3.36 3.36 3.37	4.52 5.12 5.12 5.12 4.45	2.85 2.85 2.86 2.86 2.88	5.58 5.56 5.55 5.55 4.52	4.47 5.46 6.41 6.75 6.73	4.52 3.33 3.33 3.60 3.60	3.75 3.75 3.02 3.02 3.02	2.85 2.85 2.85 2.85 2.85
21 22 23 24 25	2.69 3.39 3.37 3.12 3.11	1.95 1.94 1.94 1.94 1.93	3.36 3.66 4.41 4.41 4.41	3.21 3.21 3.21 3.21 3.17	3.37 3.41 3.38 3.37 3.37	4.46 4.65 4.65 4.65 4.46	2.87 2.88 2.88 2.89 2.88	4.51 4.51 4.51 3.80 3.74	6.69 6.36 4.94 3.58 3.21	3.62 3.85 3.79 3.78 4.55	2.87 1.97 1.97 2.56 2.56	2.85 3.63 3.63 3.10 2.80
26 27 28 29 30 31	3.09 3.39 3.28 3.13 3.79 3.78	1.93 1.93 1.94 1.94 1.93	4.41 4.41 4.41 3.64 3.66 3.66	3.17 3.17 3.17 3.12 3.11 3.11	3.37 3.68 4.45 	4.46 4.45 4.45 4.45 4.05 3.68	2.89 2.89 2.90 2.90 2.91	3.24 3.25 3.08 3.04 3.04 3.03	3.21 3.10 3.10 3.08 3.08	3.86 4.25 4.26 4.25 3.09 3.79	2.57 2.57 2.57 3.08 3.61 3.61	2.82 2.81 3.94 4.28 4.28
MEAN MAX MIN	2.90 3.79 2.69	 	3.39 4.41 1.92	3.68 5.50 3.11	3.36 4.45 3.10	4.49 5.12 3.68	3.07 3.68 2.84	3.69 5.58 2.92	4.06 6.75 3.03	4.44 8.12 2.61	3.47 7.22 1.97	3.67 7.30 2.80

03276000 EAST FORK WHITEWATER RIVER AT BROOKVILLE, IN—Continued

WATER-QUALITY RECORDS

INSTRUMENTATION.--Temperature recorder.

PERIOD OF RECORD .--

WATER TEMPERATURE.--September 1987 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 27.8°C, July 7, 1999; minimum, 1.1°C, Jan. 31, 1996.

EXTREMES FOR CURRENT YEAR.-- WATER TEMPERATURE: Maximum, 23.9°C, July 10 - 11, minimum, 1.4°C, Feb. 15 - 22.

TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	(OCTOBER	₹	N	OVEMBE	ER	D	ECEMBE	ER	J	ANUARY	<i>T</i>
1 2 3 4 5	18.7 19.1 19.1 18.7 20.7	17.9 18.3 18.3 16.4 18.3	18.4 18.6 18.6 17.9 19.4	13.7 13.3 13.2 13.1 12.6	13.3 13.2 13.1 12.6 12.2	13.4 13.3 13.2 12.9 12.5	8.6 9.6 7.7 6.7 7.7	5.6 5.6 4.7 4.7 4.7	6.4 7.1 6.2 6.2 5.8	3.9 3.9 3.9 4.0 4.0	3.9 3.9 3.9 3.9 4.0	3.9 3.9 3.9 4.0 4.0
6 7 8 9	19.1 20.7 19.2 19.2 19.2	17.5 17.5 18.4 18.4 18.8	18.5 19.4 18.8 18.9 19.0	12.5 11.4 11.4 11.4	11.4 11.4 11.4 11.4	12.4 11.4 11.4 11.4	6.7 6.7 6.7 5.7	5.7 6.7 5.7 5.7 5.7	6.3 6.7 6.1 5.7 5.7	4.0 4.0 4.0 4.0 4.0	4.0 3.0 3.0 3.0 3.0	4.0 3.9 3.0 4.0 3.4
11 12 13 14 15	20.0 19.2 20.0 19.2 18.8	18.8 18.8 18.8 18.0 18.0	19.4 18.8 19.4 18.8 18.4	11.5 11.5 11.5 11.5 11.5	11.4 11.5 11.5 11.5 11.5	11.4 11.5 11.5 11.5 11.5	5.7 5.7 5.8 5.8 5.8	5.7 5.7 5.7 5.8 4.8	5.7 5.7 5.7 5.8 5.4	3.0 3.0 3.0 3.1 3.1	3.0 3.0 3.0 3.0 3.1	3.0 3.0 3.0 3.0 3.1
16 17 18 19 20	18.4 18.4 18.1 17.3 17.3	18.4 16.8 16.9 16.9 17.3	18.4 17.9 17.5 17.1 17.3	11.5 10.5 10.5 11.5 11.5	10.5 10.5 8.5 7.5 7.5	11.0 10.5 9.9 9.4 8.9	5.8 4.8 4.8 4.8 4.8	4.8 4.8 4.8 4.8 4.8	5.0 4.8 4.8 4.8 4.8	3.1 3.1 3.1 3.1 3.1	2.1 2.1 3.1 3.1 3.1	2.9 2.7 3.1 3.1 3.1
21 22 23 24 25	17.3 17.3 17.2 16.8 16.4	16.9 16.9 16.8 16.4 15.9	17.1 16.9 17.0 16.7 16.3	10.5 8.6 8.6 10.6 8.6	7.5 6.5 6.6 6.6 6.6	8.6 7.6 7.8 8.1 7.6	4.8 4.8 4.8 4.9 4.9	4.8 4.8 4.8 4.8 4.9	4.8 4.8 4.8 4.8 4.9	3.1 2.1 2.1 2.1 2.2	2.1 2.1 2.1 2.1 2.1	2.5 2.1 2.1 2.1 2.1
26 27 28 29 30 31	15.9 15.8 15.7 15.6 14.7 13.5	15.8 15.7 15.6 14.7 13.5 13.4	15.8 15.7 15.6 14.9 14.0 13.5	7.6 8.6 7.6 9.6 7.6	6.6 6.6 6.6 6.6	6.8 7.2 6.9 7.6 7.2	4.9 4.9 3.9 3.9 3.9 3.9	4.9 3.9 3.9 3.9 3.9 3.9	4.9 4.5 3.9 3.9 3.9 3.9	2.2 2.2 2.2 2.2 2.2 2.2	2.2 2.2 2.2 2.2 2.2 2.2 2.2	2.2 2.2 2.2 2.2 2.2 2.2 2.2
MONTH	20.7	13.4	17.5				9.6	3.9	5.3	4.0	2.1	3.0

03276000 EAST FORK WHITEWATER RIVER AT BROOKVILLE, IN—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1 2 3 4 5	2.2 2.2 2.2 2.2 2.2 2.3	2.2 2.2 2.2 2.2 2.2 2.2 2.2	2.2 2.2 2.2 2.2 2.2 2.3	2.5 2.6 2.6 2.6 2.6	2.5 2.5 2.6 2.6 2.6	2.5 2.6 2.6 2.6 2.6	6.9 7.0 7.0 7.0 8.0	APRIL 4.9 5.9 6.0 6.0 7.0	5.8 6.0 6.5 6.4 7.4	11.1 12.1 12.1 11.0 11.0	MAY 10.1 11.1 11.0 11.0 10.0	10.6 11.2 11.1 11.0 10.9
6 7 8 9 10	2.3 2.3 2.3 2.3 2.3	2.3 2.3 2.3 2.3 2.3	2.3 2.3 2.3 2.3 2.3	2.6 2.6 2.6 2.7	2.6 2.6 2.6 2.6 2.6	2.6 2.6 2.6 2.6 2.7	9.0 9.0 9.0 9.0 9.1	8.0 8.0 9.0 9.0 9.0	8.3 8.8 9.0 9.0 9.0	12.0 11.0 12.0 11.0 12.0	11.0 11.0 11.0 11.0 11.0	11.2 11.0 11.1 11.0 11.1
11 12 13 14 15	2.3 2.3 2.3 2.4 2.4	2.3 2.3 2.3 2.3 1.4	2.3 2.3 2.3 2.3 2.1	2.7 2.7 2.7 2.7 2.7	2.7 2.7 2.7 2.7 2.7	2.7 2.7 2.7 2.7 2.7	9.1 9.1 10.1 9.1 9.1	9.1 9.1 9.1 9.1 9.1	9.1 9.1 9.2 9.1 9.1	11.0 13.0 13.0 13.0 12.0	11.0 11.0 11.0 11.0 9.0	11.0 11.7 12.3 11.7 10.1
16 17 18 19 20	1.4 1.4 1.4 1.4 2.4	1.4 1.4 1.4 1.4	1.4 1.4 1.4 1.7	3.7 3.7 3.8 3.8 3.8	2.7 2.7 3.7 3.8 3.8	2.7 3.4 3.8 3.8 3.8	9.1 10.1 10.1 10.1 10.1	9.1 9.1 9.1 9.1 9.1	9.1 9.5 9.3 9.5 9.2	9.0 10.0 10.0 10.0 10.0	9.0 9.0 9.0 9.0 9.0	9.0 9.1 9.4 9.9 9.5
21 22 23 24 25	1.4 2.5 2.5 2.5 2.5	1.4 1.4 2.5 1.5 1.5	1.4 2.0 2.5 2.1 2.0	3.8 4.8 4.8 4.8 4.8	3.8 3.8 4.8 3.8 3.8	3.8 3.8 4.8 4.5 4.8	10.1 11.1 11.1 10.1 12.1	9.1 10.1 10.1 9.1 9.1	9.5 10.2 10.7 10.0 10.5	10.0 10.0 10.0 15.0 15.0	9.0 9.0 10.0 10.0 14.0	9.4 9.5 10.0 13.1 14.6
26 27 28 29 30 31	2.5 2.5 2.5 	1.5 1.5 2.5 	1.5 1.9 2.5 	5.9 4.9 4.9 5.9 5.9	4.8 4.9 4.9 4.9 4.9 5.9	5.1 4.9 4.9 5.0 5.8 5.9	13.1 12.1 11.1 11.1 11.1	11.1 10.1 10.1 10.1 10.1	12.2 11.3 10.6 10.8 10.8	15.0 15.0 15.0 16.0 15.0 18.0	15.0 14.0 14.0 15.0 14.0 15.0	15.0 14.9 14.8 15.3 14.6 16.0
MONTH	2.5	1.4	2.0	5.9	2.5	3.6	13.1	4.9	9.2	18.0	9.0	11.6
		JUNE			JULY			AUGUST			ЕРТЕМВЕ	ER
1 2 3 4 5	17.0 15.0 16.0 16.0 16.0	JUNE 15.0 15.0 15.0 15.0 15.0	15.4 15.0 15.4 15.2 15.4	18.9 18.9 18.9 19.9 19.9	JULY 18.9 18.9 18.9 18.9 18.9	18.9 18.9 18.9 19.0 18.9	18.8 18.8 18.8 19.8 20.8	AUGUST 18.8 18.8 18.8 18.8 19.8	18.8 18.8 18.8 19.4 20.5		20.8 20.8 20.8 20.8 20.8 21.8	20.8 20.8 20.8 20.8 21.4 22.4
1 2 3 4	15.0 16.0 16.0 16.0 16.0 16.0 15.0 16.0	15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0	15.0 15.4 15.2	18.9 18.9 19.9 19.9 18.9 14.9 15.9	18.9 18.9 18.9 18.9 18.9	18.9 18.9 19.0 18.9	18.8 18.8 18.8 19.8 20.8	18.8 18.8 18.8 19.8	18.8 18.8 18.8 19.4 20.5	20.8	20.8 20.8 20.8 20.8 21.8	20.8 20.8 20.8 21.4 22.4
1 2 3 4 5 6 7 8 9	15.0 16.0 16.0 16.0 16.0 16.0 15.0 16.0	15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0	15.0 15.4 15.2 15.4 15.1 15.5 15.0 15.3	18.9 18.9 19.9 19.9 18.9 14.9 15.9	18.9 18.9 18.9 18.9 18.9	18.9 18.9 19.0 18.9	18.8 18.8 18.8 19.8 20.8	18.8 18.8 18.8 19.8	18.8 18.8 18.8 19.4 20.5	20.8 20.8 20.8 21.8 22.8	20.8 20.8 20.8 20.8 21.8	20.8 20.8 20.8 21.4 22.4
1 2 3 4 5 6 7 8 9 10	15.0 16.0 16.0 16.0 16.0 15.0 16.0 15.9 15.9 15.9 15.9	15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0	15.0 15.4 15.2 15.4 15.1 15.5 15.0 15.3 15.1 15.7 15.7 15.9 15.9	18.9 18.9 19.9 19.9 18.9 14.9 15.9 23.9 23.9 17.9 18.9 18.9	18.9 18.9 18.9 18.9 18.9 12.9 13.9 14.9 14.9 15.9 16.9 17.9 18.9	18.9 18.9 19.0 18.9 16.1 14.6 15.3 15.0 19.6 19.3 17.5 18.4 18.9 19.4 18.9 17.1 16.8 20.4 22.0	18.8 18.8 19.8 20.8 21.8 20.8 19.8 19.8 19.8 19.8	18.8 18.8 18.8 19.8 20.8 19.8 19.8 19.8 19.8 19.8 19.8	18.8 18.8 19.4 20.5 20.8 20.4 19.8 19.8 19.8 19.8 19.8	20.8 20.8 20.8 21.8 22.8 22.8 21.8 21.8 21.8 21.8 21	20.8 20.8 20.8 20.8 21.8 21.8 21.8 21.8 21.8 21.8 20.8 20.8	20.8 20.8 20.8 21.4 22.4 22.8 22.1 21.8 21.8 21.8 21.8 21.8 21.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	15.0 16.0 16.0 16.0 16.0 15.0 16.0 15.9 15.9 15.9 15.9 15.9 10.9 10.9 11.9 12.9	15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0	15.0 15.4 15.2 15.4 15.1 15.5 15.0 15.3 15.1 15.7 15.5 15.9 12.3 9.9 10.5 11.5 11.5	18.9 18.9 19.9 19.9 18.9 14.9 15.9 23.9 23.9 17.9 18.9 19.9 17.9 26.8 22.8	18.9 18.9 18.9 18.9 12.9 13.9 14.9 14.9 15.9 16.9 17.9 18.9 17.9 16.8 16.8	18.9 18.9 19.0 18.9 16.1 14.6 15.3 15.0 19.6 19.3 17.5 18.4 18.9 19.4 18.9 17.1 16.8 20.4	18.8 18.8 19.8 20.8 21.8 20.8 19.8 19.8 19.8 19.8 19.8 20.8 20.8 20.8 20.8	18.8 18.8 18.8 19.8 20.8 19.8 19.8 19.8 19.8 19.8 19.8 20.8 20.8 19.8 19.8	18.8 18.8 19.4 20.5 20.8 20.4 19.8 19.8 19.8 19.8 20.4 20.8 20.4 20.8	20.8 20.8 20.8 21.8 22.8 22.8 21.8 21.8 21.8 21.8 21	20.8 20.8 20.8 20.8 21.8 21.8 21.8 21.8 21.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20	20.8 20.8 20.8 21.4 22.4 22.8 22.1 21.8 21.8 21.8 21.8 21.1 20.8 20.8 20.9 21.0 20.9 20.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	15.0 16.0 16.0 16.0 16.0 15.0 16.0 15.9 15.9 15.9 15.9 15.9 10.9 10.9 11.9 12.9 13.9 13.9 14.9 18.9	15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0	15.0 15.4 15.2 15.4 15.1 15.5 15.0 15.3 15.1 15.7 15.5 15.9 12.3 9.9 10.5 11.5 12.2 12.9	18.9 18.9 19.9 19.9 19.9 14.9 15.9 23.9 23.9 17.9 18.9 19.9 19.9 17.9 16.8 22.8 22.8 22.8 22.8	18.9 18.9 18.9 18.9 18.9 18.9 13.9 13.9 14.9 14.9 15.9 16.8 16.8 16.8 21.8 22.8 22.8 21.8	18.9 18.9 19.0 18.9 16.1 14.6 15.3 15.0 19.6 19.3 17.5 18.4 18.9 19.4 18.9 17.1 16.8 20.4 22.0 22.3 22.8 22.8 22.6	18.8 18.8 19.8 20.8 21.8 20.8 19.8 19.8 19.8 19.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8	18.8 18.8 18.8 19.8 20.8 19.8 19.8 19.8 19.8 19.8 19.8 19.8 19.8 19.8 19.8 19.8 19.8 19.8 19.8 19.8 19.8	18.8 18.8 19.4 20.5 20.8 20.4 19.8 19.8 19.8 19.8 20.4 20.8 20.4 20.0 20.2 20.0 19.3 17.3 17.0	20.8 20.8 20.8 21.8 22.8 22.8 21.8 21.8 21.8 21.8 21	20.8 20.8 20.8 20.8 21.8 21.8 21.8 21.8 21.8 21.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20	20.8 20.8 20.8 21.4 22.4 22.8 22.1 21.8 21.8 21.8 21.8 20.8 20.9 21.0 20.9 20.9 20.9 21.3 21.8 21.8

03276500 WHITEWATER RIVER AT BROOKVILLE, IN

(Former National stream-quality accounting network station)

LOCATION.--Lat 39°24′24″, long 85°00′46″, in NE /4NW /4 sec.32, T.9 N., R.2 W., Franklin County, Hydrologic Unit 05080003, (BROOKVILLE, IN quadrangle), 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 National Geodetic Vertical Datum of 1929. 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.

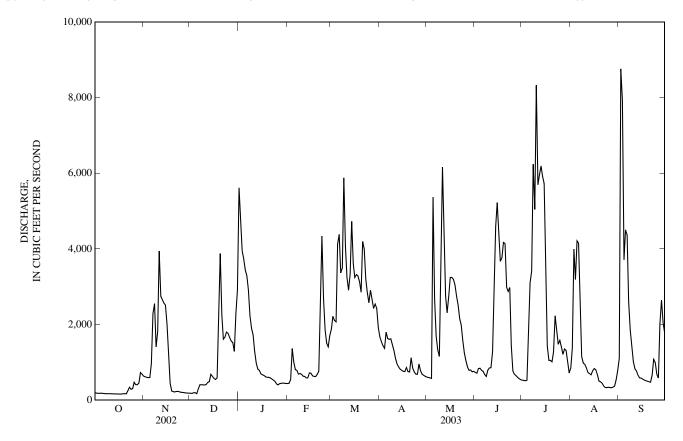
REMARKS.--Records fair. Flow partially regulated by Brookville Lake since January 1974.

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).

					YEAR OCT		ET PER SEC 2 TO SEPTE / ALUES		3			
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	196	636	183	5,620	440	1,880	1,670	610	735	528	848	1,100
2	185	617	178	4,730	445	2,220	1,550	600	712	523	1,380	8,760
3	181	605	197	3,950	543	2,110	1,440	591	835	512	3,990	7,930
4	182	596	198	3,740	1,370	2,070	1,370	572	845	526	3,190	3,720
5	186	600	171	3,440	1,010	4,130	1,800	5,370	788	2,040	4,210	4,500
6	179	962	295	3,290	807	4,380	1,630	2,640	763	3,100	4,150	4,370
7	174	2,290	407	2,910	785	3,360	1,610	1,690	676	3,420	2,360	2,610
8	172	2,550	409	2,220	690	3,490	1,620	1,330	627	6,240	1,150	1,850
9	171	1,410	405	1,900	702	5,880	1,460	1,150	795	5,040	982	1,470
10	170	1,810	402	1,720	685	4,070	1,310	2,780	852	8,330	945	1,020
11	170	3,940	413	1,300	633	3,250	1,100	6,160	858	5,700	857	826
12	168	2,750	466	982	628	2,910	955	4,190	1,280	5,950	731	773
13	167	2,660	488	820	587	3,340	878	2,750	2,780	6,190	701	656
14	165	2,570	685	788	590	4,730	821	2,310	4,590	5,920	670	587
15	165	2,520	632	695	721	3,610	788	2,740	5,220	5,730	774	583
16	165	2,000	577	670	709	3,240	761	3,240	4,420	3,780	836	557
17	160	1,110	547	651	643	3,320	758	3,250	3,670	1,440	804	533
18	161	443	588	617	628	3,290	862	3,190	3,770	1,050	676	514
19	171	238	1,820	605	623	3,140	755	3,050	4,170	1,050	506	502
20	170	226	3,880	605	682	2,860	747	2,750	4,140	1,010	486	486
21	168	218	2,250	587	765	4,200	1,120	2,520	2,990	1,270	451	476
22	248	229	1,610	559	2,990	4,000	846	2,160	2,880	2,230	377	665
23	342	232	1,660	529	4,330	3,210	747	1,990	2,980	1,850	333	1,080
24	288	219	1,800	496	2,690	2,840	687	1,580	1,450	1,480	331	992
25	303	209	1,770	429	1,860	2,580	684	1,250	773	1,580	342	689
26 27 28 29 30 31	473 407 410 451 730 689	204 198 192 189 187	1,660 1,570 1,520 1,290 2,300 2,910	404 437 447 453 448 441	1,510 1,410 1,710 	2,910 2,670 2,420 2,540 2,430 1,920	958 778 688 656 633	1,040 878 791 798 749 760	685 650 605 567 541	1,410 1,210 1,350 1,320 1,030 717	334 327 344 369 541 781	585 2,020 2,650 2,040 1,780
TOTAL	7,967	32,610	33,281	46,483	31,186	99,000	31,682	65,479	56,647	83,526	34,776	56,324
MEAN	257	1,087	1,074	1,499	1,114	3,194	1,056	2,112	1,888	2,694	1,122	1,877
MAX	730	3,940	3,880	5,620	4,330	5,880	1,800	6,160	5,220	8,330	4,210	8,760
MIN	160	187	171	404	440	1,880	633	572	541	512	327	476
CFSM	0.21	0.89	0.88	1.23	0.91	2.61	0.86	1.73	1.54	2.20	0.92	1.53
IN.	0.24	0.99	1.01	1.41	0.95	3.01	0.96	1.99	1.72	2.54	1.06	1.71
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1916 - 2003	, BY WATE	R YEAR (W	YY)			
MEAN	500	922	1,314	1,924	1,986	2,257	2,179	1,794	1,267	790	504	423
MAX	2,796	4,160	5,468	9,401	6,290	5,909	5,146	8,618	5,273	3,390	4,271	4,239
(WY)	(1927)	(1994)	(1991)	(1937)	(1950)	(1963)	(2002)	(1996)	(1998)	(1958)	(1979)	(1926)
MIN	95.5	98.1	95.1	102	122	294	275	186	161	138	102	85.7
(WY)	(1935)	(1935)	(1935)	(1977)	(1935)	(1941)	(1941)	(1941)	(1934)	(1934)	(1930)	(1999)

03276500 WHITEWATER RIVER AT BROOKVILLE, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	ENDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEARS	3 1916 - 2003
ANNUAL TOTAL	663,264		578,961			
ANNUAL MEAN	1,817		1,586		1,318	
HIGHEST ANNUAL MEAN					2,398	1996
LOWEST ANNUAL MEAN					271	1941
HIGHEST DAILY MEAN	20,300	May 13	8,760	Sep 2	55,000	Jan 21, 1959
LOWEST DAILY MEAN	160	Oct 17	160	Oct 17	60	Jul 27, 1934
ANNUAL SEVEN-DAY MINIMUM	164	Oct 12	164	Oct 12	66	Sep 25, 1941
MAXIMUM PEAK FLOW			12,200	Sep 3	81,800	Jan 21, 1959
MAXIMUM PEAK STAGE			10.33	Sep 3	27.78	Jan 21, 1959
ANNUAL RUNOFF (CFSM)	1.48		1.30	•	1.08	
ANNUAL RUNOFF (INCHES)	20.16		17.60		14.63	
10 PERCENT EXCEEDS	4,510		3,820		2,910	
50 PERCENT EXCEEDS	1,020		852		640	
90 PERCENT EXCEEDS	182		231		168	



INDIAN-KENTUCK CREEK BASIN

03291780 INDIAN-KENTUCK CREEK NEAR CANAAN, IN

LOCATION.--Lat 38°52'41", long 85°15'26", in SW\(^1_4\)NW\(^1_4\) sec.13, T.5 N., R.11 E., Jefferson County, Hydrologic Unit 05140101, (REXVILLE, IN quadrangle), 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 National Geodetic Vertical Datum of 1929, from topographic map.

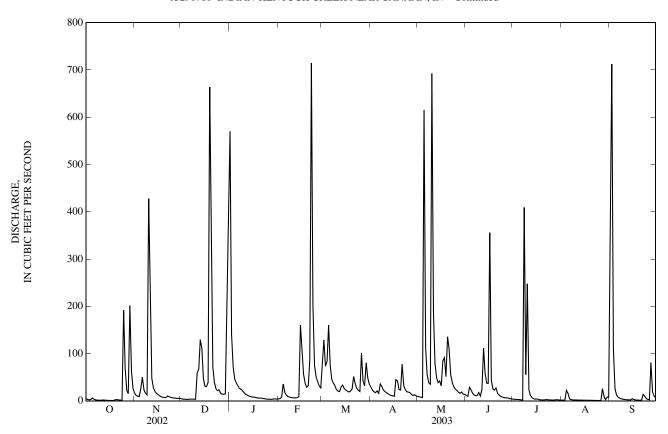
REMARKS.--Records fair except for estimated daily discharges and those below 1 ft³/s, which are poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DATE	
2 2 99 11	
The color of th	
12	
17	
1.6	
27	
MEAN 20.5 33.5 70.5 36.1 63.8 47.3 22.6 88.0 32.4 26.3 4.08 45.0 MAX 201 428 664 570 715 160 77 692 356 409 26 712 MIN 0.67 5.0 3.0 3.0 4.1 19 9.8 7.0 4.0 1.5 0.66 1.3 CFSM 0.75 1.22 2.56 1.31 2.32 1.72 0.82 3.20 1.18 0.96 0.15 1.64 IN. 0.86 1.36 2.96 1.51 2.42 1.98 0.92 3.69 1.31 1.10 0.17 1.83 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2003, BY WATER YEAR (WY) MEAN 12.8 32.7 53.1 50.5 58.0 66.8 62.1 52.2 30.6 15.8 13.7 12.0 MAX 104 137 173 169	
MEAN 12.8 32.7 53.1 50.5 58.0 66.8 62.1 52.2 30.6 15.8 13.7 12.0 MAX 104 137 173 169 136 134 216 198 152 60.5 78.9 81.9 (WY) (2002) (1980) (1991) (1982) (1990) (1975) (1996) (1996) (1996) (2000) (1995) (2001) MIN 0.000 0.000 3.95 0.60 5.24 11.7 5.68 3.82 0.44 0.12 0.000 0.000 (WY) (1988) (2000) (1977) (1977) (1992) (1983) (2001) (1992) (1988) (1975) (1999) (1987) SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1970 - 2003 ANNUAL MEAN 19,443.06 14,867.84 ANNUAL MEAN 17,2 1996	
MAX 104 137 173 169 136 134 216 198 152 60.5 78.9 81.9 (WY) (2002) (1980) (1991) (1982) (1990) (1975) (1996) (1996) (1996) (2000) (1995) (2001) MIN 0.000 0.000 3.95 0.60 5.24 11.7 5.68 3.82 0.44 0.12 0.000 0.000 (WY) (1988) (2000) (1977) (1977) (1992) (1983) (2001) (1992) (1988) (1975) (1999) (1987) SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1970 - 2003 ANNUAL MEAN 19,443.06 14,867.84 ANNUAL MEAN 19,443.06 14,867.84 ANNUAL MEAN 1,210 May 8 715 Feb 22 2,370 Apr 29, 1996 <td c<="" td=""></td>	
ANNUAL TOTAL ANNUAL MEAN ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN HIGHEST DAILY MEAN HIGHEST DAILY MEAN HOWEST DAILY MEAN HOWES	
ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILLY MEAN LOWEST DAILLY MEAN LOWEST DAILLY MEAN LOWEST DAILLY MEAN ANNUAL SEVEN-DAY MINIMUM O.00 Jul 25 O.66 Aug 26 O.00 Oct 1, 1969 ANNUAL SEVEN-DAY MINIMUM O.00 Jul 25 O.84 Aug 20 O.00 Jun 27, 1970 MAXIMUM PEAK FLOW AXIMUM PEAK STAGE S.58 Jul 8 O.69 ANNUAL RUNOFF (CFSM) O.780 ANNUAL RUNOFF (INCHES) O.850 O.90 Oct 1, 1969	

e Estimated

03291780 INDIAN-KENTUCK CREEK NEAR CANAAN, IN—Continued



03294000 SILVER CREEK NEAR SELLERSBURG, IN

LOCATION.--Lat 38°22'15", long 85°43'35", in lot 68, Clark Military Grant, Clark County, Hydrologic Unit 05140101, (JEFFERSONVILLE, IN. quadrangle), on downstream side of Straws Mill bridge on Watson Road, 0.3 mi downstream from Pleasant Run, 2.4 mi southeast of Sellersburg, and 12.2 mi upstream from mouth.

DRAINAGE AREA.--189 mi².

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

REVISED RECORDS.--WSP 1705: 1955-58. WDR IN-72-1: Drainage area.

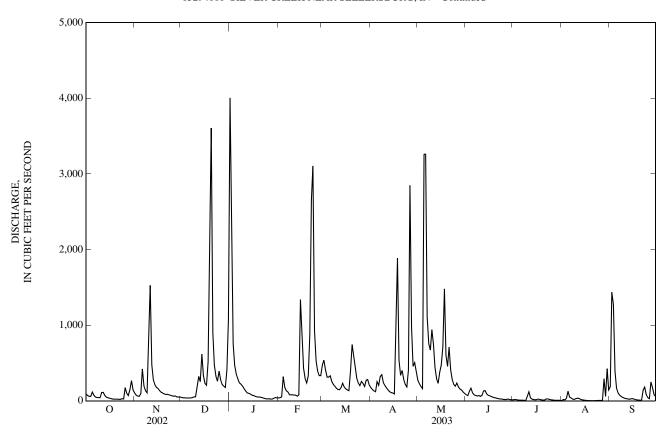
GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 429.78 ft above National Geodetic Vertical Datum of 1929, (levels by State of Indiana, Department of Natural Resources). Prior to Oct. 6, 1976, and Feb. 15 to Sept. 20, 1984 nonrecording gage and crest-stage gage at same site and datum.

REMARKS.--Records fair except for daily discharges below 10 ft³/s, which are poor. Some regulation by Deam Lake.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	104	44	4,000	38	471	175	274	80	13	4.3	186
2	70	77	40	2,700	42	537	149	226	69	18	17	1,430
3	60	63	40	755	52	411	132	191	127	15	13	1,270
4	59	60	36	468	319	314	120	162	167	11	34	391
5	115	96	38	354	179	312	254	3,260	105	8.9	127	169
6	74	422	38	290	133	330	207	3,260	79	8.8	50	104
7	51	196	38	238	116	259	323	1,110	70	8.1	38	74
8	43	133	43	219	80	217	345	755	63	5.9	24	57
9	43	105	51	195	80	194	238	672	70	4.9	18	44
10	42	967	53	161	79	166	202	941	59	58	29	35
11	110	1,530	194	131	76	150	171	743	70	119	35	30
12	112	476	323	105	75	147	145	441	130	41	32	26
13	72	282	253	98	62	175	122	293	135	22	20	20
14	48	213	617	90	78	232	108	231	92	17	14	25
15	40	178	334	74	1,340	182	105	377	73	13	9.9	30
16	35	163	230	71	927	159	91	472	66	17	7.2	24
17	28	134	207	60	432	144	1,030	709	56	23	5.2	17
18	23	113	521	53	292	134	1,890	1,480	48	16	3.6	13
19	22	102	1,840	51	237	399	536	604	42	14	2.8	11
20	22	91	3,610	49	331	745	338	455	37	9.3	2.5	8.9
21	22	84	899	45	873	592	402	711	31	11	2.4	7.7
22	20	86	471	38	2,660	437	282	408	27	24	2.7	141
23	19	80	324	32	3,110	299	216	283	24	25	3.5	181
24	29	71	259	27	924	235	184	217	23	21	4.8	80
25	25	65	394	26	526	200	409	194	18	14	4.9	43
26 27 28 29 30 31	174 98 70 144 267 147	61 64 51 49 51	279 217 193 177 413 1,080	28 23 23 33 45 39	393 333 333 	256 231 190 272 281 207	2,850 967 457 503 386	235 182 155 143 117 97	16 21 22 16 14	12 9.1 6.3 7.3 7.4 6.4	4.8 5.4 292 59 426 143	29 250 172 81 58
TOTAL	2,176	6,167	13,256	10,521	14,120	8,878	13,337	19,398	1,850	586.4	1,435.0	5,007.6
MEAN	70.2	206	428	339	504	286	445	626	61.7	18.9	46.3	167
MAX	267	1,530	3,610	4,000	3,110	745	2,850	3,260	167	119	426	1,430
MIN	19	49	36	23	38	134	91	97	14	4.9	2.4	7.7
CFSM	0.37	1.09	2.26	1.80	2.67	1.52	2.35	3.31	0.33	0.10	0.24	0.88
IN.	0.43	1.21	2.61	2.07	2.78	1.75	2.63	3.82	0.36	0.12	0.28	0.99
STATIST	TICS OF MO	NTHLY MI	EAN DATA	FOR WATE	ER YEARS	1955 - 2003	BY WATE	R YEAR (W	Y)			
MEAN	37.3	119	259	307	414	513	395	328	161	68.7	46.4	40.2
MAX	384	805	862	1,150	1,323	2,252	1,117	1,369	1,337	316	514	390
(WY)	(2002)	(1980)	(1979)	(1959)	(1956)	(1964)	(1970)	(1983)	(1960)	(1973)	(1978)	(1979)
MIN	0.21	0.61	0.60	5.43	32.0	112	68.7	25.4	3.07	2.75	0.53	0.12
(WY)	(1965)	(1964)	(1964)	(1977)	(1992)	(1981)	(2001)	(1988)	(1988)	(1959)	(1999)	(1999)
SUMMA	RY STATIS	TICS	I	FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	/EAR	WATER	YEARS 195	55 - 2003
ANNUAI HIGHES' LOWEST HIGHES' LOWEST ANNUAI MAXIMU ANNUAI ANNUAI 10 PERC	Γ ANNUAL Γ ANNUAL Γ DAILY M Γ DAILY M	MEAN EAN EAN AY MINIM TLOW TAGE (CFSM) (INCHES) EDS	UM	0	May Sep .35 Sep .58 .49	12	4,63 1	5 Jar 2.4 Aug 3.2 Aug 0 May 8.76 May 9.04	g 18 v 6	4 15,1 19,6	0.00 Oc 0.00 Oc 000 Ja	1997 1981 ar 10, 1964 ct 1, 1954 ct 1, 1954 dt 1, 1954 un 22, 1959 un 22, 1959
	ENT EXCE				.5			4			3.1	

03294000 SILVER CREEK NEAR SELLERSBURG, IN—Continued



(1988)

(1976)

(1975)

(1999)

(1987)

03302220 BUCK CREEK NEAR NEW MIDDLETOWN, IN

LOCATION.--Lat 38°07'13", long 86°05'16", in SE\(^1_4\)NE\(^1_4\) sec.32, T.4 S., R.4 E., Harrison County, Hydrologic Unit 05140104, (LACONIA, IN. quadrangle), on right bank at downstream side of bridge on State Highway 337 (revised), 0.6 mi downstream from South Fork Buck Creek, 3.6 mi southwest of New Middletown, and 14.6 mi upstream from mouth.

DRAINAGE AREA.--65.2 mi², of which 28.1 mi² does not contribute directly to surface runoff.

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

(1988)

(WY)

(1988)

(1977)

(1977)

(1992)

(1983)

(2001)

REVISED RECORDS .-- WDR IN-72-1: 1971(P).

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

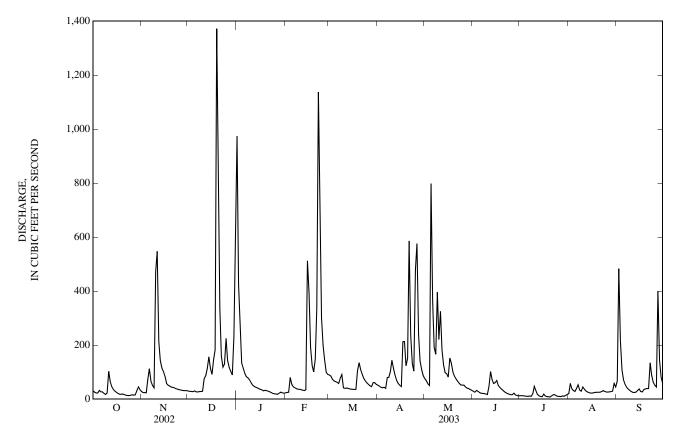
REMARKS.--Records fair except for estimated daily discharges and those below 10 ft³/s, which are poor. Flow can be affected by regulation of Spring Hills Lake during periods of low flow.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES DAY OCT NOV DEC **FEB** JUN JUL AUG SEP JAN MAR APR MAY 78 $\overline{22}$ 9.9 9.2 9.4 1.370 9.0 8.1 2.7 $\overline{27}$ 23 1,140 25 e21 e20 e19 e18 9.5 ------4,499 2,683 5,603 2,941 4,923 1,995 4,312 TOTAL 443.1 2,560 94.9 32.2 MEAN 27.7 89.4 64.4 33.3 14.3 85.3 MAX 1,370 1,140 MIN 2.7 8.1 2.56 **CFSM** 0.75 2.41 4.87 4.74 1.73 4.04 3.75 0.90 0.39 0.87 2.30 IN. 0.86 2.69 5.62 2.95 4.94 2.00 4.51 4.32 1.00 0.44 1.00 2.57 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2003, BY WATER YEAR (WY) MEAN 17.6 52.8 59.5 27.6 19.2 16.1 71.8 MAX 67.2 (1979)(1991)(1999)(1989)(1997)(1970)(1983)(1997)(1979)(1992)(WY) (1971)(1980)4.59 MIN 0.76 6.01 2.64 40.4 21.9 1.56 1.45 0.72 3.16 24.8 16.3

03302220 BUCK CREEK NEAR NEW MIDDLETOWN, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1970 - 2003
ANNUAL TOTAL	40,507.58	32,813.1	
ANNUAL MEAN	111	89.9	77.8
HIGHEST ANNUAL MEAN			150 1997
LOWEST ANNUAL MEAN			32.8 1981
HIGHEST DAILY MEAN	2,000 May 13	1,370 Dec 19	5,610 Mar 2, 1997
LOWEST DAILY MEAN	0.52 Sep 13	8.1 Jul 20	0.52 Jul 10, 1988
ANNUAL SEVEN-DAY MINIMUM	0.59 Sep 7	11 Jul 14	0.57 Jul 4, 1988
MAXIMUM PEAK FLOW	•	3,750 Dec 19	20,500 Mar 2, 1997
MAXIMUM PEAK STAGE		8.59 Dec 19	17.26 Mar 2, 1997
ANNUAL RUNOFF (CFSM)	2.99	2.42	2.10
ANNUAL RUNOFF (INCHES)	40.62	32.90	28.50
10 PERCENT EXCEEDS	259	187	174
50 PERCENT EXCEEDS	39	42	27
90 PERCENT EXCEEDS	1.6	17	3.3

e Estimated



03302300 LITTLE INDIAN CREEK NEAR GALENA, IN

LOCATION.--Lat 38°19'19", long 85°55'53", in $NE^{1}_{4}SW^{1}_{4}$ sec.23, T.2 S., R.5 E., Floyd County, Hydrologic Unit 05140104, (GEORGETOWN, IN. quadrangle), on right bank approximately 500 ft upstream of county road bridge, on abandoned county road embankment, 2.0 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 October 2003 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 703.00 ft above National Geodetic Vertical Datum of 1929.

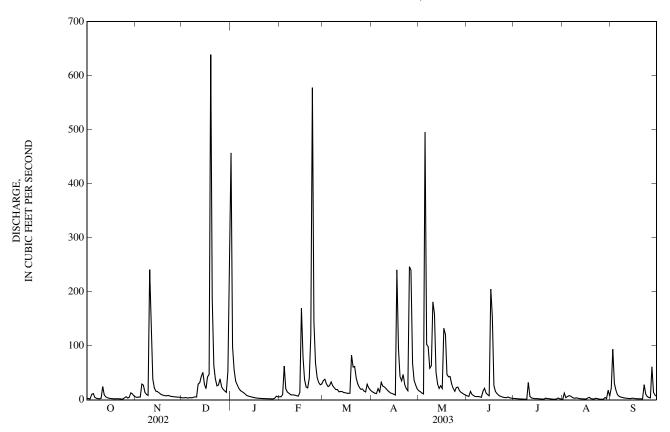
REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

					DAIL	Y MEAN	VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	2.9 2.2 1.8 10 12	5.4 4.5 5.2 5.1 29	3.7 3.7 4.3 3.2 3.9	457 98 55 34 28	5.7 5.6 9.5 62 21	36 38 29 25 26	16 14 12 12 21	17 15 12 11 495	7.3 6.2 16 10 7.8	2.6 2.3 2.1 1.8 1.7	1.2 13 3.8 6.0 7.7	22 94 30 17 9.3
6 7 8 9 10	4.4 2.9 2.2 1.9 2.8	27 14 9.9 8.1 241	3.9 3.7 4.6 5.4 5.2	21 17 15 13 11	14 12 9.7 9.0 9.2	33 26 22 19	15 32 25 24 21	102 99 58 63 181	6.2 6.0 6.3 5.5 4.7	1.5 1.3 1.2 1.3 32	6.8 4.8 3.1 3.1 3.6	6.5 5.1 4.4 3.7 3.2
11 12 13 14 15	24 9.1 5.4 3.9 3.0	114 38 22 16 15	29 32 43 51 29	e8.2 e7.0 e6.2 e5.4 e4.7	8.4 7.6 6.8 14 169	15 15 15 14 13	17 15 13 12 10	158 51 30 21 26	16 21 13 9.4 7.6	6.1 3.6 2.7 2.3 2.1	2.7 2.2 1.9 1.7 1.6	2.8 2.5 2.2 2.9 3.1
16 17 18 19 20	2.6 2.2 2.0 1.9 2.1	13 11 9.0 8.3 7.5	21 42 47 639 186	e4.0 e3.5 e3.1 e2.8 e2.6	78 38 24 22 40	12 12 12 83 61	8.9 240 94 43 35	21 132 121 47 43	205 155 26 15 12	2.4 1.8 1.5 1.4 1.3	1.6 3.4 4.6 2.2 1.8	2.4 2.1 2.0 1.9 1.8
21 22 23 24 25	1.9 1.8 1.5 1.4 3.8	7.6 8.0 6.8 6.2 5.9	63 39 26 28 39	e2.4 e2.3 e2.2 e2.1 e2.0	120 578 144 68 42	62 40 29 23 19	47 28 21 17 247	43 29 21 16 23	8.6 6.7 5.6 4.8 4.2	3.0 2.5 2.2 1.7 1.4	1.5 2.9 2.3 1.4 1.1	1.7 28 11 5.9 4.4
26 27 28 29 30 31	5.7 3.3 4.7 13 11 7.3	5.4 5.3 4.9 4.8 4.1	24 19 16 14 54 224	e1.9 e1.8 e1.8 e2.9 e6.6 5.3	32 28 29 	20 16 15 29 22 18	240 68 37 28 20	24 17 14 12 10 8.6	4.0 5.2 3.8 3.2 2.8	1.2 1.1 1.7 3.3 2.0 1.5	1.1 1.1 4.3 2.2 18 6.8	3.6 61 14 8.5 6.3
TOTAL MEAN MAX MIN CFSM IN.	154.7 4.99 24 1.4 0.31 0.36	662.0 22.1 241 4.1 1.37 1.53	1,706.6 55.1 639 3.2 3.42 3.94	827.8 26.7 457 1.8 1.66 1.91	1,606.5 57.4 578 5.6 3.56 3.71	818 26.4 83 12 1.64 1.89	1,432.9 47.8 247 8.9 2.97 3.31	1,920.6 62.0 495 8.6 3.85 4.44	604.9 20.2 205 2.8 1.25 1.40	94.6 3.05 32 1.1 0.19 0.22	119.5 3.85 18 1.1 0.24 0.28	363.3 12.1 94 1.7 0.75 0.84
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WATI	ER YEARS	1969 - 2003	, BY WATE	R YEAR (W	YY)			
MEAN MAX (WY) MIN (WY)	4.84 42.2 (1978) 0.000 (1988)	14.1 70.6 (1980) 0.25 (1992)	31.0 103 (1991) 1.80 (1981)	32.9 88.6 (1999) 0.46 (1977)	40.9 111 (1990) 2.91 (1992)	46.7 185 (1997) 10.9 (1976)	42.3 120 (1970) 6.41 (2001)	28.9 116 (1983) 1.48 (1988)	16.2 93.6 (1997) 0.002 (1988)	7.35 50.7 (1979) 0.088 (1991)	5.08 30.5 (1978) 0.027 (1999)	4.74 62.1 (1979) 0.000 (1987)
SUMMA	RY STATIS	STICS	F	FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	YEAR	WATER	YEARS 1969	9 - 2003
ANNUAI HIGHES' LOWEST HIGHES' LOWEST ANNUAI MAXIMU MAXIMU ANNUAI 10 PERC' 50 PERC'	T ANNUAL T ANNUAL T DAILY M DAILY M SEVEN-D JM PEAK S L RUNOFF ENT EXCE	MEAN IEAN EAN AY MINIM FLOW STAGE (CFSM) (INCHES) EDS EDS	IUM	681 () () 26 68	2.0 May 0.00 Aug 1.00 Aug 1.09 6.99 8.6.0	8	2,97 2,5	28.3 39 Dec 1.1 Ju 1.6 Ju 70 Jui	c 19 127 1 3 1 16 1 16		0.00 Oc 0.00 Sep 110 Ma	1979 1992 r 1, 1997 t 4, 1968 o 24, 1969 r 1, 1997 r 1, 1997
70 I LIKE	ENT EXCE			·	0.08			1.7			0.23	

e Estimated

03302300 LITTLE INDIAN CREEK NEAR GALENA, IN—Continued



03302680 WEST FORK BLUE RIVER AT SALEM, IN

LOCATION.--Lat $38^{\circ}36'19''$, long $86^{\circ}05'40''$, in $SW^{1}/_{4}SE^{1}/_{4}$ sec. 17, T.2 N., R.4 E., Washington County, Hydrologic Unit 05140104, (SALEM, IN. quadrangle), 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.

REVISED RECORDS.--WDR IN-96-1: 1983(P), 1988(P), 1990(P), 1995(P).

GAGE.--Water-stage recorder. Datum of gage is 713.00 ft above National Geodetic Vertical Datum of 1929.

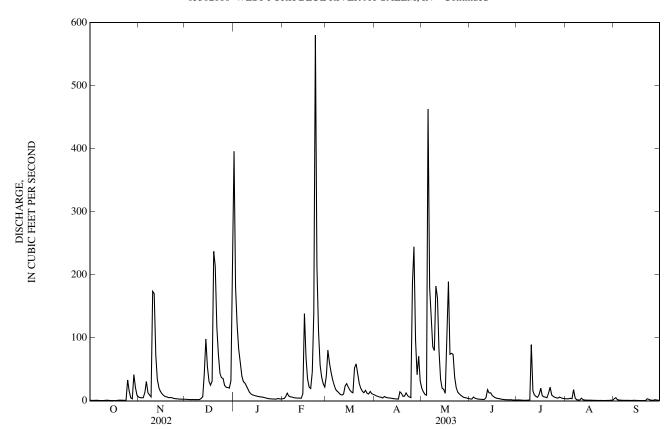
REMARKS.--Records fair except for estimated daily discharges and those below 1.00 ft³/s, which are poor.

cords fair excep	t for estimate	d daily disch	arges and th	ose below 1	.00 ft ³ /s, wh	ich are poor.				
		DI WATER	YEAR OCT	OBER 2002	TO SEPTE	COND MBER 2003				
Γ NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
71 4.9 59 4.9 79 4.9	2.5 2.3 2.1 1.9 2.1	396 180 119 82 60	e3.3 e3.7 6.3 12 7.6	40 80 e60 e45 34	9.3 7.8 6.8 6.1 5.7	20 14 10 8.9 463	3.1 2.8 6.0 4.2 3.2	1.4 1.4 1.2 1.1 0.93	3.3 3.2 3.2 4.1 3.4	3.6 4.9 1.8 1.2 1.1
54 13 51 9.1 66 6.3	2.0 1.8 2.1 1.9 2.0	39 30 28 23 18	6.4 6.0 5.1 e4.7 e4.5	25 18 15 13 10	4.5 6.8 5.6 5.0 4.6	180 141 86 80 182	2.8 2.6 2.4 2.2 2.3	0.89 0.85 1.2 1.4 89	18 4.4 1.8 1.4 1.4	0.87 0.80 0.77 0.77
36 72 70 34 55 21	3.8 6.6 43 98 54	e13 e11 e9.3 e8.5 e7.7	e4.5 e4.3 e4.1 11 139	9.2 11 24 27 22	4.3 3.9 3.5 3.2 2.9	163 80 34 20 18	4.8 18 13 13 8.5	16 9.3 6.9 5.6 10	4.1 1.8 1.2 1.2 1.0	0.63 0.67 0.77 0.85 0.63
8.6 62 6.9 6.4	31 25 31 237 213	e7.2 e6.6 e6.3 e6.0 e5.5	68 35 22 20 46	17 14 13 52 59	2.8 14 12 7.1 7.5	12 97 189 74 75	6.5 5.0 4.0 3.7 3.2	20 8.0 6.5 5.8 4.9	1.0 0.98 0.89 0.77 0.77	0.61 0.53 0.46 0.44 0.47
36 5.2 31 4.1	117 74 44 37 35	e4.7 e4.1 e3.5 e3.2 e3.1	140 580 213 111 57	44 28 20 15 13	8.0 6.1 5.1 186	74 37 21 14 11	2.6 2.2 1.9 1.7 1.6	12 22 9.2 7.0 5.6	0.69 0.63 0.60 0.57 0.54	0.47 3.2 2.4 1.2 0.95
2.6 2.6 2.7	25 21 21 20 32 131	e2.9 e2.8 e2.7 e3.7 e3.2 e2.9	38 27 22 	17 12 11 15 12 10	244 96 42 71 31	8.6 6.7 5.3 5.0 4.1 3.6	1.6 1.8 1.4 1.3 1.2	4.8 4.3 5.8 4.9 3.9 3.5	0.54 0.62 0.61 0.75 0.96 0.97	0.79 1.7 1.3 1.1 0.90
70 21.7 174 16 2.6 25 1.14	1,320.1 42.6 237 1.8 2.24 2.58	1,092.9 35.3 396 2.7 1.86 2.14	1,601.5 57.2 580 3.3 3.01 3.14	785.2 25.3 80 9.2 1.33 1.54	824.6 27.5 244 2.8 1.45 1.61	2,137.2 68.9 463 3.6 3.63 4.18	128.6 4.29 18 1.2 0.23 0.25	275.37 8.88 89 0.85 0.47 0.54	65.39 2.11 18 0.54 0.11 0.13	36.59 1.22 4.9 0.44 0.06 0.07
F MONTHLY M	IEAN DATA	FOR WATI	ER YEARS	1970 - 2003	, BY WATE	R YEAR (W	Y)			
89.9 4) (1986) 4 0.29	34.2 108 (2002) 2.33 (1977)	33.0 103 (1982) 0.97 (1977)	41.9 106 (1989) 5.41 (1992)	44.2 104 (1989) 9.65 (1976)	44.0 164 (1996) 2.83 (2001)	34.1 140 (1983) 1.91 (1988)	15.0 80.3 (1997) 0.088 (1988)	12.0 65.7 (1988) 0.29 (1991)	6.88 30.5 (1985) 0.13 (1987)	6.21 40.0 (1982) 0.024 (1999)
ATISTICS	1	FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	/EAR	WATER	YEARS 19	970 - 2003
N UAL MEAN JAL MEAN Y MEAN Y MEAN Y MEAN N-DAY MINIM AK FLOW AK STAGE DFF (CFSM) DFF (INCHES) KCEEDS	1UM	913 0 0 1 1 24 108	.7 May Aug .00 Aug .83 .78	9	58 2,13	80 Feb 0.44 Sep 0.52 Sep 30 Feb 1.31 17.75 71 5.3	0 19 0 15 0 22		0.00 S 0.00 S 0.30 M 15.58 M 1.32 17.88 55 7.2	2002 1981 Apr 29, 1996 dep 3, 1999 dep 14, 1999 day 17, 1990 day 17, 1990
	F NOV 88 6.1 71 4.9 99 4.9 99 4.9 33 13 70 31 74 13 75 19.1 166 6.3 71 174 04 170 166 72 70 34 175 21 175 15 15 15 15 15 16 5.2 17 8.6 16 5.2 17 8.6 18 4.1 18 3.6 18 2.6 19 5.2 17 5.1 18 2.6 2.7 18 4.1 18 2.6 2.7 18 4.1 18 2.6 2.7 18 4.1 18 2.6 2.7 18 4.1 18 2.6 2.7 18 4.1 18 2.6 2.7 18 4.1 18 2.6 2.7 3.3 3.0 3.0 3.2 8 2.8 1 2.6 2.7 3.3 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	T NOV DEC 88 6.1 2.5 71 4.9 2.3 79 4.9 1.9 83 13 2.1 70 31 2.0 74 13 18 75 19 19 19 76 6.3 1.9 76 17 2.6 76 72 6.6 77 6.6 70 34 43 75 21 98 75 11 15 76 31 31 77 8.6 72 6.6 70 34 43 75 21 98 75 1 15 76 11 31 77 8.6 25 78 21 98 78 15 54 78 17 8.6 79 5.2 213 70 5.1 117 78 6.4 237 78 6.5 2 74 78 11 4.1 78 6.6 25 78 21 78 22 78 21 78 21 78 22 78 21 78 22 78 21 78 22 78 21 78 22 78 21 78 22 78 21 78 22 78 21 78 22 78 23 78 21 79 24 78 26 78 27 78 28 78 29 78 29 78 20 78 21 78 21 78 22 78 23 78 24 78 29 78 29 78 20 78 21 78 22 78 23 78 23 78 24 78 21 78 22 78 23 78 24 78 21 78 22 78 23 78 24 78 24 78 25 78 27 78 27 78 28 78 29 78 20 78 21 78 22 78 23 78 24 78 29 78 29 78 20 78 21 78 22 78 23 78 21 78 22 78 23 78 24 78 24 78 27 78 27 78 27 78 28 78 29 78 20 7	DEC WATER T NOV DEC JAN 88 6.1 2.5 396 71 4.9 2.3 180 79 4.9 2.1 119 79 4.9 1.9 82 83 13 2.1 60 70 31 2.0 39 84 13 1.8 30 85 6.6 6.3 1.9 23 86 6.3 1.9 23 86 6.6 3 1.9 23 87 6.6 6.1 174 2.0 18 86 72 6.6 e11 87 72 6.6 e11 87 8.6 72 6.6 e11 87 8.6 72 6.6 e11 87 8.6 72 6.6 e11 88 6.7 2 6.6 e11 89 6.3 1.9 8 e8.5 80 71 1 31 e7.2 80 11 31 e7.2 80 11 31 e6.3 80 25 e6.6 80 21 e6.3 80 21 e2.7 80 21 e2.8 81 2.6 21 e2.7 82 2.7 32 e3.2 83 3.3 35 e3.1 84 652.3 1,320.1 1,092.9 85 2.8 21 e2.8 86 2.6 21 e2.7 87 8.6 25 e3.1 88 2.8 21 e2.8 80 2.7 32 e3.2 80 2.7 32 e3.2 81 2.6 21 e2.7 82 2.6 20 e3.7 83 2.8 21 e2.8 84 2.6 21 e2.7 85 2.6 20 e3.7 86 2.7 32 e3.2 87 396 88 2.8 21 e2.8 80 2.7 32 e3.2 81 2.6 21 e2.7 82 2.7 32 e3.2 83 131 e2.9 84 652.3 1,320.1 1,092.9 85 2.8 2.14 86 2.6 1.8 2.7 87 89.9 108 103 88 21.9 34.2 33.0 89 108 103 80 1097 80 1.28 2.58 2.14 81 EMONTHLY MEAN DATA FOR WATH 82 21.9 34.2 33.0 83 2.9 108 103 84 (1986) (2002) (1982) 85 (2000) (1977) (1977) 84 EFMONTHLY MEAN DATA FOR WATH 86 21.9 34.2 33.0 87 89.9 108 103 88 (2000) (1977) (1977) 84 EFMONTHLY MEAN DATA FOR WATH 88 21.9 34.2 33.0 89 9 108 103 80 1092.9 80 1092.9 80 1093.0 80 1093.0 80 1094.0 80 1095.0 80 1096.0 80 1097.0 80 1097.0 80 1097.0 80 1098.0 80 1098.0 80 1098.0 80 1098.0 80 1098.0 80 1099.0 80 1099.0 80 1090.0 80 1097.0 80 1090.0 8	DISCHARGE, WATER YEAR OCT DAIL F NOV DEC JAN FEB 88 6.1 2.5 396 e3.3 71 4.9 2.3 180 e3.7 79 4.9 2.1 119 6.3 79 4.9 1.9 82 12 83 13 2.1 60 7.6 70 31 2.0 39 6.4 74 13 1.8 30 6.0 75 1.174 2.0 18 e4.5 76 1.174 2.0 18 e4.5 76 1.174 2.0 18 e4.5 77 2 6.6 e11 e4.3 78 1.7 8.6 25 e6.6 35 78 1.1 31 e7.2 68 78 1.1 31 e7.2 68 78 1.1 31 e6.3 22 79 2.1 19 8 e8.5 11 70 3.4 43 e9.3 e4.1 70 3.4 43 e9.3 e4.1 70 3.4 e6.0 20 70 3.1 31 e7.2 68 70 3.1 43 e6.3 22 70 3.1 44.1 44 e3.5 213 70 3.1 42.1 58 70 3.1 57 70 5.1 117 e4.7 140 70 5.2 213 e5.5 46 70 5.1 117 e4.7 140 71 5.1 117 e4.7 140 72 6.8 21.9 38 73 3.0 25 e2.9 38 74 2.6 21 e2.8 27 75 2.1 22 2.6 20 e3.7 76 2.7 32 e3.2 111 77 5.1 117 e2.8 213 78 2.8 21 e2.8 27 79 5.1 117 e2.8 27 80 2.8 21 e2.8 27 80 2.8 21.9 34.2 33.0 41.9 80 2.9 1.28 2.58 2.14 3.14 80 2.9 1.28 2.58 2.14 3.14 80 2.9 1.28 2.58 2.14 3.14 80 2.9 1.28 2.58 2.14 3.14 80 2.9 1.28 2.58 2.14 3.14 80 2.9 1.28 2.58 2.14 3.14 80 2.9 2.33 0.97 5.41 80 2.9 1.28 2.58 2.14 3.14 80 2.9 2.33 0.97 5.41 80 2.9 2.33 0.97 5.41 80 2.9 1.28 2.58 2.14 3.14 80 2.9 1.28 2.58 2.14 3.14 80 2.9 2.33 0.97 5.41 80 2.9 1.28 2.78 80 2.9 3.4 2 33.0 41.9 80 2.9 1.08 103 106 80 2.9 2.33 0.97 5.41 80 2.9 1.28 2.78 80 2.9 3.4 2 30.0 41.9 80 2.9 1.80 80 2.9 3.4 2 30.0 41.9 80 2.9 1.80 80 2.9 1.80 80 2.9 2.33 0.97 5.41 80 2.9 2.33 0.97 5.41 80 2.9 2.33 0.97 5.41 80 2.9 2.33 0.97 5.41 80 2.9 2.33 0.97 5.41 80 2.9 2.33 0.97 5.41 80 2.9 2.33 0.97 5.41 80 2.9 2.33 0.97 5.41 80 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2.9	DISCHARGE, CUBIC FE WATER YEAR OCTOBER 2002 DAILY MEAN N.	DISCHARGE, CUBIC FEET PER SEC WATER YEAR OCTOBER 2002 TO SEPTE DAILY MEAN VALUES INOV DEC JAN FEB MAR APR 88 6.1 2.5 396 e.3.3 40 9.3 81 4.9 2.3 180 e.3.7 80 7.8 81 4.9 2.3 180 e.3.7 80 7.8 81 19.4 4.9 1.19 82 12 e45 6.1 83 13 2.1 60 7.6 34 5.7 84 13 1.8 30 6.0 18 6.8 85 19.1 2.1 2.8 5.1 15 5.6 86 6.3 1.9 23 e4.7 13 5.0 86 6.3 1.9 23 e4.7 13 5.0 86 1174 2.0 18 e4.5 10 4.6 86 172 6.6 e11 e4.3 11 3.9 86 72 6.6 e11 e4.3 11 3.9 86 72 6.6 e11 e4.3 11 3.9 87 55 21 98 e8.5 11 27 3.2 88 6.1 127 3.2 80 11 31 e7.2 68 17 2.8 80 11 31 e7.2 68 17 2.8 80 7.8 6.9 31 e6.3 22 13 12 80 20 6.4 237 e6.0 20 52 7.1 80 5.2 213 e5.5 46 59 7.5 80 75 5.1 117 e4.7 140 44 12 80 5.2 213 e5.5 46 59 7.5 81 14 44 e4.1 580 28 8.0 81 4.1 44 e4.1 580 28 8.0 81 4.1 44 e4.5 52 13 20 6.1 82 2.8 21 e2.8 27 12 96 82 2.8 21 e2.8 27 12 96 83 2.8 21 e2.8 27 12 96 84 2.6 21 e2.7 22 11 42 85 2.6 20 e3.7 15 71 86 2.8 21 e2.8 27 12 96 86 2.8 21 e2.8 27 12 96 87 5.1 117 e4.7 140 44 12 87 5.1 117 e4.7 140 44 12 88 2.8 21 e2.8 27 12 96 80 2.8 21 e2.8 27 12 96 81 2.8 21 e2.8 27 12 96 82 2.8 21 e2.8 27 12 96 83 2.8 21 e2.8 27 12 96 84 2.6 21 e2.7 22 11 42 85 2.6 21 e2.8 27 12 96 86 2.8 21 e2.8 27 12 31 87 64 652.3 1,320.1 1,092.9 1,601.5 785.2 824.6 86 2.8 21 e2.8 27 12 28 87 174 24.6 35.3 57.2 25.3 27.5 88 2.9 138 103 106 104 164 89 9 108 103 106 104 164 90 12.7 42.6 35.3 57.2 25.3 27.5 174 2.7 32 e3.2 12 31 174 2.7 32 e3.2 12 31 174 2.7 32 e3.2 12 31 174 2.7 32 e3.3 0.97 5.41 9.65 2.83 175 1.1 170 170 170 170 170 170 170 170 170 17	TO ALLY MEAN VALUES 1	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCCTOBER 2002 TO SEPTEMBER 2003 SEPTEMBER 2	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

e Estimated

BLUE RIVER BASIN

03302680 WEST FORK BLUE RIVER AT SALEM, IN—Continued



03302800 BLUE RIVER AT FREDERICKSBURG, IN

 $LOCATION.--Lat\ 38^{\circ}26'02", long\ 86^{\circ}11'31", in\ NE^{1}_{4}NW^{1}_{4}\ sec.16, T.1\ S., R.3\ E., Washington\ County, Hydrologic\ Unit\ 05140104, (FREDERICKSBURG,\ IN\ quadrangle), on\ downstream\ side\ of\ bridge\ on\ U.S.\ Highway\ 150\ at\ Fredericksburg,\ 0.5\ mi\ downstream\ from\ South\ Fork\ Blue\ River,\ and\ at\ mile\ 57.1.$

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 National Geodetic Vertical Datum of 1929.

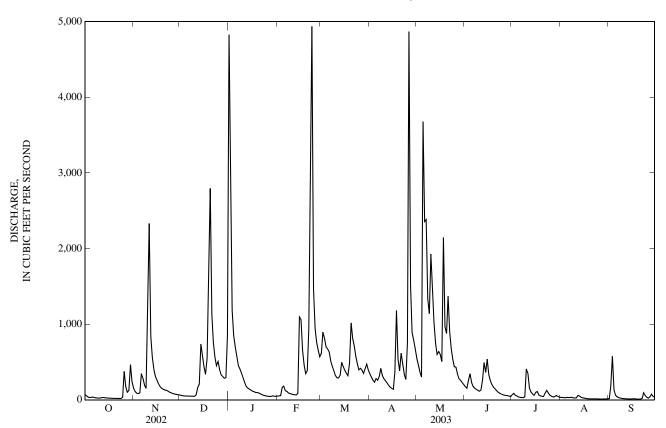
REMARKS.--Records fair except for estimated daily discharges, which are poor.

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

					YEAR OCT	CUBIC FEI OBER 2002 Y MEAN V	TO SEPTE		;			
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	70 53 34 32 32	154 111 88 81 92	61 56 53 50 51	4,830 2,290 1,180 851 697	e50 e52 e56 165 181	614 896 814 699 672	347 300 259 233 281	549 460 368 301 3,680	174 154 258 347 231	66 86 59 51 38	32 31 28 28 33	15 185 576 131 64
6 7 8 9 10	37 30 26 24 24	346 285 194 150 1,000	50 49 48 48 47	567 450 407 353 291	120 112 89 e83 e75	633 516 443 386 320	259 309 416 320 278	2,360 2,380 1,330 1,140 1,930	177 155 140 126 113	33 30 29 39 408	29 30 34 25 24	40 30 23 19 16
11 12 13 14 15	25 31 31 26 24	2,330 842 564 398 308	67 164 205 737 596	231 177 e155 e142 e128	e71 e67 e64 85 1,090	292 289 325 496 440	252 224 193 168 152	1,470 1,020 745 600 638	129 263 494 363 537	350 155 102 77 59	27 59 49 32 28	14 13 12 12 11
16 17 18 19 20	23 e22 21 19	261 208 174 151 140	436 337 553 1,290 2,800	e114 e108 e97 e96 e91	1,060 655 457 346 384	392 351 320 481 1,020	140 370 1,180 543 381	600 506 2,150 969 877	331 256 202 168 146	98 109 64 52 45	23 19 15 14 13	13 15 11 10 9.2
21 22 23 24 25	19 e18 e18 17 33	129 126 116 101 92	1,130 759 562 449 506	e80 e68 e60 e55 e51	933 4,010 4,940 1,460 939	815 713 578 476 397	617 469 335 270 755	1,370 900 681 533 438	121 101 87 76 66	43 89 124 92 62	13 13 13 12 11	8.9 19 93 55 34
26 27 28 29 30 31	377 174 100 124 465 239	84 78 72 69 67	399 331 308 285 292 850	e47 e44 e45 e53 e48 e47	760 653 569 	416 392 349 412 471 393	4,870 1,510 890 788 678	433 340 278 257 229 202	61 58 55 48 43	48 39 39 56 47 36	10 9.6 11 10 12 14	23 39 74 45 32
TOTAL MEAN MAX MIN CFSM IN.	2,187 70.5 465 17 0.25 0.29	8,811 294 2,330 67 1.04 1.16	13,569 438 2,800 47 1.55 1.78	13,853 447 4,830 44 1.58 1.82	19,526 697 4,940 50 2.46 2.57	15,811 510 1,020 289 1.80 2.08	17,787 593 4,870 140 2.10 2.34	29,734 959 3,680 202 3.39 3.91	5,480 183 537 43 0.65 0.72	2,625 84.7 408 29 0.30 0.35	701.6 22.6 59 9.6 0.08 0.09	1,642.1 54.7 576 8.9 0.19 0.22
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WATI	ER YEARS	1969 - 2003,	BY WATE	R YEAR (W	YY)			
MEAN MAX (WY) MIN (WY)	70.0 463 (2002) 3.45 (1998)	239 1,135 (1980) 6.74 (2000)	423 1,303 (2002) 29.4 (1977)	465 1,341 (1982) 11.6 (1977)	554 1,236 (1990) 56.1 (1992)	617 1,372 (1997) 142 (1969)	592 1,957 (1996) 83.9 (2001)	464 1,808 (1983) 35.2 (1988)	251 1,188 (1997) 8.36 (1988)	136 588 (1973) 13.1 (1991)	86.4 463 (1977) 9.55 (1999)	68.7 299 (1996) 4.25 (1999)
SUMMA	RY STATIS	STICS	1	FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	YEAR	WATER	YEARS 19	969 - 2003
SUMMARY STATISTICS ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK STAGE ANNUAL RUNOFF (CFSM)		IUM	153,776.2 421 8,310 May 13 5.6 Sep 12 6.0 Sep 7			131,726.7 361 4,940 Feb 23 8.9 Sep 21 11 Aug 24 9,010 Feb 23 19.23 Feb 23 1.28 17.32			329 551 1996 129 1992 22,000 Apr 29, 1996 1.8 Nov 15, 1999 1.8 Nov 12, 1999 39,000 Apr 29, 1996 27.15 Apr 29, 1996 1.16 15.81			
50 PERC	ENT EXCE ENT EXCE ENT EXCE	EDS		1,010 161 13				45 40 20		1	149 13 14	

e Estimated

03302800 BLUE RIVER AT FREDERICKSBURG, IN—Continued



BLUE RIVER BASIN 87

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, (HARDINSBURG, IN. quadrangle), on left (north) bank approximately 100 ft upstream from bridge in Marengo, approximately 100 ft upstream of the intersection of North Main Street and North Water Street in Marengo, known as Old Town, .1 mi northwest of the intersection of State Highway 64 and North Main Street in Marengo, and .6 mi west of the intersection of State Highway 64 and State Highway 66.

DRAINAGE AREA.--7.02 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 561.45 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Stage affected at times by inflow from small cave 50 ft below gage. Stages of 0.90 ft or less are below the gage intake level.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 12.39 ft June 7, 1990; minimum gage height, undetermined below 0.90 ft, stream goes dry most years.

EXTREMES FOR CURRENT YEAR .-- Maximum gage height, 5.56 ft, Feb. 22; minimum gage height, 1.26 ft, Sept. 18 and 19.

GAGE HEIGHT, FEET WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.33	1.47	1.47	2.58	1.42	2.12	1.82	1.76	1.52	1.52	1.35	1.31
2	1.33	1.44	1.43	2.20	1.42	2.10	1.75	1.75	1.52	1.45	1.41	1.71
3	1.33	1.45	1.42	2.08	1.59	2.02	1.75	1.66	1.64	1.40	1.40	1.41
4	1.47	1.43	1.42	2.02	1.74	1.96	1.75	1.84	1.55	1.39	1.34	1.38
5	1.39	1.63	1.43	1.87	1.66	1.94	1.75	2.67	1.54	1.39	1.34	1.38
6	1.36	1.64	1.42	1.77	1.58	1.86	1.75	2.24	1.54	1.35	1.34	1.30
7	1.35	1.55	1.41	1.77	1.58	1.86	1.87	2.47	1.46	1.34	1.34	1.30
8	1.33	1.50	1.42	1.68	1.53	1.75	1.83	2.60	1.46	1.34	1.34	1.29
9	1.33	1.49	1.42	1.66	1.52	1.71	1.87	2.68	1.44	1.36	1.34	1.29
10	1.39	2.87	1.42	1.66	1.54	1.67	1.84	2.34	1.79	1.59	1.34	1.28
11	1.40	2.03	1.59	1.66	1.53	1.67	1.79	2.16	1.93	1.44	1.44	1.28
12	1.38	1.81	1.64	1.53	1.52	1.68	1.76	2.00	2.27	1.44	1.38	1.28
13	1.37	1.70	1.86	1.53	1.51	1.70	1.70	1.91	2.02	1.36	1.33	1.28
14	1.36	1.62	1.92	1.53	1.74	1.70	1.70	1.75	2.14	1.36	1.33	1.28
15	1.36	1.59	1.87	1.48	2.30	1.69	1.63	2.08	1.94	1.36	1.32	1.28
16	1.36	1.55	1.71	1.48	2.09	1.67	1.62	1.95	1.80	1.36	1.32	1.28
17	1.36	1.52	2.03	1.48	1.88	1.66	2.40	3.03	1.72	1.36	1.32	1.28
18	1.36	1.48	1.98	1.48	1.77	1.72	2.08	2.33	1.64	1.36	1.28	1.26
19	1.37	1.47	3.16	1.48	1.91	2.34	1.96	2.07	1.64	1.36	1.28	1.27
20	1.37	1.46	2.32	1.48	2.15	2.13	2.30	2.10	1.54	1.36	1.28	1.27
21	1.36	1.47	2.02	1.48	2.61	2.13	2.09	1.99	1.54	1.44	1.28	1.27
22	1.36	1.45	1.90	1.48	3.26	2.07	1.98	1.89	1.54	1.36	1.28	1.42
23	1.35	1.45	1.77	1.48	2.40	1.96	1.85	1.76	1.48	1.36	1.28	1.39
24	1.35	1.44	1.77	1.48	2.15	1.83	1.79	1.71	1.46	1.35	1.28	1.35
25	1.85	1.43	1.78	1.48	2.06	1.82	3.39	1.84	1.45	1.35	1.28	1.35
26 27 28 29 30 31	1.56 1.45 1.43 1.87 1.64 1.53	1.43 1.43 1.42 1.42 1.47	1.77 1.68 1.66 1.65 1.82 3.08	1.48 1.40 1.42 1.42 1.42 1.42	1.95 1.95 1.85 	1.83 1.82 1.76 2.12 2.01 1.92	2.51 2.20 2.05 1.94 1.82	1.77 1.72 1.63 1.61 1.61 1.53	1.45 1.44 1.44 1.44 1.38	1.35 1.35 1.37 1.35 1.35 1.35	1.28 1.28 1.28 1.29 1.31 1.30	1.35 1.46 1.43 1.43 1.43
MEAN	1.42	1.57	1.78	1.63	1.86	1.88	1.95	2.01	1.62	1.38	1.32	1.34
MAX	1.87	2.87	3.16	2.58	3.26	2.34	3.39	3.03	2.27	1.59	1.44	1.71
MIN	1.33	1.42	1.41	1.40	1.42	1.66	1.62	1.53	1.38	1.34	1.28	1.26

CAL YR 2002 MEAN 1.65 MAX 7.43 MIN 1.22 WTR YR 2003 MEAN 1.65 MAX 3.39 MIN 1.26

BLUE RIVER BASIN 88

03303000 BLUE RIVER NEAR WHITE CLOUD, IN

LOCATION.--Lat 38°14'15", long 86°13'42", in NW ½SE ½ sec.19, T.3 S., R.3 E., Harrison County, Hydrologic Unit 05140104, (CORYDON WEST, IN quadrangle), on left bank 400 ft downstream from Spring Creek, 600 ft upstream from bridge on Interstate 64, 0.2 mi upstream from bridge on State Highway 62, 0.8 mi north of White Cloud, and at mile 14.7.

DRAINAGE AREA.--476 mi², of which 192 mi² does not contribute directly to surface runoff. Also, part of flow from Indian Creek, downstream from Corydon, IN, enters Blue River via solution channel in Karst area through Harrison Spring.

PERIOD OF RECORD.--April 1931 to current year. Monthly figures only for some periods, published in WSP 1305.

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

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

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

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

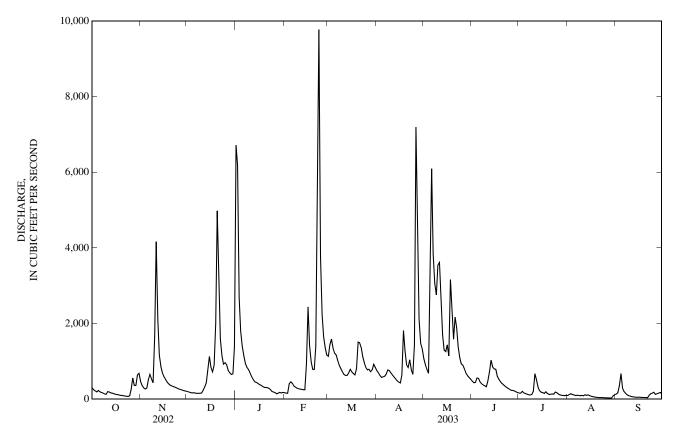
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	305	470	200	6.720	e170	1.130	758	1.080	478	161	95	132
2	248	364	187	6,180	e160	1,440	695	909	435	161	125	170
3	221	299	174	2,690	e155	1,590	627	790	443	206	143	358
4	192	269	165	1,800	405	1,340	576	684	560	165	122	678
5	230	294	170	1,390	457	1,220	591	3,360	548	147	114	294
6	197	512	160	1,140	418	1,170	605	6,090	457	131	94	201
7	174	654	155	944	343	1,020	663	3,840	405	117	105	154
8	163	533	155	840	318	893	771	3,060	376	110	99	113
9	139	431	156	784	289	810	753	2,760	353	124	89	93 78
10	127	1,650	162	694	e275	722	694	3,540	329	202	101	
11	201	4,160	235	597	e265	652	639	3,610	493	673	89	68
12	187	2,120	322	520	e260	628	590	2,540	738	518	116	60
13	167	1,170	432	459	e250	630	536	1,700	1,030	321	99	54
14	158	858	783	445	e249	693	486	1,300	847	223	114	49
15	e142	696	1,130	418	928	789	453	1,260	801	183	92	53
16	e130	593	837	384	2,440	724	430	1,440	790	175	75	52
17	e121	519	722	368	1,420	676	641	1,140	607	149	67	46
18	116	451	897	339	995	639	1,820	3,160	526	197	56	47
19	102	405	2,000	313	788	810	1,290	2,470	462	152	50	43
20	99	367	4,980	e310	787	1,510	907	1,590	415	127	45	44
21	90	349	2,750	304	1,400	1,490	836	2,170	377	126	42	36
22	83	332	1,590	287	5,220	1,360	1,040	1,890	339	140	41	103
23	78	314	1,150	253	9,780	1,130	777	1,380	309	132	44	144
24	72	300	926	203	3,760	957	658	1,090	283	188	38	157
25	87	278	967	e188	2,230	837	1,430	930	255	171	36	183
26	259	261	914	e172	1,650	774	7,190	898	231	135	35	126
27	559	248	761	e142	1,360	790	4,180	797	230	113	33	142
28	364	234	695	e158	1,170	726	2,110	686	212	103	31	158
29	364	223	652	e180		777	1,470	617	193	97	29	175
30	645	213	668	e162		921	1,340	572	172	92	87	176
31	684		1,380	e180		840		527		102	120	
TOTAL	6,704	19,567	26,475	29,564	37,942	29,688	35,556	57,880	13,694	5,641	2,426	4,187
MEAN	216	652	854	954	1,355	958	1,185	1,867	456	182	78.3	140
MAX	684	4,160	4,980	6,720	9,780	1,590	7,190	6,090	1,030	673	143	678
MIN	72	213	155	142	155	628	430	527	172	92	29	36
CFSM	0.45	1.37	1.79	2.00	2.85	2.01	2.49	3.92	0.96	0.38	0.16	0.29
IN.	0.52	1.53	2.07	2.31	2.97	2.32	2.78	4.52	1.07	0.44	0.19	0.33
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1932 - 2003	BY WATE	R YEAR (W	Y)			
MEAN	137	374	686	1,051	1,142	1,380	1,165	892	505	281	175	141
MAX	934	2,057	2,502	6,290	3,404	4,299	3,243	4,020	2,785	1,655	801	551
(WY)	(2002)	(1980)	(2002)	(1937)	(1950)	(1945)	(1996)	(1983)	(1997)	(1979)	(1977)	(1996)
MIN	14.3	20.0	17.6	40.3	78.0	70.8	263	91.2	41.0	44.8	29.8	18.8
$(\mathbf{W}\mathbf{V})$	(1065)	(1064)	(1064)	(1077)	(1034)	(10/11)	(1034)	(1034)	(1036)	(1054)	(1064)	(1053)

MEAN MAX	137 934	374 2.057	686 2.502	1,051 6,290	1,142 3,404	1,380 4.299	1,165 3,243	892 4.020	505 2.785	281 1.655	175 801	141 551
(WY)	(2002)	(1980)	(2002)	(1937)	(1950)	(1945)	(1996)	(1983)	(1997)	(1979)	(1977)	(1996)
MIN	14.3	20.0	17.6	40.3	78.0	70.8	263	91.2	41.0	44.8	29.8	18.8
(WY)	(1965)	(1964)	(1964)	(1977)	(1934)	(1941)	(1934)	(1934)	(1936)	(1954)	(1964)	(1953)

BLUE RIVER BASIN 89

03303000 BLUE RIVER NEAR WHITE CLOUD, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	ENDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEARS 1932 - 2003		
ANNUAL TOTAL	313,630		269,324				
ANNUAL MEAN	859		738		659		
HIGHEST ANNUAL MEAN					1,199	1950	
LOWEST ANNUAL MEAN					140	1941	
HIGHEST DAILY MEAN	12,400	May 14	9,780	Feb 23	27,300	Apr 30, 1996	
LOWEST DAILY MEAN	14	Sep 12	29	Aug 29	9.6	Oct 17, 1964	
ANNUAL SEVEN-DAY MINIMUM	15	Sep 8	35	Aug 23	11	Oct 12, 1964	
MAXIMUM PEAK FLOW		•	11,100	Feb 23	29,400	Apr 30, 1996	
MAXIMUM PEAK STAGE			13.22	Feb 23	23.30	Apr 30, 1996	
ANNUAL RUNOFF (CFSM)	1.81		1.55		1.38	•	
ANNUAL RUNOFF (INCHES)	24.51		21.05		18.80		
10 PERCENT EXCEEDS	1,980		1,540		1,480		
50 PERCENT EXCEEDS	446		377		258		
90 PERCENT EXCEEDS	39		93		37		



(WY)

(1965)

(1964)

(1964)

(1964)

(1992)

(1990)

(2001)

(2001)

(1988)

(1968)

(1965)

(1964)

03303300 MIDDLE FORK ANDERSON RIVER AT BRISTOW, IN

LOCATION.--Lat 38°08'19", long 86°43'16", in NW \(^1/4\)SE \(^1/4\) sec. 27, T.4 S., R.3 W., Perry County, Hydrologic Unit 05140201, (BRISTOW, IN. quadrangle), on left bank at downstream side of bridge on State Highway 145 at Bristow, 2.0 mi downstream from Coon Branch, 6.0 mi upstream from Sulphur Fork Creek, and at mile 14.1.

DRAINAGE AREA.--39.8 mi².

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

REVISED RECORDS .-- WDR IN-72-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 395.00 ft above National Geodetic Vertical Datum of 1929.

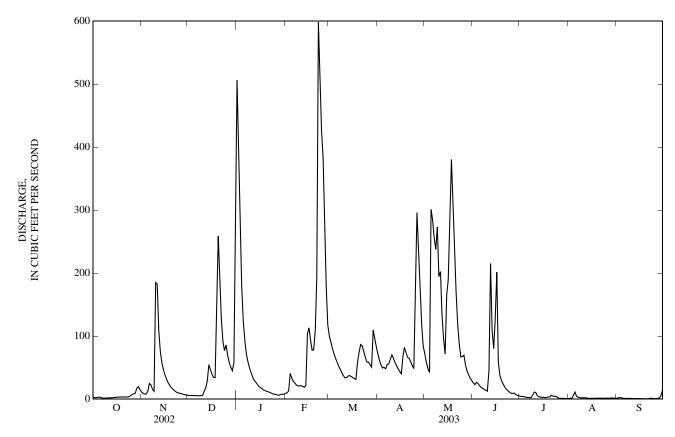
REMARKS.--Records good except for estimated daily discharges, and those below 1 ft³/s, which are poor. Flow regulated by U.S. Forest Service and Middle Fork Anderson River Conservancy District control structures beginning June 1967.

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 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES DAY OCT NOV DEC JAN **FEB** MAR APR MAY JUN JUL AUG SEP 3.9 6.0 506 8.9 100 72 72 26 4.6 0.95 1.3 11 2.4 9.2 356 10 62 58 23 1.3 2.5 2 6.0 91 44 27 2.5 3 2.2 8.0 49 5.8 274 13 e80 55 4.0 1.6 25 1.7 4 2.9 8.3 5.8 180 41 e72 49 42 3.6 6.2 5 301 2.1 34 51 3.0 3.5 13 5.7 124 65 11 1.3 5.5 92 6 2.3 25 28 58 48 284 19 2.7 4.5 1.2 1.9 23 5.5 71 26 52 55 256 17 2.4 3.2 1.2 8 1.7 16 5.5 59 22 47 56 238 16 2.5 2.5 1.2 9 5.7 50 21 42 63 273 6.9 2.2 1.2 13 2.1 10 1.9 185 5.7 42 21 37 70 194 13 11 1.1 11 2.1 182 12 35 21 34 202 45 10 2.4 1.0 64 2.1 21 34 109 18 30 58 134 215 5.3 2.1 0.95 12 29 27 19 37 3.8 13 76 53 95 110 1.5 0.95 2.5 57 55 24 22 37 48 0.95 72 80 3.1 1.4 14 2.7 47 47 20 104 36 44 127 2.8 1.3 0.95 15 165 40 34 40 190 3.1 39 18 113 201 3.1 0.89 16 14 33 17 3.4 32 35 17 93 68 283 59 2.4 1.4 0.83 2.8 37 18 3.4 26 34 14 77 31 82 380 1.4 0.72182 30 19 3.5 22 14 78 58 74 320 3.6 1.5 0.68 19 25 20 3.6 259 12 110 75 66 249 3.6 1.6 0.60 16 181 12 193 87 65 170 20 6.4 1.6 0.56 22 3.5 127 598 84 59 119 16 4.7 1.5 1.5 14 11 23 3.4 12 91 9.5 498 75 53 88 14 4.5 1.5 1.3 3.8 10 77 8.2 426 66 49 67 12 4.2 1.5 25 5.7 7.9 59 131 9.5 1.7 0.96 9.6 86 382 67 2.6 26 7.5 e9.070 7.4 296 59 296 70 9.1 1.3 1.6 0.87 27 55 237 9.7 1.2 8.4 e8.1 59 6.5 6.3 178 54 1.6 e1.2 28 9.3 51 51 45 7.6 176 1.4 1.8 e2.0e7.5 118 29 39 17 e6.9 45 7.4 ---109 118 6.3 1.3 1.9 e6.0 30 20 57 33 6.4 78 ---96 84 5.2 1.0 17 15 182 83 31 15 7.9 ---29 0.95 1.6 4,638 TOTAL 150.0 1,020.0 1,794.2 2,056.9 3,571.9 1,877 2,446 1,239.4 115.15 69.55 54.31 34.0 MEAN 4.84 57.9 128 60.5 81.5 150 41.3 3.71 2.24 66.4 1.81 MAX 20 185 259 506 598 109 296 380 215 11 11 15 5.2 0.95 0.95 5.5 0.56 MIN 1.6 6.4 6.3 8.9 31 40 29 **CFSM** 0.12 0.85 1.45 1.67 3.21 2.05 3.76 1.04 0.09 0.06 0.05 0.14 0.95 1.68 1.92 3.34 1.75 4.34 1.16 0.11 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2003, BY WATER YEAR (WY) 79.7 123 32.0 10.3 MEAN 9.66 37.3 74.8 98.3 110 78.9 16.5 11.2 MAX 63.7 194 224 223 245 393 312 405 190 141 162 78.8 (1979)(1979)(1978)(WY) (1980)(2002)(1982)(1989)(1964)(1972)(1983)(1979)(1982)MIN 0.0000.0000.0002.78 5.66 33.4 15.7 2.370.820.380.0130.000

$03303300\ \ \text{MIDDLE FORK ANDERSON RIVER AT BRISTOW, IN}{--} Continued$

SUMMARY STATISTICS	FOR 2002 CALE	NDAR YEAR	FOR 2003 WA	ΓER YEAR	WATER YEARS 1962 - 200		
ANNUAL TOTAL	23,414.51		19,032.41				
ANNUAL MEAN	64.1		52.1		56.5		
HIGHEST ANNUAL MEAN					122	1979	
LOWEST ANNUAL MEAN					15.2	1992	
HIGHEST DAILY MEAN	936	May 13	598	Feb 22	4,870	Mar 9, 1964	
LOWEST DAILY MEAN	0.00	Sep 5	0.56	Sep 21	0.00	Oct 2, 1961	
ANNUAL SEVEN-DAY MINIMUM	0.00	Sep 5	0.75	Sep 15	0.00	Oct 9, 1961	
MAXIMUM PEAK FLOW		•	875	Feb 22	6,360	Mar 9, 1964	
MAXIMUM PEAK STAGE			13.38	Feb 22	19.33	Mar 4, 1964	
ANNUAL RUNOFF (CFSM)	1.61		1.31		1.42		
ANNUAL RUNOFF (INCHES)	21.88		17.79		19.30		
10 PERCENT EXCEEDS	206		146		148		
50 PERCENT EXCEEDS	19		18		15		
90 PERCENT EXCEEDS	0.14		1.5		0.20		



CROOKED CREEK BASIN

03303400 CROOKED CREEK NEAR SANTA CLAUS, IN

LOCATION.--Lat 38°07'05", long 86°53'24", in $SE^{1}_{4}SE^{1}_{4}$ sec.31, T.4 S., R.4 W., Spencer County, Hydrologic Unit 05140201, (SANTA CLAUS, IN. quadrangle), on right bank at upstream side of bridge on county road, 1.1 mi east of State Highway 162, 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 October 2003 (discontinued).

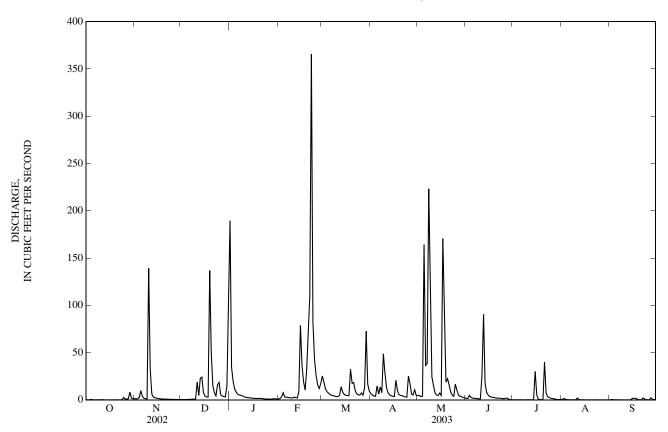
GAGE.--Water-stage recorder. Datum of gage is 403.00 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 30, 1995 datum of gage was 404.34 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for June 5 - Sept. 30, estimated daily discharges, and those below 2 ft3/s, which are poor.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES											
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
0.25 0.07 0.03 0.44 0.25	1.2 1.00 1.2 2.4 9.6	e0.32 e0.32 e0.30 e0.33 e0.50	189 34 19 11 8.0	e1.0 e1.3 e3.2 7.5 3.1	25 19 11 8.5 7.1	6.4 4.9 4.2 3.8 15	4.6 4.4 3.5 3.8 164	1.6 1.4 4.8 2.5 1.8	0.09 0.06 e0.05 e0.04 e0.04	0.27 1.1 1.1 0.20 0.16	e0.03 0.38 0.11 e0.04 e0.04
0.03 0.02 e0.05 e0.04 0.10	3.7 1.6 1.2 0.99 139	e0.40 e0.49 e0.69 e0.75 e0.80	5.8 5.1 4.8 e4.0 e3.2	e2.7 e2.5 e2.3 e2.1 e2.0	5.6 4.8 4.4 3.8 3.5	6.4 14 7.6 49 28	36 38 223 100 24	1.6 1.5 1.3 1.0	e0.04 e0.03 e0.03 0.05 0.10	0.09 0.07 0.04 e0.04 e0.04	e0.04 e0.03 e0.03 e0.03 e0.03
0.26 0.07 0.02 e0.02 e0.01	33 6.4 2.9 2.1 1.9	19 4.6 23 24 8.0	e2.7 e2.4 e2.3 e2.0 e1.8	e2.7 e2.3 e2.0 8.6 79	3.4 4.6 14 8.2 5.7	13 7.5 5.1 4.3 3.8	15 7.4 5.1 4.5 7.2	26 90 17 7.7 5.0	0.07 e0.06 e0.06 e0.05 30	1.9 0.21 e0.06 e0.05 e0.04	e0.03 e0.02 e0.02 e0.02 1.3
e0.01 e0.01 e0.01 e0.01 e0.05	1.5 1.2 0.93 0.88 0.77	3.9 3.1 3.0 137 50	e1.6 e1.5 e1.4 e1.5 e1.5	36 19 10 32 73	4.7 4.7 4.4 32 17	3.4 21 9.8 5.4 4.7	4.6 171 67 19 22	3.5 2.9 2.6 2.3 2.0	5.4 0.64 0.30 0.14 0.06	e0.03 e0.03 e0.03 e0.03 e0.02	1.8 1.5 1.1 0.10 e0.06
e0.03 e0.02 e0.02 e0.02 2.6	0.77 0.68 0.60 0.55 0.49	15 7.7 4.2 16 18	e1.4 e1.2 e0.98 e0.79 e0.90	110 366 83 43 26	18 9.6 6.4 5.2 5.0	4.4 3.6 3.1 2.8 25	16 8.4 5.1 3.7 16	1.8 1.7 1.6 1.4 1.0	40 7.2 3.3 2.3 1.7	e0.02 e0.03 e0.04 e0.03 e0.02	e0.03 2.0 0.79 0.16 e0.06
1.0 0.62 1.1 8.1 1.8 1.1	0.46 e0.43 e0.40 e0.35 e0.34	5.7 3.9 3.6 3.0 14 79	e0.75 e0.65 e0.86 e1.3 e1.0 e0.80	e16 e12 e17 	7.3 5.0 13 72 17 9.2	17 6.2 5.0 10 4.7	10 5.1 3.6 3.1 2.5 2.1	1.6 1.8 0.67 0.13 0.06	1.4 1.0 0.78 0.43 0.18 0.39	e0.02 e0.02 e0.02 e0.02 e0.03 e0.03	e0.05 2.2 0.60 0.12 e0.10
18.16 0.59 8.1 0.01 0.07 0.09	218.54 7.28 139 0.34 0.93 1.03	450.60 14.5 137 0.30 1.85 2.13	313.23 10.1 189 0.65 1.29 1.48	965.3 34.5 366 1.0 4.39 4.57	359.1 11.6 72 3.4 1.47 1.70	299.1 9.97 49 2.8 1.27 1.42	999.7 32.2 223 2.1 4.10 4.73	189.36 6.31 90 0.06 0.80 0.90	95.99 3.10 40 0.03 0.39 0.45	5.79 0.19 1.9 0.02 0.02 0.03	12.82 0.43 2.2 0.02 0.05 0.06
							`				
3.16 34.1 (2002) 0.000 (1988)	9.42 33.5 (1994) 0.067 (2000)	15.7 49.1 (1991) 0.51 (1977)	15.3 43.7 (1982) 0.058 (1977)	21.5 65.0 (2000) 1.12 (1992)	21.6 63.1 (1997) 5.35 (1990)	20.3 65.7 (1996) 2.27 (1976)	13.1 62.0 (1995) 0.17 (1988)	6.62 37.5 (1997) 0.000 (1988)	4.55 47.5 (1979) 0.001 (1974)	2.57 19.4 (1977) 0.000 (1983)	2.29 16.7 (1996) 0.000 (1970)
RY STATI	STICS		FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	YEAR	WATER	YEARS 19	70 - 2003
ANNUAL DAILY M SEVEN-I JM PEAK JM PEAK RUNOFF RUNOFF ENT EXCE	MEAN MEAN MEAN DAY MINIM FLOW STAGE (CFSM) (INCHES) EEDS EEDS	UM	919 ((1 24 34	1.2 0 May 0.00 Jun 0.00 Jun 1.80 1.45 4	26	36 1,93 1	66 Fel 0.01 Oc 0.01 Oc 0.01 May 1.37 May 18.59 22 2.0	t 15 t 13 y 8		0.00 O 0.00 Jn 100 A 10.95 O 1.43 19.50 22 1.7	2002 1992 pr 29, 1996 ct 1, 1969 un 28, 1970 pr 28, 1970 ct 23, 2001
	0.25 0.07 0.03 0.44 0.25 0.03 0.02 e0.05 e0.04 0.10 0.26 0.07 0.02 e0.02 e0.01 e0.01 e0.01 e0.01 e0.02 e0.02 e0.02 e0.02 e0.02 e0.02 e0.03 e0.02 e0.02 e0.09 e0.09 e0.00 e0.01	0.25	0.25	OCT NOV DEC JAN 0.25 1.2 e0.32 189 0.07 1.00 e0.32 34 0.03 1.2 e0.30 19 0.44 2.4 e0.33 11 0.25 9.6 e0.50 8.0 0.03 3.7 e0.40 5.8 0.02 1.6 e0.49 5.1 e0.05 1.2 e0.69 4.8 e0.04 0.99 e0.75 e4.0 0.10 139 e0.80 e3.2 0.26 33 19 e2.7 0.07 6.4 4.6 e2.4 0.02 2.9 23 e2.3 e0.02 2.1 24 e2.0 e0.01 1.9 8.0 e1.8 e0.01 1.5 3.9 e1.6 e0.01 1.5 3.9 e1.6 e0.01 1.2 3.1 e1.5 e0.01 0.93 3.0 e1.4 e0.01 0.88 137 e1.5 e0.01 0.88 137 e1.5 e0.05 0.77 50 e1.5 e0.03 0.77 15 e1.4 e0.05 0.77 50 e1.5 e0.03 0.77 15 e1.4 e0.01 0.88 137 e1.5 e0.05 0.77 50 e1.5 e0.03 0.77 15 e1.4 e0.01 0.88 137 e1.5 e0.05 0.77 50 e1.5 e1.5 e0.03 0.77 e1.2 e0.02 0.68 7.7 e1.2 e0.02 0.66 4.2 e0.98 e0.02 0.55 16 e0.79 2.6 0.49 18 e0.90 1.0 0.46 5.7 e0.75 0.62 e0.43 3.9 e0.65 1.1 e0.40 3.6 e0.86 8.1 e0.35 3.0 e1.3 1.8 e0.34 14 e1.0 1.1 e0.40 3.6 e0.86 8.1 e0.35 3.0 e1.3 1.8 e0.34 14 e1.0 1.1 e0.40 3.6 e0.86 8.1 e0.35 3.0 e1.3 1.8 e0.34 14 e1.0 1.1 e0.40 3.6 e0.86 8.1 e0.35 3.0 e1.3 1.8 e0.34 14 e1.0 1.1 e0.40 3.6 e0.86 8.1 e0.35 3.0 e1.3 1.8 e0.34 14 e1.0 1.1 e0.40 3.6 e0.86 8.1 e0.35 3.0 e1.3 1.8 e0.34 14 e1.0 1.1 e0.40 3.6 e0.86 8.1 e0.35 3.0 e1.3 1.8 e0.34 14 e1.0 1.1 e0.40 3.6 e0.86 8.1 e0.35 3.0 e1.3 1.8 e0.34 14 e1.0 1.1 e0.40 3.6 e0.86 8.1 e0.35 3.0 e1.3 1.8 e0.34 14 e1.0 1.1 e0.40 3.6 e0.86 8.1 e0.35 3.0 e1.3 1.8 e0.34 14 e1.0 1.1 e0.40 3.6 e0.86 8.1 e0.35 3.0 e1.3 1.8 e0.34 14 e1.0 1.1 e0.40 3.6 e0.86 8.1 e0.05 0.75 60.80 1.0 e0.07 0.93 1.85 1.29 0.00 0.067 0.51 0.058 (1988) (2000) (1977) (1977) RY STATISTICS FOR 2002 C AMEAN FANNUAL MEAN ANNUAL	OCT NOV DEC JAN FEB 0.25 1.2 e0.32 189 e1.0 0.07 1.00 e0.32 34 e1.3 0.03 1.2 e0.30 19 e3.2 0.44 2.4 e0.33 11 7.5 0.25 9.6 e0.50 8.0 3.1 0.03 3.7 e0.40 5.8 e2.7 0.02 1.6 e0.49 5.1 e2.5 e0.05 1.2 e0.69 4.8 e2.3 e0.04 0.99 e0.75 e4.0 e2.1 0.10 139 e0.80 e3.2 e2.0 0.26 33 19 e2.7 e2.7 0.07 6.4 4.6 e2.4 e2.3 0.02 2.9 23 e2.3 e2.0 e0.02 2.1 24 e2.0 8.6 e0.01 1.9 8.0 e1.8 79 e0.01 1.5 3.9 e1.6 36 e0.02 2.1 24 e2.0 8.6 e0.01 1.9 8.0 e1.8 79 e0.01 0.93 3.0 e1.4 10 e0.01 0.88 137 e1.5 19 e0.01 0.93 3.0 e1.4 10 e0.01 0.88 137 e1.5 32 e0.05 0.77 50 e1.5 73 e0.03 0.77 15 e1.4 110 e0.01 0.88 137 e1.5 32 e0.02 0.60 4.2 e0.98 83 e0.02 0.55 16 e0.79 43 2.6 0.49 18 e0.90 26 1.0 0.46 5.7 e0.75 e16 0.62 e0.43 3.9 e0.65 e12 1.1 e0.40 3.6 e0.86 e17 8.1 e0.35 3.0 e1.3 1.8 e0.34 14 e1.0 1.1 e0.40 3.6 e0.86 e17 8.1 e0.35 3.0 e1.3 1.8 e0.34 14 e1.0 1.8 e0.35 3.0 e1.3 1.8 e0.34 14 e1.0 1.8 e0.34 14 e1.0 1.8 e0.35 3.0 e1.3 1.8 e0.34 14.5 10.1 34.5 8.1 e0.35 3.0 e1.3 1.8 e0.34 14 e1.0 1.8 e0.05 e1.5 73 e0.07 e0.93 1.85 1.29 4.39 e0.09 1.03 2.13 1.48 4.57 eDAILY MEAN ANUAL MEAN PDAILY MEAN DATA FOR WATER YEARS 3.16 9.42 15.7 15.3 (2000) e1.991 (1991) (1982) (2000) e1.000 0.0067 0.51 0.058 1.12 eDAILY MEAN PDAILY MEAN PDAILY MEAN 919 May DAILY MEAN 1.80 ENDOFF (INCHES) 24.45 ENT EXCEEDS 34	OCT NOV DEC JAN FEB MAR 0.25 1.2 e0.32 189 e1.0 25 0.07 1.00 e0.32 34 e1.3 19 0.03 1.2 e0.30 19 e3.2 11 0.44 2.4 e0.33 11 7.5 8.5 0.25 9.6 e0.50 8.0 3.1 7.1 0.03 3.7 e0.40 5.8 e2.7 5.6 0.00 1.6 e0.49 5.1 e2.5 4.8 e0.05 1.2 e0.69 4.8 e2.3 4.4 e0.04 0.99 e0.75 e4.0 e2.1 3.8 e0.05 1.2 e0.69 4.8 e2.3 4.4 e0.04 0.99 e0.75 e4.0 e2.1 3.8 e0.05 1.2 e0.69 4.8 e2.3 4.4 e0.00 1.39 e0.80 e3.2 e2.0 3.5 e0.01 139 e0.80 e3.2 e2.0 3.5 e0.02 33 19 e2.7 e2.7 3.4 e0.02 2.1 24 e2.0 8.6 8.2 e0.02 2.1 24 e2.0 8.6 8.2 e0.01 1.9 8.0 e1.8 79 5.7 e0.01 1.5 3.9 e1.6 36 4.7 e0.01 1.2 3.1 e1.5 19 4.7 e0.01 0.93 3.0 e1.4 10 4.4 e0.01 0.93 3.0 e1.4 10 4.4 e0.01 0.93 3.0 e1.4 10 4.4 e0.01 0.88 137 e1.5 32 32 e0.05 0.77 50 e1.5 73 17 e0.03 0.77 15 e1.4 110 18 e0.02 0.68 7.7 e1.2 366 9.6 e0.02 0.60 4.2 e0.98 83 6.4 e0.02 0.60 4.2 e0.98 83 6.4 e0.02 0.55 16 e0.79 43 5.2 e0.02 0.60 4.2 e0.98 83 6.4 e0.02 0.55 16 e0.79 43 5.2 e0.02 0.60 4.2 e0.98 83 6.4 e0.02 0.55 16 e0.79 43 5.2 e0.02 0.60 4.2 e0.98 83 6.4 e0.02 0.55 16 e0.79 43 5.2 e0.02 0.65 1.0 3.4 1.1 e1.5 e1.5	OCT NOV DEC JAN FEB MAR APR 0.25 1.2 e0.32 189 e1.0 25 6.4 0.07 1.00 e0.32 34 e1.3 19 4.9 0.44 2.4 e0.33 11 7.5 8.5 3.8 0.25 9.6 e0.50 8.0 3.1 7.1 15 0.03 3.7 e0.40 5.8 e2.7 5.6 6.4 0.002 1.6 e0.49 5.1 e2.5 4.8 14 e0.05 1.2 e0.69 4.8 e2.3 4.4 7.6 e0.04 0.99 e0.75 e4.0 e2.1 3.8 49 0.10 139 e0.80 e3.2 e2.0 3.5 28 0.07 6.4 4.6 e2.4 e2.3 4.6 7.5 0.00 2.1 6 e0.49 5.1 e2.5 4.8 14 e0.05 1.2 e0.69 4.8 e2.3 4.4 7.6 e0.04 0.99 e0.75 e4.0 e2.1 3.8 49 0.10 139 e0.80 e3.2 e2.0 3.5 28 0.06 3.1 p e2.7 e2.7 3.4 13 e0.01 1.9 e0.80 e3.2 e2.0 3.5 28 0.00 2.1 24 e2.0 8.6 8.2 4.3 e0.01 1.9 8.0 e1.8 79 5.7 3.8 e0.01 1.9 8.0 e1.8 79 5.7 3.8 e0.01 1.2 3.1 e1.5 19 4.7 21 e0.01 1.2 3.1 e1.5 19 4.7 21 e0.01 0.93 3.0 e1.4 10 4.4 9.8 e0.01 0.93 3.0 e1.4 10 4.4 9.8 e0.01 0.88 137 e1.5 32 32 5.4 e0.02 0.68 7.7 50 e1.5 73 17 4.7 e0.02 0.68 7.7 50 e1.5 73 17 4.7 e0.02 0.68 7.7 50 e1.5 73 17 4.7 e0.02 0.69 4.2 e0.98 83 6.4 3.1 e0.01 0.88 137 e1.5 32 32 32 5.4 e0.02 0.60 4.2 e0.98 83 6.4 3.1 e0.01 0.88 137 e1.5 19 4.7 21 e0.02 0.66 5.7 e0.75 e1.6 7.3 17 e0.02 0.69 18 e0.99 43 5.2 2.8 e0.01 0.40 3.6 e0.99 43 5.2 2.8 e0.02 0.60 4.2 e0.98 83 6.4 3.1 e0.02 0.60 4.2 e0.98 83 6.4 3.1 e0.03 0.65 1.0 3.4 4.4 e0.02 0.69 18 e0.90 26 5.0 25 1.0 0.46 5.7 e0.75 e16 7.3 17 e1.1 e0.40 3.6 e0.86 e17 13 5.0 e0.62 e0.43 3.9 e0.65 e12 5.0 6.2 1.1 e0.40 3.6 e0.86 e17 13 5.0 e0.62 e0.43 3.9 e0.65 e12 5.0 6.2 1.1 e0.40 3.6 e0.86 e17 13 5.0 e0.01 0.34 1.3 1.48 4.57 1.70 1.42 INSTENCEND NOTHLY MEAN DATA FOR WATER YEARS 1970 - 2003, BY WATE ANNUAL MEAN FOR LIVERAN OOD Jun 26 RUNOFF (ICHES) EVENT EXCERDS 1.80 EVENT EXCERDS 1.90 EVENT EXCERDS 1.90 EVENT EXCERDS 1.90	OCT NOV DEC JAN FEB MAR APR MAY 0.25 1.2 e0.32 189 e1.0 25 6.4 4.6 0.07 1.00 e0.32 34 e1.3 19 4.9 4.4 0.26 1.2 e0.30 19 e3.2 11 4.2 3.5 0.25 9.6 e0.50 8.0 3.1 7.1 15 164 0.03 1.2 e0.30 19 e3.2 11 5.5 3.8 3.8 0.25 9.6 e0.50 8.0 3.1 7.1 15 164 0.03 3.7 e0.40 5.8 e2.7 5.6 6.4 36 0.02 1.6 e0.49 5.1 e2.5 4.8 14 38 e0.05 1.2 e0.69 4.8 e2.3 4.4 7.6 223 e0.04 10.99 e0.75 e4.0 e2.1 3.8 49 100 0.10 1.99 e0.80 e3.2 e2.0 3.5 28 24 0.26 33 19 e2.7 e2.7 3.4 13 15 0.07 6.4 4.6 e2.4 e2.3 4.6 7.5 7.4 0.00 2.9 23 e2.3 e2.0 14 5.1 5.1 e0.01 1.9 8.0 e1.8 79 5.7 3.8 7.2 e0.01 1.9 8.0 e1.8 79 5.7 3.8 7.2 e0.01 1.9 8.0 e1.8 79 5.7 3.8 7.2 e0.01 1.2 3.1 e1.5 19 4.7 21 171 e0.01 0.93 3.0 e1.4 10 4.4 9.8 67 e0.01 1.2 3.1 e1.5 19 4.7 21 171 e0.01 0.93 3.0 e1.4 10 4.4 9.8 67 e0.01 0.93 3.0 e1.4 10 4.4 9.8 67 e0.01 0.93 3.0 e1.5 19 4.7 22 e0.03 0.77 50 e1.5 73 17 4.7 22 e0.00 0.60 4.2 e0.98 83 6.4 3.1 5.1 e0.00 0.5 0.55 66 e0.79 43 5.2 2.2 8.3 3.7 2.6 0.49 18 e0.90 26 5.0 25 16 e0.00 0.5 0.55 16 e0.79 43 5.2 2.8 3.7 e0.00 0.60 4.2 e0.98 83 6.4 3.1 5.1 e0.00 0.5 0.55 16 e0.79 43 5.2 2.2 8.3 3.7 e0.00 0.60 0.42 e0.98 83 6.4 3.1 5.1 e0.00 0.55 16 e0.79 43 5.2 2.8 3.7 e0.00 0.60 0.55 16 e0.79 43 5.2 2.8 3.7 e0.00 0.60 0.55 16 e0.79 43 5.2 2.8 3.7 e0.00 0.55 16 e0.79 43 5.2 2.8 3.7 e0.00 0.55 16 e0.79 43 5.2 2.8 3.7 e0.00 0.00 0.06 0.3 1.85 1.29 4.39 1.47 1.27 4.10 e0.00 0.00 0.06 0.05 1.8 e0.06 1.3 1.48 4.57 1.70 1.42 4.7 e0.00 0.00 0.007 0.93 1.85 1.29 4.39 1.47 1.27 4.10 e0.00 0.00 0.007 0.93 1.85 1.29 4.39 1.47 1.27 4.10 e0.00 0.00 0.007 0.93 1.85 1.29 4.39 1.47 1.27 4.10 e0.00 0.00 0.007 0.93 1.85 1.29 4.39 1.47 1.27 4.10 e0.00 0.00 0.007 0.93 1.85 1.29 4.39 1.47 1.27 4.10 e0.00 0.00 0.007 0.93 1.85 1.29 4.39 1.47 1.27 4.10 e0.00 0.00 0.007 0.93 1.85 1.29 1.43 1.42 1.27 4.10 e0.00 0.00 0.007 0.93 1.85 1.29 1.29 1.99 1.99 e0.00 0.00 0.007 0.93 1.85 1.29 1.29 1.29 1	OCT	WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003	OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG

e Estimated

03303400 CROOKED CREEK NEAR SANTA CLAUS, IN—Continued



03322900 WABASH RIVER AT LINN GROVE, IN

LOCATION.--Lat 40°39'22", long 85°01'58", in $SE^{1}_{4}SE^{1}_{4}$ sec.34, T.26 N., R.13 E., Adams County, Hydrologic Unit 05120101, (LINN GROVE, IN quadrangle), 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.

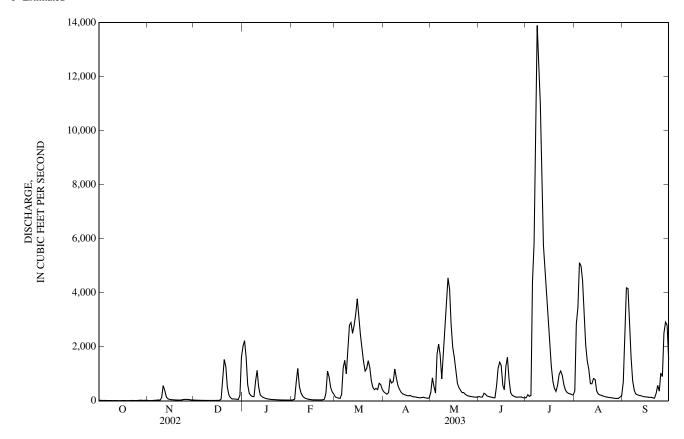
PERIOD OF RECORD.--September 1964 to current year.

REVISED RECORDS.--WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 808.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for estimated daily discharges, which are poor. Occasional regulation by Grand Lake, diversion from or into St. Marys River Basin, and into Miami and Erie Canal.

River	basiii, aiiu ii	no mianii ai	iu Erie Cana	aı.								
DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	23 18 15 14 14	16 13 9.4 10 18	28 24 e22 20 18	2,030 2,230 1,600 598 274	e30 e36 e60 e700 e1,200	e140 e120 e100 e90 e230	332 285 245 305 791	316 850 536 287 1,730	157 137 145 278 244	118 227 164 195 4,410	365 2,840 3,470 5,120 4,990	688 2,550 4,180 4,160 2,930
6 7 8 9 10	12 12 10 8.9 8.3	20 25 31 22 125	17 17 16 14 14	191 158 154 709 1,130	e540 e300 e180 e120 e88	e1,220 e1,500 e1,000 e1,800 e2,800	660 718 1,180 837 571	2,100 1,700 813 1,910 2,920	181 157 146 132 116	5,830 10,100 13,900 12,100 11,000	4,460 3,290 2,070 1,470 1,150	1,590 747 398 258 226
11 12 13 14 15	10 9.9 8.0 6.7 8.0	564 386 145 76 54	14 14 14 16 18	519 e220 e160 e120 e100	e70 e56 e47 e40 e35	e2,900 e2,500 e2,800 e3,200 3,780	424 319 260 230 209	3,760 4,550 4,130 2,820 1,980	114 555 1,200 1,430 1,310	7,490 5,760 4,920 4,000 2,990	634 634 827 792 375	201 191 174 155 148
16 17 18 19 20	11 11 10 9.6 9.8	44 40 37 33 29	18 16 66 853 1,530	e80 e70 e60 e50 e46	e37 e36 e36 e35 e35	3,140 2,450 1,970 1,450 1,100	191 186 199 160 149	1,630 1,110 645 487 388	581 410 1,290 1,610 801	2,090 1,300 726 466 349	255 215 208 178 159	142 133 129 129 107
21 22 23 24 25	11 14 12 11 12	28 29 35 52 54	1,260 504 209 117 67	e43 e41 e38 e36 e34	e38 e60 e280 e1,100 e880	1,190 1,480 1,240 735 494	144 134 118 112 119	301 307 247 204 177	302 209 171 147 134	568 976 1,100 949 604	144 133 124 116 110	99 275 570 359 1,030
26 27 28 29 30 31	16 21 23 16 19 17	55 50 40 33 33	e70 e66 e58 50 201 1,610	e33 e31 e30 e29 e28 e27	e500 e330 e250 	412 458 414 649 605 420	132 121 102 95 106	169 157 146 142 134 144	140 142 139 117 109	403 316 274 257 233 211	98 91 89 89 139	898 2,500 2,920 2,800 1,540
TOTAL MEAN MAX MIN CFSM IN.	401.2 12.9 23 6.7 0.03 0.03	2,106.4 70.2 564 9.4 0.15 0.17	6,961 225 1,610 14 0.50 0.57	10,869 351 2,230 27 0.77 0.89	7,119 254 1,200 30 0.56 0.58	42,387 1,367 3,780 90 3.02 3.48	9,434 314 1,180 95 0.69 0.77	36,790 1,187 4,550 134 2.62 3.02	12,604 420 1,610 109 0.93 1.04	94,026 3,033 13,900 118 6.70 7.72	34,830 1,124 5,120 89 2.48 2.86	32,227 1,074 4,180 99 2.37 2.65
STATIST	ICS OF MC	NTHLY MI	EAN DATA	FOR WATE	ER YEARS	1965 - 2003,	BY WATE	R YEAR (W	Y)			
MEAN MAX (WY) MIN (WY)	108 1,002 (2002) 6.84 (1965)	267 1,853 (1973) 7.52 (1966)	482 1,514 (1991) 9.25 (1977)	489 1,563 (1974) 6.19 (1977)	663 1,717 (1976) 86.0 (1978)	784 2,397 (1978) 80.5 (1981)	658 2,085 (1972) 68.2 (1971)	397 1,584 (1996) 25.9 (1988)	364 1,914 (1981) 8.92 (1988)	351 3,033 (2003) 11.7 (1965)	192 1,513 (1995) 8.20 (1966)	119 1,074 (2003) 7.64 (1967)
SUMMAI	RY STATIS	TICS		FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	EAR	WATER	YEARS 196	65 - 2003
ANNUAL HIGHEST LOWEST HIGHEST ANNUAL MAXIMU ANNUAL ANNUAL 10 PERCI 50 PERCI	ANNUAL TOTAL ANNUAL MEAN IIGHEST ANNUAL MEAN OWEST ANNUAL MEAN IIGHEST DAILY MEAN OWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (CFSM) O PERCENT EXCEEDS O PERCENT EXCEEDS						13,90 14,50 1 2,47	00 Jul 6.7 Oct 8.5 Oct 00 Jul 4.76 Jul 1.75 23.79 70		13,9 14,5 1,1	4.0 No 5.1 Oo 500 Ju 14.76 Ju 0.89 12.15 80	2003 1966 1l 8, 2003 v 1, 1999 ct 29, 1999 ll 8, 2003 ll 8, 2003
90 PERCI	ENT EXCE	ED2		10				16			12	



WABASH RIVER BASIN

03322985 WABASH RIVER NEAR BLUFFTON, IN

LOCATION.--Lat $40^{\circ}43'41''$, long $85^{\circ}08'12''$, in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 11, T.26 N., R.12 E., Wells County, Hydrologic Unit 05120101, (BLUFFTON, IN quadrangle), on left bank 300 ft downstream of bridge on County Road 450 East (State Highway 201), 0.95 mi south of State Highway 124, 2.5 mi southeast of Bluffton, and at mile 436.6.

DRAINAGE AREA.--508 mi².

PERIOD OF RECORD.--September 2001 to current year.

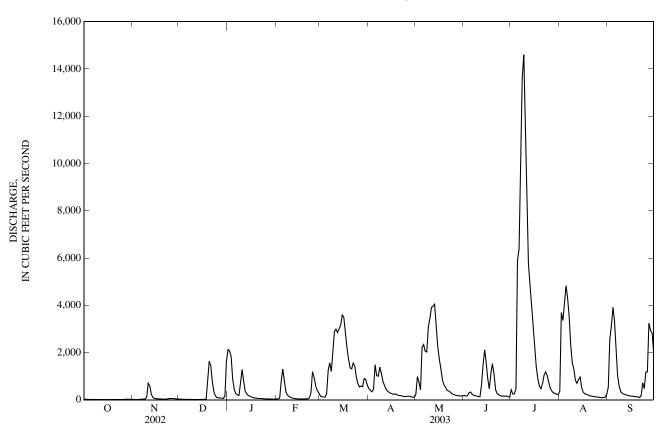
GAGE.--Water-stage recorder. Datum of gage is 795.42 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Occasional regulation by Grand Lake Reservoir, diversion from or into St. Mary's River Basin, and into Miami and Erie Canal.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	30 24 19 18	19 18 14 12 14	29 28 24 23 19	2,130 2,070 1,820 874 427	e33 e40 e64 e790 e1,300	e170 e140 e120 e110 e250	480 402 337 453 1,480	219 978 752 424 2,220	182 168 165 298 327	423 247 251 460 5,880	361 3,690 3,360 4,110 4,830	527 2,550 3,140 3,920 3,330
6 7 8 9 10	17 15 15 14 13	25 25 33 32 104	18 17 17 16 15	261 206 187 686 1,290	e800 e320 e200 e140 e100	e1,250 e1,560 e1,200 e2,000 e2,900	1,020 1,000 1,380 1,110 786	2,340 2,060 2,020 3,090 3,440	235 190 175 157 136	6,390 9,780 e13,600 e14,600 e11,400	4,320 3,530 2,340 1,580 1,290	2,000 994 566 340 275
11 12 13 14 15	12 14 14 13 11	696 579 238 101 62	14 15 15 16 18	e790 e360 e250 e180 e150	e78 e62 e52 e43 e36	3,000 2,850 3,000 3,170 3,590	611 465 364 314 279	3,910 3,950 4,040 3,210 2,260	128 654 1,490 2,110 1,560	e7,740 e5,740 e4,870 e3,980 e3,010	833 698 861 968 527	238 215 200 177 165
16 17 18 19 20	11 14 15 15 14	48 42 39 35 31	18 17 28 804 1,630	e120 e98 e82 e70 61	e38 e37 e37 36 38	3,490 2,800 2,220 1,720 1,350	253 231 252 211 186	1,740 1,320 838 640 521	868 469 1,130 1,530 1,070	e2,160 e1,390 e875 e585 e465	323 255 237 210 179	155 145 134 134 119
21 22 23 24 25	13 14 15 13	28 29 34 47 57	1,440 762 335 166 90	59 e58 e50 e45 e41	43 80 283 1,190 e960	1,310 1,550 1,430 959 685	178 167 147 135 141	400 375 329 262 223	428 270 209 176 153	e687 e1,050 e1,180 e1,030 721	160 144 133 126 118	98 176 716 475 1,170
26 27 28 29 30 31	16 19 26 22 21 21	54 53 45 39 35	e84 e82 e70 60 155 1,640	e38 e36 e34 e32 e31 e30	e600 e400 e300 	544 584 551 902 864 620	155 154 126 115 112	202 189 174 167 160 176	162 151 163 134 121	484 361 301 268 241 210	108 96 93 93 111 227	1,190 3,240 2,940 2,830 1,980
TOTAL MEAN MAX MIN CFSM IN.	509 16.4 30 11 0.03 0.04	2,588 86.3 696 12 0.17 0.19	7,665 247 1,640 14 0.49 0.56	12,566 405 2,130 30 0.80 0.92	8,100 289 1,300 33 0.57 0.59	46,889 1,513 3,590 110 2.98 3.43	13,044 435 1,480 112 0.86 0.96	42,629 1,375 4,040 160 2.71 3.12	15,009 500 2,110 121 0.98 1.10	100,379 3,238 14,600 210 6.37 7.35	35,911 1,158 4,830 93 2.28 2.63	34,139 1,138 3,920 98 2.24 2.50
				A FOR WAT				`				
MEAN MAX (WY) MIN (WY)	591 1,165 (2002) 16.4 (2003)	126 165 (2002) 86.3 (2003)	604 960 (2002) 247 (2003)	301 405 (2003) 197 (2002)	642 995 (2002) 289 (2003)	1,153 1,513 (2003) 794 (2002)	988 1,542 (2002) 435 (2003)	1,210 1,375 (2003) 1,044 (2002)	323 500 (2003) 146 (2002)	1,640 3,238 (2003) 42.2 (2002)	590 1,158 (2003) 22.0 (2002)	578 1,138 (2003) 17.7 (2002)
SUMMAR	RY STATIS	STICS		FOR 2002 C	CALENDAR	YEAR	FOR 200	3 WATER Y	/EAR	WATER	YEARS 199	4 - 2003
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL ANNUAL 10 PERCE	MEAN ANNUAL ANNUAL ANNUAL DAILY MI SEVEN-D IM PEAK F M PEAK S RUNOFF RUNOFF ENT EXCEI	MEAN EAN EAN AY MINIM TLOW TAGE (CFSM) (INCHES) EDS	IUM	1 (1,370	4 Apr 0 Apr 8.9 Sep 1 Sep 0.84 1.34	18	1 15,30 1 2 2,81	75 00 Ju 1 Oct 3 Oct 00 Ju 8.43 Ju 1.72 13.39	1 9 t 15 t 10 1 9	15,3 2,1	2.9 Sep 3.4 Sep 600 Ju 18.43 Ju 1.44 19.58 30	2003 2002 1 9, 2003 p 6, 2001 p 5, 2001 1 9, 2003 1 9, 2003
MAX (WY) MIN (WY) SUMMAR ANNUAL HIGHEST LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL ANNUAL ANNUAL LO PERCE 50 PERCE	1,165 (2002) 16.4 (2003) RY STATIS TOTAL MEAN ANNUAL ANNUAL ANNUAL Y MI DAILY MI SEVEN-D M PEAK F M PEAK F R RUNOFF	165 (2002) 86.3 (2003) STICS MEAN MEAN EAN EAN EAN EAN OUT EAGE (CFSM) (INCHES) EDS EDS	960 (2002) 247 (2003)	405 (2003) 197 (2002) FOR 2002 C 154,87 42-	995 (2002) 289 (2003) CALENDAR 1.8 4 0 Apr 8.9 Sep 1 Sep 0.84 1.34 0	1,513 (2003) 794 (2002) 2 YEAR	1,542 (2002) 435 (2003) FOR 200. 319,42 87 14,60 1 15,30 1	1,375 (2003) 1,044 (2002) 3 WATER Y 28 55 00 Ju 1 Occ 3 Occ 100 Ju 8.43 Ju 1.72 1.72 1.72 1.339	500 (2003) 146 (2002) (ZEAR	3,238 (2003) 42.2 (2002) WATER 78 5 14,6	(2003) 22.0 (2002) YEARS 199- 32 32 375 889 900 Ju 2.9 Sep 3.4 Sep 900 Ju 18.43 Ju 1.44 19.58	4 - 1 : p

e Estimated

03322985 WABASH RIVER NEAR BLUFFTON, IN—Continued



WABASH RIVER BASIN

03323500 WABASH RIVER AT HUNTINGTON, IN

LOCATION.--Lat 40°51'20", long 85°29'53", in SW ½ NE ½ sec.27, T.28 N., R.9 E., Huntington County, Hydrologic Unit 05120101, (MAJENICA, IN. quadrangle), 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 September 1976 (discharge). October 1976 to September 2001 (discharge provided by U.S. Army Corps of Engineers). October 2001 to current year (stage only).

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

GAGE.--Water-stage recorder. Datum of gage is 700.04 ft above National Geodetic Vertical Datum of 1929, (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.

COOPERATION.--Records of daily discharge provided by U.S. Army Corps of Engineers October 1976 to September 2001.

EXTREMES FOR PERIOD OF RECORD.--(October 2001 to current year) maximum gage height, 19.37 ft, July 11, 2003; minimum gage height, 9.08 ft, Aug. 7-12, 31, and Sept. 1-2, 2002. (January 1951 to September 1976) maximum discharge, 14,900 ft³/s, Feb. 10, 1959; maximum gage height, 23.20 ft, Feb. 10, 1959 (backwater from ice); minimum discharge, no flow, 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 gage height, 19.37 ft, July 11; minimum gage height, 9.18 ft, Dec. 17-18, and Apr. 24-26.

GAGE HEIGHT, FEET WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4	9.38 9.37 9.45 9.42	9.48 9.48 9.39 9.39	9.29 9.42 9.21 9.24	11.48 12.07 12.01 11.03	9.30 9.30 9.47 10.18	9.67 9.48 9.46 9.47	10.25 9.93 9.98 10.27	9.23 10.46 10.53 10.43	9.72 9.72 9.73 9.77	9.60 10.14 10.28 11.09	10.70 10.77 10.81 12.00	10.16 9.89 10.80 12.89
5	9.42	9.47	9.24	10.40	10.29	9.63	11.68	10.19	9.95	9.93	12.06	13.19
6	9.44	9.47	9.25	9.84	10.54	9.69	12.46	11.60	9.87	12.04	13.16	13.28
7	9.41	9.39	9.23	9.83	10.06	10.72	11.73	11.56	9.81	11.57	13.17	13.25
8	9.43	9.38	9.25	9.62	9.43	10.72	11.51	11.46	9.77	12.94	13.16	12.08
9	9.37	9.38	9.22	9.80	9.64	11.46	11.46	10.85	9.73	13.01	13.12	11.42
10	9.33	9.40	9.23	10.78	9.63	11.43	10.49	10.88	9.56	17.74	13.07	10.29
11	9.33	10.28	9.23	10.77	9.63	11.87	10.39	11.57	9.57	19.31	13.00	10.13
12	9.33	10.37	9.22	10.17	9.44	12.30	10.17	13.65	10.14	19.25	12.92	9.85
13	9.33	10.12	9.22	9.51	9.27	12.66	10.08	14.77	10.64	19.17	12.85	9.80
14	9.29	9.49	9.22	9.70	9.44	13.68	9.87	15.56	10.63	15.76	12.77	9.77
15	9.29	9.54	9.22	9.73	9.43	13.93	9.79	14.50	11.80	15.72	12.67	9.77
16	9.29	9.54	9.22	9.63	9.28	14.06	9.79	15.35	12.45	15.71	12.55	9.55
17	9.29	9.50	9.19	9.57	9.31	14.71	9.75	15.22	12.27	15.65	12.39	9.60
18	9.29	9.43	9.26	9.43	9.30	12.82	9.69	15.04	10.93	15.75	11.26	9.60
19	9.33	9.24	9.26	9.45	9.30	11.72	9.69	14.82	11.36	15.65	10.66	9.60
20	9.33	9.29	11.04	9.43	9.29	11.07	9.62	13.03	10.81	15.54	10.16	9.57
21	9.33	9.43	11.06	9.43	9.31	11.55	9.59	11.42	10.26	14.37	10.15	9.57
22	9.37	9.43	10.59	9.30	10.02	11.68	9.48	11.37	9.94	14.28	10.14	9.59
23	9.36	9.46	10.21	9.30	9.45	11.22	9.39	11.31	9.62	13.25	9.78	10.31
24	9.36	9.48	9.79	9.30	10.07	10.66	9.18	11.25	9.61	13.18	9.77	10.48
25	9.36	9.47	9.42	9.40	10.11	10.34	9.18	11.19	9.61	13.12	9.77	10.55
26	9.40	9.47	9.50	9.40	10.54	10.04	9.19	10.62	9.64	13.03	9.65	10.80
27	9.40	9.47	9.47	9.40	9.73	10.14	9.20	10.11	9.64	12.93	9.59	10.70
28	9.40	9.46	9.46	9.29	9.80	10.18	9.20	9.76	9.64	10.99	9.42	11.12
29	9.40	9.42	9.48	9.41		11.28	9.21	9.76	9.64	10.96	9.50	12.72
30	9.40	9.29	9.47	9.41		11.04	9.21	9.77	9.64	10.93	9.60	13.14
31	9.39		11.04	9.29		10.46		9.73		10.68	9.67	
MEAN	9.36	9.51	9.55	9.91	9.66	11.26	10.05	11.84	10.18	13.66	11.30	10.78
MAX	9.45	10.37	11.06	12.07	10.54	14.71	12.46	15.56	12.45	19.31	13.17	13.28
MIN	9.29	9.24	9.19	9.29	9.27	9.46	9.18	9.23	9.56	9.60	9.42	9.55

WTR YR 2003 MEAN 10.60 MAX 19.31 MIN 9.18

03323500 WABASH RIVER AT HUNTINGTON, IN—Continued

WATER-QUALITY RECORDS

INSTRUMENTATION.--Temperature recorder.

PERIOD OF RECORD .--

WATER TEMPERATURE.--October 1987 to September 1988. October 1989 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 29.2°C, July 31, 1999; minimum, -0.3°C, Feb. 5, 2003.

EXTREMES FOR CURRENT YEAR.-- WATER TEMPERATURE: Maximum, 26.9°C, Aug. 28, minimum, -0.1°C, Feb. 5, Mar. 10.

TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	
	(OCTOBER	t	N	OVEMBE	ER	D	ECEMBE	ER.	JANUARY			
1 2 3 4 5	 	 	 	10.8 10.6 10.0 10.0 9.4	9.2 8.5 8.4 9.3 8.8	10.0 9.4 9.3 9.6 9.2	6.1 5.9 5.6 5.1 5.5	4.9 4.3 0.6 4.5 4.5	5.4 5.0 4.4 4.8 4.9	4.5 4.2 3.2 2.1 2.5	3.8 3.2 2.0 1.6 1.7	4.3 3.8 2.5 1.8 2.2	
6 7 8 9	 18.4 18.0	 16.2 16.1	 17.3 17.1	9.4 10.6 10.8 11.1 13.8	8.8 8.5 8.9 9.6 10.9	9.2 9.4 9.8 10.3 11.7	5.7 5.6 6.5 6.3 6.1	4.4 4.3 4.7 4.7 5.1	4.9 5.0 5.5 5.4 5.6	3.9 4.0 5.1 5.0 5.0	2.4 2.9 3.2 1.5 2.0	3.0 3.2 4.1 4.2 3.3	
11 12 13 14 15	19.1 17.8 17.6 16.9 16.7	15.7 16.7 15.3 14.0 13.8	17.3 17.2 16.7 15.3 15.2	11.5 10.2 10.8 11.3 10.8	9.3 9.3 9.7 10.1 9.6	10.5 10.0 10.2 10.7 10.3	7.1 6.6 6.5 7.2 7.0	5.7 5.5 5.7 6.1 5.9	6.4 6.0 6.2 6.5 6.4	2.5 3.1 4.9 4.2 3.5	1.6 1.0 2.2 2.8 2.6	1.9 2.0 3.7 3.7 3.0	
16 17 18 19 20	15.9 14.2 14.1 15.4 14.8	14.0 13.0 13.2 13.5 12.1	14.8 13.7 13.7 14.4 13.3	9.6 9.4 9.4 10.3 9.8	9.1 8.5 8.0 8.6 8.7	9.3 8.9 8.6 9.4 9.3	6.8 5.6 8.3 8.4 8.0	5.4 4.6 5.6 5.9 2.6	6.0 5.0 6.7 7.8 4.5	3.9 4.5 3.6 3.1 4.6	2.8 2.7 2.4 2.5 3.1	3.3 3.6 3.0 2.9 3.6	
21 22 23 24 25	14.4 14.6 13.0 12.6 11.9	11.7 11.9 12.0 11.8 11.3	13.0 13.2 12.6 12.2 11.4	9.3 8.5 8.6 8.5 7.9	8.2 7.5 7.1 6.9 6.9	8.7 8.0 7.7 7.6 7.4	3.4 4.4 3.8 3.6 4.6	3.1 3.3 2.7 2.6 2.6	3.2 3.7 3.1 3.1 3.8	4.1 4.6 4.4 4.0 4.6	3.3 3.1 3.8 3.5 3.3	3.8 3.8 4.1 3.7 3.9	
26 27 28 29 30 31	12.1 12.8 13.1 11.6 11.5 11.7	11.4 11.4 11.1 10.3 10.1 10.0	11.8 12.0 12.0 10.7 10.7 10.8	7.5 7.2 7.1 7.4 7.4	6.1 5.4 5.4 5.2 5.8	6.9 6.4 5.9 6.2 6.4	4.3 4.6 4.8 5.3 6.6 6.6	3.6 3.4 3.7 4.0 4.0 1.5	3.9 3.9 4.2 4.4 5.2 4.2	4.4 4.3 4.6 4.4 4.4 4.5	3.9 4.1 3.9 4.0 3.8 3.8	4.2 4.2 4.3 4.2 4.1 4.2	
MONTH				13.8	5.2	8.9	8.4	0.6	5.0	5.1	1.0	3.5	

03323500 WABASH RIVER AT HUNTINGTON, IN—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN FEBRUARY	MEAN Y	MAX	MIN MARCH	MEAN	MAX	MIN APRIL	MEAN	MAX	MIN MAY	MEAN
1 2 3 4 5	4.6 5.8 5.3 5.2 2.5	4.2 4.5 4.7 0.3 -0.1	4.4 4.9 5.0 3.2 1.9	3.6 4.5 3.9 5.2 5.0	2.5 3.1 1.8 3.3 1.4	3.0 3.5 3.4 4.2 3.9	10.2 14.0 15.8 14.4 11.0	8.0 10.1 12.2 9.5 8.3	9.3 12.1 14.0 13.3 9.9	17.4 16.0 17.0 16.9 17.6	15.5 14.5 15.6 15.8 13.4	16.4 15.3 16.2 16.3 15.7
6 7 8 9 10	2.0 3.3 4.2 3.9 4.0	0.2 1.0 2.1 2.4 3.1	1.7 2.2 3.1 3.1 3.4	5.0 3.1 2.3 1.6 1.3	3.0 0.1 1.3 0.0 -0.1	3.7 1.3 1.7 1.2 0.7	8.3 6.6 6.0 6.2 8.5	6.6 5.9 5.2 5.2 5.7	7.5 6.2 5.8 5.7 7.0	16.2 17.1 16.1 16.7 16.0	14.3 15.3 15.5 14.6 15.3	15.2 16.2 15.9 15.8 15.5
11 12 13 14 15	3.8 4.5 4.7 4.2 4.1	2.8 2.3 1.8 1.7 3.3	3.2 3.4 3.0 3.7 3.7	0.9 0.7 0.6 0.8 1.6	0.0 0.2 0.4 0.0 0.8	0.6 0.5 0.5 0.5 1.1	9.3 11.4 12.4 13.9 15.5	7.0 7.8 9.3 10.8 11.9	8.0 9.4 10.7 12.1 13.4	15.8 16.0 16.2 16.4 16.3	15.1 15.3 15.6 16.0 15.9	15.3 15.5 15.9 16.3 16.1
16 17 18 19 20	4.4 4.4 4.5 6.1 6.7	2.7 3.3 3.9 4.4 3.9	3.5 4.0 4.2 5.0 5.3	3.1 5.7 7.5 7.7 9.0	1.6 3.1 5.7 6.6 7.3	2.3 4.3 6.6 7.1 7.9	15.9 14.0 14.8 16.2 16.1	13.0 12.5 12.5 12.4 13.8	14.1 13.1 13.4 14.0 14.7	16.0 16.3 16.4 16.4 16.1	15.8 15.9 16.1 16.1 15.7	15.9 16.1 16.2 16.2 15.9
21 22 23 24 25	5.7 6.1 5.6 5.0 3.0	4.3 0.0 0.2 2.1 1.9	5.0 4.5 3.0 3.3 2.2	9.2 8.6 9.5 10.9 11.2	8.4 7.5 7.1 7.6 10.0	8.7 7.9 8.1 9.0 10.5	14.4 14.5 16.8 13.5 13.0	13.3 12.5 11.4 11.4 11.9	13.9 13.4 13.7 12.6 12.3	16.7 16.9 16.7 16.8 17.2	15.7 15.8 16.0 16.0 16.5	16.1 16.3 16.3 16.4 16.8
26 27 28 29 30 31	2.4 4.3 3.8 	0.0 1.3 0.0	1.6 2.7 2.8 	12.0 13.0 12.8 11.7 8.3 8.1	10.1 10.9 11.3 8.3 7.0 7.4	10.8 11.7 12.1 10.4 7.5 7.8	15.8 16.8 17.0 17.8 17.2	11.3 12.8 13.9 14.7 15.0	13.5 14.7 15.5 16.2 16.1	17.4 17.8 17.6 19.2 18.2 18.0	16.5 16.2 16.1 16.2 16.2 16.7	16.8 17.0 16.8 17.3 17.1 17.3
MONTH	6.7	-0.1	3.5	13.0	-0.1	5.2	17.8	5.2	11.9	19.2	13.4	16.2
		JUNE			JULY			AUGUST			ЕРТЕМВІ	ER
1 2 3 4 5	19.8 19.3 17.7 17.7 19.1	JUNE 16.3 16.4 17.0 16.8 16.4	17.7 17.7 17.4 17.3 17.5	25.3 24.6 24.7 24.7 21.7		22.9 23.1 23.5 23.3 20.3				21.6 21.1 21.0 21.1 21.1	18.4 19.6 19.3 19.5 20.2	
1 2 3 4	19.3 17.7 17.7	16.3 16.4 17.0 16.8	17.7 17.4 17.3	24.6 24.7 24.7	JULY 21.3 21.7 22.7 20.6	22.9 23.1 23.5 23.3	24.4 24.3 23.3 23.4	AUGUST 22.5 23.0 22.0 21.9	23.5 23.6 22.8 22.3	21.6 21.1 21.0 21.1	18.4 19.6 19.3 19.5	20.6 20.6 19.9 20.1
1 2 3 4 5 6 7 8 9	19.3 17.7 17.7 19.1 18.9 19.3 18.1 19.3	16.3 16.4 17.0 16.8 16.4 16.8 17.1 16.8 16.6	17.7 17.4 17.3 17.5 17.6 17.9 17.3 17.8	24.6 24.7 24.7 21.7 23.0 22.2 23.3 23.0	JULY 21.3 21.7 22.7 20.6 19.5 19.1 20.6 21.8	22.9 23.1 23.5 23.3 20.3 20.8 21.5 22.4	24.4 24.3 23.3 23.4 22.8 23.6 22.9 23.0	AUGUST 22.5 23.0 22.0 21.9 22.2 22.4 22.6	23.5 23.6 22.8 22.3 22.5 22.6 22.7 22.8 23.0	21.6 21.1 21.0 21.1 21.1 21.2 21.1 21.0 21.7	18.4 19.6 19.3 19.5 20.2 20.5 20.6 20.6 20.6	20.6 20.6 19.9 20.1 20.7 20.9 20.9 20.8 21.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14	19.3 17.7 17.7 19.1 18.9 19.3 18.1 19.3 18.8 20.1 19.2 21.3 19.6	16.3 16.4 17.0 16.8 16.4 16.8 17.1 16.8 17.2 17.9 16.8 18.9 18.8	17.7 17.4 17.3 17.5 17.6 17.9 17.3 17.8 17.9 18.8 18.3 19.7 19.2	24.6 24.7 24.7 21.7 23.0 22.2 23.3 23.0 23.9 24.4 24.7 24.8 24.9	JULY 21.3 21.7 22.7 20.6 19.5 19.1 20.6 21.8 22.7 22.9 23.4 24.4 24.6 24.0	22.9 23.1 23.5 23.3 20.3 20.8 21.5 22.4 22.8 23.3 24.1 24.6 24.7 24.4	24.4 24.3 23.3 23.4 22.8 23.6 22.9 23.0 23.2 23.3 23.4 23.9 24.0 23.9	AUGUST 22.5 23.0 22.0 21.9 22.2 22.4 22.6 22.7 22.7 22.9 23.1 23.3 23.2 23.4	23.5 23.6 22.8 22.3 22.5 22.6 22.7 22.8 23.0 23.1 23.3 23.5 23.6 23.7	21.6 21.1 21.0 21.1 21.1 21.2 21.1 21.0 21.7 21.5 21.6 22.3 22.4 21.6	18.4 19.6 19.3 19.5 20.2 20.5 20.6 20.6 20.6 20.2 20.2 20.2 20.2 20.1	20.6 20.6 20.6 19.9 20.1 20.7 20.9 20.8 21.3 21.0 20.7 21.0 20.9 20.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	19.3 17.7 17.7 19.1 18.9 19.3 18.1 19.3 18.8 20.1 19.2 21.3 19.6 20.5 21.2 21.4 21.3 22.3	16.3 16.4 17.0 16.8 16.4 16.8 17.1 16.8 16.6 17.2 17.9 16.8 18.9 18.8 18.5 20.1 20.7 20.5 20.5	17.7 17.4 17.3 17.5 17.6 17.6 17.9 17.3 17.8 17.9 18.8 18.3 19.7 19.2 19.7 20.7 21.0 20.9 21.4	24.6 24.7 24.7 21.7 23.0 22.2 23.3 23.0 23.9 24.4 24.7 24.8 24.9 24.0 24.1 24.1 24.1 24.3	JULY 21.3 21.7 22.7 20.6 19.5 19.1 20.6 21.8 22.7 22.9 23.4 24.4 24.6 24.0 23.9 23.8 23.8 24.0 24.0	22.9 23.1 23.5 23.3 20.3 20.8 21.5 22.4 22.8 23.3 24.1 24.6 24.7 24.4 24.0 23.9 24.0 24.0 24.2	24.4 24.3 23.3 23.4 22.8 23.6 22.9 23.0 23.2 23.3 23.4 23.9 24.0 23.9 24.0 23.9 24.0 24.1 25.2 25.2 24.8	AUGUST 22.5 23.0 22.0 21.9 22.2 22.4 22.6 22.7 22.7 22.9 23.1 23.3 23.2 23.4 23.6 23.8 24.1 24.2 23.8	23.5 23.6 22.8 22.3 22.5 22.6 22.7 22.8 23.0 23.1 23.3 23.5 23.6 23.7 23.8 24.0 24.8 24.6 24.3	21.6 21.1 21.0 21.1 21.1 21.2 21.1 21.0 21.7 21.5 21.6 22.3 22.4 21.6 21.7 23.0 22.9 23.2 20.7	18.4 19.6 19.3 19.5 20.2 20.5 20.6 20.6 20.6 20.2 20.2 20.2 20.0 20.1 19.9 19.6 19.5	20.6 20.6 19.9 20.1 20.7 20.9 20.8 21.3 21.0 20.7 21.0 20.9 20.6 20.6 20.9 20.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	19.3 17.7 17.7 19.1 18.9 19.3 18.1 19.3 18.8 20.1 19.2 21.3 22.3 22.3 22.3 22.3 22.3 22.0 22.5 23.3 23.2	16.3 16.4 17.0 16.8 16.4 16.8 17.1 16.8 17.2 17.9 16.8 18.9 18.8 18.5 20.1 20.7 20.5 21.0 20.3 19.8 19.5 19.2	17.7 17.4 17.3 17.5 17.6 17.9 17.3 17.8 17.9 18.8 18.3 19.7 19.2 19.7 20.7 21.0 20.9 21.4 21.6 21.2 20.9 21.0 20.8	24.6 24.7 21.7 21.7 23.0 22.2 23.3 23.0 23.9 24.4 24.7 24.8 24.9 24.0 24.1 24.1 24.3 24.3 24.3 24.3	JULY 21.3 21.7 22.7 20.6 19.5 19.1 20.6 21.8 22.7 22.9 23.4 24.4 24.6 24.0 23.9 23.8 24.0 24.0 24.0 24.1 24.0 23.9 23.7	22.9 23.1 23.5 23.3 20.3 20.8 21.5 22.4 22.8 23.3 24.1 24.6 24.7 24.4 24.0 23.9 24.0 24.2 24.2 24.2 24.2 24.2	24.4 24.3 23.3 23.4 22.8 23.6 22.9 23.0 23.2 23.3 23.4 23.9 24.0 23.9 24.0 25.2 25.2 25.2 25.2 25.8	AUGUST 22.5 23.0 22.0 21.9 22.2 22.4 22.6 22.7 22.7 22.9 23.1 23.3 23.2 23.4 23.6 23.8 24.1 24.2 23.8 23.5 23.5 22.4 22.9 22.8	23.5 23.6 22.8 22.3 22.5 22.6 22.7 22.8 23.0 23.1 23.3 23.5 23.6 23.7 23.8 24.0 24.8 24.2 24.2 24.2 24.2 24.3	21.6 21.1 21.0 21.1 21.1 21.2 21.1 21.0 21.7 21.5 21.6 22.3 22.4 21.6 21.7 23.0 22.9 23.2 20.7 22.3 22.0 20.0 20.8 20.2	18.4 19.6 19.3 19.5 20.2 20.5 20.6 20.6 20.2 20.2 20.2 20.0 20.1 19.9 19.5 19.5 18.9 18.6 18.1 18.5 18.4	20.6 20.6 19.9 20.1 20.7 20.9 20.8 21.3 21.0 20.7 21.0 20.6 20.6 20.6 20.8 21.1 20.2 20.3 19.9 19.2 19.6 19.5

03324000 LITTLE RIVER NEAR HUNTINGTON, IN

LOCATION.--Lat 40°54'14", long 85°24'22", in NE\(^1/_4\)NW\(^1/_4\) sec.9, T.28 N., R.10 E., Huntington County, Hydrologic Unit 05120101, (HUNTINGTON, IN. quadrangle), on right bank on upstream side of former highway bridge, 0.5 mi upstream of County Road 200 East bridge, 5 mi east of Huntington, and at mile 7.5.

DRAINAGE AREA.--263 mi².

(WY)

(1963)

(1965)

(1964)

(1977)

(1964)

(1981)

(1946)

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 National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1948, nonrecording gage 4 mi downstream at datum 8.79 ft lower, and Oct. 1, 1948, to Sept. 5, 1950, nonrecording gage at present site and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. During periods of extreme high water in the St. Marys River, some water leaves the St. Marys River Basin through Junk Ditch and flows into Little River Basin via Graham McCulloch Ditch.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES APR DAY OCT NOV DEC JUN JUL AUG SEP JAN **FEB** MAR MAY e34 e33 81 38 86 686 23 220 227 135 21 21 e38 e33 61 53 1.250 1,670 e32 3 20 23 22 117 55 1.250 989 110 68 162 65 22 20 24 651 e32 399 80 87 57 738 450 72 5 29 25 19 57 494 e45 2,630 1,930 74 1,430 779 253 32 51 2,010 1.240 6 28 2.1 311 e72 1.860 61 310 163 e70 1.130 3,390 119 22 33 2.1 940 182 7 42 188 57 21 19 57 8 30 2 090 3,740 46 127 93 e110 e80 1,050 9 3,150 19 2.7 110 e80 e560 597 60 3.500 130 76 10 20 56 21 258 e68 e430 416 3,730 53 2.610 101 67 1,610 11 18 401 20 e130 e58 e340 308 3,040 52 80 59 12 18 134 20 e90 e50 e290 225 2,220 193 740 74 52 13 19 55 20 e70 e42 1,190 172 1,130 547 449 69 50 19 35 e58 e37 857 139 578 1,730 310 66 49 28 18 e50 694 125 1,220 744 241 63 112 15 18 e33 16 18 24 17 e45 e31 725 115 736 318 203 57 94 25 18 e40 e32 645 100 444 202 56 64 17 18 166 22 17 e33 514 320 184 54 53 18 18 e38 89 142 21 50 47 29 e38 e35 381 81 123 122 19 21 238 29 $\overline{22}$ 47 103 20 161 e39 e35 386 76 242 91 44 21 22 21 73 233 74 657 45 41 136 e38 e38 834 22 23 21 25 62 e35 e70 515 69 161 66 1,250 45 296 20 35 e36 e33 e180 309 63 132 59 964 47 503 24 19 33 e35 e31 e130 216 58 114 52 499 43 250 25 21 27 e37 e29 59 102 48 274 38 868 e90 169 37 24 57 26 e32 e30 e70 135 67 88 47 173 524 27 43 23 79 47 129 203 e30 e28 e52 111 61 2,240 28 29 21 e26 e29 73 45 1,450 e41 117 53 243 82 29 23 20 e23 e31 50 76 45 68 625 1.420 165 ---23 26 30 21 e32 757 48 71 44 112 128 366 ---24 510 403 82 99 79 31 e31 697 TOTAL 1,500 2,484 3,098 12,396 25,616 6,404 12,353 1,315 10,794 5,367 24,764 MEAN 22.5 43.8 48.4 80.1 111 400 360 826 179 799 207 412 43 510 MAX 401 573 651 1,420 2,630 3,730 1.730 3,740 1.250 2,240 MIN 18 20 17 28 31 32 48 55 44 38 38 41 0.30 0.09 0.18 0.42 0.79 **CFSM** 0.17 1.52 1.37 3.14 0.68 3.04 1.57 IN. 0.10 0.19 0.21 0.35 0.44 1.75 1.53 3.62 0.76 3.50 0.91 1.75 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2003, BY WATER YEAR (WY) MEAN 95.3 157 271 319 395 474 419 254 241 129 67.1 64.5 1.137 1,010 1,693 1,164 968 799 MAX 906 1.765 1.396 826 501 414 (1992) (2002)(1993)(1967)(1950) (1959) (1982)(1957)(2000)(2003) (1958) (2003)(WY) MIN 5.72 10.2 8.93 17.5 90.7 15.9 7.76 4.22 6.25 40.3 35.2 22.3

(1988)

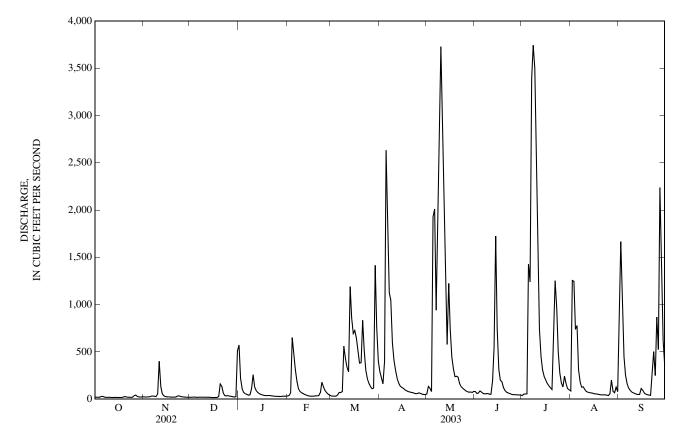
(1962)

(1963)

(1963)

(1962)

SUMMARY STATISTICS	FOR 2002 CALE	ENDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEARS 1945 - 2003		
ANNUAL TOTAL	80,158		106,788				
ANNUAL MEAN	220		293		240		
HIGHEST ANNUAL MEAN					450	1950	
LOWEST ANNUAL MEAN					67.0	1954	
HIGHEST DAILY MEAN	3,230	Feb 1	3,740	Jul 8	5,610	Mar 14, 1982	
LOWEST DAILY MEAN	17	Dec 16	17	Dec 16	1.1	Oct 8, 1946	
ANNUAL SEVEN-DAY MINIMUM	18	Oct 11	18	Oct 11	1.8	Oct 7, 1946	
MAXIMUM PEAK FLOW			3,860	May 10	5,990	Jan 4, 1950	
MAXIMUM PEAK STAGE			15.93	May 10	19.50	Feb 25, 1985	
ANNUAL RUNOFF (CFSM)	0.84		1.11	•	0.91		
ANNUAL RUNOFF (INCHES)	11.34		15.10		12.37		
10 PERCENT EXCEEDS	570		766		600		
50 PERCENT EXCEEDS	62		68		69		
90 PERCENT EXCEEDS	20		21		15		



03324300 SALAMONIE RIVER NEAR WARREN, IN

LOCATION.--Lat $40^{\circ}42^{\circ}45^{\circ}$, long $85^{\circ}27^{\circ}13^{\circ}$, in $SE^{1}_{/4}SE^{1}_{/4}$ sec.12, T.26 N., R.9 E., Huntington County, Hydrologic Unit 05120102, (WARREN, IN quadrangle), on right bank at downstream side of bridge on County Road 800 South, 0.4 mi downstream from Detamore Ditch, 0.4 mi downstream from Interstate 69, 0.8 mi upstream from concrete and stone dam, 2.4 mi northwest of Warren, and at mile 30.0.

DRAINAGE AREA.--425 mi².

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

REVISED RECORDS.--WSP 2109: Drainage area.

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

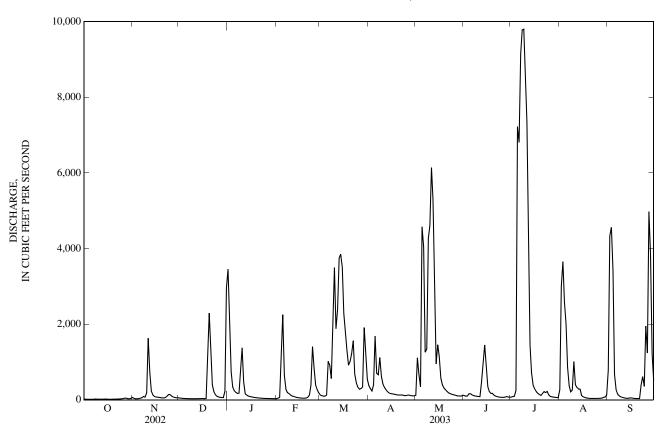
REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	18 16 15 15	64 37 27 29 33	49 44 38 36 e34	3,450 2,120 747 343 240	e30 41 67 e1,200 e2,250	e125 e110 e100 e95 e124	377 293 233 397 1,690	119 1,110 676 341 4,580	113 96 104 161 162	71 88 95 248 7,230	266 3,000 3,650 2,580 2,010	787 4,340 4,560 3,420 672
6 7 8 9 10	14 15 21 20 18	45 54 89 69 180	e32 e31 e30 30 30	196 170 175 809 1,380	e650 e275 e190 e165 e125	e1,020 e920 e560 e2,250 e3,500	701 661 1,120 625 422	4,050 1,260 1,340 4,270 4,610	128 109 102 94 86	6,810 9,140 9,780 9,800 8,530	870 374 211 259 1,010	267 152 105 79 65
11 12 13 14 15	17 17 16 18 20	1,630 728 234 128 89	30 30 32 32 33	480 157 e124 e100 e89	e100 e89 e75 e63 e55	e1,880 e2,380 e3,750 e3,850 3,510	325 267 214 181 165	6,140 5,290 3,660 950 1,450	86 480 973 1,450 883	7,350 4,840 1,440 710 382	398 325 287 282 112	54 45 41 41 53
16 17 18 19 20	17 15 15 18 18	73 69 65 58 51	33 30 36 971 2,290	e78 e70 e62 e57 e52	e50 e45 45 45 49	2,290 1,820 1,320 915 1,010	157 151 141 131 126	1,150 574 393 313 266	350 219 169 171 123	287 219 170 140 117	79 62 51 44 38	49 42 37 34 34
21 22 23 24 25	19 20 23 23 28	50 59 93 141 138	1,340 394 208 133 90	e47 e45 e41 e38 e36	65 124 383 1,410 825	1,220 1,560 676 443 337	127 129 121 109 112	221 183 162 146 134	97 84 75 70 65	166 217 191 222 125	36 38 37 36 38	34 403 612 355 1,950
26 27 28 29 30 31	31 44 45 28 29 38	97 74 62 55 55	e74 e65 e62 60 225 2,960	e35 e33 e33 e32 e31	393 266 185 	279 297 340 1,910 1,200 546	127 122 111 106 104	124 112 102 103 97 122	65 69 85 77 70	90 80 72 66 63 55	38 42 44 65 75 127	1,240 4,970 3,850 1,210 521
TOTAL MEAN MAX MIN CFSM IN.	666 21.5 45 14 0.05 0.06	4,576 153 1,630 27 0.36 0.40	9,482 306 2,960 30 0.72 0.83	11,301 365 3,450 31 0.86 0.99	9,260 331 2,250 30 0.78 0.81	40,337 1,301 3,850 95 3.06 3.53	9,545 318 1,690 104 0.75 0.84	44,048 1,421 6,140 97 3.34 3.86	6,816 227 1,450 65 0.53 0.60	68,794 2,219 9,800 55 5.22 6.02	16,484 532 3,650 36 1.25 1.44	30,022 1,001 4,970 34 2.35 2.63
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1958 - 2003.	BY WATE	R YEAR (W	YY)			
MEAN MAX (WY) MIN (WY)	112 1,486 (2002) 8.13 (1964)	297 1,794 (1993) 13.1 (2000)	472 1,685 (1991) 11.4 (1977)	484 1,724 (1974) 6.12 (1977)	631 1,906 (1976) 19.2 (1964)	846 2,616 (1978) 103 (1981)	701 2,214 (1964) 74.5 (1976)	405 1,421 (2003) 32.8 (1988)	363 2,312 (1958) 16.7 (1988)	279 2,219 (2003) 23.8 (1967)	149 1,363 (1998) 11.8 (1965)	112 1,001 (2003) 9.22 (1963)
SUMMA	RY STATIS	STICS		FOR 2002 C	CALENDAR	YEAR	FOR 200	3 WATER Y	YEAR	WATER	YEARS 195	8 - 2003
ANNUAL HIGHES' LOWEST HIGHES' LOWEST ANNUAL MAXIMI MAXIMI ANNUAL ANNUAL	ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS				FOR 2002 CALENDAR YEAR 138,525 380 6,290 Mar 31 14 Oct 6 15 Oct 1			251,331 689 9,800 Jul 9 14 Oct 6 15 Oct 1 10,400 Jul 7 14.96 Jul 8 1.62 22.00			5.1 Ja 5.9 De 00 Au 17.05 Fe 0.95 12.88	2003 1966 n 23, 1999 n 2, 1977 c 29, 1976 g 5, 1998 b 10, 1959
50 PERC	ENT EXCE ENT EXCE ENT EXCE	EDS		94' 7' 19	3			70 22 31			000 93 18	

e Estimated

03324300 SALAMONIE RIVER NEAR WARREN, IN—Continued



03324500 SALAMONIE RIVER AT DORA, IN

LOCATION.--Lat 40°48'42", long 85°41'02", in NE¹/₄NE¹/₄ sec.12, T.27 N., R.7 E., Wabash County, Hydrologic Unit 05120102, (LAGRO, IN. quadrangle), 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 September 1976 (discharge). October 1976 to September 2001 (discharge provided by U.S. Army Corps of Engineers). October 2001 to current year (stage only). 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 National Geodetic Vertical Datum of 1929, (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 National Geodetic Vertical Datum of 1929, (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 National Geodetic Vertical Datum of 1929, (levels by U.S. Army Corps of Engineers). Oct. 9, 1961, to Sept. 30, 1974, water-stage recorder at site described in "LOCATION" paragraph.

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

COOPERATION.--Records of daily discharge provided by U.S. Army Corps of Engineers October 1976 to September 2001.

EXTREMES FOR PERIOD OF RECORD.--(October 2001 to current year) maximum gage height, 8.87 ft, Nov. 10, 2001; minimum gage height, 2.14 ft, Sept. 3, 2001. (November 1923 to September 1976) maximum discharge, 16,500 ft³/s, May 18, 1943; maximum gage height, 14.75 ft, May 18, 1943 from graph based on gage readings, site and datum then in use; minimum discharge, 0.70 ft³/s, Oct. 30, 1968, result of abnormal regulation.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 8.64 ft, May 29; minimum gage height, 2.17 ft, Oct. 28.

GAGE HEIGHT, FEET WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.68	3.53	2.92	7.04	2.73	3.23	3.08	2.58	4.37	2.69	6.88	3.16
2	3.67	3.53	2.92	5.64	2.73	3.13	3.56	2.58	4.37	2.69	4.69	3.11
3	3.94	3.53	2.76	5.61	2.75	2.84	3.40	2.58	3.38	2.91	5.06	4.00
4	3.92	3.53	2.69	5.56	4.25	2.92	3.32	2.61	3.32	2.94	5.37	4.01
5	3.90	3.53	2.69	3.64	5.20	2.99	3.28	2.61	3.32	2.96	4.71	3.99
6	3.90	3.68	2.69	3.63	4.23	3.00	4.20	2.61	3.32	3.26	4.71	4.00
7	3.89	3.68	2.69	3.62	3.33	4.79	2.88	2.63	2.58	3.01	4.71	3.99
8	3.89	3.68	2.69	3.40	3.14	3.69	2.87	2.62	2.49	3.01	4.71	5.02
9	3.89	3.68	2.69	4.75	3.14	6.00	2.88	2.70	2.96	3.03	4.70	6.17
10	3.89	3.68	2.69	5.56	3.14	7.30	2.88	2.69	3.07	3.03	4.70	6.95
11	3.89	4.25	2.69	4.21	3.03	6.00	2.88	2.70	3.19	3.03	4.94	8.06
12	3.89	5.03	2.69	3.23	2.74	5.61	2.88	2.69	4.08	3.03	5.14	8.29
13	3.89	5.01	2.69	2.92	2.74	7.00	2.57	2.69	3.12	3.03	5.32	7.89
14	3.88	4.99	2.62	3.33	2.74	7.05	2.57	3.83	3.81	3.79	5.31	3.03
15	3.88	4.97	2.62	3.04	2.80	7.09	2.57	2.66	4.88	4.67	5.40	3.10
16	3.88	3.44	2.62	3.04	2.81	7.09	2.57	3.77	5.15	5.71	5.42	3.11
17	3.86	3.57	2.63	3.04	2.81	5.72	2.57	4.85	5.63	5.69	5.78	3.21
18	3.86	3.57	2.69	3.04	2.81	5.71	2.57	5.50	5.62	5.69	6.08	3.21
19	3.64	3.57	3.71	2.86	2.81	4.78	2.58	5.96	3.38	5.68	6.07	3.21
20	3.64	3.64	6.04	2.85	2.81	4.78	2.58	6.99	3.14	5.68	6.06	3.16
21	3.68	3.71	6.01	2.85	2.81	4.92	2.58	6.96	3.05	4.32	6.04	3.09
22	3.68	3.74	4.24	2.85	3.08	5.77	2.58	6.93	2.92	5.35	6.04	3.10
23	3.68	3.73	3.50	2.68	3.12	4.49	2.58	6.91	2.92	5.94	6.02	4.44
24	3.68	3.72	3.32	2.61	3.67	3.96	2.58	6.88	2.91	7.41	6.07	5.08
25	3.68	4.06	2.76	2.61	4.05	3.67	2.58	7.07	2.83	7.83	6.04	5.81
26 27 28 29 30 31	3.67 3.50 3.54 3.54 3.54 3.53	3.68 3.67 3.66 3.65 2.88	2.80 2.86 3.15 3.15 2.92 6.67	2.61 2.61 2.61 2.73 2.73 2.73	3.66 3.12 3.20 	2.96 2.94 3.50 6.23 6.21 4.17	2.58 2.57 2.57 2.57 2.57	7.28 7.83 8.33 8.59 8.52 7.76	2.58 2.59 2.59 2.90 2.91	8.45 8.56 7.74 7.71 7.68 7.65	5.76 5.75 5.73 5.72 5.71 5.71	3.24 3.13 3.15 3.16 3.72
MEAN	3.76	3.82	3.22	3.54	3.19	4.82	2.81	4.87	3.45	4.97	5.50	4.29
MAX	3.94	5.03	6.67	7.04	5.20	7.30	4.20	8.59	5.63	8.56	6.88	8.29
MIN	3.50	2.88	2.62	2.61	2.73	2.84	2.57	2.58	2.49	2.69	4.69	3.03

CAL YR 2002 MEAN 3.53 MAX 8.01 MIN 2.49 WTR YR 2003 MEAN 4.03 MAX 8.59 MIN 2.49

N

03324500 SALAMONIE RIVER AT DORA, IN-Continued

WATER-QUALITY RECORDS

INSTRUMENTATION.--Temperature recorder.

PERIOD OF RECORD .--

WATER TEMPERATURE.--October 1987 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD .--

WATER TEMPERATURE: Maximum, 28.2°C, Aug. 4, 1997; minimum, -0.3°C, Jan. 7-8, 10, 1990; Jan. 4, 24-26, Dec. 11-13, 19-20, 1995; Jan. 24-28, 1996; Jan. 12-13, 19, 25-31, Feb. 1-10, 12, 1997; and Jan. 21-27, 29, 1999.

EXTREMES FOR CURRENT YEAR .--

WATER TEMPERATURE: Maximum, 23.8°C, Sept. 1, minimum, 0.3°C, Mar. 13 - 14.

TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	(OCTOBER	₹	N	OVEMBE	ER	D	ECEMBE	ER	Į	JANUARY	
1	20.8	20.5	20.7	11.4	10.9	11.1	4.4	4.0	4.2	2.7	1.8	2.1
2	21.0	20.7	20.8	10.9	10.5	10.7	4.1	3.7	4.0	3.0	2.7	2.8
3	21.1	20.7	20.9	10.5	10.3	10.4	3.7	3.2	3.4	3.1	2.8	3.0
4	21.3	20.9	21.1	10.3	9.9	10.1	3.2	2.8	3.1	2.8	2.4	2.6
5	21.1	20.9	21.0	9.9	9.6	9.8	3.1	2.5	2.8	2.4	2.1	2.2
6	20.9	20.7	20.8	9.6	9.4	9.5	2.7	2.2	2.4	2.3	2.1	2.2
7	20.7	20.1	20.4	9.4	9.3	9.4	2.7	2.3	2.4	2.1	1.7	1.9
8	20.1	19.8	19.9	9.4	9.3	9.3	2.6	2.0	2.3	1.8	1.7	1.7
9	19.8	19.4	19.6	9.7	9.3	9.4	2.4	1.9	2.1	1.8	1.7	1.8
10	19.4	19.2	19.3	9.9	9.7	9.8	2.5	2.0	2.2	1.8	1.4	1.6
11	19.2	19.0	19.1	9.8	9.4	9.5	2.6	2.3	2.4	1.4	1.1	1.2
12	19.1	18.9	19.0	9.4	9.0	9.2	2.6	2.2	2.4	1.3	1.0	1.2
13	18.9	18.5	18.7	9.0	8.9	8.9	2.6	2.4	2.5	1.3	1.1	1.2
14	18.5	18.1	18.3	9.0	8.9	8.9	2.7	2.4	2.5	1.3	1.1	1.2
15	18.1	17.5	17.8	8.9	8.7	8.8	2.9	2.3	2.5	1.2	1.0	1.1
16	17.5	17.0	17.3	8.7	8.4	8.5	2.7	2.3	2.5	1.3	1.0	1.1
17	17.0	16.6	16.8	8.4	8.0	8.2	2.5	2.4	2.5	1.3	1.1	1.2
18	16.6	16.3	16.4	8.0	7.9	7.9	2.9	2.5	2.7	1.3	1.1	1.2
19	16.3	15.7	16.0	7.9	7.7	7.8	3.1	2.7	2.8	1.3	1.1	1.2
20	15.7	15.3	15.5	7.8	7.6	7.7	3.1	2.8	3.0	1.4	1.1	1.2
21	15.4	15.1	15.2	7.7	7.6	7.7	2.8	2.7	2.7	1.4	1.1	1.2
22	15.1	14.7	14.9	7.6	7.2	7.4	2.9	2.7	2.8	1.3	1.1	1.2
23	14.7	14.4	14.6	7.2	6.9	7.1	2.8	2.7	2.8	1.2	0.9	1.1
24	14.4	14.1	14.3	6.9	6.6	6.8	2.7	2.2	2.5	1.3	0.9	1.0
25	14.1	13.5	13.8	6.6	6.4	6.5	2.6	2.2	2.4	1.5	1.0	1.2
26 27 28 29 30 31	13.5 13.1 13.3 12.6 12.2 11.7	13.1 12.6 12.6 12.2 11.7 11.4	13.3 12.9 12.7 12.4 12.0 11.6	6.4 6.0 5.7 5.2 5.0	6.0 5.7 5.2 5.0 4.4	6.2 5.8 5.5 5.1 4.8	2.3 1.9 1.5 1.6 1.8 2.0	1.9 1.3 1.3 1.4 1.4	2.1 1.6 1.4 1.4 1.5 1.9	1.4 1.4 1.6 1.4 1.5	0.9 0.8 1.0 1.1 1.0	1.2 1.0 1.2 1.2 1.2 1.3
MONTH	21.3	11.4	17.0	11.4	4.4	8.3	4.4	1.3	2.5	3.1	0.8	1.5

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

			11		EAR OCTO		TO SEPTEM	BER 2003	CLD			
DAY	MAX	MIN FEBRUARY	MEAN	MAX	MIN MARCH	MEAN	MAX	MIN APRIL	MEAN	MAX	MIN MAY	MEAN
1 2 3 4 5	1.5 1.7 1.6 1.5 1.5	1.3 1.3 1.4 1.3 1.4	1.4 1.4 1.5 1.4 1.4	1.1 1.1 1.2 1.4 1.2	1.0 0.9 0.9 0.9 1.0	1.0 1.0 1.0 1.1 1.1	9.6 9.8 10.0 9.9 9.8	9.2 9.5 9.6 9.6 9.3	9.4 9.6 9.8 9.7 9.4	11.8 11.2 12.2 11.7 13.8	10.9 10.8 10.6 10.7 11.5	11.3 11.0 11.2 11.1 12.5
6 7 8 9 10	1.5 1.2 1.2 1.2 1.2	1.2 1.1 1.0 1.0 1.0	1.3 1.1 1.1 1.1 1.1	1.3 1.0 1.0 0.8 0.6	0.9 0.9 0.8 0.6 0.5	1.0 0.9 0.9 0.7 0.6	9.8 9.6 9.0 9.0 9.1	9.4 9.0 8.6 8.4 8.3	9.6 9.3 8.9 8.7 8.6	13.0 12.6 11.9 13.3 12.7	11.3 11.5 11.5 11.8 11.8	12.0 12.0 11.7 12.4 12.2
11 12 13 14 15	1.3 1.3 1.4 1.4 1.2	1.0 0.9 0.8 1.0 0.9	1.1 1.0 1.0 1.1 1.0	0.5 0.4 0.4 0.4 0.6	0.4 0.4 0.3 0.3 0.4	0.4 0.4 0.4 0.4 0.5	9.1 8.9 9.7 10.3 10.9	8.2 8.0 8.0 8.2 8.7	8.5 8.4 8.7 9.1 9.7	12.5 12.3 13.6 12.5 13.4	11.7 11.7 12.0 12.1 12.1	12.1 12.0 12.7 12.3 12.7
16 17 18 19 20	1.2 1.3 1.3 1.5 1.7	0.9 1.0 1.1 1.1	1.0 1.1 1.2 1.3 1.3	1.1 1.8 2.4 3.1 4.0	0.6 1.1 1.8 2.4 3.1	0.9 1.4 2.1 2.8 3.4	10.1 10.3 10.6 11.5 11.7	8.9 8.7 9.5 9.7 10.2	9.4 9.5 10.0 10.4 10.9	13.0 13.5 14.4 14.7 14.9	12.4 12.4 13.5 14.4 14.6	12.6 12.9 13.9 14.5 14.8
21 22 23 24 25	1.4 1.3 1.4 1.2 1.3	1.1 1.1 1.1 1.1	1.2 1.2 1.2 1.2 1.2	5.0 5.7 6.7 7.4 7.4	4.0 4.8 5.7 6.6 7.0	4.6 5.3 6.3 7.0 7.2	10.2 10.1 11.5 11.6 11.2	9.5 9.3 9.3 9.9 10.9	9.8 9.6 10.3 10.7 11.0	15.2 15.3 15.3 15.2 15.4	14.9 15.2 15.2 15.1 15.2	15.0 15.3 15.2 15.2 15.3
26 27 28 29 30 31	1.3 1.2 1.3 	1.1 1.0 1.0 	1.2 1.1 1.1 	7.8 9.5 9.5 9.4 9.2 9.2	7.0 7.5 9.1 9.2 9.1 9.1	7.4 8.5 9.3 9.3 9.1 9.2	12.1 12.4 12.3 12.3 12.1	10.4 10.4 10.5 10.5 10.8	11.1 11.2 11.3 11.3 11.3	15.4 15.5 15.8 15.9 16.4 16.6	15.3 15.4 15.4 15.6 15.9 16.1	15.4 15.4 15.7 15.7 16.2 16.3
MONTH	1.7	0.8	1.2	9.5	0.3	3.4	12.4	8.0	9.8	16.6	10.6	13.5
		JUNE			JULY			AUGUST		SI	ЕРТЕМВІ	ER
1 2 3 4 5	16.3 16.3 16.2 16.0 16.3	16.0 15.9 15.9 15.7 15.7	16.2 16.1 16.0 15.9 16.0	18.7 18.5 18.2 18.2 18.1	17.1 17.1 17.1 17.3 17.3	17.7 17.7 17.5 17.6 17.6	22.7 22.6 22.4 22.5 22.3	22.5 22.3 22.2 22.2 22.2	22.6 22.5 22.3 22.3 22.3	23.8 23.2 22.5 22.1 21.4	22.4 22.5 21.9 21.4 20.9	23.6 22.9 22.2 21.8 21.2
6 7 8 9 10	16.3 16.5 16.9 17.6 16.7	15.9 15.8 15.2 15.7 16.1	16.1 16.2 15.9 16.4 16.3	18.4 18.3 18.5 17.9 18.0	17.4 17.5 17.6 17.7 17.8	17.6 17.8 17.9 17.8 17.9	22.3 22.3 22.2 22.0 21.9	22.2 22.1 22.0 21.9 21.8	22.2 22.2 22.1 22.0 21.9	20.9 20.7 20.6 20.9 21.1	20.6 20.5 20.5 20.5 20.8	20.8 20.6 20.6 20.7 20.9
11 12 13 14 15	16.5 16.4 16.4 16.7 16.6	16.2 16.2 16.2 16.2 16.2	16.4 16.3 16.3 16.4 16.4	18.2 18.4 18.6 18.0 18.2	17.6 17.8 17.9 17.6 17.6	17.9 18.1 18.2 17.8 17.9	21.9 21.9 22.0 22.0 21.9	21.8 21.8 21.8 21.8 21.8	21.8 21.8 21.9 21.9 21.9	21.5 21.8 21.9 22.0 21.5	21.0 21.4 21.8 21.2 20.9	21.3 21.6 21.8 21.7 21.1
16 17 18 19 20	16.8 17.1 17.2 17.3 17.4	16.5 16.7 17.0 16.8 16.7	16.7 16.9 17.1 17.1 17.0	19.1 19.7 20.2 20.6 20.9	18.1 19.1 19.7 20.2 20.6	18.7 19.4 20.0 20.4 20.8	21.9 22.1 22.2 22.2 22.3	21.8 21.8 22.0 22.1 22.2	21.9 22.0 22.1 22.2 22.2	21.5 21.2 21.2 20.9 21.3	20.9 20.8 20.7 20.7 20.7	21.1 21.0 20.9 20.8 20.9
21 22 23 24 25	17.5 17.9 17.9 19.6 18.4	16.7 16.7 16.9 16.9 16.8	17.0 17.2 17.2 17.5 17.5	21.0 21.2 21.5 21.8 22.2	20.8 20.8 21.1 21.4 21.8	20.9 21.0 21.3 21.7 22.0	22.4 22.5 22.6 22.8 22.9	22.2 22.3 22.4 22.5 22.7	22.3 22.4 22.5 22.6 22.8	21.3 21.0 21.1 21.2 21.1	20.7 20.8 20.8 21.0 20.6	20.9 20.9 21.0 21.1 20.9
26 27 28 29 30 31	18.1 18.8 17.9 18.0 18.0	17.0 16.8 16.9 16.9 17.1	17.5 17.6 17.3 17.4 17.5	22.4 22.4 22.3 22.4 22.5 22.5	22.1 22.3 22.3 22.3 22.3 22.4	22.3 22.3 22.3 22.3 22.4 22.5	23.0 23.1 23.3 23.3 23.4 23.7	22.9 22.9 23.1 23.2 23.3 23.4	22.9 23.0 23.2 23.2 23.4 23.6	20.6 20.2 19.1 18.0 17.4	20.1 19.1 18.0 17.4 17.0	20.5 19.7 18.5 17.7 17.2

17.1

19.6

22.5

MONTH

YEAR

19.6

23.8

15.2

0.3

16.7

11.5

23.7

21.8

22.4

23.8

17.0

20.9

03325000 WABASH RIVER AT WABASH, IN

LOCATION.--Lat $40^{\circ}47'25''$, long $85^{\circ}49'13''$, in $SE\frac{1}{4}NW\frac{1}{4}$ sec.14, T.27 N., R.6 E., Wabash County, Hydrologic Unit 05120101, (WABASH, IN. quadrangle), on right bank on upstream side of Wabash Street bridge in Wabash, 0.3 mi upstream of Huntington Road bridge, 7.1 mi downstream from Salamonie River, and at mile 387.2.

DRAINAGE AREA.--1,768 mi².

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

REVISED RECORDS.--WSP 1275: 1931-37(M), 1938-39, 1940(M). WSP 1385: 1942. WSP 1505: 1955. WSP 2109: Drainage area. WDR IN-84-1: 1983.

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

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by Salamonie Lake beginning April 1967 and by Huntington Lake beginning October 1976.

EXTREMES OUTSIDE PERIOD OF RECORD .-- Maximum stage known, 28.7 ft Mar. 26, 1913, from floodmark, determined by U.S. Army Corps of Engineers, discharge, 90,000 ft³/s, from rating curve extended above 49,000 ft³/s.

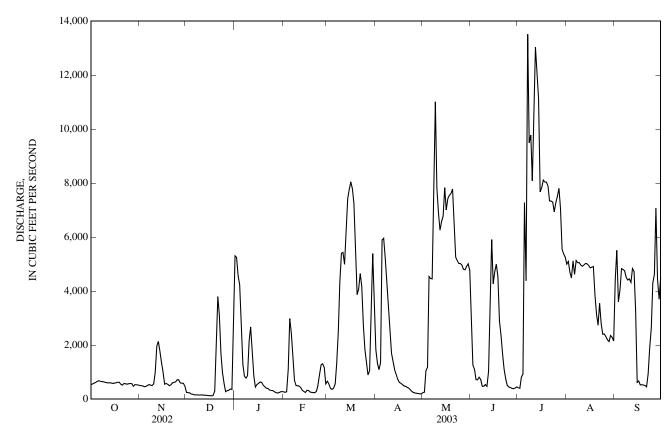
DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

					DAII	DI MILAIN V	ALULS					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	537	e510	252	5,310	275	664	1,840	238	2,760	419	e5,000	4,450
2	561	e500	240	5,250	250	565	1,330	256	1,260	403	e5,100	5,510
3	593	e490	237	4,560	275	400	1,090	1,050	1,110	810	e4,700	3,600
4	e620	e460	192	4,230	1,110	362	1,350	1,180	726	926	4,490	4,050
5	e660	e470	e182	2,560	2,980	405	5,890	4,540	716	7,280	5,120	4,830
6	e680	e500	e160	1,290	2,430	559	5,950	4,470	815	4,390	4,620	4,800
7	e660	e540	e158	855	1,540	1,340	5,210	4,450	728	13,500	5,130	4,750
8	e650	519	e160	780	702	2,510	4,220	7,340	477	9,490	5,050	4,500
9	644	506	e154	870	506	4,350	3,290	11,000	478	9,780	5,060	4,410
10	625	565	e156	2,140	498	5,400	2,530	7,820	542	8,080	4,960	4,450
11	610	981	158	2,670	483	5,430	1,690	6,890	476	11,300	4,920	4,320
12	604	1,950	146	1,750	430	5,000	1,390	6,260	1,030	13,000	4,970	4,840
13	606	2,140	146	858	329	6,450	1,090	6,580	3,540	12,000	5,020	4,720
14	597	1,770	140	448	285	7,430	923	6,780	5,910	11,100	5,010	3,300
15	584	1,370	132	543	248	7,770	737	7,830	4,270	7,670	4,950	622
16	594	1,010	129	583	327	8,050	622	7,000	4,730	7,830	4,860	673
17	605	553	124	635	320	7,790	588	7,420	4,990	8,110	4,890	526
18	623	582	137	625	264	7,250	538	7,550	4,540	8,040	4,910	534
19	627	551	293	518	251	5,280	487	7,610	2,900	8,040	3,860	523
20	552	500	1,690	465	244	3,870	480	7,780	2,350	7,890	3,160	507
21	520	528	3,800	405	236	4,070	438	6,390	1,650	7,340	2,740	456
22	579	608	3,110	400	287	4,650	409	5,260	1,090	7,340	3,550	938
23	572	622	1,680	344	509	4,170	351	5,130	744	7,300	2,790	1,900
24	556	639	982	323	912	2,740	288	5,020	505	6,930	2,400	2,630
25	571	718	579	320	1,270	1,850	246	5,020	453	7,280	2,410	4,300
26 27 28 29 30 31	579 576 479 537 532 526	718 603 594 586 475	278 315 328 376 355 1,980	288 245 231 236 273 282	1,310 1,180 565 	1,370 895 1,050 3,760 5,390 3,550	231 219 209 201 192	4,970 4,810 4,790 4,920 5,010 4,770	428 398 386 409 451	7,500 7,810 7,070 5,550 5,390 5,260	2,310 2,200 2,140 2,360 2,290 2,160	4,620 7,070 4,450 3,700 4,520
TOTAL	18,259	22,558	18,769	40,287	20,016	114,370	44,029	170,134	50,862	224,828	123,130	100,499
MEAN	589	752	605	1,300	715	3,689	1,468	5,488	1,695	7,253	3,972	3,350
MAX	680	2,140	3,800	5,310	2,980	8,050	5,950	11,000	5,910	13,500	5,130	7,070
MIN	479	460	124	231	236	362	192	238	386	403	2,140	456
CFSM	0.33	0.43	0.34	0.74	0.40	2.09	0.83	3.10	0.96	4.10	2.25	1.89
IN.	0.38	0.47	0.39	0.85	0.42	2.41	0.93	3.58	1.07	4.73	2.59	2.11
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1924 - 2003,	BY WATE	R YEAR (W	YY)			
MEAN	632	978	1,723	2,175	2,430	3,052	2,657	1,669	1,413	916	562	537
MAX	3,667	5,044	5,829	13,260	7,764	8,144	11,060	10,410	8,260	7,253	4,887	5,676
(WY)	(2002)	(1993)	(1968)	(1950)	(1959)	(1982)	(1957)	(1943)	(1958)	(2003)	(1998)	(1926)
MIN	32.3	61.7	56.0	72.8	114	177	264	135	78.3	55.4	43.4	29.9
(WY)	(1964)	(1965)	(1964)	(1977)	(1964)	(1941)	(1971)	(1941)	(1988)	(1934)	(1941)	(1941)

WABASH RIVER BASIN 109

03325000 WABASH RIVER AT WABASH, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	NDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEAR	S 1924 - 2003
ANNUAL TOTAL	533,735		947,741			
ANNUAL MEAN	1,462		2,597		1,559	
HIGHEST ANNUAL MEAN					2,994	1950
LOWEST ANNUAL MEAN					276	1931
HIGHEST DAILY MEAN	7,400	Feb 1	13,500	Jul 7	47,800	May 18, 1943
LOWEST DAILY MEAN	84	Aug 10	124	Dec 17	17	Aug 3, 1934
ANNUAL SEVEN-DAY MINIMUM	88	Aug 7	136	Dec 12	18	Aug 3, 1934
MAXIMUM PEAK FLOW			14,800	Jul 7	49,600	May 18, 1943
MAXIMUM PEAK STAGE			16.58	Jul 7	24.44	Feb 11, 1959
ANNUAL RUNOFF (CFSM)	0.83		1.47		0.88	
ANNUAL RUNOFF (INCHÉS)	11.23		19.94		11.98	
10 PERCENT EXCEEDS	4,570		7,030		4,650	
50 PERCENT EXCEEDS	582		1,050		539	
90 PERCENT EXCEEDS	142		274		89	



03325500 MISSISSINEWA RIVER NEAR RIDGEVILLE, IN

 $LOCATION.--Lat\ 40^{\circ}16^{\prime}48^{"},\ long\ 84^{\circ}59^{\prime}33^{"},\ in\ NW^{1}_{4}NW^{1}_{4}\ sec.17,\ T.21\ N.,\ R.14\ E.,\ Randolph\ County,\ Hydrologic\ Unit\ 05120103,\ (DEERFIELD,\ IN.\ quadrangle),\ on\ left\ bank\ 800\ ft\ upstream\ from\ county\ road\ bridge,\ 0.6\ mi\ downstream\ from\ Mud\ Creek,\ 2\ mi\ east\ of\ Ridgeville,\ and\ at\ mile\ 99.7.$

DRAINAGE AREA.--133 mi².

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

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

GAGE.--Water-stage recorder. Datum of gage is 965.28 ft above National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to Oct. 5, 1950, nonrecording gage at site 800 ft downstream, at same datum. Oct. 5, 1950 to Oct. 15, 1994, water-stage recorder, at site 800 ft downstream, at same datum.

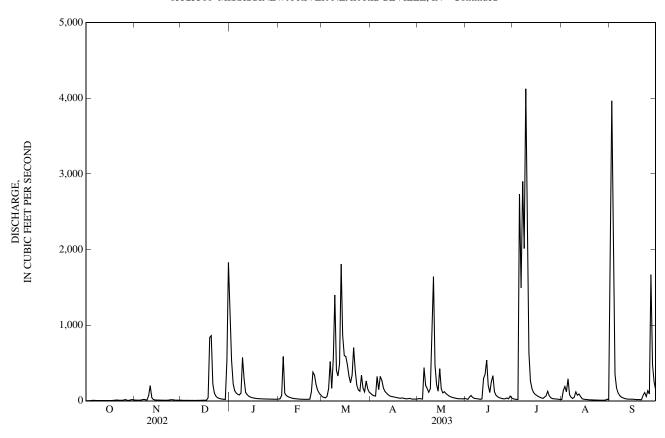
REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

					DAII	LI MEAN V	ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2	1.9 1.7	11 9.7	8.1 6.8	1,110 538	e23 e28	e53 e45	96 76	26 31	26 20	26 22	18 135	1,770 3,970
3 4	2.2	8.8 8.4	e6.6	226 134	e70 587	e40 e60	67 64	26 23	51 71	19 18	190 120	1,720 351
5	6.3	10	6.4 6.4	102	e100	e160	323	437	47	2,730	291	173
6 7	6.0 4.8	14 19	5.9 5.6	85 78	e70 e56	e520 164	147 324	205 164	33 31	1,490 2,900	80 45	105 69
8	3.8	14	6.1	102	e46	566	273	114	28	2,010	30	51
9 10	3.9 3.8	11 70	5.7 5.6	574 286	e39 e34	1,400 402	171 127	160 700	25 20	4,120 2,890	48 119	41 32
11 12	4.0 4.5	200 43	6.3 6.6	e110 e80	e30 e27	328 489	102 82	1,640 473	25 295	637 263	74 90	27 23
13	4.4	18	6.7	e60	e25	1,810	65	212	348	159	58	22
14 15	3.9 3.8	12 10	7.7 8.1	e50 e43	e23 e22	859 598	58 54	128 426	539 205	111 86	28 21	21 22
16 17	4.5 4.7	9.7 9.0	7.9 8.4	e38 e34	e21 e20	586 476	51 45	161 104	110 250	72 56	19 17	20 18
18	5.1	8.9	41	e31	e20	329	41	121	332	47	14	16
19 20	7.5 9.2	8.5 7.8	838 861	e29 e27	e20 e21	238 341	35 35	96 79	123 72	38 32	13 12	16 16
21 22	10 7.9	7.5 8.7	222 104	e26 e25	e21 e120	705 402	38 34	63 53	54 43	48 65	12 11	15 73
23 24	7.4	10 15	62 41	e24 e24	e380 e340	209 144	28 27	46 40	35 30	126	10 9.1	110 58
25 25	7.3 8.9	15	e33	e23	e210	127	30	36	26	67 41	8.7	134
26 27	16 8.2	12 10	e27 e23	e23 e22	e140 e100	339 169	32 24	31 28	27 37	30 26	8.8 9.0	91 1,670
28	5.4	8.7	e20	e22	e78	119	22 23	27	27	26	8.6	476
29 30	8.8 15	8.3 8.6	19 539	e21 e21		262 159	22	28 24	62 38	23 20	9.4 21	248 148
31 TOTAL	15 198.9	606.6	1,830 4,774.9	e21 3,989	2,671	113 12,212	2,516	34 5,736	3,030	18 18,216	15 1,544.6	11,506
MEAN	6.42	20.2	154	129	95.4	394	83.9	185	101	588	49.8	384
MAX MIN	16 1.7	200 7.5	1,830 5.6	1,110 21	587 20	1,810 40	324 22	1,640 23	539 20	4,120 18	291 8.6	3,970 15
CFSM IN.	0.05 0.06	0.15 0.17	1.16 1.34	0.97 1.12	0.72 0.75	2.96 3.42	0.63 0.70	1.39 1.60	0.76 0.85	4.42 5.10	0.37 0.43	2.88 3.22
STATIST	TCS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1947 - 2003,		R YEAR (W	/Y)			
MEAN	34.2	90.6	147	178	204	248	222	129	144	103	37.4	35.9
MAX (WY)	314 (2002)	729 (1994)	872 (1991) 2.62	865 (1950) 3.25	548 (1950)	714 (1978)	810 (1964)	371 (2002)	1,417 (1958)	709 (1979)	454 (1979)	384 (2003)
MIN (WY)	1.25 (1947)	1.82 (1954)	2.62 (1964)	3.25 (1977)	5.00 (1964)	46.1 (1957)	25.8 (1976)	15.3 (1988)	6.52 (1988)	2.37 (1952)	2.13 (1983)	0.99 (1954)
SUMMA	RY STATIS	STICS]	FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	YEAR	WATER	YEARS 194	47 - 2003
ANNUAI				48,973			67,00					
ANNUAI HIGHES	L MEAN ΓANNUAL	MEAN		134	Į.		18	34			31 23	1958
	CANNUAL ΓDAILY M			3,750) May	13	4,12	20 Iu	1 9	11,3	29.8	1954 in 10, 1958
LOWEST	DAILY M	EAN		1	.3 Sep	8	7,12	1.7 Oc	t 2	11,5	0.10 O	ct 24, 1946
	J SEVEN-D JM PEAK F	OAY MINIM FLOW	IUM	j	.3 Sep	12	4,60	00 Se ₁	t 1 p 2	13,9		ct 5, 1946 in 10, 1958
	JM PEAK S L RUNOFF			1	.01			14.77 Se _j 1.38	p 2		16.25 Ju 0.98	ın 10, 1958
ANNUAI	L RUNOFF ENT EXCE	(INCHÉS)			3.70		1	18.74 12			13.33 77	
50 PERCI	ENT EXCE	EDS		19)			34			29	
90 PEKC	ENT EXCE	EDS		į.	3.1			7.8			3.9	

e Estimated

03325500 MISSISSINEWA RIVER NEAR RIDGEVILLE, IN—Continued



03326070 BIG LICK CREEK NEAR HARTFORD CITY, IN

LOCATION.--Lat 40°25'20", long 85°21'04", in SE ½ SE½ sec.23, T.23 N., R.10 E., Blackford County, Hydrologic Unit 05120103, (HARTFORD CITY EAST, IN quadrangle), on right bank 6 ft downstream from bridge on County Road 100 East, 0.10 mi north of intersection of County Road 100 South and County Road 100 East, 1.0 mi east of intersection of State Road 3 and County Road 200 South, and 2.0 mi southeast of Hartford City.

DRAINAGE AREA.--29.2 mi².

PERIOD OF RECORD.--July 1971 to October 2003 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 865.00 ft above National Geodetic Vertical Datum of 1929.

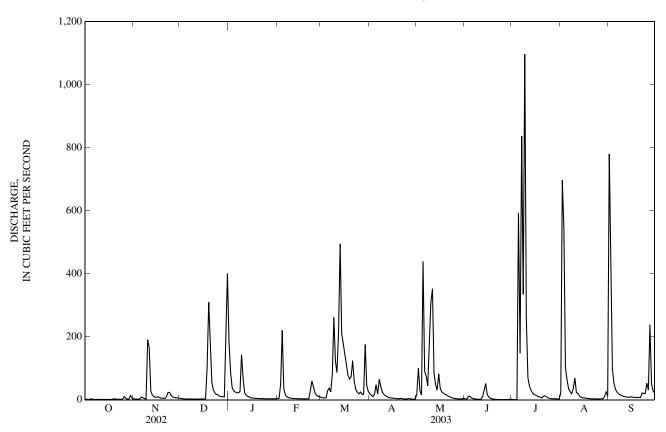
REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

				DAII	LI MEAN V	ALUES					
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1.5 1.5 1.4 1.5 3.2	3.3 2.4 2.2 2.2 2.4	4.3 3.9 3.1 2.7 2.9	182 89 39 29 25	e4.0 e5.4 e50 220 e35	e7.4 e6.6 e5.9 e7.0 e29	19 14 11 18 48	17 100 29 15 439	2.7 1.8 11 11 5.7	0.99 0.73 0.62 1.7 593	23 697 540 102 63	780 510 98 52 33
1.6 1.3 1.4 1.4 1.5	8.7 6.4 3.8 3.1 191	2.7 2.6 2.5 2.1 2.2	22 22 27 143 67	e16 e9.7 e7.0 e5.8 e5.0	e37 e25 e80 262 123	18 65 42 24 17	92 76 44 179 310	3.5 3.1 2.4 1.9 1.4	147 837 335 1,100 260	36 26 19 35 69	24 19 16 13 11
1.2 1.2 1.2 1.3 1.3	166 29 15 10 7.7	2.3 2.3 2.3 2.7 2.8	e22 e14 e11 e8.4 e6.4	e4.4 e4.0 e3.7 e3.5 e3.3	86 214 495 211 179	13 9.9 7.4 6.2 5.7	352 85 48 31 82	2.3 9.9 29 52 17	69 44 30 21 17	23 21 12 8.4 6.7	9.6 9.2 8.5 8.5 9.3
1.2 1.2 1.2 2.4 3.5	9.1 8.6 6.3 5.3 4.8	2.8 2.7 102 309 193	e5.7 e5.2 e4.8 e4.5 e4.1	e3.2 e3.2 e3.1 e3.1 e3.2	148 113 80 66 73	5.3 4.6 4.0 3.7 3.7	36 25 21 18 15	8.6 5.0 3.4 2.3 1.5	15 12 9.7 7.7 5.9	5.9 5.5 4.6 3.8 3.2	8.6 7.8 7.6 7.7 7.6
1.9 1.7 1.7 1.5 2.4	4.6 9.5 23 24 14	56 32 21 17 16	e3.9 e3.7 e3.6 e3.5 e3.4	e3.3 e30 e60 e40 e21	124 58 34 24 19	4.5 3.3 2.7 2.5 3.1	9.0 7.3 5.6 4.7	1.2 1.0 0.90 0.77 0.67	12 12 9.7 6.1 4.3	3.1 3.4 3.0 2.9 2.8	7.3 22 20 21 53
10 4.8 2.5 2.2 13 5.8	9.4 7.4 6.5 6.4 5.9	11 10 10 9.7 212 401	e3.4 e3.3 e3.2 e3.2 e3.2	e14 e11 e9.8 	25 18 17 176 45 26	4.4 2.7 2.3 2.4 2.2	3.8 3.2 2.9 3.2 2.2 5.8	0.76 1.2 0.64 1.1 2.4	3.7 3.3 3.2 2.9 2.6 2.3	3.0 3.3 3.6 11 25 11	31 238 50 28 21
79.5 2.56 13 1.2 0.09 0.10	598.0 19.9 191 2.2 0.68 0.76	1,446.6 46.7 401 2.1 1.60 1.84	768.8 24.8 182 3.2 0.85 0.98	581.7 20.8 220 3.1 0.71 0.74	2,813.9 90.8 495 5.9 3.11 3.58	369.6 12.3 65 2.2 0.42 0.47	2,073.7 66.9 439 2.2 2.29 2.64	186.14 6.20 52 0.64 0.21 0.24	3,569.44 115 1,100 0.62 3.94 4.55	1,776.2 57.3 697 2.8 1.96 2.26	2,131.7 71.1 780 7.3 2.43 2.72
TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1972 - 2003,	BY WATE	R YEAR (W	Y)			
9.56 97.6 (2002) 0.50 (1998)	24.8 135 (1986) 0.82 (1998)	36.3 157 (1991) 1.13 (1996)	33.5 114 (1999) 0.76 (1977)	43.9 124 (1990) 3.41 (1978)	55.9 152 (1978) 9.25 (2001)	42.0 112 (1972) 4.85 (1976)	29.3 114 (1981) 2.37 (1988)	27.7 148 (1981) 1.21 (1988)	23.0 115 (2003) 1.11 (1977)	11.4 84.3 (1998) 0.95 (1988)	9.06 71.1 (2003) 0.61 (1983)
RY STATIS	STICS	I	FOR 2002 C	CALENDAR	YEAR	FOR 200	3 WATER Y	EAR	WATER	YEARS 197	2 - 2003
TANNUAL T DAILY M T DAILY M L SEVEN-E UM PEAK I UM PEAK I L RUNOFF L RUNOFF ENT EXCE ENT EXCE	MEAN IEAN EAN DAY MINIM FLOW STAGE (CFSM) (INCHES) EDS EDS	UM	788 ()	9 May 0.51 Sep 0.53 Sep 0.91 2.40 3 6.0	8	1,10 1,40	14.9 00 Jul 0.62 Jul 0.85 Jun 00 Jul 13.49 Jul 1.54 20.89 01 7.8	3 22 9	1,5	0.19 Oc 0.32 Se 140 Ju 16.14 Ju 0.99 13.39 66 5.7	2003 1977 n 6, 1981 ct 4, 1983 p 28, 1983 n 6, 1981 n 6, 1981
	1.5 1.5 1.4 1.5 1.4 1.5 3.2 1.6 1.3 1.4 1.4 1.5 1.2 1.2 1.2 1.3 1.3 1.2 1.2 1.2 2.4 3.5 1.9 1.7 1.7 1.5 2.4 10 4.8 2.5 2.2 13 5.8 79.5 2.56 13 1.2 0.09 0.10 CICS OF MO 9.56 97.6 (2002) 0.50 (1998) RY STATIS L TOTAL L MEAN T ANNUAL T CANNUAL T CANNUAL T CONTACT UM PEAK I U	1.5 3.3 1.5 2.4 1.4 2.2 1.5 2.2 3.2 2.4 1.6 8.7 1.3 6.4 1.4 3.8 1.4 3.1 1.5 191 1.2 166 1.2 29 1.2 15 1.3 10 1.3 7.7 1.2 9.1 1.2 8.6 1.2 6.3 2.4 5.3 3.5 4.8 1.9 4.6 1.7 9.5 1.7 23 1.5 24 2.4 14 10 9.4 4.8 7.4 2.5 6.5 2.2 6.4 13 5.9 5.8 79.5 598.0 2.56 19.9 13 191 1.2 2.2 0.09 0.68 0.10 0.76 CICS OF MONTHLY M 9.56 24.8 97.6 135 (2002) (1986) 0.50 0.82 (1998) (1998) RY STATISTICS L TOTAL L MEAN T ANNUAL MEAN T DAILY MEAN T DAILY MEAN	1.5 3.3 4.3 1.5 2.4 3.9 1.4 2.2 3.1 1.5 2.2 2.7 3.2 2.4 2.9 1.6 8.7 2.7 1.3 6.4 2.6 1.4 3.8 2.5 1.4 3.1 2.1 1.5 191 2.2 1.2 166 2.3 1.2 29 2.3 1.2 15 2.3 1.3 10 2.7 1.3 7.7 2.8 1.2 9.1 2.8 1.2 9.1 2.8 1.2 9.1 2.8 1.2 9.1 2.8 1.2 9.1 2.8 1.2 9.1 2.8 1.2 1.5 3.3 309 3.5 4.8 193 1.9 4.6 56 1.7 9.5 32 1.7 23 21 1.5 24 17 2.4 14 16 10 9.4 11 4.8 7.4 10 2.5 6.5 10 2.2 6.4 9.7 13 5.9 212 5.8 401 79.5 598.0 1,446.6 2.56 19.9 46.7 13 191 401 1.2 2.2 2.1 0.09 0.68 1.60 0.10 0.76 1.84 CICS OF MONTHLY MEAN DATA PANNUAL MEAN TANNUAL MEAN	1.5 3.3 4.3 182 1.5 2.4 3.9 89 1.4 2.2 3.1 39 1.5 2.2 2.7 29 3.2 2.4 2.9 25 1.6 8.7 2.7 22 1.3 6.4 2.6 22 1.4 3.8 2.5 27 1.4 3.1 2.1 143 1.5 191 2.2 67 1.2 166 2.3 e22 1.2 29 2.3 e14 1.2 15 2.3 e11 1.3 10 2.7 e8.4 1.2 15 2.3 e11 1.3 10 2.7 e8.4 1.2 9.1 2.8 e6.4 1.2 9.1 2.8 e5.7 1.2 8.6 2.7 e5.2 1.2 8.6 2.7 e5.2 1.2 6.3 102 e4.8 2.4 5.3 309 e4.5 3.5 4.8 193 e4.1 1.9 4.6 56 e3.9 1.7 9.5 32 e3.7 1.7 23 21 e3.6 1.5 24 17 e3.5 2.4 14 16 e3.4 10 9.4 11 e3.4 4.8 7.4 10 e3.3 2.5 6.5 10 e3.3 2.5 6.	OCT NOV DEC JAN FEB 1.5 3.3 4.3 182 e4.0 1.5 2.4 3.9 89 e5.4 1.4 2.2 3.1 39 e50 1.5 2.2 2.7 29 220 3.2 2.4 2.9 25 e35 1.6 8.7 2.7 22 e16 1.3 6.4 2.6 22 e9.7 1.4 3.1 2.1 143 e5.8 1.5 191 2.2 67 e5.0 1.4 3.1 2.1 143 e5.8 1.5 191 2.2 67 e5.0 1.2 166 2.3 e22 e4.4 1.2 29 2.3 e14 e4.0 1.2 15 2.3 e11 e3.7 1.3 10 2.7 e8.4 e3.5 1.3 7.7 2.8 e6.4 e3.3 1.2 9.1 2.8 e5.7 e3.2 1.2 8.6 2.7 e5.2 e3.2 1.2 8.6 2.7 e5.2 e3.2 1.2 6.3 102 e4.8 e3.1 1.3 10 2.7 e8.4 e3.1 1.7 9.5 32 e3.7 e3.0 1.7 2.8 e6.4 e3.3 3.5 4.8 193 e4.1 e3.2 1.9 4.6 56 e3.9 e3.3 3.5 4.8 193 e4.1 e3.2 1.9 4.6 56 e3.9 e3.3 1.7 9.5 32 e3.7 e30 1.5 24 17 e3.5 e40 2.4 14 16 e3.4 e21 10 9.4 11 e3.4 e14 4.8 7.4 10 e3.3 e11 4.8 7.4 10 e3.5 e40 4.8 7.4 10 e3.5 e40 4.9 e3.5 e3.7 e30 4.9 e4.5 e3.1 e3.1 4.9 e4.6 660 4.9 e3.5 e3.7 e30 4.9 e4.5 e3.1 4.9 e3.5 e3.2 e3.7 e30 4.1 e3.2 e3.2 e3.2 e3.2 e3.2 e3.2 4.0 e3.1 e3.2 e3.2 e3.2 e3.2 e3.2 e3.2 e3.2 e3.2	OCT NOV DEC JAN FEB MAR 1.5 3.3 4.3 182 e4.0 e7.4 1.5 2.4 3.9 89 e5.4 e6.6 1.4 2.2 3.1 39 e50 e5.9 1.5 2.2 2.7 29 220 e7.0 3.2 2.4 2.9 25 e35 e29 1.6 8.7 2.7 22 e16 e37 1.3 6.4 2.6 22 e9.7 e25 1.4 3.8 2.5 27 c7.0 e80 1.4 3.1 2.1 143 e5.8 262 1.5 191 2.2 67 e5.0 123 1.2 166 2.3 e22 e4.4 86 1.2 29 2.3 e14 e4.0 214 1.2 15 2.3 e11 e3.7 495 1.3 10 2.7 e8.4 e3.5 211 1.3 7.7 2.8 e6.4 e3.3 179 1.2 9.1 2.8 e5.7 e3.2 148 1.2 9.1 2.8 e5.7 e3.2 148 1.2 9.1 2.8 e5.7 e3.2 148 1.2 6.3 102 e4.8 e3.1 80 2.4 5.3 309 e4.5 e3.1 66 3.5 4.8 193 e4.1 e3.2 73 1.9 4.6 56 e3.9 e3.3 124 1.7 9.5 32 e3.7 e30 58 1.7 23 21 e3.6 e60 34 1.7 9.5 32 e3.7 e30 58 1.7 23 21 e3.5 e40 24 1.8 7.4 10 e3.3 e11 18 2.5 6.5 10 e3.3 e9.8 17 1.5 24 17 e3.5 e40 24 1.6 2.5 6.5 10 e3.3 e9.8 17 2.2 6.4 9.7 e3.2 45 1.3 5.9 212 e3.2 45 5.8 401 e3.2 45 2.5 6.5 10 e3.3 e9.8 17 2.2 2.6 4.9 7 e3.2 45 5.8 401 e3.2 45 2.5 6.5 10 e3.3 e9.8 17 2.5 6.5 19.9 46.7 24.8 20.8 90.8 2.5 6.9 212 e3.2 45 2.5 6.5 19.9 46.7 24.8 20.8 90.8 2.5 6.9 212 e3.2 45 2.5 6.5 19.9 46.7 24.8 20.8 90.8 2.5 6.9 2.9 2.1 3.2 3.1 5.9 2.5 6 24.8 36.3 33.5 43.9 55.9 2.5 6 24.8 36.3 33.5 43.9 55.9 2.5 6 24.8 36.3 33.5 43.9 55.9 2.5 6 24.8 36.3 33.5 43.9 55.9 2.5 6 24.8 36.3 33.5 43.9 55.9 2.5 6 24.8 36.3 33.5 43.9 55.9 2.5 6 24.8 36.3 33.5 43.9 55.9 2.5 6 24.8 36.3 33.5 43.9 55.9 2.5 6 24.8 36.3 33.5 52.5 53 2.5 6 2.5 10 6.5 10 6.5 10 6.5 2.5 6 2.5 10 6.5 10 6.5 10 6.5 2.5	1.5 3.3 4.3 182 e4.0 e7.4 19 1.5 2.4 3.9 89 e5.4 e6.6 14 1.4 2.2 3.1 39 e50 e5.9 11 1.5 2.2 2.7 29 220 e7.0 18 3.2 2.4 2.9 25 e35 e29 48 1.6 8.7 2.7 22 e16 e37 18 1.3 6.4 2.6 22 e9.7 e25 65 1.4 3.8 2.5 27 e7.0 e80 42 1.4 3.1 2.1 143 e5.8 262 24 1.5 191 2.2 67 e5.0 123 17 1.2 166 2.3 e22 e4.4 86 13 1.2 29 2.3 e14 e4.0 214 9.9 1.2 15 2.3 e11 e3.7 495 7.4 1.3 10 2.7 e8.4 e3.5 211 6.2 1.3 7.7 2.8 e6.4 e3.3 179 5.7 1.2 9.1 2.8 e5.7 e3.2 148 5.3 1.2 9.1 2.8 e5.7 e3.2 148 5.3 1.2 e3.6 2.7 e5.2 e3.2 113 4.6 1.2 6.3 102 e4.8 e3.1 80 4.0 1.2 6.3 102 e4.8 e3.1 66 3.7 1.9 4.6 56 e3.9 e3.3 124 4.5 1.7 9.5 32 e3.7 e3.0 e3.1 e3.4 e3.7 1.9 4.6 56 e3.9 e3.3 124 4.5 1.7 23 21 e3.6 e60 34 2.7 1.5 24 17 e3.5 e40 24 2.5 2.4 14 16 e3.4 e21 19 3.1 10 9.4 11 e3.4 e14 25 4.4 1.8 8.7 4 10 e3.3 e18 18 2.7 1.5 24 17 e3.5 e40 24 2.5 2.4 14 16 e3.4 e21 19 3.1 10 9.4 11 e3.4 e14 25 4.4 1.8 8.7 4 10 e3.3 e18 18 2.7 1.5 24 17 e3.5 e40 24 2.5 2.5 6.5 10 e3.3 e9.8 17 2.3 1.5 2.2 6.4 9.7 e3.2 176 2.4 2.5 6.5 10 e3.3 e9.8 17 2.3 1.5 2.2 6.4 9.7 e3.2 176 2.4 1.3 191 401 182 220 495 65 2.5 6 19.9 46.7 24.8 20.8 90.8 12.3 1.3 191 401 182 220 495 65 1.4 2.2 2.1 3.2 3.1 5.9 2.2 1.5 5.8 401 e3.2 26 2.5 6 19.9 46.7 24.8 20.8 90.8 12.3 1.3 191 401 182 220 495 65 1.4 2.2 2.1 3.2 3.1 5.9 2.2 1.5 5.8 401 e3.2 26 2.5 6 19.9 46.7 24.8 20.8 90.8 12.3 1.5 19.1 401 182 220 495 65 1.2 2.2 2.1 3.2 3.1 5.9 2.2 1.3 191 401 182 220 495 65 1.2 2.2 4.8 36.3 33.5 43.9 55.9 42.0 1.0 0.90 0.68 1.60 0.85 0.71 3.11 0.42 0.50 0.82 1.13 0.76 3.41 9.25 4.85 1.14 1.24 152 112 1.25 5.5 8.5 157 114 124 152 112 1.26 1.3 191 401 182 220 495 65 1.2 2.2 2.1 3.2 3.1 5.9 2.2 1.3 191 401 182 220 495 65 1.3 191 401 182 220 495 65 1.3 191 401 182 220 495 65 1.3 191 401 182 220 495 65 1.3 191 401 182 220 495 65 1.3 191 401 182 220 495 65 1.3 191 401 182 220 495 65 1.3 191 401 182 220 495 65 1.3 191 401 182 220 495 65 1.3 191 401 182 220 495 65 1.4 191 401 182 220 495 65 1.5 102	OCT NOV DEC JAN FEB MAR APR MAY 1.5 3.3 4.3 182 e40 e7.4 19 17 1.5 2.4 3.9 89 e5.4 e6.6 14 100 1.4 2.2 3.1 39 e50 e5.9 11 29 1.5 2.2 2 2.7 29 220 e7.0 18 15 3.2 2.4 2.9 25 e35 e29 48 439 1.6 8.7 2.7 22 e16 e37 18 92 1.1 3 6.4 2.6 22 e9.7 e25 65 76 1.4 3.8 2.5 27 e7.0 e80 42 44 1.4 3.1 2.1 143 e5.8 262 24 179 1.5 191 2.2 67 e5.0 123 17 310 1.2 166 2.3 e22 e4.4 86 13 352 1.1 2 15 2.3 e11 e3.7 495 7.4 48 1.2 12 9.2 3 e14 e4.0 214 99 85 1.3 10 2.7 e8.4 e3.5 211 6.2 31 1.3 7.7 2.8 e6.4 e3.3 179 5.7 82 1.2 9.1 2.8 e5.7 e3.2 148 5.3 36 1.2 9.1 2.8 e5.7 e3.2 148 5.3 36 1.2 6.3 102 e4.8 e3.1 80 4.0 21 2.4 5.3 309 e4.5 e3.1 80 4.0 21 2.4 6.3 309 e4.5 e3.1 80 4.0 21 2.4 6.5 3 309 e4.5 e3.1 80 4.0 21 1.7 9.5 32 e3.7 e30 58 33 124 1.7 9.5 32 e3.7 e30 58 33 124 1.7 9.5 32 e3.7 e3.0 188 53.3 9.0 1.7 9.5 32 e3.7 e3.0 58 33 124 1.8 193 e4.1 e3.2 e73 33.7 15 1.9 4.6 56 e3.9 e3.3 124 4.5 12 2.4 14 16 e3.4 e21 19 3.1 4.7 1.7 23 21 e3.6 e60 34 2.7 e3.2 1.5 24 17 e3.5 e40 24 2.5 5.6 2.4 14 16 e3.4 e21 19 3.1 4.7 10 9.4 11 e3.4 e14 25 4.4 3.8 3.5 9.0 1.446.6 768.8 581.7 e3.13 9 56.9 6.2 e073.7 1.5 24 17 e3.5 e40 24 2.5 5.6 2.5 6.5 10 e3.3 e9.8 17.7 e3.3 1.9 e3.2 e2.2 2.9 0.9 0.68 1.60 0.85 0.71 3.11 0.42 2.29 0.09 0.68 1.60 0.85 0.71 3.11 0.42 2.29 0.09 0.68 1.60 0.85 0.71 3.11 0.42 2.29 0.09 0.68 1.60 0.85 0.71 3.11 0.42 2.29 0.09 0.68 1.60 0.85 0.71 3.11 0.42 2.29 0.09 0.68 1.60 0.85 0.71 3.11 0.42 2.29 0.09 0.68 1.60 0.85 0.71 3.11 0.42 2.29 0.09 0.68 1.60 0.85 0.71 3.11 0.42 2.29 0.00 0.00 0.80 1.446.6 768.8 581.7 2.813.9 369.6 2.073.7 1.8 59.6 24.8 36.3 33.5 43.9 55.9 42.0 2.9.3 1.7 2.8 2.2 2.1 3.2 3.1 5.9 2.2 2.2 2.2 2.0 0.9 0.68 1.60 0.85 0.71 3.11 0.42 2.29 0.9 0.68 1.60 0.85 0.71 3.11 0.42 2.29 0.9 0.68 1.60 0.85 0.71 3.11 0.42 2.29 0.9 0.68 1.60 0.85 0.71 3.	OCT	OCT NOV DEC JAN FEB MAR APR MAY JUN JUL 1.5 3.3 43 182 e40 e74 19 17 2.7 0.99 1.5 2.4 3.9 89 e54 e6.6 144 100 1.8 0.73 1.4 2.2 3.1 3.9 e50 e5.9 11 29 11 0.62 1.5 2.2 2.7 2.9 220 e7.0 18 15 11 1.7 3.2 2.4 2.9 25 e35 e29 48 439 5.7 593 1.6 8.7 2.7 2.2 e16 c37 18 9.2 3.5 147 1.1 4 8.8 2.5 2.7 2.2 e16 c37 18 9.2 3.5 147 1.4 4 3.1 2.1 143 e5.8 26.2 2.2 e16 c37 18 9.2 3.5 147 1.4 4 3.1 2.1 143 e5.8 26.2 2.2 e16 e37 18 9.2 3.5 147 1.5 191 2.2 67.0 e5.0 68 42 44 2.4 3.3 35 1.5 191 2.2 163 e22 e4.4 86 13 352 2.3 69 1.2 166 2.3 e22 e4.4 86 13 352 2.3 69 1.2 12 15 2.3 e14 e4.0 214 9.9 85 9.9 44 1.3 10 2.7 e8.4 e3.5 211 6.2 31 52 21 1.3 10 2.7 e8.4 e3.5 211 6.2 31 52 21 1.3 10 2.7 e8.4 e3.5 211 6.2 31 52 21 1.3 10 2.7 e8.4 e3.5 211 6.2 31 52 21 1.2 2.9 1.2 8 e5.7 e3.2 113 6.2 31 52 21 1.2 2.9 1.2 8 e5.7 e3.2 113 6.2 31 52 21 1.2 2.9 1.2 8 e5.7 e3.2 113 6.2 31 52 21 1.2 2.9 1.2 8 e5.7 e3.2 113 6.2 31 3.5 2 21 1.2 2.1 2.8 e5.8 e3.2 113 4.6 22 31 52 21 1.2 2.1 2.8 e5.7 e3.2 113 4.6 22 31 52 21 1.2 2.2 1.2 8 e5.8 e3.2 113 4.6 22 31 52 21 1.2 2.3 2 1.2 8 e5.8 e3.2 113 4.6 22 31 52 21 1.2 2.3 2 1.2 8 e5.8 e3.2 e3.2 113 4.6 22 31 52 21 1.2 2.4 8.6 2.7 e5.2 e3.2 113 4.6 22 31 52 21 1.2 2.5 8.6 2.7 e5.2 e3.2 113 4.6 22 31 52 21 1.2 2.5 8.6 2.7 e5.2 e3.2 113 4.6 22 31 52 21 1.2 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2	OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG

e Estimated

03326070 BIG LICK CREEK NEAR HARTFORD CITY, IN—Continued



03326500 MISSISSINEWA RIVER AT MARION, IN

LOCATION.--Lat 40°34'34", long 85°39'34", in SE ½NE½, sec.31, T.25 N., R.8 E., Grant County, Hydrologic Unit 05120103, (MARION, IN. quadrangle), on left bank 12 ft downstream from Highland Avenue bridge in Marion, 0.1 mi downstream from old mill dam, 1.0 mi upstream from Hummel Creek, 4.6 mi downstream from Lugar Creek, and at mile 35.8.

DRAINAGE AREA.--682 mi².

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

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

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

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow periodically regulated by dam 0.1 mile above station. 1930 water year not used in summary statistics.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

NOV DEC JAN FEB MAR APR MAY

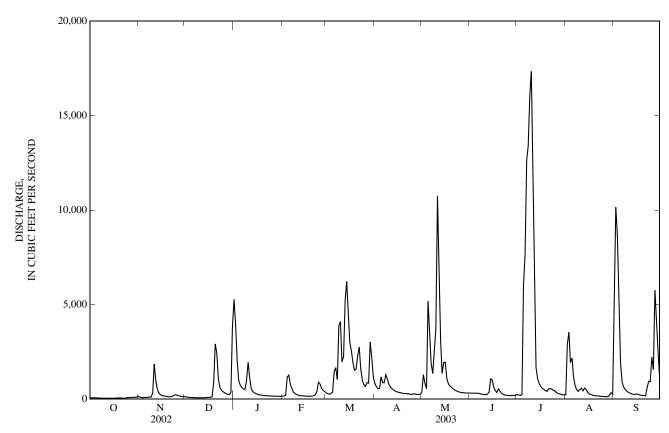
139 126 5,280 e160 e320 830 362

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	139	126	5,280	e160	e320	830	362	320	243	249	3,690
2	72	100	111	3,990	e170	e290	663	1,290	318	219	2,890	10,200
3	66	81	102	2,070	e200	e260	559	847	318	196	3,550	8,650
4	80	79	79	1,010	1,170	e300	555	550	318	250	1,930	6,110
5	68	91	91	739	1,270	384	1,180	5,200	318	6,020	2,170	1,930
6	64	92	81	613	799	1,460	872	3,770	318	7,650	1,170	898
7	59	101	81	535	562	1,670	873	1,880	291	12,600	700	647
8	54	119	84	518	e370	1,050	1,300	1,360	272	13,400	509	511
9	50	106	69	971	e300	3,870	1,070	2,520	251	16,100	412	428
10	50	315	78	1,950	e250	4,100	776	3,730	244	17,300	510	363
11	49	1,860	79	1,140	e210	1,960	641	10,700	231	13,100	580	315
12	49	976	77	e560	e190	2,240	555	6,740	271	5,040	440	284
13	51	531	77	e400	e180	5,220	485	3,130	369	1,670	586	255
14	50	325	83	e340	e175	6,230	430	1,360	1,070	1,090	510	245
15	47	236	90	e290	e170	4,580	389	1,930	1,020	829	374	275
16	49	194	95	e260	e160	3,010	367	1,960	630	679	280	266
17	47	174	99	e240	e154	2,550	348	1,090	451	579	249	228
18	52	158	122	e220	e155	1,940	328	805	361	514	219	206
19	70	142	903	e205	e160	1,530	310	699	543	460	194	197
20	59	127	2,920	e195	e165	1,590	299	630	419	408	181	188
21	60	125	2,410	e185	e180	2,280	296	549	309	545	174	179
22	53	137	1,060	e180	e230	2,750	286	486	252	555	170	618
23	53	167	623	e175	e410	1,600	270	443	219	537	156	945
24	54	217	472	e170	e900	1,000	254	407	202	462	147	930
25	88	230	393	e164	e800	774	266	377	188	444	142	2,220
26 27 28 29 30 31	84 88 97 101 98 119	193 168 152 140 133	343 276 262 239 363 3,830	e160 e158 e156 e154 e152 e150	e560 e460 e400 	679 868 851 3,010 2,220 1,170	285 267 250 249 248	358 348 338 328 321 323	188 189 187 200 206	353 310 277 255 237 228	139 135 130 221 339 258	1,560 5,760 4,260 2,450 1,100
TOTAL	2,051	7,608	15,718	23,330	10,910	61,756	15,501	54,831	10,473	102,550	19,714	55,908
MEAN	66.2	254	507	753	390	1,992	517	1,769	349	3,308	636	1,864
MAX	119	1,860	3,830	5,280	1,270	6,230	1,300	10,700	1,070	17,300	3,550	10,200
MIN	47	79	69	150	154	260	248	321	187	196	130	179
CFSM	0.10	0.37	0.74	1.10	0.57	2.92	0.76	2.59	0.51	4.85	0.93	2.73
IN.	0.11	0.41	0.86	1.27	0.60	3.37	0.85	2.99	0.57	5.59	1.08	3.05
STATIST	ICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1924 - 2003,	BY WATE	R YEAR (W	YY)			
MEAN	196	401	688	891	946	1,245	1,133	741	633	434	209	245
MAX	2,259	2,626	2,947	5,129	2,707	3,181	3,699	3,776	4,765	3,308	1,522	4,223
(WY)	(2002)	(1993)	(1991)	(1930)	(1990)	(1982)	(1964)	(1933)	(1958)	(2003)	(1998)	(1926)
MIN	22.8	28.0	36.9	36.1	52.5	65.3	123	40.5	49.3	32.6	25.4	24.1
(WY)	(1929)	(1929)	(1964)	(1945)	(1964)	(1941)	(1941)	(1941)	(1988)	(1936)	(1940)	(1940)

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03326500 MISSISSINEWA RIVER AT MARION, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	ENDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEARS	S 1924 - 2003
ANNUAL TOTAL	240,540		380,350			
ANNUAL MEAN	659		1,042		638	
HIGHEST ANNUAL MEAN					1,167	1927
LOWEST ANNUAL MEAN					106	1941
HIGHEST DAILY MEAN	12,200	May 14	17,300	Jul 10	23,400	Jun 11, 1958
LOWEST DAILY MEAN	33	Sep 5	47	Oct 15	3.4	Oct 25, 1968
ANNUAL SEVEN-DAY MINIMUM	36	Sep 13	49	Oct 11	8.4	Oct 17, 1940
MAXIMUM PEAK FLOW		•	17,700	Jul 10	25,000	Mar 21, 1927
MAXIMUM PEAK STAGE			14.25	Jul 10	17.40	Mar 21, 1927
ANNUAL RUNOFF (CFSM)	0.97		1.53		0.94	
ANNUAL RUNOFF (INCHES)	13.12		20.75		12.70	
10 PERCENT EXCEEDS	1,560		2,480		1,500	
50 PERCENT EXCEEDS	188		318		202	
90 PERCENT EXCEEDS	54		84		48	



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, (PEORIA, IN. quadrangle), 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 September 1976 (discharge). October 1976 to September 2001 (discharge provided by U.S. Army Corps of Engineers). October 2001 to current year (stage only).

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

GAGE.--Water-stage recorder. Datum of gage is 660.00 ft above National Geodetic Vertical Datum of 1929. Oct. 1, 1962, to Sept. 30, 1974, water-stage recorder site described in "LOCATION" paragraph. Prior to Oct. 7, 1954, nonrecording gage and crest-stage gage on highway bridge 2,500 ft upstream, and Oct. 7, 1954, to Sept. 30, 1962, water-stage recorder on right bank at site 2,500 ft upstream at same datum.

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

COOPERATION.--Records of daily discharge provided by U.S. Army Corps of Engineers October 1976 to September 2001.

EXTREMES FOR PERIOD OF RECORD.--(October 2001 to current year) maximum gage height, 9.23 ft, July 10, 2003; minimum gage height, -0.53 ft, Nov. 21, 2002. (October 1952 to September 1976) maximum discharge, 28,000 ft⁻³/s, June 11, 1958; maximum gage height, 19.26 ft, June 11, 1958 site then in use; minimum discharge, zero flow, Sept. 11 to Oct. 2, 1985, Oct. 21 to Nov. 22, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 9.23 ft, July 10; minimum gage height, -0.53 ft, Nov. 21.

GAGE HEIGHT, FEET WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.10	1.20	1.29	6.75	1.61	2.21	2.95	1.61	1.85	1.51	1.49	1.75
2	0.83	1.20	1.29	7.07	1.61	2.21	2.39	3.59	1.85	1.51	5.38	7.06
3	1.10	1.20	1.39	6.40	1.62	1.71	2.17	3.34	1.89	1.51	6.07	8.11
4	1.10	0.99	1.39	3.74	3.23	1.71	2.19	2.74	1.89	1.79	4.66	8.15
5	0.83	1.00	1.22	3.72	3.25	1.71	2.22	7.03	1.89	1.61	2.78	8.07
6 7 8 9 10	0.84 0.84 0.84 0.84	1.00 1.25 1.24 1.24 1.25	1.22 1.10 1.23 1.21 1.22	2.47 2.47 2.10 2.10 4.93	3.26 3.25 2.09 2.09 2.09	3.92 4.68 3.70 6.95 7.02	3.75 3.98 3.98 3.97 3.28	7.61 6.96 4.99 3.37 3.42	1.89 1.89 1.89 1.89 1.61	8.27 8.37 8.60 9.18 8.70	4.69 4.66 4.61 2.44 2.22	7.96 7.76 7.01 4.23 2.41
11	0.70	4.42	1.21	3.79	1.71	5.81	2.74	8.05	1.62	8.95	2.41	2.22
12	0.70		1.21	2.53	1.70	4.14	1.57	8.43	2.03	9.03	2.41	1.98
13	0.70	2.62	1.22	2.15	1.29	7.87	1.57	8.37	2.79	9.11	2.41	1.66
14	0.70	1.99	1.22	2.15	1.53	8.01	1.57	8.32	3.82	9.15	2.71	1.68
15	0.85	1.63	1.22	1.85	1.53	8.02	1.57	7.61	3.82	9.05	2.29	1.68
16	0.85	1.62	1.21	1.85	1.53	7.90	1.57	7.53	3.27	9.05	2.02	1.68
17	0.85	1.02	1.29	1.85	1.53	5.86	1.99	7.39	2.61	8.98	1.61	1.94
18	0.86	1.34	1.29	1.84	1.53	4.33	1.99	5.73	1.54	8.96	1.61	1.94
19	0.86	1.33	2.83	1.58	1.53	4.51	1.99	2.77	1.54	8.92	1.61	1.51
20	0.86	1.32	6.21	1.58	1.53	4.50	1.99	3.01	2.31	8.85	1.61	1.51
21	0.85	1.31	4.79	1.57	1.53	4.51	1.77	2.43	2.31	7.45	1.39	1.51
22	0.85	1.31	3.55	1.58	1.53	5.85	1.77	2.43	2.04	6.76	1.68	1.69
23	0.86	1.54	2.45	1.57	1.53	4.51	1.77	1.98	1.73	6.34	1.68	3.77
24	0.86	1.86	2.45	1.57	3.69	3.69	1.77	1.98	1.51	5.20	1.51	3.79
25	0.86	1.66	1.74	1.39	3.69	3.22	1.77	2.21	1.51	5.15	1.39	5.72
26 27 28 29 30 31	0.86 1.18 1.18 1.24 1.22 1.21	1.66 1.66 1.54 1.27 1.29	1.74 1.74 1.74 1.74 1.74 6.61	1.39 1.39 1.39 1.39 1.39	2.73 2.21 2.21 	2.47 3.24 2.71 5.87 5.85 4.12	1.47 1.47 1.48 1.59 1.60	2.21 2.20 1.84 1.85 1.85 1.85	1.50 1.50 1.50 1.50 1.50	5.09 4.51 2.87 1.94 1.94 1.93	1.39 1.39 1.39 1.69 1.69 1.73	4.31 5.88 7.21 7.15 7.02
MEAN	0.91		1.99	2.55	2.09	4.61	2.20	4.35	2.02	6.14	2.47	4.28
MAX	1.24		6.61	7.07	3.69	8.02	3.98	8.43	3.82	9.18	6.07	8.15
MIN	0.70		1.10	1.39	1.29	1.71	1.47	1.61	1.50	1.51	1.39	1.51

03327000 MISSISSINEWA RIVER AT PEORIA, IN—Continued

WATER-QUALITY RECORDS

INSTRUMENTATION.--Temperature recorder.

PERIOD OF RECORD .--

WATER TEMPERATURE.--October 1987 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 29.1°C, Aug. 4, 2002; minimum, -0.3°C, Jan. 27-31, 1996.

EXTREMES FOR CURRENT YEAR.-- WATER TEMPERATURE: Maximum, 26.7°C, Aug.26, minimum, 0.9°C, Mar. 11.

TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	(ОСТОВЕ	3	N	OVEMBE	ER	D	ECEMBE	ER.	j	JANUARY	7
1 2 3 4 5	22.1 21.6 21.8 21.7 21.2	20.8 19.5 19.3 21.1 19.2	21.3 21.0 21.1 21.6 20.6	11.2 10.8 10.1 10.7 9.6	10.4 9.9 9.6 9.6 9.3	10.8 10.3 9.8 9.9 9.4	5.3 5.5 4.4 3.5 4.5	4.3 4.0 3.5 3.0 2.9	4.7 4.6 3.8 3.2 3.5	2.8 3.9 4.1 3.9 3.3	2.4 2.5 3.9 3.2 3.0	2.6 3.3 4.0 3.5 3.1
6 7 8 9	20.4 20.2 19.4 19.4 19.3	20.0 19.3 18.8 18.6 18.4	20.2 19.7 19.1 19.0 18.8	9.3 9.6 9.6 9.7 10.2	8.9 8.6 8.7 9.1 9.7	9.1 9.0 9.1 9.3 9.9	4.3 5.0 4.0 3.9 3.6	2.9 2.7 2.8 2.5 2.9	3.4 3.3 3.3 3.1 3.3	3.9 3.0 3.3 3.8 2.7	2.8 2.6 2.5 2.6 2.2	3.2 2.8 2.8 2.9 2.5
11 12 13 14 15	18.9 18.7 18.5 17.8 17.4	18.0 18.3 17.2 16.6 16.2	18.5 18.5 17.9 17.1 16.8	9.8 9.1 8.9 8.9 8.8	8.9 8.7 8.6 8.6 8.5	9.3 9.0 8.7 8.7 8.7	3.9 3.9 3.6 4.1 4.6	3.2 3.0 3.2 3.2 3.0	3.5 3.4 3.3 3.5 3.6	2.4 2.3 3.0 2.1 2.4	1.7 1.6 1.6 1.6 1.6	2.0 1.7 1.8 1.8
16 17 18 19 20	16.9 15.9 15.5 15.7 15.3	15.9 15.5 15.1 14.8 14.3	16.4 15.7 15.3 15.2 14.7	8.5 8.6 8.6	8.0 7.6 7.3 	8.3 8.1 7.8	3.9 2.9 4.5 4.4 3.6	2.8 2.6 2.6 3.6 3.3	3.4 2.7 3.6 4.0 3.5	2.1 2.3 2.0 3.2 2.4	1.6 1.6 1.6 1.6 1.8	1.8 1.8 1.7 1.9 2.0
21 22 23 24 25	15.1 14.9 13.9 13.6 13.0	13.9 13.9 13.4 13.0 12.6	14.4 14.3 13.6 13.3 12.8	8.3 8.3 8.3 8.1	7.5 7.3 7.1 7.0	7.8 7.6 7.5 7.3	3.4 3.9 3.7 3.2 4.5	3.2 3.3 3.2 2.6 2.5	3.3 3.4 3.3 3.0 2.9	2.5 2.2 2.0 2.0 2.8	1.6 1.6 1.4 1.4 1.5	2.0 1.7 1.6 1.6 1.8
26 27 28 29 30 31	12.7 12.8 12.9 12.4 11.6 11.6	12.5 12.1 12.1 11.5 11.2 11.0	12.6 12.5 12.4 11.9 11.4 11.3	7.0 7.2 6.8 7.4 5.8	6.6 6.0 5.8 5.7 4.7	6.8 6.5 6.2 6.2 5.4	2.9 2.9 2.7 3.1 3.2 3.3	2.5 2.2 2.3 2.2 2.3 2.7	2.7 2.5 2.4 2.5 2.7 2.9	2.0 2.0 2.2 2.1 2.5 2.1	1.4 1.4 1.5 1.6 1.5	1.6 1.6 1.8 1.8 1.8
MONTH	22.1	11.0	16.4				5.5	2.2	3.3	4.1	1.4	2.2

03327000 MISSISSINEWA RIVER AT PEORIA, IN—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN FEBRUARY	MEAN	MAX	MIN MARCH	MEAN	MAX	MIN APRIL	MEAN	MAX	MIN MAY	MEAN
1 2 3 4 5	2.2 2.5 2.2 2.0 2.2	1.8 1.8 1.8 1.6 1.7	1.9 2.0 2.0 1.8 1.9	2.0 1.9 3.1 2.6 2.7	1.6 1.4 1.4 1.6 1.7	1.9 1.7 1.7 1.9 2.0	10.4 10.9 11.4 12.1 11.4	9.6 10.1 10.4 10.8 10.0	9.9 10.4 10.9 11.5 10.6	14.8 14.4 14.9 15.4 16.7	13.7 13.6 14.2 14.0 15.1	14.2 14.0 14.6 14.8 16.1
6 7 8 9 10	2.2 2.3 3.2 2.4 2.2	1.9 1.8 1.8 1.6 1.7	2.0 2.0 2.0 1.9 1.9	2.3 1.9 1.8 1.4 1.1	1.6 1.4 1.3 1.1 1.0	1.8 1.7 1.4 1.3 1.0	10.7 10.4 9.7 9.8 9.5	10.4 9.7 9.5 9.3 8.4	10.6 9.9 9.6 9.5 9.0	16.4 17.4 17.4 17.3 16.1	15.9 15.9 15.8 15.2 15.3	16.1 16.8 16.5 15.8 15.8
11 12 13 14 15	3.2 3.0 3.5 2.6 2.4	1.7 1.6 1.8 1.8 1.8	2.0 2.0 2.2 2.2 2.0	1.3 1.7 1.2 2.0 2.2	0.9 1.0 1.0 1.2 1.9	1.0 1.1 1.0 1.7 2.0	8.8 9.8 11.2 11.6 11.1	7.5 7.3 7.2 8.9 10.0	8.1 8.2 8.9 9.9 10.5	17.4 17.2 16.9 16.8 16.6	15.4 16.7 16.6 16.5 15.9	16.6 16.9 16.7 16.7 16.2
16 17 18 19 20	2.3 2.7 2.5 3.3 3.5	1.8 1.9 2.0 2.0 1.8	2.0 2.2 2.2 2.4 2.3	2.9 4.1 5.3 5.9 8.4	2.2 2.9 4.1 5.0 5.8	2.4 3.5 4.7 5.4 7.2	11.6 13.0 12.6 13.1 13.9	10.2 11.6 11.5 11.5 12.5	10.9 12.4 11.9 12.3 12.9	16.1 16.2 16.4 16.2 15.9	15.7 15.8 15.5 15.3 15.4	15.9 16.0 16.1 15.9 15.6
21 22 23 24 25	2.5 2.3 2.9 2.1 2.2	1.8 1.4 1.5 1.7 1.8	2.1 1.9 2.0 1.9	8.6 8.7 9.8 9.8 10.5	6.7 8.1 8.7 9.1 9.5	8.0 8.4 9.2 9.4 10.0	12.7 13.1 13.7 13.6 13.1	11.6 11.8 11.9 12.2 12.8	12.1 12.2 12.6 12.9 13.0	16.7 16.7 16.3 16.7 16.8	15.5 15.6 15.4 15.7 16.0	16.0 16.0 15.8 16.0 16.4
26 27 28 29 30 31	2.2 2.7 2.8 	1.6 1.6 1.7 	1.9 1.9 2.1 	10.3 12.0 11.4 11.0 10.8 10.6	9.1 9.5 10.8 10.8 10.5 9.4	9.7 10.7 11.1 10.9 10.7 9.9	14.2 14.6 14.1 15.4 15.1	12.4 12.2 12.8 12.8 13.6	13.0 13.1 13.3 13.8 14.2	17.1 17.1 17.1 17.0 17.2 17.4	16.2 16.2 15.2 16.4 16.4 16.5	16.5 16.6 16.5 16.7 16.9 17.1
MONTH	3.5	1.4	2.0	12.0	0.9	5.0	15.4	7.2	11.3	17.4	13.6	16.1
MONTH												
		JUNE			JULY			AUGUST			ЕРТЕМВ	ER
1 2 3 4 5	18.0 18.2 17.8 17.8 18.2		17.1 17.4 17.6 17.3 17.4	23.7 23.6 23.7 23.9 23.8		22.3 22.0 22.4 22.6 22.6		AUGUST 21.3 23.8 25.0 23.4 22.2		S 24.6 24.8 22.8 21.9 22.1	23.8 22.8 21.8 21.4 21.4	
1 2 3 4	18.0 18.2 17.8 17.8	JUNE 16.5 16.7 17.4 16.9	17.1 17.4 17.6	23.7 23.6 23.7 23.9	JULY 21.4 18.4 21.6	22.3 22.0 22.4	25.1 25.7 25.9 25.0	21.3 23.8 25.0	24.1 24.8 25.6 24.5	24.6 24.8 22.8 21.9	23.8 22.8 21.8 21.4	24.5 23.9 22.2 21.7
1 2 3 4 5 6 7 8 9	18.0 18.2 17.8 17.8 18.2 18.1 18.6 18.0 18.3	JUNE 16.5 16.7 17.4 16.9 16.9 17.1 17.5 17.1	17.1 17.4 17.6 17.3 17.4 17.5 17.9 17.5	23.7 23.6 23.7 23.9 23.8 24.1 24.1 23.6 23.9	JULY 21.4 18.4 21.6 22.0 20.9 22.4 22.4 22.8	22.3 22.0 22.4 22.6 22.6 23.2 23.2 23.2	25.1 25.7 25.9 25.0 24.0 25.5 24.4 24.4 24.1	21.3 23.8 25.0 23.4 22.2 21.6 23.9 23.9 21.8	24.1 24.8 25.6 24.5 23.5 23.7 24.1 24.1 23.2	24.6 24.8 22.8 21.9 22.1 22.1 22.1 22.0	23.8 22.8 21.8 21.4 21.4 21.5 21.6 21.0 21.1	24.5 23.9 22.2 21.7 21.8 21.9 21.9 21.8 21.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14	18.0 18.2 17.8 17.8 18.2 18.1 18.6 18.0 18.3 18.6 19.0 19.1 18.6 19.6	JUNE 16.5 16.7 17.4 16.9 16.9 17.1 17.5 17.1 17.1 15.7 18.2 18.3 16.6 17.4	17.1 17.4 17.6 17.3 17.4 17.5 17.9 17.5 17.6 17.9 18.5 18.6 17.6 18.3	23.7 23.6 23.7 23.9 23.8 24.1 24.1 23.6 23.9 24.0 24.1 23.9 24.1	JULY 21.4 18.4 21.6 22.0 20.9 22.4 22.8 22.4 22.2 22.5 22.9 22.9	22.3 22.0 22.4 22.6 22.6 23.2 23.2 23.2 23.4 23.5 23.5 23.5 23.8 23.7 23.8	25.1 25.7 25.9 25.0 24.0 25.5 24.4 24.4 24.1 24.0 24.5 24.7	21.3 23.8 25.0 23.4 22.2 21.6 23.9 23.9 21.8 22.4 23.6 23.6 23.9 24.0	24.1 24.8 25.6 24.5 23.5 23.7 24.1 24.1 23.2 23.1 23.9 24.1 24.1 24.3	24.6 24.8 22.8 21.9 22.1 22.1 22.0 22.0 22.0 22.5 22.4 22.6 22.7	23.8 22.8 21.8 21.4 21.4 21.5 21.6 21.0 21.1 20.8 20.8 21.5 21.0 21.3	24.5 23.9 22.2 21.7 21.8 21.9 21.8 21.7 21.3 21.6 21.8 21.8 21.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	18.0 18.2 17.8 17.8 18.2 18.1 18.6 18.0 18.3 18.6 19.0 19.1 18.6 19.7 20.0 20.1 19.6 20.4	JUNE 16.5 16.7 17.4 16.9 16.9 17.1 17.5 17.1 17.1 15.7 18.2 18.3 16.6 17.4 18.5	17.1 17.4 17.6 17.3 17.4 17.5 17.9 17.5 17.6 17.9 18.5 18.6 17.6 18.3 19.1	23.7 23.6 23.7 23.9 23.8 24.1 24.1 23.6 23.9 24.0 24.1 23.9 24.1 24.0 23.9 24.1 24.0 24.1 24.0 24.1 24.0 24.1 24.0 24.1	JULY 21.4 18.4 21.6 22.0 20.9 22.4 22.4 22.8 22.4 22.2 22.5 22.9 22.9 23.0 22.6 22.9 23.1 23.6	22.3 22.0 22.4 22.6 22.6 23.2 23.2 23.2 23.2 23.5 23.5 23.8 23.7 23.8 23.8 23.7 23.8 23.9	25.1 25.7 25.9 25.0 24.0 25.5 24.4 24.4 24.1 24.0 24.5 24.7 24.6 24.7 24.8 25.1 25.5 25.5 25.5	21.3 23.8 25.0 23.4 22.2 21.6 23.9 21.8 22.4 23.6 23.6 23.9 24.0 21.9 22.4 21.5 23.9 24.0	24.1 24.8 25.6 24.5 23.5 23.7 24.1 23.2 23.1 23.9 24.1 24.3 24.2 24.3 24.5 24.5 24.6	24.6 24.8 22.8 21.9 22.1 22.1 22.1 22.0 22.0 22.0 22.5 22.4 22.6 22.7 22.3 22.9 23.2 23.1 22.3	23.8 22.8 21.8 21.4 21.4 21.5 21.6 21.0 21.1 20.8 20.8 21.5 21.0 21.3 21.3 21.3 21.4 21.5	24.5 23.9 22.2 21.7 21.8 21.9 21.9 21.8 21.7 21.3 21.6 21.8 21.8 21.8 21.6 21.9 22.1 22.1 22.1 22.3 21.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	18.0 18.2 17.8 17.8 18.2 18.1 18.6 18.0 18.3 18.6 19.0 19.1 19.6 20.1 19.6 20.4 20.9 21.4 21.4 22.0 22.1	JUNE 16.5 16.7 17.4 16.9 16.9 17.1 17.5 17.1 17.1 15.7 18.2 18.3 16.6 17.4 18.5 18.6 18.0 18.1 18.9 18.8	17.1 17.4 17.6 17.3 17.4 17.5 17.6 17.9 18.5 18.6 17.6 18.3 19.1 19.6 19.3 18.8 19.4 19.9 20.6 20.9 21.0	23.7 23.6 23.7 23.9 23.8 24.1 24.1 23.6 23.9 24.0 24.1 24.0 24.2 24.2 24.2 24.2 24.2 24.2	JULY 21.4 18.4 21.6 22.0 20.9 22.4 22.8 22.4 22.2 22.5 22.9 23.0 22.6 22.9 23.1 23.6 23.7 23.4 23.2 23.3 23.2	22.3 22.0 22.4 22.6 22.6 23.2 23.2 23.2 23.4 23.5 23.5 23.8 23.7 23.8 23.8 23.7 23.8 23.9 23.9 23.9	25.1 25.7 25.9 25.0 24.0 25.5 24.4 24.4 24.1 24.0 24.5 24.7 24.8 25.1 25.7 25.5 25.5 25.6 25.9 25.9	21.3 23.8 25.0 23.4 22.2 21.6 23.9 23.9 21.8 22.4 23.6 23.9 24.0 21.9 24.0 24.1 22.9 24.0 24.3 23.4	24.1 24.8 25.6 24.5 23.5 23.7 24.1 24.1 23.2 23.1 24.1 24.3 24.2 24.3 24.5 24.5 24.6 24.6 24.6 24.9 24.9 24.8	24.6 24.8 22.8 21.9 22.1 22.1 22.0 22.0 22.0 22.0 22.3 22.9 23.1 22.3 23.0 23.1 22.2 22.0 21.3	23.8 22.8 21.8 21.4 21.4 21.5 21.6 21.0 21.1 20.8 20.8 21.5 21.0 21.3 21.3 21.3 21.4 21.9 21.5 21.4 21.9 21.5 21.4	24.5 23.9 22.2 21.7 21.8 21.9 21.8 21.7 21.3 21.6 21.8 21.8 21.6 21.8 21.8 21.8 21.8 21.8 21.8 21.6 21.9 22.1 22.3 21.8 21.8 21.9

03327500 WABASH RIVER AT PERU, IN

LOCATION.--Lat $40^{\circ}44^{\circ}35^{\circ}$, long $86^{\circ}05^{\circ}45^{\circ}$, in $SE^{1}_{4}NE^{1}_{4}$ sec. 32, T.27 N., R.4 E., Miami County, Hydrologic Unit 05120101, (BUNKER HILL, IN quadrangle), on right bank at upstream side of bridge on U.S. Highway 31, 0.5 mi southwest of Peru, 4.4 mi downstream from Mississinewa River, and at mile 370.5.

DRAINAGE AREA.--2,686 mi².

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

REVISED RECORDS.--WSP 2109: Drainage area. WDR IN-74-1: 1973. WDR IN-81-1: 1979.

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

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by reservoirs on Wabash River (station 03323500), Salamonie River (station 03324500) and Mississinewa River (station 03327000).

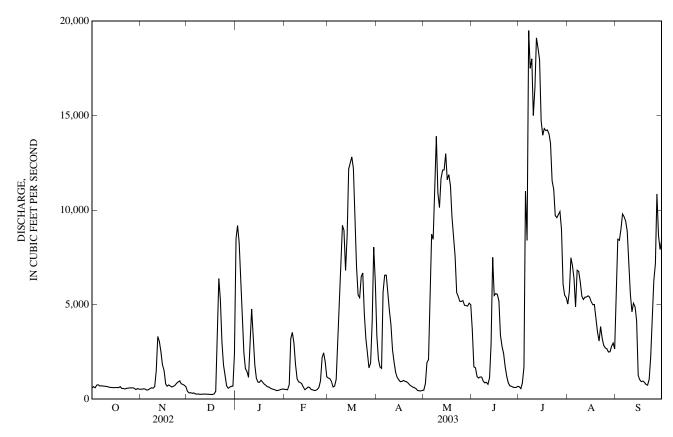
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 26, 1913, reached a stage of 28.1 ft, discharge, 115,000 ft³/s, from rating curve extended above $63,000 \text{ ft}^3/\text{s}.$

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	594	522	414	8,490	e520	1,120	3,360	475	3,680	661	5,030	5,020
2	660	530	332	9,190	e510	1,080	2,110	825	1,710	557	5,680	8,460
3	605	546	341	8,280	e500	928	1,710	1,920	1,660	849	7,470	8,400
4	744	537	310	6,660	e760	645	1,630	2,100	1,210	e1,700	7,070	9,010
5	761	483	328	4,440	e3,200	693	5,670	5,840	1,120	e11,000	6,360	9,800
6	692	500	e280	2,460	3,530	1,050	6,560	8,720	1,180	e8,400	4,880	9,650
7	704	556	e270	1,620	2,950	2,590	6,560	8,460	1,170	e19,500	6,820	9,420
8	695	599	e275	1,460	1,860	4,240	5,640	10,600	953	e17,500	6,760	8,860
9	683	581	e255	1,160	1,090	6,250	4,680	13,900	862	e18,000	6,200	7,120
10	677	664	e260	2,940	918	9,190	3,950	10,900	891	e15,000	5,440	5,560
11	659	1,470	e265	4,770	e880	8,930	2,610	10,100	785	16,500	5,270	4,610
12	632	3,310	270	3,190	e820	6,820	1,970	11,700	1,130	19,100	5,390	5,080
13	621	3,070	265	1,800	e640	8,680	1,410	12,100	2,900	18,600	5,400	4,890
14	613	2,500	262	1,110	e500	12,200	1,160	12,100	7,500	18,000	5,460	4,170
15	610	1,820	258	903	e560	12,500	1,020	13,000	5,480	14,700	5,390	1,260
16	616	1,530	248	893	e640	12,800	926	11,600	5,590	14,000	5,150	1,030
17	615	808	249	998	e620	12,200	937	11,900	5,540	14,300	4,990	927
18	607	685	273	902	e510	9,780	992	11,300	5,190	14,200	5,010	956
19	661	751	417	e800	494	7,010	942	9,660	3,380	14,200	4,290	891
20	572	696	2,610	e740	454	5,510	920	8,570	2,790	14,000	3,560	774
21	564	648	6,380	e660	468	5,370	856	7,570	2,400	13,500	3,070	740
22	538	682	5,270	e640	513	6,480	751	5,640	1,720	11,500	3,840	1,050
23	576	726	3,000	e580	619	6,680	694	5,440	1,200	11,100	3,220	2,210
24	584	836	1,820	e540	980	4,470	638	5,170	866	9,710	2,840	3,970
25	596	910	1,280	e520	2,200	3,200	605	5,170	706	9,600	2,710	6,250
26 27 28 29 30 31	601 602 573 507 556 533	966 811 783 733 654	704 580 639 675 692 2,380	e490 e450 e470 e490 e520 e540	2,450 1,960 1,180 	2,370 1,650 1,910 4,120 8,040 6,200	563 458 444 434 462	5,220 4,970 4,950 4,930 5,070 4,990	686 634 619 622 674	9,760 9,920 8,980 6,070 5,510 5,380	2,660 2,490 2,510 2,790 2,970 2,660	7,170 10,900 8,640 7,910 8,400
TOTAL	19,251	29,907	31,602	68,706	32,326	174,706	60,662	234,890	64,848	351,797	143,380	163,128
MEAN	621	997	1,019	2,216	1,154	5,636	2,022	7,577	2,162	11,350	4,625	5,438
MAX	761	3,310	6,380	9,190	3,530	12,800	6,560	13,900	7,500	19,500	7,470	10,900
MIN	507	483	248	450	454	645	434	475	619	557	2,490	740
CFSM	0.23	0.37	0.38	0.83	0.43	2.10	0.75	2.82	0.80	4.22	1.72	2.02
IN.	0.27	0.41	0.44	0.95	0.45	2.42	0.84	3.25	0.90	4.87	1.99	2.26
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1944 - 2003,	BY WATE	R YEAR (W	Y)			
MEAN	1,156	1,714	2,687	3,290	3,705	4,624	4,075	2,541	2,429	1,724	930	892
MAX	6,340	7,653	8,314	18,500	10,740	10,890	14,840	7,577	14,260	11,350	7,049	5,438
(WY)	(2002)	(1973)	(1958)	(1950)	(1959)	(1982)	(1957)	(2003)	(1958)	(2003)	(1998)	(2003)
MIN	110	150	142	141	247	830	412	345	194	175	163	119
(WY)	(1954)	(1954)	(1964)	(1945)	(1964)	(1983)	(1971)	(1976)	(1988)	(1944)	(1966)	(1963)

03327500 WABASH RIVER AT PERU, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	NDAR	YEAR	FOR 2003 WA	ATER YEAR	WATER YEARS 1944 - 2003		
ANNUAL TOTAL	829,393			1,375,203				
ANNUAL MEAN	2,272			3,768		2,473		
HIGHEST ANNUAL MEAN						4,425	1950	
LOWEST ANNUAL MEAN						691	1954	
HIGHEST DAILY MEAN	13,500	Feb	1	19,500	Jul 7	50,900	Jun 12, 1958	
LOWEST DAILY MEAN	116	Aug	8	248	Dec 16	72	Oct 5, 1946	
ANNUAL SEVEN-DAY MINIMUM	130	Aug		260	Dec 11	85	Oct 29, 1944	
MAXIMUM PEAK FLOW		_		unknown	Jul 7	68,000	May 18, 1943	
MAXIMUM PEAK STAGE				unknown	Jul 7	24.46	May 18, 1943	
ANNUAL RUNOFF (CFSM)	0.85			1.40		0.92	•	
ANNUAL RUNOFF (INCHES)	11.49			19.05		12.51		
10 PERCENT EXCEEDS	6,520			9,790		7,010		
50 PERCENT EXCEEDS	776			1,710		1,020		
90 PERCENT EXCEEDS	237			509		223		



03327520 PIPE CREEK NEAR BUNKER HILL, IN

LOCATION.--Lat $40^{\circ}40^{\circ}06^{\circ}$, long $86^{\circ}05^{\circ}44^{\circ}$, in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 29, T.26 N., R.4 E., Miami County, Hydrologic Unit 05120101, (BUNKER HILL, IN. quadrangle), 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.--May 1968 to October 2003 (discontinued). Occasional low-flow measurements, water years 1960-67.

GAGE.--Water-stage recorder. Datum of gage is 736.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS .-- Records poor.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES DAY OCT NOV DEC JAN **FEB** MAR APR MAY JUN JUL AUG SEP e25 6.3 18 14 283 e17 176 43 74 37 e95 683 6.4 17 13 180 e17 e25 138 48 66 43 e120 e1,450 3 6.1 23 e11 109 e28 e23 110 66 63 48 e115 e1.200 6.7 4 26 e10 74 e110 e23 120 52 63 49 e100 e540 5 7.0 31 e9.7 61 e100 e23 659 881 62 4,050 e96 e330 6 8.2 33 e9.6 53 e80 e24 455 1,160 56 3,940 98 e250 3,990 7.8 37 e9.3 45 e57 e40 310 623 52 80 e180 8 7.1 35 44 329 433 51 e9.4 e40 e120 3,720 67 e140 9 39 e450 1.270 51 6.5 72 e32 250 3,430 60 e120 10 43 9.4 158 e27 e300 197 1,450 49 3,640 54 6.1 e99 6.0 72 9.5 109 e190 163 1.550 48 2.850 50 e80 11 e25 9.7 1,190 62 e23 e160 111 1,350 47 e74 91 12 5.5 133 e70 e22 40 10 13 5.7 501 108 566 301 590 44 e65 6.7 30 e21 405 14 12 e57 495 92 355 643 41 e60 15 6.9 24 13 e48 e20350 86 788 258 301 40 e56 16 22 11 e40 e19 371 83 822 160 232 39 e52 7.0 20 e33 359 77 427 184 37 e49 10 e18 117 18 8.0 19 e30 e18 298 69 291 97 158 34 e48 19 12 18 16 e27 e18 230 62 225 85 136 32 e47 20 15 17 33 e25 e23 325 60 193 72 119 31 e50 21 14 17 60 e23 e33 365 63 166 65 e125 30 e50 22 13 17 45 e22 e51 405 59 141 59 e138 66 e180 23 18 32 e21 e80 52 56 13 252 126 e125 46 e350 24 26 e20 49 51 13 e55 184 e110 33 e640 16 113 25 23 49 19 48 30 14 e20e38 146 104 e100 e900e20 26 19 18 e19 e32 116 51 94 47 e94 29 e1,300 2.7 18 16 e18 e18 e29 100 46 87 47 e88 2.7 e1,200 28 17 15 e16 e18 e28 92 42 81 43 e84 26 e800 29 18 14 e18 329 42 80 43 e80 78 e600 16 30 20 14 17 e17 ---397 41 77 40 e77 113 e500 233 76 31 24 90 e17 e75 63 TOTAL 330.7 6,951 4,171 13,578 2,978 790 603.0 1,822 1,061 30,368 1,821 12,093 **MEAN** 10.7 26.3 19.5 58.8 37.9 224 139 438 99.3 980 58.7 403 MAX 90 283 110 501 659 1,550 4,050 120 1,450 24 72 643 MIN 5.5 14 9.3 43 26 17 17 23 41 40 37 47 **CFSM** 0.07 0.17 0.12 0.37 0.24 1.41 0.87 2.75 0.62 6.16 0.37 2.54 3.18 2.83 IN. 0.080.18 0.14 0.43 0.25 0.98 0.70 7.100.43 1.63 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2003, BY WATER YEAR (WY) **MEAN** 60.4 126 284 182 128 52.4 50.2 166 221 152 902 525 429 980 321 403 MAX 486 797 563 731 648 637 (WY) (2003)(2002)(1993)(1991)(1974)(1990)(1982)(1972)(1996)(1980)(1998)(2003)MIN 6.66 6.67 6.57 3.7025.1 49.7 44.1 28.5 12.4 8.17 7.635.16 (1978)(1976)(WY) (1989)(2000)(1977)(1977)(1981)(2000)(1988)(1988)(1971)(1991)SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1968 - 2003 ANNUAL TOTAL 45,003.2 76,566.7 ANNUAL MEAN 210 123 152 HIGHEST ANNUAL MEAN 266 1993 LOWEST ANNUAL MEAN 67.6 1977 HIGHEST DAILY MEAN 1,760 4,050 Jul 5 4,780 Jan 23, 1999 Feb 1 2.9 LOWEST DAILY MEAN Oct 12 Sep 27, 1999 5.5 Oct 12. 5.5 Sep 22, 1999 ANNUAL SEVEN-DAY MINIMUM 6.2 9 3.4 Oct 9 6.2 Oct Jan 23, 1999 MAXIMUM PEAK FLOW 5 5,440 4.700 Jul 16.91 18.50 MAXIMUM PEAK STAGE Jul 5 Jan 23, 1999 ANNUAL RUNOFF (CFSM 0.78 1.32 0.96 ANNUAL RUNOFF (INCHÉS) 10.53 17.91 13.02 10 PERCENT EXCEEDS 297 440 367

52

13

55

10

34

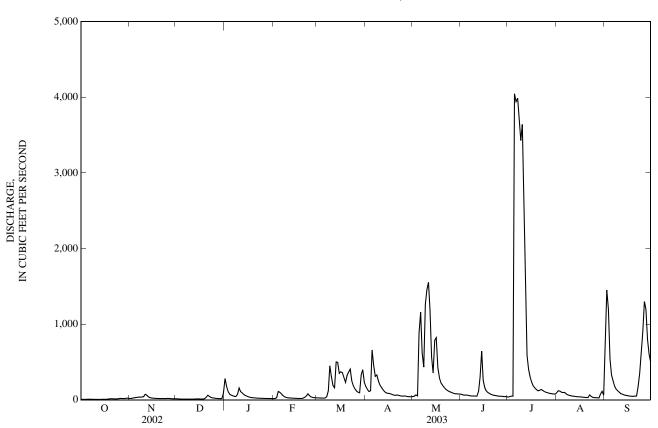
8.7

50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

e Estimated

03327520 PIPE CREEK NEAR BUNKER HILL, IN—Continued



03328000 EEL RIVER AT NORTH MANCHESTER, IN

LOCATION.--Lat 40°59'38", long 85°46'53", in NE \(^1_4\)SE \(^1_4\) sec.6, T.29 N., R.7 E., Wabash County, Hydrologic Unit 05120104, (NORTH MANCHESTER SOUTH, IN. quadrangle), on right bank 300 ft upstream from New Wabash bridge in North Manchester, 400 ft downstream of New York Central railroad bridge, 0.4 mi downstream from Pony Creek, and at mile 51.0.

DRAINAGE AREA.--417 mi².

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

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

GAGE.--Water-stage recorder. Datum of gage is 732.65 ft above National Geodetic Vertical Datum of 1929. Prior to Jan. 15, 2002 at site 1.75 mi upstream at Water Works property at datum 738.00 ft. From October 1929 to July 23, 1953, nonrecording gage on downstream side of Second Street bridge, 1.9 mi upstream at datum 5.35 ft higher, at same drainage area. From July 24, 1953 to Jan. 14, 2002, at site 1.75 mi upstream at Water Works property at datum 5.35 ft higher, at same drainage area.

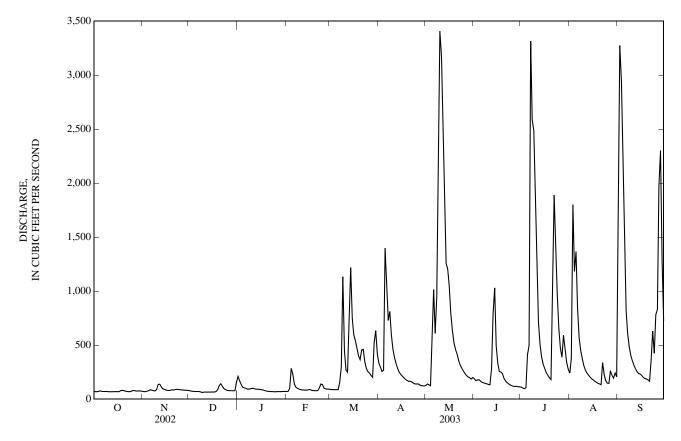
REMARKS.--Records fair except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD .-- Maximum instantaneous gage height occurred Dec. 30, 1990 during period of no gage height record, at datum 738.00 ft.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	73	e78	212	e72	e90	335	127	191	111	242	1,400
2	69	70	e75	173	e72	e89	297	139	171	103	376	3,270
3	70	70	e73	137	97	e89	256	134	179	98	1,800	2,950
4	73	74	e72	e110	284	e88	267	125	180	107	1,180	2,050
5	77	78	e71	e105	235	e88	1,400	610	167	411	1,370	1,260
6	72	87	71	e100	e140	e88	1,100	1,010	155	497	839	822
7	71	83	71	e93	e110	156	728	609	151	3,310	566	609
8	71	78	68	e93	e100	300	812	945	145	2,590	451	484
9	72	76	62	e97	e93	1,130	594	2,560	142	2,490	373	407
10	70	89	64	e100	e89	e450	462	3,410	136	1,710	310	356
11	69	136	67	e100	e86	e270	385	3,180	133	1,200	269	314
12	68	139	65	e93	e85	e250	330	2,410	286	717	241	282
13	70	113	66	e93	e84	721	285	1,810	789	507	223	254
14	69	96	66	e92	e83	1,220	251	1,260	1,030	392	204	237
15	70	90	66	e90	e87	748	229	1,200	494	324	190	233
16	70	84	66	e88	e90	595	214	1,050	331	283	178	220
17	69	82	65	e85	e82	541	197	789	256	246	166	201
18	79	80	70	e80	e80	471	183	631	251	220	156	191
19	82	83	88	e75	e78	403	173	523	237	199	147	187
20	80	87	125	e73	e78	367	165	460	192	181	141	178
21	74	84	142	e72	e80	454	167	417	168	996	134	165
22	72	90	118	e70	e105	461	159	358	152	1,890	339	365
23	70	92	98	e70	e140	348	149	316	141	1,490	227	e630
24	70	89	88	e69	e135	285	141	286	132	973	171	e425
25	74	87	81	e69	e100	255	140	262	124	653	148	e780
26 27 28 29 30 31	81 78 76 75 77 75	e86 e85 e83 e82 e81	e80 e79 78 78 79 155	e70 e70 e70 e70 e72 e72	e95 e94 e92 	242 220 203 527 634 420	142 133 126 124 122	238 219 205 198 186 200	119 118 119 114 115	475 388 591 457 345 279	147 262 220 194 242 208	e830 e1,980 e2,300 e1,270 e725
TOTAL	2,265	2,627	2,525	2,863	2,966	12,203	10,066	25,867	6,918	24,233	11,714	25,375
MEAN	73.1	87.6	81.5	92.4	106	394	336	834	231	782	378	846
MAX	82	139	155	212	284	1,220	1,400	3,410	1,030	3,310	1,800	3,270
MIN	68	70	62	69	72	88	122	125	114	98	134	165
CFSM	0.18	0.21	0.20	0.22	0.25	0.94	0.80	2.00	0.55	1.87	0.91	2.03
IN.	0.20	0.23	0.23	0.26	0.26	1.09	0.90	2.31	0.62	2.16	1.04	2.26
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1930 - 2003,	BY WATE	R YEAR (W	Y)			
MEAN	180	270	395	474	577	707	675	437	345	225	160	141
MAX	1,309	1,416	1,717	2,258	1,772	2,425	1,768	2,021	1,376	782	1,031	846
(WY)	(2002)	(1993)	(1967)	(1950)	(1959)	(1982)	(1957)	(1943)	(1981)	(2003)	(1990)	(2003)
MIN	46.2	53.4	49.4	43.2	62.0	200	141	86.1	68.1	44.2	30.7	27.6
(WY)	(1947)	(1940)	(1964)	(1977)	(1964)	(1941)	(1946)	(1931)	(1934)	(1941)	(1941)	(1941)

03328000 EEL RIVER AT NORTH MANCHESTER, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	NDAR YEAR	FOR 2003 WA	ATER YEAR	WATER YEARS 1930 - 2003		
ANNUAL TOTAL	134,077		129,622				
ANNUAL MEAN	367		355		382		
HIGHEST ANNUAL MEAN					783	1950	
LOWEST ANNUAL MEAN					103	1931	
HIGHEST DAILY MEAN	3,820	Feb 1	3,410	May 10	7,770	Dec 31, 1990	
LOWEST DAILY MEAN	61	Sep 14	62	Dec 9	16	Oct 19, 1956	
ANNUAL SEVEN-DAY MINIMUM	63	Sep 9	65	Dec 9	23	Sep 13, 1941	
MAXIMUM PEAK FLOW			4,290	Jul 7	8,740	Dec 30, 1990	
MAXIMUM PEAK STAGE			10.20	Jul 7	14.81	Dec 30, 1990	
ANNUAL RUNOFF (CFSM)	0.88		0.85		0.92		
ANNUAL RUNOFF (INCHES)	11.96		11.56		12.45		
10 PERCENT EXCEEDS	876		834		900		
50 PERCENT EXCEEDS	165		147		176		
90 PERCENT EXCEEDS	70		71		66		



03328500 EEL RIVER NEAR LOGANSPORT, IN

 $LOCATION.--Lat\ 40^{\circ}46^{\circ}55^{\circ},\ long\ 86^{\circ}l5^{\circ}50^{\circ},\ in\ NE^{1}/_{4}SE^{1}/_{4}\ sec. 14,\ T.27\ N.,\ R.2\ E.,\ Cass\ County,\ Hydrologic\ Unit\ 05120104,\ (LOGANSPORT,\ IN\ quadrangle),\ on\ right\ bank\ at\ downstream\ side\ of\ bridge\ on\ Adamsboro\ Road,\ 5.5\ mi\ northeast\ of\ Logansport,\ and\ 7.4\ mi\ upstream\ from\ mouth.$

DRAINAGE AREA.--789 mi².

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

REVISED RECORDS.--WSP 2109: Drainage area.

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

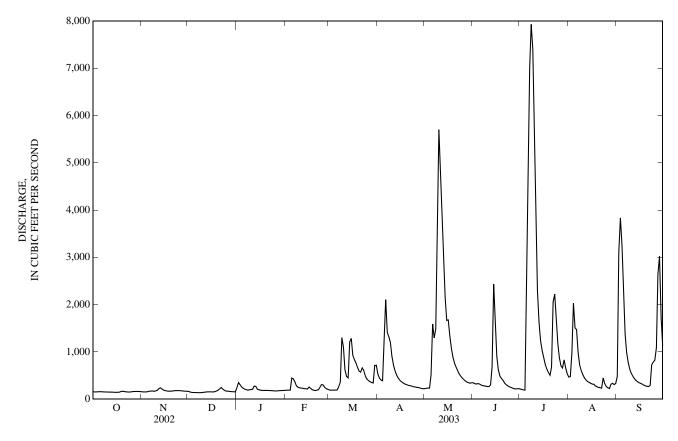
REMARKS.--Records good except for estimated daily discharges, which are poor.

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

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	158	158	166	e250	e187	e195	532	223	346	214	467	479
2	153	154	e150	350	e190	e190	448	230	326	207	477	3,110
3	153	153	e145	302	e190	e190	406	236	321	195	988	3,830
4	157	153	e140	257	e190	e190	389	232	329	192	2,030	3,250
5	158	159	e140	231	e444	e193	1,320	511	319	2,600	1,510	2,160
6	158	169	e140	e210	e430	e195	2,100	1,590	299	3,950	1,470	1,380
7	155	171	e138	e200	e365	e260	1,410	1,300	286	7,010	975	988
8	153	173	e137	e190	e280	e360	1,330	1,490	280	7,930	722	773
9	152	168	e139	e200	e250	e1,300	1,200	3,970	274	7,410	603	636
10	152	174	e141	e205	e240	e1,100	906	5,700	268	5,610	518	545
11	150	183	e146	e210	e235	e620	717	4,900	267	3,340	451	483
12	148	221	e150	e275	e230	e480	600	4,060	303	2,300	406	432
13	150	239	155	e270	e225	e450	513	2,990	677	1,620	373	395
14	147	217	156	e210	e220	1,210	449	2,170	2,430	1,240	355	369
15	145	194	155	e200	e215	1,290	403	1,670	1,620	1,030	337	346
16	145	181	153	e190	e255	931	371	1,680	905	871	319	334
17	147	175	153	e185	e230	838	346	1,330	620	732	315	318
18	148	169	160	e184	e200	769	326	1,070	487	635	281	296
19	163	170	174	e185	e190	674	309	887	440	564	263	281
20	168	169	192	e185	e180	594	299	762	397	503	249	274
21	163	173	221	e184	e190	570	287	680	339	674	241	266
22	156	180	247	e182	e200	661	284	605	307	2,060	234	291
23	153	180	e210	e180	e250	608	272	535	282	2,220	449	725
24	150	182	e185	e177	e310	491	260	485	262	1,660	329	785
25	153	181	e170	e175	e300	426	259	447	248	1,180	268	822
26 27 28 29 30 31	159 162 163 163 163 160	179 176 171 169 167	e170 e165 e160 e159 e157 e155	e174 e175 e180 e183 e183 e185	e250 e225 e210	391 372 352 343 714 717	249 246 236 225 220	414 382 358 347 337 348	236 221 217 219 223	880 706 660 831 666 542	240 225 317 336 306 329	1,090 2,640 3,030 1,730 1,140
TOTAL	4,805	5,308	5,029	6,467	6,881	17,674	16,912	41,939	13,748	60,232	16,383	33,198
MEAN	155	177	162	209	246	570	564	1,353	458	1,943	528	1,107
MAX	168	239	247	350	444	1,300	2,100	5,700	2,430	7,930	2,030	3,830
MIN	145	153	137	174	180	190	220	223	217	192	225	266
CFSM	0.20	0.22	0.21	0.26	0.31	0.72	0.71	1.71	0.58	2.46	0.67	1.40
IN.	0.23	0.25	0.24	0.30	0.32	0.83	0.80	1.98	0.65	2.84	0.77	1.57
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1944 - 2003,	BY WATE	R YEAR (W	Y)			
MEAN	381	515	813	943	1,125	1,342	1,304	888	785	527	368	318
MAX	2,522	2,384	2,898	4,507	3,090	4,612	3,285	1,827	2,208	2,072	2,115	1,107
(WY)	(2002)	(1993)	(1967)	(1950)	(1959)	(1982)	(1950)	(1983)	(1975)	(1998)	(1990)	(2003)
MIN	95.1	110	98.2	101	184	353	366	245	176	140	128	101
(WY)	(1964)	(1964)	(1964)	(1977)	(1964)	(1966)	(1966)	(1958)	(1988)	(1988)	(1966)	(1963)

03328500 EEL RIVER NEAR LOGANSPORT, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	NDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEARS	S 1944 - 2003
ANNUAL TOTAL	259,147		228,576			
ANNUAL MEAN	710		626		774	
HIGHEST ANNUAL MEAN					1,573	1950
LOWEST ANNUAL MEAN					324	1954
HIGHEST DAILY MEAN	7,060	May 13	7,930	Jul 8	16,600	Feb 24, 1985
LOWEST DAILY MEAN	137	Dec 8	137	Dec 8	70	Mar 15, 1960
ANNUAL SEVEN-DAY MINIMUM	139	Sep 11	139	Dec 4	76	Dec 17, 1963
MAXIMUM PEAK FLOW		_	8,150	Jul 8	17,700	Feb 24, 1985
MAXIMUM PEAK STAGE			9.22	Jul 8	12.68	Feb 24, 1985
ANNUAL RUNOFF (CFSM)	0.90		0.79		0.98	
ANNUAL RUNOFF (INCHES)	12.22		10.78		13.32	
10 PERCENT EXCEEDS	1,740		1,390		1,750	
50 PERCENT EXCEEDS	323		274		402	
90 PERCENT EXCEEDS	152		156		156	



03329000 WABASH RIVER AT LOGANSPORT, IN

LOCATION.--Lat 40°44'47", long 86°22'39", in SW 4NE 4 sec.35, T.27 N., R.1 E., Cass County, Hydrologic Unit 05120105, (CLYMERS, IN quadrangle), on left bank, 150 ft downstream from Cicott Street bridge in Logansport, 1,000 ft downstream from Eel River, 0.85 mi upstream of U.S. Highway 35, and at mile 353.7.

DRAINAGE AREA.--3,779 mi².

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

REVISED RECORDS.--WSP 783: 1934. WSP 1335: 1904, 1925(M), 1926-30, 1931(M), 1932-35, 1937-39, 1948. WSP 1385: 1903, 1905-6, 1923-25. WSP 1505: 1906(M). WSP 2109: Drainage area. WDR IN-81-1: 1979.

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

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow partially regulated by Huntington Lake, Salamonie Lake, and Mississinewa Lake.

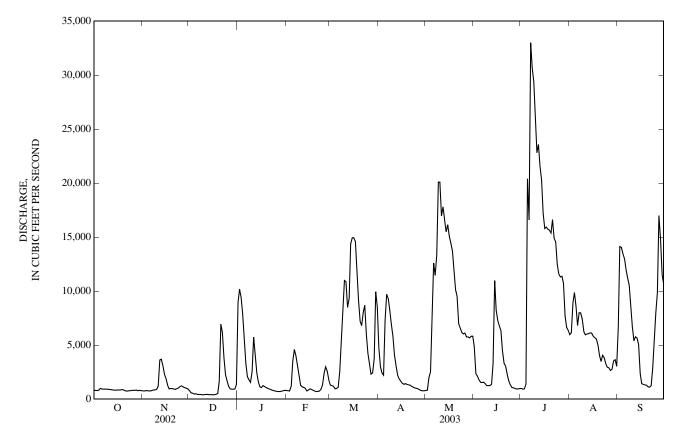
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 25.3 ft March 26, 1913, from floodmarks, discharge, 140,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

					DAII	LY MEAN V	ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	826	772	790	8,960	e800	e1,300	4,760	799	4,860	991	5,970	6,640
2	803	761	587	10,200	e780	e1,250	3,010	835	2,360	926	6,140	14,100
3	798	781	552	9,390	e760	e1,200	2,420	1,990	2,130	955	8,900	14,000
4	830	788	e470	7,860	e1,200	e960	2,220	2,520	1,790	1,360	9,870	13,400
5	995	766	e500	5,380	e3,500	e1,000	7,280	6,270	1,560	20,400	8,570	13,000
6	940	761	e450	3,270	e4,600	e1,100	9,700	12,600	1,540	16,600	6,810	11,900
7	927	798	e430	2,090	e4,000	2,540	9,300	11,500	1,570	33,000	8,000	11,200
8	927	859	e440	1,790	e3,100	4,970	8,210	13,300	1,430	30,700	7,990	10,500
9	926	855	e395	1,550	e2,200	7,800	6,900	20,100	1,250	29,400	7,390	8,690
10	924	900	e410	2,580	e1,300	11,000	5,830	20,100	1,260	25,800	6,230	6,690
11	895	1,200	e430	5,740	e1,140	10,900	4,050	17,000	1,250	22,800	5,960	5,380
12	876	3,630	446	4,130	e1,100	8,490	3,100	17,800	1,370	23,600	6,040	5,770
13	859	3,690	424	2,410	e1,000	9,320	2,220	16,600	3,300	21,500	6,060	5,650
14	837	3,090	421	1,600	e760	14,400	1,880	15,500	11,000	20,300	6,140	5,060
15	833	2,310	420	1,140	e850	14,900	1,660	16,100	8,210	17,200	6,120	2,380
16	846	1,900	406	1,070	e950	14,900	1,470	15,100	7,260	15,800	5,830	1,430
17	850	1,290	404	e1,260	e900	14,600	1,380	14,500	6,800	15,900	5,680	1,370
18	856	943	449	e1,170	e820	12,300	1,430	13,700	6,360	15,700	5,570	1,310
19	896	982	518	e1,070	e750	9,170	1,370	11,900	4,490	15,600	5,010	1,300
20	841	974	1,630	e1,000	e700	7,230	1,330	10,100	3,340	15,400	4,060	1,150
21	774	936	6,930	e940	e720	6,800	1,300	9,520	3,050	16,600	3,490	1,110
22	743	908	6,200	e880	e750	8,030	1,180	7,000	2,310	14,900	4,060	1,240
23	778	976	3,830	e820	e900	8,690	1,110	6,590	1,690	14,600	3,840	2,850
24	783	1,040	2,280	e780	e1,300	5,990	1,030	6,180	1,340	12,500	3,310	5,140
25	802	1,180	1,690	e740	e2,400	4,270	1,000	6,040	1,090	11,600	2,960	7,970
26 27 28 29 30 31	825 814 840 776 816 791	1,220 1,130 1,060 1,020 949	1,190 945 929 917 948 1,350	e720 e700 e720 e740 e780 e820	e3,000 e2,600 e1,800	3,260 2,310 2,430 3,740 9,940 8,520	962 874 799 775 775	6,120 5,770 5,760 5,670 5,820 5,830	1,050 984 947 944 985	11,300 11,400 10,700 7,700 6,670 6,370	2,900 2,650 2,760 3,530 3,650 3,050	9,890 17,000 14,800 11,500 10,700
TOTAL	26,227	38,469	37,781	82,300	44,680	213,310	89,325	308,614	87,520	468,272	168,540	223,120
MEAN	846	1,282	1,219	2,655	1,596	6,881	2,978	9,955	2,917	15,110	5,437	7,437
MAX	995	3,690	6,930	10,200	4,600	14,900	9,700	20,100	11,000	33,000	9,870	17,000
MIN	743	761	395	700	700	960	775	799	944	926	2,650	1,110
CFSM	0.22	0.34	0.32	0.70	0.42	1.82	0.79	2.63	0.77	4.00	1.44	1.97
IN.	0.26	0.38	0.37	0.81	0.44	2.10	0.88	3.04	0.86	4.61	1.66	2.20
STATIST	ICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1924 - 2003,	BY WATE	R YEAR (W	Y)			
MEAN	1,505	2,212	3,660	4,583	5,203	6,422	5,844	3,912	3,246	2,220	1,381	1,300
MAX	9,526	10,940	12,340	25,590	15,880	18,180	17,520	21,310	16,440	15,110	9,044	10,710
(WY)	(2002)	(1973)	(1968)	(1950)	(1959)	(1982)	(1957)	(1943)	(1958)	(2003)	(1998)	(1926)
MIN	197	296	252	290	417	638	929	600	388	269	203	176
(WY)	(1964)	(1964)	(1964)	(1945)	(1964)	(1941)	(1971)	(1941)	(1988)	(1936)	(1941)	(1941)

03329000 WABASH RIVER AT LOGANSPORT, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	NDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEAR:	S 1924 - 2003
ANNUAL TOTAL	1,212,461		1,788,158			
ANNUAL MEAN	3,322		4,899		3,448	
HIGHEST ANNUAL MEAN					6,614	1950
LOWEST ANNUAL MEAN					796	1941
HIGHEST DAILY MEAN	23,300	Feb 1	33,000	Jul 7	84,700	May 19, 1943
LOWEST DAILY MEAN	302	Sep 15	395	Dec 9	135	Sep 26, 1941
ANNUAL SEVEN-DAY MINIMUM	316	Sep 11	421	Dec 9	142	Sep 24, 1941
MAXIMUM PEAK FLOW		•	37,100	Jul 7	89,800	May 18, 1943
MAXIMUM PEAK STAGE			13.60	Jul 7	21.32	May 18, 1943
ANNUAL RUNOFF (CFSM)	0.88		1.30		0.91	•
ANNUAL RUNOFF (INCHES)	11.94		17.60		12.40	
10 PERCENT EXCEEDS	10,500		13,800		9,370	
50 PERCENT EXCEEDS	1,210		2,220		1,470	
90 PERCENT EXCEEDS	449		775		426	



03329700 DEER CREEK NEAR DELPHI, IN

LOCATION.—Lat $40^{\circ}35^{\circ}25^{\circ}$, long $86^{\circ}37^{\circ}17^{\circ}$, in $NE^{1}_{4}NE^{1}_{2}$ sec.27, T.25 N., R.2 W., Carroll County, Hydrologic Unit 05120105, (FLORA, IN quadrangle), on downstream side of left wingwall of county road bridge,0.85 mi south of Sharp Point Cemetery, 3.0 mi northeast of Delphi Post Office, and 4.5 mi upstream from mouth.

DRAINAGE AREA.--274 mi².

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

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

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

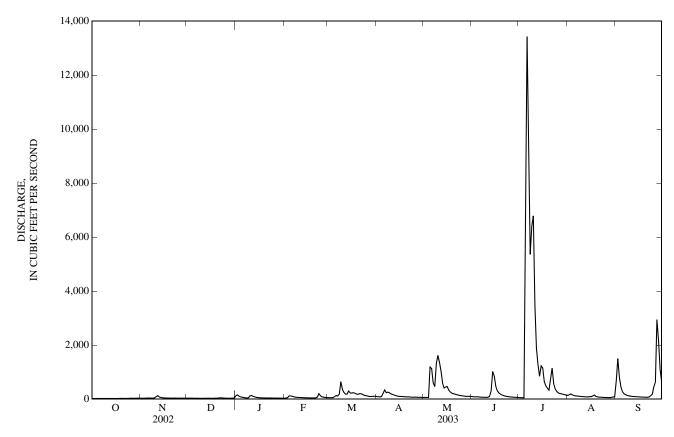
REMARKS.--Records good except for estimated daily discharges, which are poor.

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

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	26 24 23 25 26	35 34 34 37 39	38 37 38 e36 e35	129 155 107 81 e74	e34 e40 e55 e125 e118	e57 e56 e56 e54 97	96 91 85 97 208	66 67 64 60 1,190	97 87 88 89 85	61 56 54 51 10,100	139 162 193 156 135	687 1,500 802 441 272
6 7 8 9 10	25 25 25 25 25 25	43 40 40 38 49	e35 e34 e34 e33 e33	e60 e50 e46 e49 126	e105 e87 e72 e68 e64	132 114 186 644 365	339 239 261 239 198	1,130 611 468 1,320 1,620	77 74 70 69 67	13,400 7,780 5,360 6,410 6,780	124 114 108 103 97	198 162 137 124 114
11 12 13 14 15	25 25 26 25 26	92 130 83 62 53	e33 33 33 33 33	132 e104 e83 e67 e58	e61 e59 e56 e53 e51	247 186 189 300 228	173 154 132 114 106	1,360 1,050 594 414 456	70 106 289 1,020 865	3,470 1,880 1,260 848 1,230	93 89 85 82 98	104 97 93 90 87
16 17 18 19 20	26 26 26 32 29	47 43 40 39 39	33 33 e34 e35 e37	e53 e49 e47 e46 e45	e49 e48 e47 e46 e46	225 239 221 189 179	101 100 95 88 85	468 332 261 218 196	477 309 228 185 153	1,150 651 495 409 335	91 120 153 100 85	83 79 75 73 72
21 22 23 24 25	29 29 29 29 32	39 42 41 38 39	e44 e52 e45 e41 e39	e44 e44 e42 e42	e47 e77 203 e124 e84	204 200 172 142 128	84 83 77 71 73	185 165 152 140 130	130 115 104 94 84	741 1,150 572 380 281	78 73 69 65 62	70 83 127 182 450
26 27 28 29 30 31	35 33 33 38 39 36	38 38 38 38 37	e36 e34 e34 35 38 49	e41 e40 e40 e38 e38 e36	e72 e65 e59 	116 101 96 103 106 105	76 71 68 69 65	120 111 104 105 103 103	79 77 71 69 65	230 206 197 181 165 151	61 58 55 67 83 88	626 2,940 2,190 1,100 635
TOTAL MEAN MAX MIN CFSM IN.	877 28.3 39 23 0.10 0.12	1,405 46.8 130 34 0.17 0.19	1,137 36.7 52 33 0.13 0.15	2,010 64.8 155 36 0.24 0.27	2,015 72.0 203 34 0.26 0.27	5,437 175 644 54 0.64 0.74	3,738 125 339 65 0.45 0.51	13,363 431 1,620 60 1.57 1.81	5,393 180 1,020 65 0.66 0.73	66,034 2,130 13,400 51 7.77 8.97	3,086 99.5 193 55 0.36 0.42	13,693 456 2,940 70 1.67 1.86
STATIST	TCS OF M	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1944 - 2003	BY WATE	R YEAR (W	YY)			
MEAN MAX (WY) MIN (WY)	101 673 (2002) 15.0 (1965)	158 1,249 (1993) 22.7 (1954)	243 983 (1991) 22.2 (1945)	307 1,882 (1950) 17.6 (1977)	366 1,039 (1959) 36.1 (1954)	435 1,311 (1982) 46.8 (1954)	417 1,109 (1959) 44.3 (2000)	303 793 (1983) 62.2 (1976)	275 1,799 (1958) 30.7 (1977)	213 2,130 (2003) 22.5 (1944)	98.3 537 (1958) 12.5 (1966)	84.8 568 (1989) 10.5 (1954)

03329700 DEER CREEK NEAR DELPHI, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	NDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEARS	S 1944 - 2003
ANNUAL TOTAL	87,252		118,188			
ANNUAL MEAN	239		324		249	
HIGHEST ANNUAL MEAN					510	1950
LOWEST ANNUAL MEAN					62.7	1966
HIGHEST DAILY MEAN	2,620	Feb 1	13,400	Jul 6	13,400	Jul 6, 2003
LOWEST DAILY MEAN	22	Sep 13	23	Oct 3	6.2	Sep 25, 1954
ANNUAL SEVEN-DAY MINIMUM	23	Sep 13	25	Oct 2	6.3	Sep 22, 1954
MAXIMUM PEAK FLOW		•	18,700	Jul 5	18,700	Jul 5, 2003
MAXIMUM PEAK STAGE			18.64	Jul 5	18.64	Jul 5, 2003
ANNUAL RUNOFF (CFSM)	0.87		1.18		0.91	
ANNUAL RUNOFF (INCHES)	11.85		16.05		12.36	
10 PERCENT EXCEEDS	589		484		556	
50 PERCENT EXCEEDS	92		83		104	
90 PERCENT EXCEEDS	29		34		27	



03330241 TIPPECANOE RIVER AT NORTH WEBSTER, IN

LOCATION.--Lat $41^{\circ}18^{\circ}58^{\circ}$, long $85^{\circ}41^{\circ}32^{\circ}$, in $SE^{1}_{4}NE^{1}_{4}$ sec. 15, T.33 N., R.7 E., Kosciusko County, Hydrologic Unit 05120106, (NORTH WEBSTER, IN. quadrangle), on right upstream corner of State Road 13 bridge, at the intersection of State Road 13 and County Road 550 North, 0.4 mi southeast of North Webster, amd 0.5 mi north of intersection of State Road 13 and 500 North.

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 National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except estimated daily discharges, which are poor. Flow regulated by dams at Webster Lake, 0.25 mi upstream.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 5.8 4.8 7.4 9.9 7.1 2.8 8.0 9.2 6.8 9.4 4.6 5.4 7.9 3.8 2.2 8.3 7.6 3.3 2.5 2.2 22 5.5 9.8 9.6 6.0 3.6 e10 e9.6 e9.4 4.8 e9.2 4.9 e9.0 6.2 8.3 7.2 1.8 2.1 e1.6 2.1 8.8 e1.4 e1.1 9.1 e1.2 e2.6 9.8 2.8 3.4 5.6 2.7 3.3 3.7 3.4 3.8 9.2 705.7 TOTAL 402.9 1,336 282.0 1,187 1,028 2,148.9 400.8 2,385.8 1,388.8 3,062.0 13.0 43.1 25.0 34.3 MEAN 23.5 10.1 38.3 69.3 13.4 77.0 44.8 MAX 2.2 2.8 MIN 1.1 4.6 9.1 4.8 4.8 6.0 0.26 0.87 0.51 0.20 0.78 0.70 0.27 1.56 0.91 2.07 0.48 1.41 CFSM 0.90 2.31 0.30 0.58 1.80 0.53 0.21 0.78 0.301.05 IN. 1.01 1.62 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2003, BY WATER YEAR (WY) 37.7 49.6 53.8 47.5 27.0 25.0 21.8 80.1 MAX 77.0 (1993)(2002)(1993)(2002)(2003)(WY) (2002)(2001)(1997)(2002)(1996)(2003)(1990)2.68 2.00 MIN 6.61 12.3 13.6 6.05 15.0 29.6 15.4 3.08 4.36 1.67 (1995)(1996)(1988)(1988)(WY) (1995)(2000)(2000)(2000)(2000)(1988)(1988)(1999)SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1987 - 2003 17,191.9 ANNUAL TOTAL 15,101.9 ANNUAL MEAN 47.1 41.4 47.9 HIGHEST ANNUAL MEAN 70.5 LOWEST ANNUAL MEAN 23.0 HIGHEST DAILY MEAN Ian 8 1993 May 15 Sep 5 Nov 23 Aug 18, 1988 LOWEST DAILY MEAN Nov 23 0.06 1.1 1.1 ANNUAL SEVEN-DAY MINIMUM Nov 20 Aug 14, 1988 2.2 3.2 0.36 Sep MAXIMUM PEAK FLOW Sep Aug 22, 2001 6.49 MAXIMUM PEAK STAGE 5.62 Sep Jan 2, 1991 ANNUAL RUNOFF (CFSM) 0.96 0.84 0.97 ANNUAL RUNOFF (INCHES) 12.97 11.40 13.20 10 PERCENT EXCEEDS

2.5

8.0

5.4

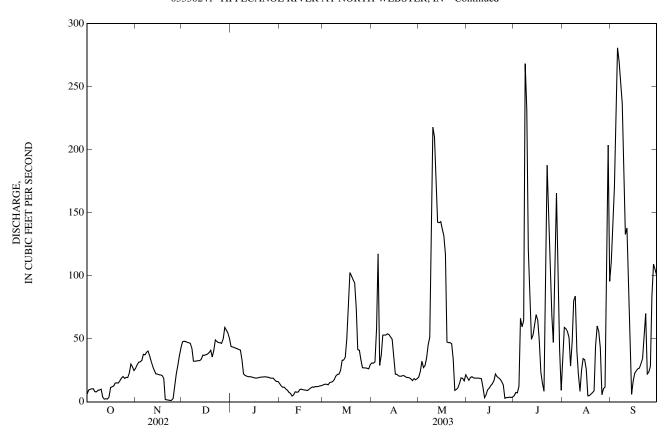
4.2

50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

e Estimated

03330241 TIPPECANOE RIVER AT NORTH WEBSTER, IN—Continued



WABASH RIVER BASIN

03330500 TIPPECANOE RIVER AT OSWEGO, IN

LOCATION.--Lat 41°19'14", long 85°47'21", in $NE^{1}_{4}NE^{1}_{4}$ sec. 14, T.33 N., R.6 E., Kosciusko County, Hydrologic Unit 05120106, (LEESBURG, IN. quadrangle), on left bank 50 ft downstream from dam at Tippecanoe Lake Outlet in Oswego, 3 mi east of Leesburg, and at mile 158.9.

DRAINAGE AREA.--113 mi².

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

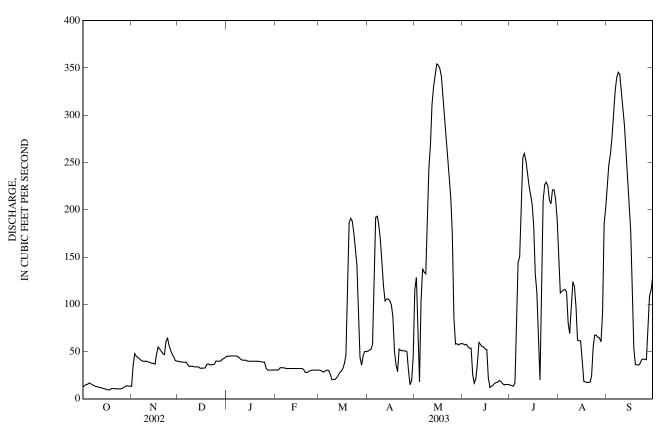
REVISED RECORDS.--WSP 2109: Drainage area.

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

REMARKS .-- Records fair. Regulation by gates at lake outlet.

REMARK	SRecord	ls fair. Regul	ation by gate	es at lake out	let.							
				DI WATER	YEAR OCT	, CUBIC FEI TOBER 2002 LY MEAN V	TO SEPTE	COND MBER 2003	;			
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	13 14 15 15 17	13 35 48 45 44	40 39 39 39 39	45 45 45 45 45	31 30 31 33 33	30 30 29 28 30	50 52 52 58 116	115 128 62 18 103	58 57 58 55 53	15 14 13 17 98	148 112 114 115 116	225 247 259 276 302
6 7 8 9 10	16 15 14 13 13	42 41 40 40 40	39 36 34 35 34	45 45 45 43 41	33 32 32 32 32 32	30 30 26 20 20	192 193 184 168 146	138 134 132 193 243	54 25 16 21 37	144 150 212 255 259	113 80 69 93 124	325 339 345 343 327
11 12 13 14 15	12 12 12 11 10	39 39 38 37 38	34 34 34 33 32	41 41 41 40 40	32 32 32 32 32 32	21 22 25 28 29	119 104 105 106 104	269 311 330 342 354	60 57 55 55 53	252 239 226 216 206	119 97 62 62 61	309 289 261 231 201
16 17 18 19 20	10 9.5 9.4 11	37 48 55 53 50	33 32 33 36 37	40 40 40 40 40	32 32 32 31 28	32 37 46 133 186	100 87 50 36 29	353 350 340 322 299	52 22 12 13 14	182 132 112 65 20	38 18 18 17 17	177 114 53 36 36
21 22 23 24 25	11 11 11 11 11	48 47 61 64 56	36 36 36 37 40	40 40 39 39 39	28 29 30 30 30	191 188 176 160 142	53 51 51 51 51	279 256 236 213 174	16 17 18 19 18	95 210 227 229 225	18 24 55 67 67	36 38 41 42 42
26 27 28 29 30 31	11 12 13 14 13 13	51 47 44 40 40	40 40 40 42 43 44	32 30 30 30 30 31	30 30 30 	98 44 36 46 50 50	50 29 15 20 45	86 58 58 57 58 58	16 15 15 15 15	211 206 221 221 211 189	65 64 60 91 186 201	41 78 109 115 129
TOTAL MEAN MAX MIN CFSM IN.	383.9 12.4 17 9.4 0.11 0.13	1,320 44.0 64 13 0.39 0.43	1,146 37.0 44 32 0.33 0.38	1,227 39.6 45 30 0.35 0.40	871 31.1 33 28 0.28 0.29	2,013 64.9 191 20 0.57 0.66	2,467 82.2 193 15 0.73 0.81	6,069 196 354 18 1.73 2.00	991 33.0 60 12 0.29 0.33	5,072 164 259 13 1.45 1.67	2,491 80.4 201 17 0.71 0.82	5,366 179 345 36 1.58 1.77
STATIST	ICS OF MO	ONTHLY M	EAN DATA	FOR WATI	ER YEARS	1950 - 2003	, BY WATE	R YEAR (W	YY)			
MEAN MAX (WY) MIN (WY)	61.0 369 (1955) 4.73 (1954)	76.3 230 (1993) 7.25 (1954)	109 298 (1967) 16.0 (1963)	128 443 (1950) 7.51 (1963)	142 373 (1950) 11.0 (1963)	181 498 (1982) 44.0 (1964)	193 493 (1950) 58.6 (1966)	134 340 (1956) 30.8 (1958)	102 363 (1981) 18.6 (1988)	65.8 198 (1968) 11.4 (1988)	47.3 188 (1990) 1.13 (1967)	46.3 237 (1958) 0.40 (1967)
SUMMAR	RY STATIS	STICS	1	FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER	YEAR	WATER	YEARS 195	50 - 2003
MAXIMU MAXIMU ANNUAL	MEAN ANNUAL ANNUAL DAILY M SEVEN-L IM PEAK RUNOFF RUNOFF RUNOFF ENT EXCE	MEAN MEAN MEAN DAY MINIM FLOW STAGE (CFSM) (INCHES) EEDS	UM	9	May Sep 9.2 Sep 9.44	17	35 35 22	30.6 54 May 9.4 Oc	t 18 t 14 y 15	ě	0.08 Au 0.28 Au 950 Ma	1950 1964 ar 21, 1982 g 4, 1967 g 22, 1967 ar 21, 1982 ar 21, 1982

03330500 TIPPECANOE RIVER AT OSWEGO, IN—Continued



03331110 WALNUT CREEK NEAR WARSAW, IN

LOCATION.--Lat $41^{\circ}12'17''$, long $85^{\circ}52'11''$, in $NW^{1}_{4}NE^{1}_{4}$ sec. 30, T.32 N., R.6 E., Kosciusko County, Hydrologic Unit 05120106, (WARSAW, IN quadrangle), on left bank 10 ft upstream from bridge on County Road 200 South, 0.3 mi downstream from small right-bank tributary, 1.1 mi west of intersection of County Road 200 South and Country Farm Road, and 2.5 mi south of court house in Warsaw.

DRAINAGE AREA.--19.6 mi².

PERIOD OF RECORD.--October 1969 to October 2003 (discontinued).

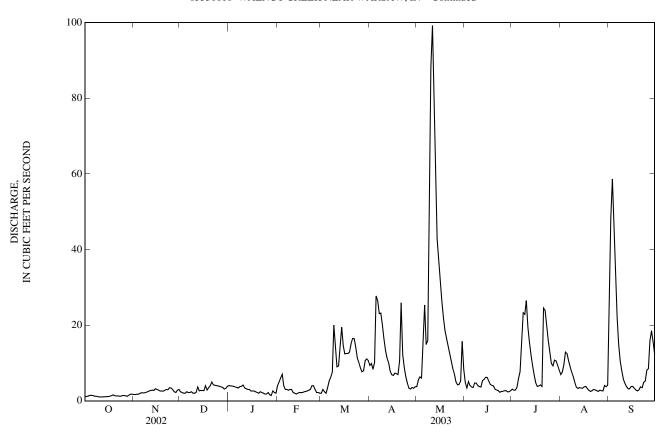
GAGE.--Water-stage recorder. Datum of gage is 823.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow occasionally regulated by lakes upstream.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1.1 1.2 1.2 1.4 1.5	1.7 1.6 1.8 1.7 1.9	e2.4 e2.2 e2.0 e2.0 e2.4	e4.0 e3.9 e3.9 e3.8 e3.7	e4.0 e5.0 e6.0 e7.0 e4.0	e2.0 e3.0 e2.4 e2.0 e3.5	9.4 9.9 8.3 10 28	3.8 5.5 6.3 6.0 14	4.9 3.4 5.1 4.1 3.7	3.1 2.8 2.9 3.6 5.9	7.0 7.6 9.6 13 12	21 48 59 48 34
6 7 8 9 10	1.4 1.2 1.2 1.1 1.1	2.1 2.1 2.1 2.2 2.4	e2.2 e2.2 e2.4 e2.0 e2.0	e3.5 e3.4 3.8 3.8 4.2	e3.0 e3.0 e2.8 e3.0 e3.0	5.3 6.2 7.6 20 e14	26 23 23 20 16	25 15 16 49 88	3.5 4.7 4.7 4.0 3.8	7.8 16 23 23 27	11 9.0 7.6 6.4 4.8	22 15 10 8.0 5.7
11 12 13 14 15	1.0 1.0 1.1 1.1	2.6 2.7 2.8 2.8 3.2	e2.2 3.7 2.6 2.8 2.7	e3.4 e3.2 e3.0 e3.0 e2.6	e2.2 e2.0 e1.8 e2.0 e2.2	e9.0 9.3 15 19	13 11 10 7.9 6.9	99 85 61 43 37	3.7 5.4 5.7 6.2 6.2	19 16 12 9.4 6.8	3.6 3.3 3.5 3.4 3.3	4.6 3.8 3.2 3.2 3.8
16 17 18 19 20	1.1 1.2 1.4 1.6 1.4	3.0 2.8 2.6 2.6 2.5	2.7 4.0 2.9 3.5 4.0	e2.6 e2.6 e2.4 e2.2 e2.0	e2.2 e2.2 e2.4 e2.5 e2.6	12 13 13 13 15	6.7 7.3 7.2 6.9	32 26 22 19 17	5.2 4.3 4.1 3.9 3.1	4.8 3.8 3.9 4.2 3.8	3.7 3.8 3.2 2.8 2.5	3.8 3.4 2.9 2.6 2.9
21 22 23 24 25	1.3 1.3 1.2 1.2 1.4	2.8 3.0 2.9 3.5 3.4	5.0 4.2 e4.1 e4.0 e3.9	e2.4 e2.2 e2.0 e1.8 e1.8	e2.8 e3.0 e4.0 e4.0 e3.0	17 16 14 11 10	26 12 8.7 6.3 4.6	15 13 11 8.6 7.2	2.9 2.7 2.3 2.4 2.5	25 24 20 16 13	2.7 3.0 2.9 2.7 2.5	3.7 3.5 4.9 5.2 8.1
26 27 28 29 30 31	1.4 1.3 1.2 1.5 1.8 1.8	3.0 e2.4 e2.2 2.8 3.0	e3.8 e3.7 3.6 3.1 3.3 e3.8	e2.2 e1.6 e1.4 e2.6 e2.2 e2.0	e2.2 e2.2 e2.0	8.7 7.7 8.0 11 11	3.3 3.1 3.5 3.3 3.7	5.1 4.3 4.3 5.2 16 8.3	2.7 2.7 2.4 2.4 2.7	9.9 9.2 11 11 9.5 8.1	2.8 2.7 2.6 4.1 3.7 4.2	8.5 16 19 16 12
TOTAL MEAN MAX MIN CFSM IN.	39.8 1.28 1.8 1.0 0.07 0.08	76.2 2.54 3.5 1.6 0.13 0.14	95.4 3.08 5.0 2.0 0.16 0.18	87.2 2.81 4.2 1.4 0.14 0.17	86.1 3.08 7.0 1.8 0.16 0.16	324.7 10.5 20 2.0 0.53 0.62	336.0 11.2 28 3.1 0.57 0.64	767.6 24.8 99 3.8 1.26 1.46	115.4 3.85 6.2 2.3 0.20 0.22	355.5 11.5 27 2.8 0.59 0.67	155.0 5.00 13 2.5 0.26 0.29	401.8 13.4 59 2.6 0.68 0.76
STATIST	TICS OF MO	ONTHLY M	EAN DAT	A FOR WAT	ER YEARS	1970 - 2003	BY WATE	R YEAR (W	Y)			
MEAN MAX (WY) MIN (WY)	8.52 54.6 (1991) 1.04 (1977)	13.9 44.9 (1993) 2.18 (1979)	19.4 48.3 (1991) 1.43 (1977)	18.8 77.7 (1993) 0.91 (1977)	23.8 60.6 (1985) 2.87 (1979)	32.5 110 (1982) 7.99 (2000)	33.9 66.5 (1981) 11.2 (2003)	21.7 60.8 (1981) 6.35 (1988)	18.9 80.3 (1981) 2.34 (1988)	10.4 49.3 (1997) 1.73 (1988)	6.67 53.7 (1990) 1.07 (1971)	6.76 27.0 (1980) 0.80 (1976)
SUMMAI	RY STATIS	STICS		FOR 2002 C	CALENDAR	YEAR	FOR 200	3 WATER Y	EAR	WATER	YEARS 19	70 - 2003
LOWEST HIGHEST LOWEST ANNUAI MAXIMU MAXIMU ANNUAI ANNUAI 10 PERCI 50 PERCI	L MEAN I ANNUAL I ANNUAL I DAILY M I DAILY M	MEAN IEAN EAN AY MINIM FLOW STAGE (CFSM) (INCHES) EDS EDS	IUM	12	5.7 0 May 0.91 Sep 0.99 Sep 0.80 0.85	14	9 10	7.78 99 May 1.0 Oct	: 11 : 9 : 11		0.40 C 0.46 S 561 J	1997 2003 un 14, 1981 let 15, 1988 ep 12, 1983 un 13, 1981 un 13, 1981

e Estimated

03331110 WALNUT CREEK NEAR WARSAW, IN—Continued



03331500 TIPPECANOE RIVER NEAR ORA, IN

LOCATION.--Lat $41^{\circ}09'26''$, long $86^{\circ}33'49''$, in SE $^{1}_{4}$ SE $^{1}_{4}$ sec.6, T.31 N., R.1 W., Pulaski County, Hydrologic Unit 05120106, (BASS LAKE, IN. quadrangle), on right bank at downstream side of bridge on County Road 700 East, 1.0 mi upstream from Bartee Ditch, 1.3 mi southwest of Ora, and at mile 78.5.

DRAINAGE AREA.--856 mi².

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

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

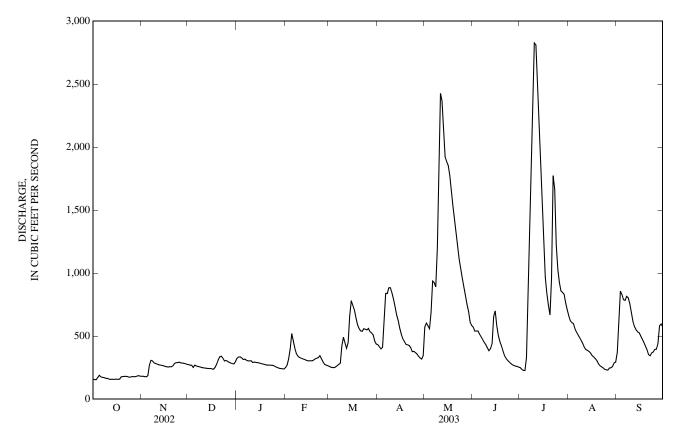
GAGE.--Water-stage recorder. Datum of gage is 692.91 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to July 30, 1956, nonrecording gage on upstream side of old highway bridge, 120 ft downstream. July 30, 1956, to Dec. 20, 1964, water-stage recorder on right bank at downstream side of old highway bridge, and Dec. 21, 1964, to Aug. 19, 1965, nonrecording gage on right bank 500 ft downstream. All gages at same datum.

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

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	158	182	274	324	e250	e260	432	573	572	250	660	370
2	155	182	269	334	e270	e254	416	604	540	237	623	647
3	154	179	270	336	e320	e251	399	583	541	228	607	857
4	172	178	252	328	e400	e250	412	559	541	227	600	830
5	189	186	e270	315	e520	e255	591	686	515	331	558	789
6	177	267	e263	318	e460	e265	840	937	494	627	531	783
7	173	308	e260	309	e400	e275	837	926	471	1,070	508	815
8	171	303	e257	303	e360	e285	884	891	451	1,900	488	804
9	166	288	e253	304	e340	422	884	1,200	432	2,500	465	760
10	165	282	e250	305	e330	491	844	2,030	408	2,830	440	684
11	160	278	e248	291	e325	448	793	2,430	384	2,810	411	616
12	157	273	e246	e294	e320	404	735	2,370	401	2,480	392	576
13	158	271	e244	e292	e315	449	668	2,110	440	2,030	387	551
14	157	268	e243	e290	e310	658	625	1,920	656	1,660	378	534
15	158	265	243	e288	e305	781	563	1,880	701	1,380	366	528
16	158	260	240	e284	e304	745	514	1,850	581	1,170	344	502
17	157	258	237	e280	e305	708	479	1,770	506	968	334	476
18	159	255	252	e278	e304	647	456	1,660	456	837	321	451
19	178	258	278	e274	e310	592	435	1,530	424	745	305	423
20	179	257	311	e271	e320	560	431	1,430	383	668	280	393
21	181	264	336	e270	e325	541	427	1,320	343	954	265	354
22	182	282	341	e270	e330	538	408	1,200	322	1,770	257	344
23	179	289	324	e269	e345	559	377	1,110	307	1,660	248	367
24	174	291	303	e268	e320	555	379	1,030	295	1,230	237	374
25	175	293	307	e262	e295	550	369	958	283	1,030	233	395
26 27 28 29 30 31	180 178 178 182 186 183	287 287 285 281 276	e300 e292 e286 e282 e280 297	e255 e250 e245 e243 e241 e240	e275 e270 e265 	561 536 525 509 461 437	358 340 327 318 344	890 819 751 694 611 584	273 267 262 261 254	927 858 847 833 766 710	231 247 249 260 287 294	397 438 580 596 573
TOTAL	5,279	7,833	8,508	8,831	9,193	14,772	15,885	37,906	12,764	36,533	11,806	16,807
MEAN	170	261	274	285	328	477	530	1,223	425	1,178	381	560
MAX	189	308	341	336	520	781	884	2,430	701	2,830	660	857
MIN	154	178	237	240	250	250	318	559	254	227	231	344
CFSM	0.20	0.31	0.32	0.33	0.38	0.56	0.62	1.43	0.50	1.38	0.44	0.65
IN.	0.23	0.34	0.37	0.38	0.40	0.64	0.69	1.65	0.55	1.59	0.51	0.73
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1944 - 2003,	BY WATE	R YEAR (W	YY)			
MEAN	476	601	799	987	1,176	1,446	1,550	1,151	916	630	437	367
MAX	2,112	1,933	2,478	3,552	3,020	4,239	4,116	2,869	3,468	1,943	2,699	1,224
(WY)	(1991)	(1973)	(1967)	(1950)	(1959)	(1982)	(1950)	(1981)	(1981)	(1996)	(1990)	(1958)
MIN	134	155	177	183	192	451	525	337	243	180	155	107
(WY)	(1954)	(1954)	(1964)	(1963)	(1963)	(1957)	(1958)	(1958)	(1988)	(1988)	(1988)	(1966)

03331500 TIPPECANOE RIVER NEAR ORA, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	ENDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEARS 1944 - 2003		
ANNUAL TOTAL	319,245		186,117				
ANNUAL MEAN	875		510		876		
HIGHEST ANNUAL MEAN					1,580	1950	
LOWEST ANNUAL MEAN					354	1964	
HIGHEST DAILY MEAN	4,120	May 15	2,830	Jul 10	8,450	Jun 15, 1981	
LOWEST DAILY MEAN	154	Oct 3	154	Oct 3	87	Sep 13, 1966	
ANNUAL SEVEN-DAY MINIMUM	158	Oct 12	158	Oct 12	93	Sep 8, 1966	
MAXIMUM PEAK FLOW			2,880	Jul 10	8,660	Jun 15, 1981	
MAXIMUM PEAK STAGE			11.85	Jul 10	15.22	Aug 20, 1990	
ANNUAL RUNOFF (CFSM)	1.02		0.60		1.02	•	
ANNUAL RUNOFF (INCHES)	13.87		8.09		13.90		
10 PERCENT EXCEEDS	2,150		905		1,860		
50 PERCENT EXCEEDS	477		340		609		
90 PERCENT EXCEEDS	178		212		218		



03331753 TIPPECANOE RIVER AT WINAMAC, IN

LOCATION.--Lat 41°02'59", long 86°35'58", in SW 1/4NW 1/4 sec.13, T.30 N., R.R W., Pulaski County, Hydrologic Unit 05120106, (WINAMAC, IN quadrangle), on the northeast corner of the Washington Street bridge in Winamac, 0.3 mi downstream of the city park, 2 mi north of U.S. Highway 35 bridge, and at mile 70.3.

DRAINAGE AREA.--942 mi².

PERIOD OF RECORD .-- August 2001 to current year.

GAGE.--Water-stage recorder. Datum of gage is 674.19 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for May 11-23, July 10-16, and 23, and estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES DAY OCT NOV DEC FEB MAR APR MAY JUN JUL AUG SEP JAN 187 216 282 339 e290 e312 490 650 693 284 788 426 2 184 215 280 358 e320 e308 477 743 656 274 e740 611 215 257 3 184 e278 365 e380 e302 461 718 655 e720 874 4 189 213 e270 359 e460 e290 475 706 654 258 e710 929 5 220 216 e282 345 e570 e300 591 789 627 467 666 886 6 239 e540 e306 994 600 763 628 865 307 205 e278 334 e480 e308 935 1,110 575 1.230 610 877 589 e274 547 1,970 8 203 314 326 e430 e310 954 1.100 890 194 307 e276 325 e400 378 974 524 2,390 557 865 1.310 10 192 307 e272 325 550 948 500 2,760 527 e380 1,810 811 292 2,300 11 189 e320 512 910 475 2.950 487 731 e268 e375 285 2.510 471 2.850 450 12 185 e265 e324 e370 471 865 674 <u>2</u>78 e320 2.420 13 188 e262 e368 471 807 527 2.450 441 638 14 185 2.77 e260 e319 e364 607 748 2.160624 2.000434 62.1 15 184 2.78 258 e318 e360 841 693 2.070 854 1,660 419 605 16 185 270 247 e317 e360 843 631 1,990 742 1,410 396 584 184 264 245 e316 822 579 1,950 640 1,190 388 551 17 e362 1,030 18 187 259 258 e315 e365 772 533 1,820 569 370 520 492 209 262 287 e314 e368 707 507 1.680 531 348 213 266 321 20 315 e313 e370 659 495 1,630 483 e830 458 2.1 210 267 346 e312 e380 632 504 1,490 430 e1.100 296 418 22 286 361 486 396 e1,900 283 407 211 e390 612 1,360 e311 23 299 354 1.250 270 212 e310 e420 620 453 374 1.820 406 303 24 331 440 1.170 259 420 208 e305 e370 632 354 1.510 25 254 308 435 208 306 e300 e350 626 439 1.110 336 1.210 26 e295 1,050 211 303 e310 e340 628 425 323 1.080 251 452 2.7 213 296 e305 e290 e330 618 410 956 311 1,000 260 475 28 211 296 e298 e287 e320 591 394 895 304 967 267 607 29 218 291 e292 e283 582 384 834 301 963 279 667 287 e290 e281 910 308 221 542 383 296 636 31 222 311 e280 495 719 846 325 TOTAL 6,226 8,214 8.943 9,848 10,812 16,647 18,247 42,050 15,372 41,253 13,641 18,831 201 274 1,356 512 1,331 MEAN 288 318 386 537 608 440 628 222 314 361 365 570 843 974 2,510 854 2,950 788 929 MAX MIN 184 213 245 280 290 290 383 650 296 257 251 406 0.21 0.29 0.34 0.57 0.54 0.31 0.41 0.65 1.44 1.41 0.47 0.67 CFSM 0.32 0.35 0.39 0.25 0.43 0.66 0.72 0.61 0.54 0.74 IN. 1.66 1.63 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2003, BY WATER YEAR (WY) MEAN 1.027 1.038 1.081 852 375 418 1,853 1,396 1,689 1,331 MAX 1,250 786 1,625 2.273 2.334 953 440 628 (WY) (2002)(2002)(2002)(2002)(2002)(2002)(2002)(2002)(2002)(2003)(2003)(2003)MIN 201 274 288 318 386 537 608 1,356 512 373 311 208 (WY) (2003)(2003)(2003)(2003)(2003)(2003)(2003)(2003)(2003)(2002)(2002)(2002)SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 2001 - 2003 ANNUAL TOTAL 341,984 210,084 ANNUAL MEAN 937 576 914 HIGHEST ANNUAL MEAN 1,252 2002 LOWEST ANNUAL MEAN 576 2003 HIGHEST DAILY MEAN 4.280 2,950 May 16, 2002 Jul 11 4.280 May 16 Sep 3, 2001 Aug 28, 2001 LOWEST DAILY MEAN 184 4.8 184 Oct Oct 2 ANNUAL SEVEN-DAY MINIMUM Oct 12 Oct 12 185 185 5.1 May 16, 2002 MAXIMUM PEAK FLOW 3.110 Jul 11 4,600 MAXIMUM PEAK STAGE 9.53 Jul 11 11.48 May 16, 2002 ANNUAL RUNOFF (CFSM) 0.99 0.61 0.97 ANNUAL RUNOFF (INCHES) 13.51 8.30 13.18 1,060 10 PERCENT EXCEEDS 2.280 2.060

394

232

622 250

548

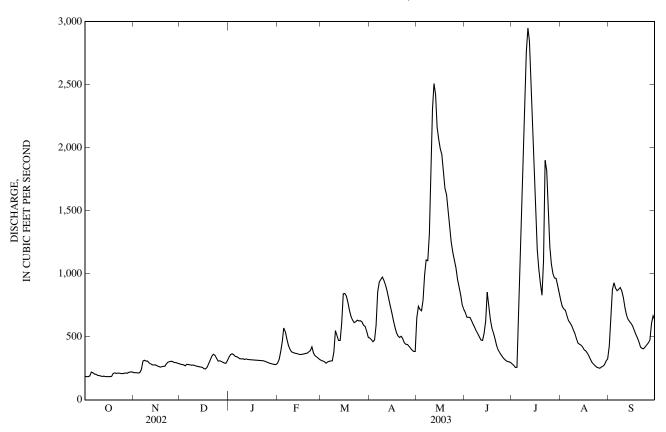
209

50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

e Estimated

03331753 TIPPECANOE RIVER AT WINAMAC, IN—Continued



03333050 TIPPECANOE RIVER NEAR DELPHI, IN

LOCATION.--Lat 40°35'38", long 86°46'12", in SW \(^1\)4SW \(^1\)4 sec.21, T.25 N., R.3 W., Carroll County, Hydrologic Unit 05120106, (BROOKSTON, IN quadrangle), on left bank 20 ft upstream from bridge on State Highway 18, 1,400 ft east of Springboro, 5 mi west of Delphi, 8.1 mi downstream from Big Creek, 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). WDR-IN-94-1: 1991 (maximum discharge).

GAGE.--Water-stage recorder. Datum of gage is 535.00 ft above National Geodetic Vertical Datum of 1929. Mar. 14, 1903 to July 20, 1906, and Nov. 2 to Dec. 31, 1908, nonrecording gage at present site at different datum. July 1939 to Sept. 30, 1987, at site 6.4 mi upstream at datum 17.01 ft higher.

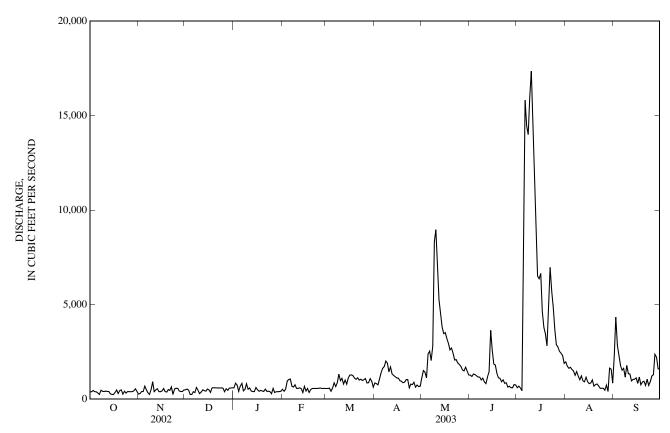
REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by upstream reservoirs.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	385	267	492	601	e523	565	855	1,130	1,270	603	1,970	2,300
2	393	300	530	844	419	565	818	1,510	1,200	687	1,750	4,340
3	456	403	476	745	534	582	758	1,440	1,330	596	1,630	2,840
4	396	407	248	410	953	417	1,080	1,130	1,300	444	1,690	2,310
5	390	687	250	687	1,050	586	1,390	2,380	1,230	10,000	1,570	1,780
6	324	497	397	831	1,060	864	1,630	2,540	1,170	15,800	1,490	1,530
7	249	336	351	437	674	666	1,730	2,040	1,170	14,400	1,260	1,630
8	473	247	616	521	643	871	2,020	2,810	1,020	14,000	1,460	1,160
9	414	500	470	818	762	1,320	1,910	8,330	1,110	16,000	1,220	1,780
10	404	921	293	523	566	979	1,440	8,960	912	17,300	1,030	1,350
11	428	395	369	e592	570	1,100	1,700	6,850	823	12,800	1,230	1,330
12	407	491	492	e430	601	799	1,340	5,250	1,190	10,100	967	967
13	404	549	451	e402	555	1,010	1,250	4,560	1,440	8,130	916	1,040
14	276	401	424	e400	356	797	1,190	3,820	3,640	6,510	1,160	1,050
15	251	394	532	e618	678	1,120	1,120	3,470	2,610	6,360	920	1,130
16	243	435	491	e503	431	1,270	1,110	3,510	1,860	6,650	818	837
17	354	564	353	e418	566	1,290	975	3,220	1,800	4,650	857	1,170
18	490	402	600	e464	354	1,250	946	2,950	1,360	3,800	1,010	759
19	299	376	604	e430	501	1,110	868	2,610	1,130	3,460	691	903
20	456	507	600	e410	565	1,050	894	2,700	1,100	2,810	767	947
21	491	462	595	e526	565	1,130	1,030	2,430	915	4,990	804	729
22	264	645	593	e411	572	1,010	1,040	2,070	1,020	6,970	705	1,060
23	421	246	593	e420	571	1,050	597	2,090	835	5,710	574	725
24	322	538	597	e398	572	988	796	1,920	865	4,870	576	919
25	405	575	584	e285	591	1,030	767	1,830	636	3,670	580	1,220
26 27 28 29 30 31	398 398 398 439 546 401	575 432 407 407 489	392 551 468 581 590 600	e569 e354 e392 e396 e400 e416	565 568 565 	1,090 859 870 1,080 954 631	897 633 745 667 686	1,730 1,550 1,490 1,690 1,490 1,280	684 602 604 771 751	2,880 2,760 2,530 2,430 2,310 1,900	468 743 404 1,640 1,590 851	1,290 2,370 2,220 1,610 1,590
TOTAL	11,975	13,855	15,183	15,651	16,930	28,903	32,882	90,780	36,348	196,120	33,341	44,886
MEAN	386	462	490	505	605	932	1,096	2,928	1,212	6,326	1,076	1,496
MAX	546	921	616	844	1,060	1,320	2,020	8,960	3,640	17,300	1,970	4,340
MIN	243	246	248	285	354	417	597	1,130	602	444	404	725
CFSM	0.21	0.25	0.26	0.27	0.32	0.50	0.59	1.57	0.65	3.38	0.58	0.80
IN.	0.24	0.28	0.30	0.31	0.34	0.58	0.65	1.81	0.72	3.90	0.66	0.89
STATIST	ICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1988 - 2003	, BY WATE	ER YEAR (W	/Y)			
MEAN	1,284	1,499	1,813	2,423	2,476	2,906	3,024	2,507	2,220	1,968	1,153	1,030
MAX	4,215	4,120	3,819	6,854	4,774	5,184	4,958	4,610	4,324	6,326	4,849	3,092
(WY)	(2002)	(1993)	(1991)	(1993)	(1997)	(1998)	(1994)	(2002)	(1997)	(2003)	(1990)	(1993)
MIN	369	453	490	505	605	811	1,096	983	493	360	308	325
(WY)	(1996)	(2000)	(2003)	(2003)	(2003)	(1996)	(2003)	(1988)	(1988)	(1988)	(1988)	(1999)

03333050 TIPPECANOE RIVER NEAR DELPHI, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	ENDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEARS	S 1988 - 2003
ANNUAL TOTAL	697,387		536,854			
ANNUAL MEAN	1,911		1,471		2,023	
HIGHEST ANNUAL MEAN					3,046	1993
LOWEST ANNUAL MEAN					954	2000
HIGHEST DAILY MEAN	10,800	May 13	17,300	Jul 10	18,400	Dec 30, 1990
LOWEST DAILY MEAN	243	Oct 16	243	Oct 16	131	Aug 5, 1988
ANNUAL SEVEN-DAY MINIMUM	318	Sep 11	331	Oct 13	255	Aug 2, 1988
MAXIMUM PEAK FLOW		•	18,500	Jul 10	20,600	Apr 12, 1994
MAXIMUM PEAK STAGE			12.80	Jul 10	13.72	Apr 12, 1994
ANNUAL RUNOFF (CFSM)	1.02		0.79		1.08	*
ANNUAL RUNOFF (INCHES)	13.88		10.69		14.70	
10 PERCENT EXCEEDS	4,790		2,780		4,280	
50 PERCENT EXCEEDS	1,080		799		1,440	
90 PERCENT EXCEEDS	364		398		458	



03333450 WILDCAT CREEK NEAR JEROME, IN

LOCATION.--Lat $40^{\circ}26'29''$, long $85^{\circ}55'08''$, in NE $^{1}_{4}$ SE $^{1}_{4}$ sec.14, T.23 N., R.5 E., Howard County, Hydrologic Unit 05120107, (GREENTOWN, IN. quadrangle), 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 National Geodetic Vertical Datum of 1929.

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

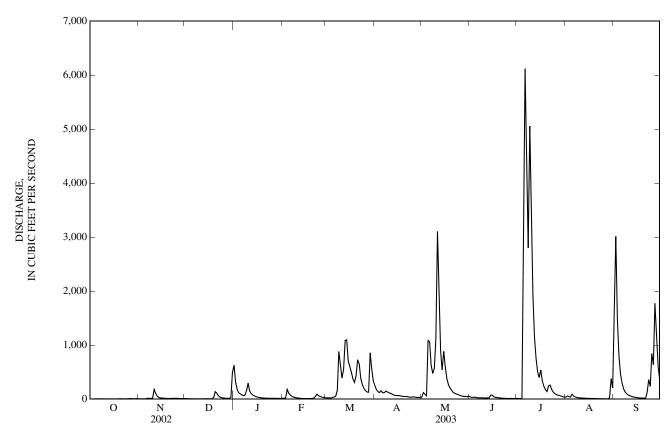
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of about 18 ft, from information by local residents.

					YEAR OCT	, CUBIC FEI TOBER 2002 LY MEAN V	TO SEPTE	COND MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	4.7 4.4 4.4 6.0 7.8	e8.2 e6.8 e6.0 e6.4 e6.9	9.8 9.0 8.4 7.8	630 317 182 120 99	e16 e17 e23 e180 e110	e26 e25 e24 e24 e30	253 179 138 123 156	35 121 93 62 1,090	43 32 36 36 30	14 12 11 11 4,540	37 58 49 37 91	1,180 3,010 1,460 789 465
6 7 8 9 10	7.6 6.9 6.3 6.3	e8.2 e18 e14 e11 e23	7.6 7.6 7.7 6.9 6.8	78 63 72 156 298	e76 e52 e38 e30 e25	e40 e54 e160 882 625	118 120 147 134 118	1,060 627 476 571 1,130	25 25 26 25 21	6,120 4,550 2,800 5,050 3,950	57 41 32 26 23	294 191 131 99 77
11 12 13 14 15	5.5 6.0 6.5 e5.3 e6.1	182 104 51 31 24	7.1 7.7 7.8 8.2 8.4	e150 e100 e76 e60 e47	e20 e18 e15 e13 e12	389 548 1,090 1,100 703	107 95 78 68 68	3,100 1,970 896 540 885	22 24 25 74 77	1,930 1,160 760 513 400	21 20 18 16 15	63 50 42 36 32
16 17 18 19 20	e5.0 e5.3 e5.6 e6.5 e7.9	20 17 16 15 13	8.5 7.3 8.2 32 138	e38 e31 e27 e23 e21	e12 e11 e11 e12 e14	603 498 378 311 440	67 64 57 50 49	605 381 273 208 166	44 33 29 26 22	540 342 239 181 141	14 13 13 13 12	27 24 21 20 20
21 22 23 24 25	e9.2 e7.1 e6.8 e7.3 e8.0	13 14 15 16 15	111 63 38 29 e24	e19 e18 e17 e16 e16	e20 e50 e90 e64 e50	730 652 384 270 202	50 46 39 36 41	128 110 96 84 74	19 17 16 15 13	241 262 178 132 101	10 10 9.2 8.4 7.9	18 125 360 237 842
26 27 28 29 30 31	e9.7 e13 e9.2 e8.4 e9.0 e12	14 12 11 11 13	e19 e16 e15 e14 36 496	e16 e16 e15 e15 e15 e15	e40 e33 e29	158 134 129 859 559 337	43 35 31 33 32	63 54 50 53 46 53	14 15 12 12 14	82 72 68 58 47 40	7.4 7.0 7.0 26 378 209	636 1,770 1,190 610 365
TOTAL MEAN MAX MIN CFSM IN.	219.8 7.09 13 4.4 0.05 0.06	715.5 23.9 182 6.0 0.16 0.18	1,176.8 38.0 496 6.8 0.26 0.30	2,766 89.2 630 15 0.61 0.70	1,081 38.6 180 11 0.26 0.28	12,364 399 1,100 24 2.73 3.15	2,575 85.8 253 31 0.59 0.66	15,100 487 3,100 35 3.34 3.85	822 27.4 77 12 0.19 0.21	34,545 1,114 6,120 11 7.63 8.80	1,285.9 41.5 378 7.0 0.28 0.33	14,184 473 3,010 18 3.24 3.61
STATIST			EAN DATA				BY WATE	R YEAR (W	Y)			
MEAN MAX (WY) MIN (WY)	50.4 481 (2002) 1.72 (1967)	108 834 (1993) 1.53 (2000)	155 622 (1991) 2.32 (2000)	155 687 (1974) 1.02 (1977)	204 649 (1976) 11.2 (1963)	277 793 (1982) 31.5 (2000)	223 689 (1964) 16.5 (2000)	169 487 (2003) 17.9 (1976)	136 720 (1998) 8.20 (1988)	122 1,114 (2003) 7.00 (1994)	41.8 401 (1998) 2.86 (1999)	53.4 589 (1989) 0.88 (1999)

WABASH RIVER BASIN

03333450 WILDCAT CREEK NEAR JEROME, IN-Continued

SUMMARY STATISTICS	FOR 2002 CALE	NDAR YEAR	FOR 2003 WA	ΓER YEAR	WATER YEARS	S 1962 - 2003
ANNUAL TOTAL	45,819.4		86,835.0			
ANNUAL MEAN	126		238		141	
HIGHEST ANNUAL MEAN					253	1993
LOWEST ANNUAL MEAN					37.7	2000
HIGHEST DAILY MEAN	3,560	May 13	6,120	Jul 6	6,300	Jun 12, 1998
LOWEST DAILY MEAN	2.5	Sep 11	4.4	Oct 2	0.47	Sep 27, 1999
ANNUAL SEVEN-DAY MINIMUM	2.7	Sep 8	5.7	Oct 11	0.52	Sep 22, 1999
MAXIMUM PEAK FLOW		•	7,160	Jul 6	7,160	Jul 6, 2003
MAXIMUM PEAK STAGE			14.35	Jul 6	14.35	Jul 6, 2003
ANNUAL RUNOFF (CFSM)	0.86		1.63		0.96	
ANNUAL RUNOFF (INCHES)	11.67		22.13		13.11	
10 PERCENT EXCEEDS	305		604		342	
50 PERCENT EXCEEDS	26		35		45	
90 PERCENT EXCEEDS	5.0		7.8		4.9	



WABASH RIVER BASIN

03333600 KOKOMO CREEK NEAR KOKOMO, IN

LOCATION.--Lat $40^{\circ}26'28''$, long $86^{\circ}05'20''$, in $NW^{1}_{4}SW^{1}_{4}$ sec. 16, T.23 N., R.4 E., Howard County, Hydrologic Unit 05120107, (KOKOMO EAST, IN. quadrangle), on left bank at upstream side of bridge on County Road 200 East, 0.5 mi south of County Road 200 South, 2.6 mi southeast of intersection of U.S. Highways 31 and 35 in Kokomo, and 4.2 mi upstream from mouth.

DRAINAGE AREA.--24.7 mi².

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

REVISED RECORDS.--WSP 2109: Drainage area. WDR IN-72-1: 1970-71(P).

GAGE.--Water-stage recorder. Datum of gage is 807.68 ft above National Geodetic Vertical Datum of 1929.

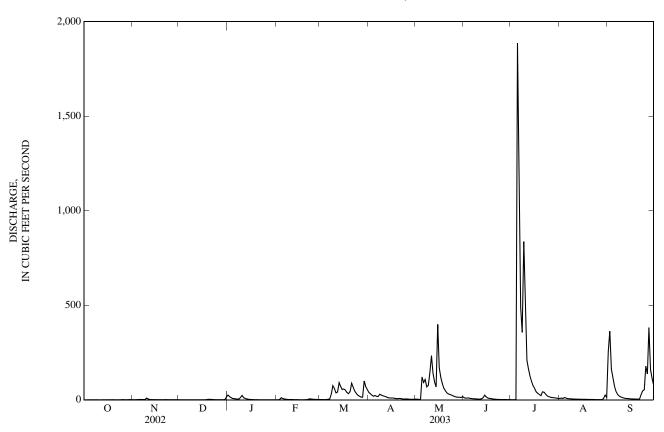
REMARKS.--Records fair except for estimated daily discharges and those below 1 ft³/s, which are poor.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.10	0.96	e0.60	25	e0.46	e1.6	e39	3.7	11	0.76	7.2	256
2	0.10	0.92	e0.54	17	e0.60	e1.5	e32	3.3	8.7	0.77	9.2	363
3	0.10	1.0	e0.50	11	e1.6	e1.4	e24	2.2	9.7	1.00	7.2	161
4	0.22	1.2	0.48	7.4	e11	e1.4	e19	2.0	9.1	1.5	12	114
5	0.47	1.7	0.48	6.3	6.9	e1.7	e23	121	7.3	1,890	8.7	72
6	0.21	2.1	0.46	5.2	4.5	e2.8	e18	92	6.2	1,040	6.8	43
7	0.20	1.6	0.46	3.9	2.9	e4.4	e18	108	5.7	488	5.8	28
8	0.25	1.5	0.47	4.7	2.0	e30	e29	68	5.0	357	5.1	20
9	0.23	1.5	0.43	12	1.9	e75	e25	77	4.9	837	4.6	15
10	0.21	8.9	0.44	23	1.8	e60	e21	144	3.5	554	4.1	12
11	0.20	4.7	0.50	e11	1.6	e37	18	233	3.8	209	3.8	9.1
12	0.18	1.5	0.55	e7.0	1.2	e41	16	141	5.6	164	3.5	7.5
13	0.23	1.3	0.55	e4.5	1.0	91	12	94	11	125	3.2	6.6
14	0.28	1.1	0.53	e3.1	1.1	71	10	68	25	98	3.0	6.2
15	0.30	1.0	0.49	e2.2	0.94	55	9.8	399	15	74	2.8	5.5
16	0.29	1.1	0.43	e1.7	0.61	57	9.6	169	9.6	59	2.7	4.8
17	0.28	0.90	0.44	e1.2	0.60	51	8.7	118	7.5	41	2.8	4.8
18	0.34	0.86	0.80	e1.0	0.62	39	7.2	84	6.2	34	2.4	4.2
19	0.82	0.89	2.0	e0.78	0.72	32	6.0	60	5.1	28	2.1	4.0
20	0.53	0.89	2.8	e0.66	0.99	43	7.2	46	3.8	22	2.0	3.7
21	0.41	0.96	2.2	e0.58	1.8	88	7.0	36	2.9	42	1.9	3.2
22	0.38	1.3	1.8	e0.50	5.0	67	5.6	31	2.5	40	1.9	28
23	0.36	1.0	1.1	e0.46	4.8	e46	4.2	27	2.1	30	1.6	47
24	0.40	0.84	1.0	e0.44	3.4	e34	4.1	24	1.8	21	1.5	54
25	0.89	0.79	0.96	e0.44	e2.6	e24	4.7	20	1.4	17	1.4	178
26 27 28 29 30 31	1.2 0.66 0.57 0.86 1.4 1.1	e0.76 e0.74 e0.72 e0.72 e0.76	0.81 0.83 0.72 0.75 1.5	e0.44 e0.44 e0.43 e0.43 e0.43	e2.1 e1.9 e1.8 	e19 e15 e14 e100 e70 e54	4.3 3.1 3.1 3.1 2.9	17 15 14 14 12 17	1.6 1.8 1.3 1.2 1.1	14 12 11 10 8.8 7.8	1.4 1.4 1.2 6.6 25 13	136 383 160 112 77
TOTAL	13.77	44.21	40.62	153.66	66.44	1,227.8	394.6	2,260.2	181.4	6,237.63	155.9	2,318.6
MEAN	0.44	1.47	1.31	4.96	2.37	39.6	13.2	72.9	6.05	201	5.03	77.3
MAX	1.4	8.9	15	25	11	100	39	399	25	1,890	25	383
MIN	0.10	0.72	0.43	0.43	0.46	1.4	2.9	2.0	1.1	0.76	1.2	3.2
CFSM	0.02	0.06	0.05	0.20	0.10	1.60	0.53	2.95	0.24	8.15	0.20	3.13
IN.	0.02	0.07	0.06	0.23	0.10	1.85	0.59	3.40	0.27	9.39	0.23	3.49
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1960 - 2003,	BY WATE	ER YEAR (W	Y)			
MEAN	10.7	18.6	24.6	24.4	34.3	47.1	40.4	28.0	19.4	18.9	7.15	7.71
MAX	98.6	144	102	114	129	150	117	87.2	99.7	201	58.5	77.3
(WY)	(2002)	(1993)	(1991)	(1974)	(1990)	(1982)	(1964)	(1996)	(1980)	(2003)	(1998)	(2003)
MIN	0.44	0.55	0.44	0.33	1.98	4.21	2.02	2.52	1.20	1.07	0.50	0.16
(WY)	(2003)	(2000)	(1977)	(1977)	(1964)	(2000)	(2000)	(1976)	(1988)	(1988)	(1988)	(1991)
SUMMA	RY STATIS	STICS]	FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	EAR	WATER	YEARS 196	50 - 2003
ANNUAL HIGHES' LOWEST LOWEST ANNUAL MAXIMI MAXIMI ANNUAL ANNUAL TO PERC 50 PERC	T ANNUAI Γ ANNUAL Τ DAILY M Γ DAILY M	MEAN IEAN EAN AY MINIM FLOW STAGE (CFSM) (INCHES) EDS EDS	UM	447 ((12 55	7 May 0.01 Sep 0.02 Sep 0.91 2.32	15	1,8° 2,9°	0.10 Oct 0.20 Oct 50 Jul	1	1,8	0.01 Se 0.02 Se 50 Jr	1993 2000 ul 5, 2003 ep 15, 2002 ep 11, 2002 ul 5, 2003 ul 5, 2003

e Estimated

03333600 KOKOMO CREEK NEAR KOKOMO, IN—Continued



03333700 WILDCAT CREEK AT KOKOMO, IN

LOCATION.--Lat $40^{\circ}28'15''$, long $86^{\circ}09'11''$, in SW $^{1}_{4}$ NE $^{1}_{4}$ sec.2, T.23 N., R.3 E., Howard County, Hydrologic Unit 05120107, (KOKOMO WEST, IN quadrangle), on right bank on property of Kokomo Sewage Treatment Plant in Kokomo, 250 ft downstream from Kokomo Creek, 1.0 mi upstream from Dixon Road bridge, and at mile 62.9.

DRAINAGE AREA.--242 mi².

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

REVISED RECORDS.--WSP 2109: Drainage area. WDR-IN-83: 1980, 1981(P), 1982. WDR-IN-88: 1986(P), 1987 (M).

GAGE.--Water-stage recorder. Datum of gage is 775.62 ft above National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to May 9, 1986, recording gage at site 0.4 mi downstream at present datum.

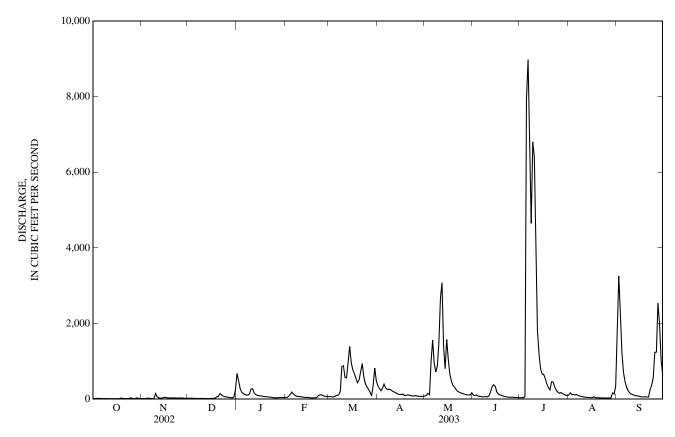
REMARKS.--Records fair except for estimated daily discharges, which are poor. Some regulation by Kokomo Reservoirs Nos. 1 and 2, (combined capacity 4,170 acre-ft, used for municipal water supply) and by Kokomo Sewage Treatment Plant.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	16	22	683	46	66	360	82	108	39	111	1,440
2	17	16	24	478	48	68	286	99	94	40	166	3,260
3	17	15	27	279	71	58	222	152	112	37	121	2,410
4	23	17	22	183	123	64	292	118	85	64	124	1,200
5	21	29	19	146	189	84	399	977	76	7,950	111	699
6	16	22	20	123	140	105	295	1,570	71	8,980	123	454
7	17	18	18	105	103	111	259	967	55	6,560	100	309
8	17	18	18	108	78	210	264	719	67	4,650	82	218
9	16	19	18	132	69	863	255	877	66	6,800	72	167
10	15	149	18	272	69	883	224	1,490	61	6,420	62	133
11	15	62	18	275	64	578	196	2,690	82	3,390	55	115
12	14	33	17	e161	55	562	179	3,080	189	1,820	50	101
13	15	26	15	e120	48	983	155	1,380	325	1,190	49	88
14	15	24	17	e100	45	1,400	132	808	380	810	46	89
15	15	41	17	e91	47	957	122	1,580	342	664	43	75
16	15	50	22	88	42	781	124	1,060	193	653	39	65
17	15	38	19	83	35	676	136	663	141	541	65	59
18	16	34	29	73	32	552	97	476	114	403	40	62
19	31	34	61	66	35	435	99	367	98	306	37	63
20	17	32	68	64	38	512	114	320	81	242	35	58
21	17	34	146	59	41	723	107	258	69	458	33	57
22	15	38	119	55	94	939	98	205	62	455	34	256
23	16	30	82	48	114	599	86	188	57	326	32	370
24	15	29	68	42	118	413	79	165	51	237	31	577
25	34	31	60	36	91	327	94	155	47	188	32	1,240
26 27 28 29 30 31	20 15 16 34 20 16	31 31 25 24 24	54 46 40 36 55 256	37 38 39 43 43 41	77 69 65 	261 193 83 370 821 487	84 78 73 75 69	138 122 113 113 111 174	54 46 43 45 42	154 175 150 125 107 92	32 31 31 167 137 348	1,250 2,550 2,000 1,030 656
TOTAL	564	990	1,451	4,111	2,046	15,164	5,053	21,217	3,256	54,026	2,439	21,051
MEAN	18.2	33.0	46.8	133	73.1	489	168	684	109	1,743	78.7	702
MAX	34	149	256	683	189	1,400	399	3,080	380	8,980	348	3,260
MIN	14	15	15	36	32	58	69	82	42	37	31	57
CFSM	0.08	0.14	0.19	0.55	0.30	2.02	0.70	2.83	0.45	7.20	0.33	2.90
IN.	0.09	0.15	0.22	0.63	0.31	2.33	0.78	3.26	0.50	8.30	0.37	3.24
STATIST	ICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1956 - 2003,	BY WATE	R YEAR (W	Y)			
MEAN	95.1	186	252	254	342	436	414	287	253	213	92.9	95.4
MAX	752	1,387	968	1,375	1,097	1,376	1,117	835	1,432	1,743	602	879
(WY)	(2002)	(1993)	(1991)	(1974)	(1990)	(1982)	(1957)	(1996)	(1958)	(2003)	(1998)	(1989)
MIN	11.2	15.5	13.8	15.6	25.8	62.4	35.3	53.6	28.2	28.6	22.7	12.8
(WY)	(1957)	(1957)	(1964)	(2000)	(1964)	(2000)	(2000)	(1988)	(1988)	(1988)	(2000)	(1956)

03333700 WILDCAT CREEK AT KOKOMO, IN-Continued

SUMMARY STATISTICS	FOR 2002 CALE	ENDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEARS 1956 - 2003		
ANNUAL TOTAL	77,067		131,368				
ANNUAL MEAN	211		360		243		
HIGHEST ANNUAL MEAN					444	1993	
LOWEST ANNUAL MEAN					84.8	2000	
HIGHEST DAILY MEAN	3,390	May 14	8,980	Jul 6	8,980	Jul 6, 2003	
LOWEST DAILY MEAN	14	Oct 12	14	Oct 12	7.2	Sep 30, 1956	
ANNUAL SEVEN-DAY MINIMUM	15	Oct 10	15	Oct 10	8.3	Dec 28, 1963	
MAXIMUM PEAK FLOW			9,500	Jul 5	9,500	Jul 5, 2003	
MAXIMUM PEAK STAGE			17.75	Jul 5	17.75	Jul 5, 2003	
ANNUAL RUNOFF (CFSM)	0.87		1.49		1.00		
ANNUAL RUNOFF (INCHES)	11.85		20.19		13.63		
10 PERCENT EXCEEDS	534		809		576		
50 PERCENT EXCEEDS	64		83		88		
90 PERCENT EXCEEDS	18		18		24		



03334000 WILDCAT CREEK AT OWASCO, IN

LOCATION.--Lat 40°27′50″, long 86°38′15″, in SE½SE½ sec.4, T.23 N., R.2 W., Carroll County, Hydrologic Unit 05120107, (PYRMONT, IN quadrangle), on left bank 200 ft downstream from bridge on State Highway 39, 0.5 mi northwest of Owasco, 8.7 mi south of Delphi, and 15 mi upstream from South Fork Wildcat Creek.

DRAINAGE AREA.--396 mi².

PERIOD OF RECORD.--October 1943 to September 1973. Annual maximum, water years 1975-81. October 1988 to current year. Prior to March 1944 monthly discharge only, published in WSP 1305.

REVISED RECORDS.--WSP 1625: 1958. WSP 2109: Drainage area. WDR 94-1: 1988-1993 (Peak of record).

GAGE.--Water-stage recorder. Datum of gage is 624.63 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1950, nonrecording gage at site 500 ft upstream at same datum.

REMARKS.--Records fair except estimated daily discharges, which are poor. Some regulation at low stages for municipal water supply by Kokomo Water Company since 1955.

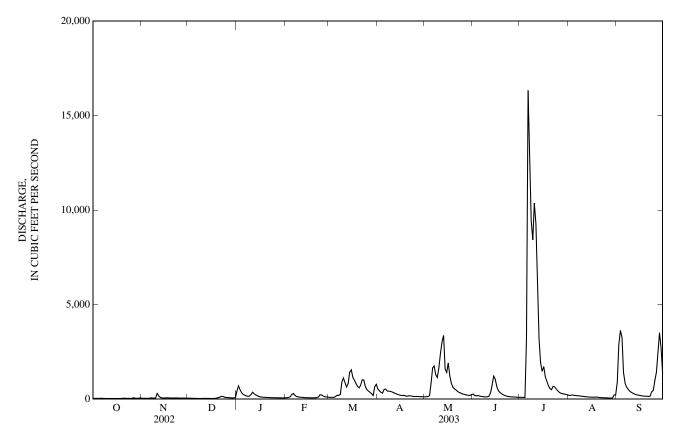
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 18, 1943, reached a stage of 14.00 ft, from floodmarks.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	53	50	444	e76	e100	541	120	261	102	207	897
2	43	47	50	705	e80	e98	439	132	186	95	194	2,870
3	43	44	47	486	e90	e96	367	136	175	91	224	3,640
4	42	45	44	337	e120	e96	316	187	192	86	212	3,260
5	42	46	e40	246	e250	141	510	828	163	3,170	197	1,400
6	49	48	e40	207	e300	207	536	1,660	145	16,300	187	843
7	43	69	e39	171	e200	197	433	1,750	138	12,100	180	636
8	39	58	e39	152	e140	249	423	1,290	121	9,440	171	515
9	38	52	e39	165	e120	884	413	1,150	122	8,430	160	424
10	39	63	e40	248	e110	1,120	384	1,660	123	10,400	149	362
11	37	299	43	367	e100	894	347	2,430	153	9,270	139	310
12	38	164	42	e280	e90	638	307	3,020	333	5,640	130	269
13	38	90	41	e220	e84	826	270	3,370	738	3,210	122	238
14	36	69	41	e180	e80	1,430	240	1,600	1,220	1,940	115	216
15	37	62	39	e140	e78	1,550	214	1,420	1,060	1,470	109	205
16	33	57	38	e120	e76	1,160	198	1,910	667	1,720	104	190
17	36	75	38	e110	e72	1,000	193	1,220	456	1,190	100	172
18	37	69	45	e100	e70	839	199	823	359	944	111	162
19	42	62	49	e95	70	681	161	635	289	718	111	155
20	46	62	83	e90	73	601	162	539	235	557	98	155
21	52	64	105	e86	81	730	182	481	196	499	82	148
22	45	63	146	e82	107	1,030	174	406	170	677	78	154
23	39	68	141	e80	233	1,010	156	352	148	645	74	387
24	42	62	107	e77	227	667	141	320	135	541	71	455
25	43	57	94	e76	e170	507	138	280	125	438	69	968
26 27 28 29 30 31	46 71 50 46 47 68	55 57 56 55 52	e85 e78 e69 67 65 94	e76 e72 e70 e70 e70 e70	e130 e120 e110	426 364 290 199 659 791	146 140 128 129 127	256 234 214 207 200 254	119 113 115 102 98	364 312 288 279 255 229	66 64 62 62 224 229	1,420 2,490 3,510 2,690 1,330
TOTAL	1,353	2,123	1,938	5,692	3,457	19,480	8,114	29,084	8,457	91,400	4,101	30,471
MEAN	43.6	70.8	62.5	184	123	628	270	938	282	2,948	132	1,016
MAX	71	299	146	705	300	1,550	541	3,370	1,220	16,300	229	3,640
MIN	33	44	38	70	70	96	127	120	98	86	62	148
CFSM	0.11	0.18	0.16	0.46	0.31	1.59	0.68	2.37	0.71	7.45	0.33	2.56
IN.	0.13	0.20	0.18	0.53	0.32	1.83	0.76	2.73	0.79	8.59	0.39	2.86
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1945 - 2003,	BY WATE	R YEAR (W	YY)			
MEAN	161	253	327	519	516	621	675	471	403	360	142	153
MAX	1,011	2,024	1,325	3,083	1,725	1,301	1,857	1,108	2,536	2,948	707	1,339
(WY)	(2002)	(1993)	(1958)	(1950)	(1959)	(1997)	(1957)	(1996)	(1958)	(2003)	(1958)	(1989)
MIN	20.0	30.3	25.9	24.6	50.0	95.4	67.6	120	84.8	41.5	37.1	20.6
(WY)	(1945)	(1945)	(1945)	(1945)	(1963)	(2000)	(2000)	(1954)	(1949)	(1954)	(1954)	(1954)

03334000 WILDCAT CREEK AT OWASCO, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	ENDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEARS	S 1945 - 2003
ANNUAL TOTAL	126,657		205,670			
ANNUAL MEAN	347		563		383	
HIGHEST ANNUAL MEAN					733	1950
LOWEST ANNUAL MEAN					104	1954
HIGHEST DAILY MEAN	3,870	May 15	16,300	Jul 6	16,300	Jul 6, 2003
LOWEST DAILY MEAN	33	Oct 16	33	Oct 16	12	Oct 23, 1944
ANNUAL SEVEN-DAY MINIMUM	36	Oct 11	36	Oct 11	15	Sep 23, 1954
MAXIMUM PEAK FLOW			19,300	Jul 6	19,300	Jul 6, 2003
MAXIMUM PEAK STAGE			16.22	Jul 6	16.22	Jul 6, 2003
ANNUAL RUNOFF (CFSM)	0.88		1.42		0.97	
ANNUAL RUNOFF (INCHES)	11.90		19.32		13.13	
10 PERCENT EXCEEDS	844		1,170		900	
50 PERCENT EXCEEDS	132		152		164	
90 PERCENT EXCEEDS	42		45		41	



03334500 SOUTH FORK WILDCAT CREEK NEAR LAFAYETTE, IN

LOCATION.--Lat $40^{\circ}25'04''$, long $86^{\circ}46'05''$, in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.21, T.23 N., R.3 W., Tippecanoe County, Hydrologic Unit 05120107, (LAFAYETTE EAST, IN. quadrangle), on right bank 40 ft upstream from bridge on State Highway 26, 0.5 mi upstream from Middle Fork, 4.4 mi upstream from mouth, and 5 mi

DRAINAGE AREA.--243 mi².

east of Lafayette.

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

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

GAGE.--Water-stage recorder. Datum of gage is 566.60 ft above National Geodetic Vertical Datum of 1929 (Indiana Department of Highways bench mark). Prior to July 29, 1954, nonrecording gage at site 40 ft downstream at same datum.

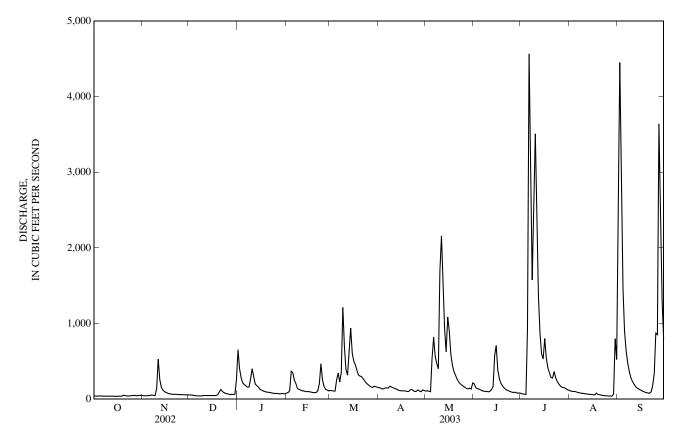
REMARKS.--Records fair except for estimated daily discharges, which are poor. At times peaks affected by backwater from Middle Fork.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May 1943 reached a stage of 16.8 ft, from floodmarks, discharge, 17,900 ft³/s by contractedopening measurement.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES DAY OCT NOV DEC JAN **FEB** MAR APR MAY JUN JUL AUG SEP e80 2,220 e86 4,450 2,770 1,460 42. e45 4,570 e44 e43 3.700 e43 e140 1,580 e43 e130 1,210 2,630 e120 1,690 3,510 e110 2,160 2.310 e200 e110 1,490 1,360 e180 e100 e160 e100 e130 e100 1,090 e97 e120 e92 e110 e100 e86 42. e96 e92 e90 e85 e80 e77 e72 e76 e76 e130 e66 3.640 e60 e72 e120 e70 2,250 e110 1.290 e76 e72 ---52. e72 TOTAL 1,330 2,727 2,059 5,248 4,376 10,562 3,789 15,823 5,120 27,499 3,331 25,478 MEAN 42.9 90.9 66.4 MAX 1,210 2,160 4,570 4,450 MIN 0.18 0.37 0.27 0.70 0.64 1.40 0.52 2.10 0.70 3.65 0.44 3.49 CFSM 0.32 0.80 0.58 2.42 4.21 3.90 0.20 0.42 0.67 0.78 0.51 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2003, BY WATER YEAR (WY) 98.1 MEAN MAX 1.304 1.808 1.143 1.172 1,674 (1989)(WY) (2002)(1993)(1991)(1950)(1985)(1982)(1964)(1983)(1958)(1992)(1958)MIN 27.2 23.5 19.5 37.5 62.6 45.9 67.6 40.6 26.2 18.3 18.0 (WY) (1964)(2000)(1964)(1977)(1963)(2000)(2000)(1976)(1977)(1977)(1944)(1944)

$03334500\ \ SOUTH\ FORK\ WILDCAT\ CREEK\ NEAR\ LAFAYETTE,\ IN--Continued$

SUMMARY STATISTICS	FOR 2002 CALI	ENDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEAR	S 1944 - 2003
ANNUAL TOTAL	87,941		107,342			
ANNUAL MEAN	241		294		242	
HIGHEST ANNUAL MEAN					473	1950
LOWEST ANNUAL MEAN					79.2	1954
HIGHEST DAILY MEAN	3,320	May 13	4,570	Jul 6	11,000	May 2, 1983
LOWEST DAILY MEAN	38	Sep 14	38	Oct 14	15	Sep 19, 1944
ANNUAL SEVEN-DAY MINIMUM	39	Sep 11	39	Oct 12	16	Sep 17, 1944
MAXIMUM PEAK FLOW		•	6,130	Jul 6	15,100	May 2, 1983
MAXIMUM PEAK STAGE			11.77	Jul 6	15.68	May 2, 1983
ANNUAL RUNOFF (CFSM)	0.99		1.21		1.00	·
ANNUAL RUNOFF (INCHES)	13.46		16.43		13.54	
10 PERCENT EXCEEDS	526		627		527	
50 PERCENT EXCEEDS	104		112		109	
90 PERCENT EXCEEDS	43		46		34	



03335000 WILDCAT CREEK NEAR LAFAYETTE, IN

 $LOCATION.--Lat\ 40^{\circ}26'26'', long\ 86^{\circ}49'45'', in\ SW^{1}/_{4}NW^{1}/_{4}\ sec.13, T.23\ N., R.4\ W., Tippecanoe\ County, Hydrologic\ Unit\ 05120107, (LAFAYETTE\ EAST, T.23\ N., R.4\ W., Tippecanoe\ County, Hydrologic\ Unit\ 05120107, (LAFAYETTE\ EAST, T.23\ N., R.4\ W., Tippecanoe\ County, Hydrologic\ Unit\ 05120107, (LAFAYETTE\ EAST, T.23\ N., R.4\ W., Tippecanoe\ County, Hydrologic\ Unit\ 05120107, (LAFAYETTE\ EAST, T.23\ N., R.4\ W., Tippecanoe\ County, Hydrologic\ Unit\ 05120107, (LAFAYETTE\ EAST, T.23\ N., R.4\ W., Tippecanoe\ County, Hydrologic\ Unit\ 05120107, (LAFAYETTE\ EAST, T.23\ N., R.4\ W., Tippecanoe\ County, Hydrologic\ Unit\ 05120107, (LAFAYETTE\ EAST, T.23\ N., R.4\ W., Tippecanoe\ County, Hydrologic\ Unit\ 05120107, (LAFAYETTE\ EAST, T.23\ N., R.4\ W., Tippecanoe\ County, Hydrologic\ Unit\ 05120107, (LAFAYETTE\ EAST, T.23\ N., R.4\ W., Tippecanoe\ County, Hydrologic\ Unit\ 05120107, (LAFAYETTE\ EAST, T.23\ N., R.4\ W., Tippecanoe\ County, Hydrologic\ Unit\ 05120107, (LAFAYETTE\ EAST, T.23\ N., R.4\ W., Tippecanoe\ County, Hydrologic\ Unit\ 05120107, (LAFAYETTE\ EAST, T.23\ N., R.4\ W., Tippecanoe\ County, Hydrologic\ Unit\ 05120107, (LAFAYETTE\ EAST, T.23\ N., R.4\ W., Tippecanoe\ County, Hydrologic\ Unit\ 05120107, (LAFAYETTE\ EAST, T.23\ N., R.4\ W., Tippecanoe\ County, Hydrologic\ Unit\ 05120107, (LAFAYETTE\ EAST, T.23\ N., R.4\ W., Tippecanoe\ County, Hydrologic\ Unit\ 05120107, (LAFAYETTE\ EAST, T.23\ N., R.4\ W., Tippecanoe\ County, Hydrologic\ Unit\ 05120107, (LAFAYETTE\ EAST, T.23\ N., R.4\ W., Tippecanoe\ County, Hydrologic\ Unit\ 05120107, (LAFAYETTE\ EAST, T.23\ N., R.4\ W., Tippecanoe\ County, Hydrologic\ Unit\ 05120107, (LAFAYETTE\ EAST, T.23\ N., R.4\ W., Tippecanoe\ County, Hydrologic\ Unit\ 05120107, (LAFAYETTE\ EAST, T.23\ N., R.4\ W., Tippecanoe\ County, Hydrologic\ Unit\ 05120107, (LAFAYETTE\ EAST, T.23\ N., R.4\ W., Tippecanoe\ County, Hydrologic\ Unit\ 05120107, (LAFAYETTE\ EAST, T.23\ N., R.4\ W., Tippecanoe\ Unit\ 05120107, (LAFAYETTE\ EAST, T.23\ N., R.4\ W., Ti$ IN quadrangle), 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.

(WY)

(1964)

(1964)

(1964)

(1977)

(1963)

(1976)

(1988)

(1977)

(1966)

(1999)

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 National Geodetic Vertical Datum of 1929 (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.

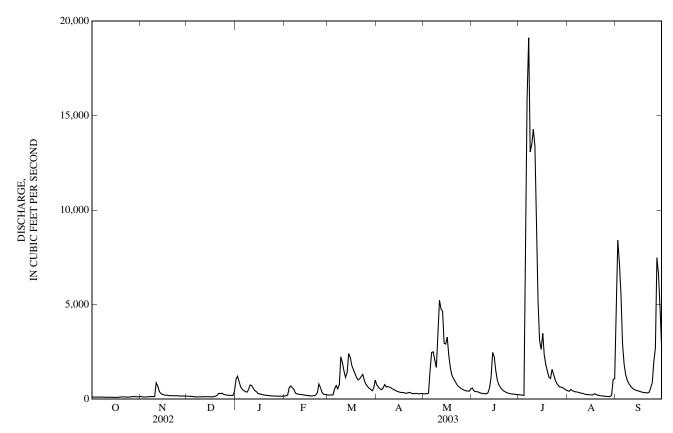
REMARKS.--Records fair except for estimated daily discharges, which are poor.

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 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES DAY OCT NOV DEC JAN **FEB** MAR APR MAY JUN JUL AUG SEP 120 141 159 1,050 e170 e220 751 284 591 234 438 3,890 2 112 122 155 1,210 e180 e220 633 285 437 225 420 8,400 3 108 116 152 922 e220 553 287 400 212 516 7,210 e210 5,520 138 651 e230 500 318 397 204 446 617 113 116 5 540 1.500 409 2.950 110 122 e130 525 700 588 370 3.610 6 110 127 453 606 717 769 2.470 15 900 389 1,840 e120 333 111 130 e120 396 516 549 649 2.500 312 19,100 382 1.310 8 103 146 e120 370 e320 760 667 2,070 296 13,100 355 1,010 103 130 e120 498 e280 2.240 635 1,680 288 13,500 331 833 10 102 140 e125 747 e260 1.920 599 3,480 288 14,300 312 705 e250 11 102 863 e130 725 1,490 545 5,230 13,400 285 609 685 573 e240 1,150 499 4,780 595 263 12 100 131 9,460 533 e450 e230 1,410 5,220 249 488 13 105 403 130 456 4,640 1,170 98 300 130 e400 e210 2,410 412 2,960 2,470 3,120 241 458 14 97 15 252 129 e300 e200 2,220 383 2,910 2,260 2,630 234 434 98 e280 e190 1.780 3.290 412 16 222 127 361 1.500 3.480 222 207 1.570 222 17 96 127 e260 e180 350 2.280 1,010 2.320 379 287 18 99 213 136 e240 e170 1,370 351 1,630 760 1,800 362 112 195 e220 252 345 19 161 e180 1.150 322 1.260615 1,470 e210 20 120 183 208 e180 1.020 310 1,080 513 1,160 214 342 21 120 184 308 e200 219 1,070 336 947 435 1,100 193 329 22 117 185 297 e190 350 1,200 360 792 386 1,580 181 363 23 180 317 e180 802 1,310 319 684 346 1,300 171 587 111 e260 e170 609 993 615 317 1,010 161 870 25 794 293 557 292 1,980 119 e230 e170 e350 834 154 26 124 170 e220 e170 e260 675 308 509 2.79 719 145 2.700 27 e206 e250 269 7,480 131 e160 583 298 465 139 169 641 28 e200 525 268 438 263 6,600 141 167 e160 e230627 133 29 192 e160 443 298 437 247 601 192 4.720 131 165 30 299 418 127 164 190 e160 ---587 242 536 1.050 2,700 1.000 545 31 127 410 e160 480 1.090 TOTAL 3,473 6,555 5,578 12,360 8,959 32,366 13,401 51,341 18,018 133,873 10,076 66,359 MEAN 112 218 180 399 320 1,044 447 1,656 601 4,318 2,212 325 MAX 141 863 410 1,210 802 2,410 769 5,230 2,470 19,100 1,090 8,400 MIN 96 116 120 160 170 220 268 284 242 204 133 329 0.14 0.28 0.23 0.50 0.40 1.31 0.56 2.09 0.76 5.44 0.41 2.79 CFSM 0.31 0.26 0.58 0.42 1.52 2.41 6.27 0.47 3.11 IN. 0.63 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2003, BY WATER YEAR (WY) MEAN 321 1,277 875 672 788 804 1.361 964 338 329 561 1,066 3.963 5,210 MAX 1.792 2.474 3.711 3.227 3.991 3.657 2.614 4.318 1.511 2.546 (1991)(WY) (2002)(1993)(1974)(1976)(1982)(1964)(1983)(1958)(2003)(1958)(1989)MIN 67.9 85.6 67.0 61.6 104 196 146 231 130 84.4 798 68.8 (2000)(2000)

03335000 WILDCAT CREEK NEAR LAFAYETTE, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	ENDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEARS 1955 - 2003		
ANNUAL TOTAL	266,726		362,359				
ANNUAL MEAN	731		993		778		
HIGHEST ANNUAL MEAN					1,460	1993	
LOWEST ANNUAL MEAN					264	2000	
HIGHEST DAILY MEAN	6,250	May 14	19,100	Jul 7	22,100	Jun 10, 1958	
LOWEST DAILY MEAN	91	Sep 16	96	Oct 17	47	Sep 6, 1964	
ANNUAL SEVEN-DAY MINIMUM	94	Sep 13	99	Oct 12	51	Dec 20, 1963	
MAXIMUM PEAK FLOW		•	23,500	Jul 7	25,000	Jun 10, 1958	
MAXIMUM PEAK STAGE			23.64	Jul 7	23.64	Jul 7, 2003	
ANNUAL RUNOFF (CFSM)	0.92		1.25		0.98		
ANNUAL RUNOFF (INCHES)	12.50		16.98		13.31		
10 PERCENT EXCEEDS	1,690		2,250		1,760		
50 PERCENT EXCEEDS	314		337		358		
90 PERCENT EXCEEDS	120		127		112		



03335500 WABASH RIVER AT LAFAYETTE, IN

LOCATION.--Lat 40°25'19", long 86°53'49", in NE \(^1_4\)SW \(^1_4\) sec. 20, T.23 N., R.4 W., Tippecanoe County, Hydrologic Unit 05120108, (LAFAYETTE WEST, IN. quadrangle), on right bank 20 ft downstream from Brown St. in Lafayette, 0.2 mi upstream from Main St. bridge, 0.3 mi downstream from Harrison Memorial Bridge, 5.1 mi downstream from Wildcat Creek, and at mile 311.9.

DRAINAGE AREA.--7,267 mi².

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

REVISED RECORDS.--WSP 1335: 1929, 1932-33, 1936. WSP 1505: 1950. WSP 1555: 1928(M). WSP 2109: Drainage area. WDR IN-81-1: 1979.

GAGE.--Water-stage recorder. Datum of gage is 504.14 ft above National Geodetic Vertical Datum of 1929. Prior to May 2, 1903, nonrecording gage 0.5 mi upstream at different datum. Oct. 7, 1923, to Nov. 20, 1933, nonrecording gage at same site and datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow partially regulated by upstream reservoirs and power development.

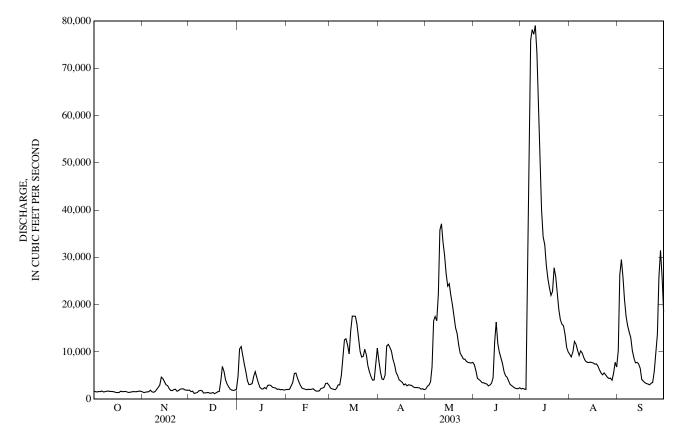
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 26, 1913, reached a stage of 32.9 ft, from floodmark determined by National Weather Service, discharge, 190,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,680	1,510	1,930	4,810	2,050	e2,400	8,170	2,130	7,320	2,170	9,470	10,400
2	1,580	1,380	1,590	10,600	2,040	e2,200	5,770	2,710	6,030	2,280	8,920	26,300
3	1,540	1,490	1,680	11,100	2,110	e2,100	4,270	2,950	4,400	2,130	10,000	29,500
4	1,620	1,540	1,190	9,270	2,820	e2,000	4,120	3,630	4,150	2,060	12,200	25,700
5	1,590	1,570	1,300	7,430	3,540	e2,300	5,020	6,820	3,870	15,200	11,600	21,000
6	1,730	1,910	1,420	5,800	5,410	3,030	11,200	16,600	3,500	58,600	10,400	17,500
7	1,540	1,560	1,770	3,930	5,540	3,030	11,600	17,500	3,460	76,000	9,240	15,500
8	1,580	1,460	1,850	3,100	4,440	4,980	11,000	16,600	3,300	78,200	10,200	14,200
9	1,670	1,590	1,800	3,130	3,580	8,470	10,200	22,200	3,210	77,200	9,740	13,000
10	1,720	2,040	1,290	3,280	2,840	12,500	8,460	35,800	2,800	79,000	8,770	10,200
11	1,650	2,460	1,330	4,750	e2,300	12,800	7,360	37,100	3,000	73,200	8,100	8,690
12	1,630	2,990	1,370	5,800	e2,200	11,500	5,670	33,300	3,370	60,600	7,830	7,690
13	1,610	4,640	1,430	4,560	e2,100	9,580	5,000	30,400	4,480	49,400	7,740	7,790
14	1,530	4,340	1,240	3,480	e2,000	14,400	4,090	26,600	12,100	40,000	7,830	7,470
15	1,410	3,730	1,290	2,490	e2,100	17,600	3,810	23,900	16,300	34,300	7,770	6,560
16	1,400	3,040	1,390	2,180	e2,050	17,600	3,540	24,400	11,800	32,700	7,640	4,200
17	1,410	2,850	1,160	2,160	e2,100	17,500	3,000	21,900	9,940	28,400	7,410	3,810
18	1,670	2,250	1,350	2,460	e2,200	15,900	3,220	19,900	8,740	25,500	7,460	3,500
19	1,580	1,860	1,570	2,200	e1,900	13,100	2,820	17,600	7,580	23,600	6,990	3,300
20	1,600	1,800	1,620	2,900	e1,700	10,100	3,050	15,100	5,830	22,000	6,200	3,190
21	1,640	2,050	3,870	2,990	e1,700	8,920	2,970	13,900	4,930	22,800	5,550	3,040
22	1,530	2,120	6,930	2,890	e1,770	9,060	2,910	11,500	4,610	27,800	5,130	3,360
23	1,420	1,670	5,920	2,530	e2,250	10,600	2,590	9,700	3,780	25,900	5,540	3,530
24	1,460	1,820	4,170	2,410	e2,350	9,380	2,450	9,150	3,090	22,800	5,120	5,920
25	1,540	2,080	3,210	2,370	e2,500	7,070	2,460	8,520	2,840	18,900	4,640	9,780
26 27 28 29 30 31	1,600 1,580 1,570 1,640 1,720 1,650	2,180 2,190 1,980 1,910 1,870	2,620 2,120 1,910 1,860 1,920 2,120	2,070 2,150 1,990 2,050 1,960 1,940	e3,300 e3,400 e3,000	5,760 4,800 4,030 4,090 7,400 10,800	2,430 2,390 2,110 2,210 2,010	8,440 7,970 7,780 7,720 7,640 7,790	2,570 2,330 2,240 2,210 2,420	16,800 15,800 15,500 13,700 11,000 9,990	4,390 4,450 4,010 5,460 7,800 6,800	13,800 25,800 31,500 25,700 18,500
TOTAL	49,090	65,880	66,220	120,780	75,290	265,000	145,900	477,250	156,200	983,530	234,400	380,430
MEAN	1,584	2,196	2,136	3,896	2,689	8,548	4,863	15,400	5,207	31,730	7,561	12,680
MAX	1,730	4,640	6,930	11,100	5,540	17,600	11,600	37,100	16,300	79,000	12,200	31,500
MIN	1,400	1,380	1,160	1,940	1,700	2,000	2,010	2,130	2,210	2,060	4,010	3,040
CFSM	0.22	0.30	0.29	0.54	0.37	1.18	0.67	2.12	0.72	4.37	1.04	1.75
IN.	0.25	0.34	0.34	0.62	0.39	1.36	0.75	2.44	0.80	5.03	1.20	1.95
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WATI	ER YEARS	1924 - 2003,	BY WATE	R YEAR (W	YY)			
MEAN	3,123	4,278	6,655	8,337	9,584	11,710	11,520	8,413	6,689	4,662	2,874	2,763
MAX	17,250	19,910	25,250	42,040	28,000	33,560	28,000	37,290	31,830	31,730	12,890	20,120
(WY)	(2002)	(1993)	(1928)	(1950)	(1959)	(1982)	(1957)	(1943)	(1958)	(2003)	(1998)	(1926)
MIN	652	828	747	735	1,232	1,663	3,135	1,460	1,029	655	484	435
(WY)	(1964)	(1965)	(1964)	(1977)	(1964)	(1941)	(1941)	(1934)	(1934)	(1936)	(1941)	(1941)

03335500 WABASH RIVER AT LAFAYETTE, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	NDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEARS 1924 - 2003		
ANNUAL TOTAL	2,490,652		3,019,970				
ANNUAL MEAN	6,824		8,274		6,700		
HIGHEST ANNUAL MEAN					12,340	1950	
LOWEST ANNUAL MEAN					1,631	1941	
HIGHEST DAILY MEAN	39,600	Feb 2	79,000	Jul 10	129,000	May 19, 1943	
LOWEST DAILY MEAN	921	Sep 13	1,160	Dec 17	399	Sep 26, 1941	
ANNUAL SEVEN-DAY MINIMUM	962	Sep 12	1,320	Dec 11	404	Sep 21, 1941	
MAXIMUM PEAK FLOW		•	80,000	Jul 10	131,000	May 19, 1943	
MAXIMUM PEAK STAGE			25.05	Jul 10	28.47	May 19, 1943	
ANNUAL RUNOFF (CFSM)	0.94		1.14		0.92		
ANNUAL RUNOFF (INCHES)	12.75		15.46		12.53		
10 PERCENT EXCEEDS	18,800		19,300		16,000		
50 PERCENT EXCEEDS	3,160		3,780		3,650		
90 PERCENT EXCEEDS	1,400		1,590		1,170		



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03335690 MUD PINE CREEK NEAR OXFORD, IN

 $LOCATION.--Lat\ 40^{\circ}31'24'', long\ 87^{\circ}20'30'', in\ NE\ _{4}^{l}SE\ _{4}^{l}\ sec.17, T.24\ N., R.8\ W., Benton\ County, Hydrologic\ Unit\ 05120108, (FOWLER, IN.\ quadrangle), on\ right\ bank\ 5\ ft\ downstream\ from\ county\ road\ bridge,\ 0.3\ mi\ north\ of\ Chase,\ 2.0\ mi\ east\ of\ Boswell,\ and\ 5.0\ mi\ west\ of\ Oxford.$

DRAINAGE AREA.--39.4 mi².

PERIOD OF RECORD.--June 1971 to October 2003 (discontinued).

REVISED RECORDS.--WDR IN-80-1: 1971-79 (P).

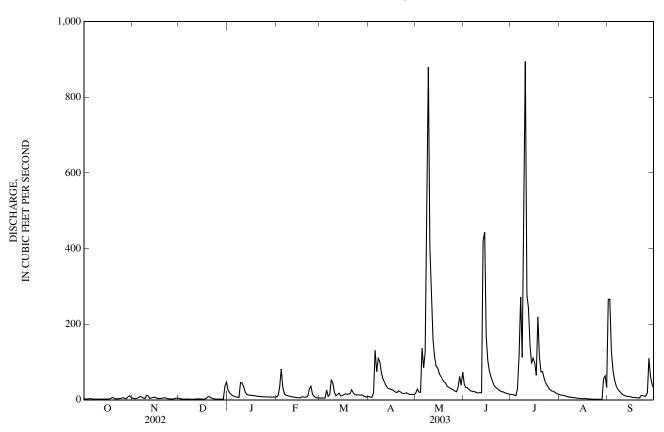
GAGE.--Water-stage recorder. Datum of gage is 718.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for Oct. 12 to Dec. 3, 2002 and estimated daily discharges, which are poor.

					YEAR OCT		ET PER SEC 2 TO SEPTE VALUES		}			
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	2.3 2.2 2.2 2.7 3.1	e4.5 e3.6 e2.9 e4.3 6.5	2.9 e2.4 e2.1 e1.8 e1.9	25 18 14 e11 e9.0	e8.0 e11 33 82 33	e4.7 e4.7 e4.6 e4.9 26	8.8 7.2 6.8 18 131	18 29 20 20 136	41 33 32 27 24	14 14 12 11 29	14 12 12 11 9.5	266 266 127 78 53
6 7 8 9 10	2.3 2.0 1.8 2.0 1.9	9.4 6.8 e4.4 e3.4	e1.9 e2.1 e1.6 e1.3 e1.7	e7.6 e7.0 e6.6 46 44	e16 e12 e11 e9.8 e9.0	e9.0 14 54 44 20	75 110 101 72 56	85 126 300 880 405	23 22 21 19 18	118 272 112 424 895	8.5 7.5 6.7 6.5 6.0	38 29 23 19 15
11 12 13 14 15	1.7 e1.7 e1.8 e1.8 e1.9	10 e3.5 e4.8 6.2 6.9	e1.9 2.2 2.4 2.5 2.1	35 e20 e14 e13 e12	e7.8 e7.1 e6.5 e6.0 e5.4	e11 14 18 11 11	46 38 32 29 28	274 161 113 89 84	19 19 420 443 168	277 243 145 96 111	5.2 4.5 4.1 3.7 3.3	12 11 9.0 9.1 8.2
16 17 18 19 20	e2.0 e2.1 3.5 5.8 4.7	5.3 e3.5 e3.3 e3.6 4.5	2.0 1.7 3.6 7.9 8.5	e12 e11 e11 e10 e9.2	e5.0 7.6 8.1 6.8 7.3	13 16 14 15 16	26 24 21 19 24	70 62 54 48 45	104 77 61 50 38	98 65 219 113 74	3.1 3.3 3.3 2.4 2.1	7.0 6.2 5.8 5.8 5.1
21 22 23 24 25	2.5 e2.7 e3.0 e3.4 e4.2	5.3 5.4 e3.4 e2.7 e2.3	5.5 3.8 e2.5 e1.9 e2.0	e8.8 e8.4 e8.2 e7.8	9.7 29 36 15 9.5	26 19 15 13	22 18 16 17 19	36 33 30 29 26	33 30 26 24 21	75 57 45 38 30	2.0 1.7 1.5 1.8 1.5	5.0 12 11 9.7 9.8
26 27 28 29 30 31	5.4 e3.9 e2.9 7.3 11 6.6	e2.2 e2.1 3.3 4.4 4.6	e1.8 e1.6 e1.6 e1.7 36 47	e7.7 e7.5 e7.4 e7.4 e7.5 e7.6	5.9 e5.2 e5.0 	13 12 12 9.2 7.6 7.8	16 14 14 14 14	23 21 32 62 39 73	21 18 17 16 15	26 23 22 20 17 15	1.4 1.2 1.1 56 64 32	18 110 61 41 30
TOTAL MEAN MAX MIN CFSM IN.	102.4 3.30 11 1.7 0.08 0.10	145.1 4.84 12 2.1 0.12 0.14	159.9 5.16 47 1.3 0.13 0.15	421.5 13.6 46 6.6 0.35 0.40	407.7 14.6 82 5.0 0.37 0.38	472.5 15.2 54 4.6 0.39 0.45	1,036.8 34.6 131 6.8 0.88 0.98	3,423 110 880 18 2.80 3.23	1,880 62.7 443 15 1.59 1.78	3,710 120 895 11 3.04 3.50	292.9 9.45 64 1.1 0.24 0.28	1,300.7 43.4 266 5.0 1.10 1.23
STATIST	TICS OF MO						, BY WATE	R YEAR (W	YY)			
MEAN MAX (WY) MIN (WY)	20.4 207 (2002) 0.38 (2000)	27.7 169 (1986) 0.33 (2000)	41.8 154 (1991) 0.71 (2000)	39.5 164 (1993) 0.46 (2000)	57.7 158 (1990) 3.41 (1977)	72.9 237 (1979) 6.54 (1981)	69.7 267 (1994) 7.99 (2000)	63.1 159 (1981) 8.49 (1976)	61.1 240 (1998) 2.85 (1988)	29.4 147 (1993) 0.65 (1988)	15.5 122 (1981) 0.79 (1988)	16.1 134 (1993) 0.40 (1983)
SUMMA	RY STATIS	STICS		FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER	YEAR	WATER	YEARS 19	72 - 2003
LOWEST HIGHEST LOWEST ANNUAI MAXIMU MAXIMU ANNUAI ANNUAI 10 PERCI 50 PERCI	L MEAN I ANNUAL I ANNUAL I DAILY M I DAILY M	MEAN IEAN EAN AY MINIM FLOW STAGE (CFSM) (INCHES) EDS EDS	UM	613 1 1 16 118	3.8 May 1.3 Dec 1.8 Dec 1.24 6.80 3	9	1,41 1 1 1 1 1	86.6 95 Ju 1.1 Aug 1.5 Aug 10 Mag	1 10 g 28 g 22 y 9	4,5 12,1	0.01 S 0.04 S 00 A	1993 1977 ppr 12, 1994 ep 11, 1999 ep 11, 1999 ppr 12, 1994 pr 12, 1994

e Estimated

03335690 MUD PINE CREEK NEAR OXFORD, IN—Continued



03336000 WABASH RIVER AT COVINGTON, IN

LOCATION.--Lat 40°08'24", long 87°24'24", in NE \(^1/4\)NW \(^1/4\) sec.35, T.20 N., R.9 W., Warren County, Hydrologic Unit 05120108, (COVINGTON, IN, quadrangle), on right approach to old U.S. Highway 136 bridge at Covington, 2.9 mi downstream from Oppossum Run, 3.6 mi upstream from Spring Creek, and at mile 271.1.

DRAINAGE AREA.--8,218 mi².

PERIOD OF RECORD.--October 1939 to current year. Gage-height records collected at site 0.4 mi downstream January 1927 to December 1930, and at present site since January 1931 are contained in reports of National Weather Service.

REVISED RECORDS.--WDR IN-73-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 473.97 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1979, nonrecording gage on old bridge.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow partially regulated by upstream reservoirs.

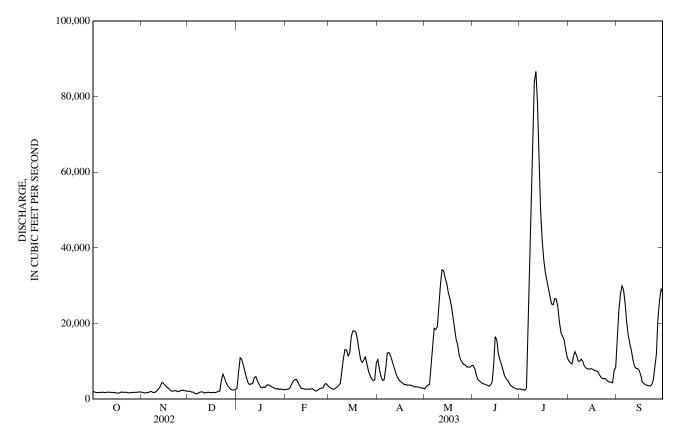
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 35.1 ft, from floodmark determined by National Weather Service, discharge, 200,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

	0.00		DEG			3545						ann
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,070	1,860	2,100	2,880	e2,550	e3,200	10,500	2,720	8,890	2,750	10,100	14,900
2 3	1,880 1,750	1,750 1,650	2,120 1,880	7,150 10,900	e2,600 e2,700	e2,900 e2,700	7,880 6,040	3,330 3,740	8,000 6,260	2,510 2,580	9,630 9,330	23,200 27,600
4	1,730	1,720	1,880	10,500	e3,100	e2,700 e2,600	5,020	3,870	5,150	2,350	11,300	30,000
5	1,780	1,780	1,520	9,090	e4,000	e2,900	5,110	8,060	4,820	2,870	12,600	28,900
6	1,770	1,850	1,390	7,290	e4,800	e3,200	7,960	13,200	4,430	20,400	11,600	25,300
7	1,850	2,060	1,530	5,800	e5,150	e3,600	12,200	18,700	4,110	34,700	10,100	20,500
8	1,740	1,840	1,790 1,910	4,400	e5,200	e4,100	12,300	18,400	4,020	58,500	9,980	16,900
9 10	1,770 1,840	1,760 1,900	1,910	3,850 4,060	e4,400 e3,600	7,180 10,800	11,600 10,400	19,200 24,100	3,820 3,670	72,400 83,900	10,500 9,960	14,700 12,900
11 12	1,860 1,820	2,300 2,760	1,640 1,700	4,110 5,670	e2,900 e2,800	13,100 13,000	8,890 7,640	30,300 34,200	3,430 3,770	86,700 78,600	8,710 8,280	10,400 8,800
13	1,820	3,410	1,790	5,990	e2,700	11,500	6,290	33,900	4,510	63,100	8,010	8,140
14	1,790	4,450	1,840	4,950	e2,600	12,200	5,490	32,100	9,010	50,100	7,940	8,110
15	1,730	4,200	1,720	4,000	e2,700	16,600	4,810	30,600	16,500	42,100	8,050	7,640
16	1,630	3,680	1,730	3,220	e2,600	18,000	4,490	28,300	15,700	36,900	7,950	6,360
17	1,620	3,160	1,810	e3,000	e2,700	18,100	4,210	26,700	12,000	33,600	7,670	4,490
18 19	1,670 1,880	2,980	1,720	e3,200 e3,100	e2,800 e2,500	17,700 15,700	3,830	24,500 21,900	10,400	31,400 29,300	7,490 7,490	4,170
20	1,880	2,480 2,150	1,860 2,040	e3,700	e2,300 e2,200	12,800	3,860 3,650	18,800	9,200 7,650	29,300	6,920	3,810 3,670
	*			*							,	
21 22	1,810 1,840	2,080 2,210	2,130 4,960	e3,800 e3,600	e2,200 e2,500	10,400 9,690	3,740 3,670	15,900 14,300	6,120 5,420	25,200 25,000	6,160 5,590	3,590 3,500
23	1,740	2,210	6,650	e3,300	e2,300 e2,800	10,300	3,590	11,600	4,940	26,600	5,360	3,760
24	1,660	1,990	5,660	e3,100	e2,900	11,100	3,240	10,300	4,180	26,500	5,510	5,000
25	1,710	2,040	4,420	e2,900	e3,000	9,300	3,220	9,640	3,590	24,400	5,110	8,130
26	1,780	2,250	3,600	e2,700	e3,950	7,440	3,260	9,190	3,230	20,500	4,710	11,900
27	1,810	2,350	3,050	e2,800	e4,100	6,360	3,200	8,960	3,020	17,600	4,500	21,200
28 29	1,790 1,810	2,350 2,200	2,590 2,420	e2,600 e2,700	e3,600	5,440 4,870	3,050 2,890	8,500 8,500	2,790 2,690	16,600	4,490 4,330	26,000 29,100
30	1,810	2,200	2,420	e2,700 e2,600		5,150	2,890	8,480	2,660	15,800 13,200	7,710	28,300
31	1,920	2,120	2,530	e2,500		9,600	2,720	8,910	2,000	11,100	8,340	
TOTAL	55,540	71,610	76,310	139,460	89,650	281,530	174,950	510,900	183,980	984,360	245,420	420,970
MEAN	1,792	2,387	2,462	4,499	3,202	9,082	5,832	16,480	6,133	31,750	7,917	14,030
MAX	2,070	4,450	6,650	10,900	5,200	18,100	12,300	34,200	16,500	86,700	12,600	30,000
MIN	1,620	1,650	1,390	2,500	2,200	2,600	2,890	2,720	2,660	2,350	4,330	3,500
CFSM	0.22	0.29	0.30	0.55	0.39	1.11	0.71	2.01	0.75	3.86	0.96	1.71
IN.	0.25	0.32	0.35	0.63	0.41	1.27	0.79	2.31	0.83	4.46	1.11	1.91
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2003, BY WATER YEAR (WY)												
MEAN	3,557	4,836	7,159	8,909	10,840	13,090	13,020	10,080	8,382	5,829	3,573	3,085
MAX	18,360	23,930	22,080	49,700	34,450	34,840	28,470	43,540	36,010	31,750	13,470	14,030
(WY) MIN	(2002) 738	(1993) 919	(1968) 810	(1950) 896	(1959) 1,357	(1982) 1,915	(1957) 3,536	(1943) 1,814	(1958) 1,542	(2003) 1,212	(1998) 640	(2003) 545
(WY)	(1965)	(1965)	(1964)	(1977)	(1963)	(1941)	(1941)	(1941)	(1988)	(1988)	(1941)	(1941)
("1)	(1703)	(1703)	(1707)	(1711)	(1703)	(1)71)	(1)71)	(1)71)	(1700)	(1700)	(1)71)	(1771)

03336000 WABASH RIVER AT COVINGTON, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	ENDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEARS 1940 - 2003		
ANNUAL TOTAL	2,858,180		3,234,680				
ANNUAL MEAN	7,831		8,862		7,677		
HIGHEST ANNUAL MEAN					14,980	1950	
LOWEST ANNUAL MEAN					1,862	1941	
HIGHEST DAILY MEAN	36,500	May 15	86,700	Jul 11	143,000	May 20, 1943	
LOWEST DAILY MEAN	1,290	Sep 14	1,390	Dec 6	487	Sep 29, 1941	
ANNUAL SEVEN-DAY MINIMUM	1,330	Sep 13	1,670	Dec 5	497	Sep 24, 1941	
MAXIMUM PEAK FLOW		-	89,000	Jul 11	147,000	May 20, 1943	
MAXIMUM PEAK STAGE			28.90	Jul 11	32.44	May 20, 1943	
ANNUAL RUNOFF (CFSM)	0.95		1.08		0.93		
ANNUAL RUNOFF (INCHES)	12.94		14.64		12.69		
10 PERCENT EXCEEDS	21,800		22,400		18,600		
50 PERCENT EXCEEDS	3,900		4,330		4,440		
90 PERCENT EXCEEDS	1,730		1,810		1,490		



03339280 PRAIRIE CREEK NEAR LEBANON, IN LOCATION.--Lat $40^{\circ}06'16''$, long $86^{\circ}31'32''$, in NW $^{1}_{4}$ SW $^{1}_{4}$ sec.10, T.19 N., R.1 W., Boone County, Hydrologic Unit 05120110, (HAZELRIGG, IN. quadrangle), on right bank 50 ft upstream from bridge on County Road 450 North, 4.0 mi upstream from Deer Creek, 4.9 mi northwest of Lebanon, and 7.7 mi upstream from mouth.

DRAINAGE AREA.--33.2 mi².

PERIOD OF RECORD.--October 1987 to current year.

GAGE.--Water-stage recorder. Datum of gage is 860.00 ft above National Geodetic Vertical Datum of 1929.

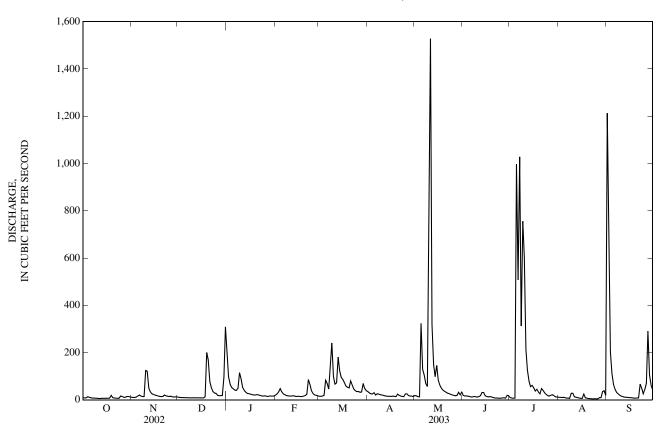
REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

					2.11	D 1 1/125/11 ()	. 12020					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2	8.9 8.3	11 10	e11 e10	201 97	e20 e25	e15 e15	35 29	18 17	18 16	9.6 7.6	11 10	1,210 598
3	8.1	10	e9.5	66	e33	e16	26	13	17	6.6	9.7	202
4 5	13 11	12 16	e9.3 e9.1	52 47	e47 e34	e19 83	25 30	13 323	16 14	7.3 997	11 9.0	109 65
6	8.8	20	e9.0	41	25	69	20	129	12	507	7.5	44
7 8	7.6 7.3	16 14	e8.7 e8.3	39 49	21 e18	46 151	26 24	106 69	12 14	1,030 312	7.5 6.1	32 25
9 10	6.8 6.6	13 124	e8.3 e8.4	115 88	e17 e16	241 99	21 21	56 1,010	13 12	756 603	28 28	20 15
11	5.8	121	8.9	52	e16	66	19	1,530	14	212	13	13
12	5.5	50	8.5	e40	e17	71	17	318	18	125	11	11
13 14	6.6 6.4	34 26	8.3 8.5	32 27	e17 e14	181 122	16 15	150 98	31 31	78 55	9.5 7.7	11 10
15	6.6	23	8.2	e26	e15	94	15	145	17	61	6.5	9.4
16 17	6.8 6.8	20 18	8.2 8.2	e24 e22	e15 e14	87 73	15 16	84 62	14 13	51 37	6.1 24	9.1 8.3
18 19	7.0 19	16 15	13 200	e21 e20	e14 e16	59 53	15 14	49 41	13 13	44 33	9.0 7.2	7.1 7.3
20	9.0	13	169	e22	e18	50	24	36	9.6	25	5.6	7.9
21 22	7.8 7.0	14 20	77 51	e21 e19	e23 86	80 62	19 16	32 28	7.9 7.6	47 40	5.0 4.5	7.9 67
23	6.5	17	35	e17	66	46	14	26	7.3	29	4.2	50
24 25	6.5 16	16 14	29 27	e16 e17	38 e26	39 35	13 25	23 21	6.8 6.5	23 17	4.8 4.1	25 43
26	15	15	19	e16	e21	35	25	19	8.5	16	4.0	70
27 28	11 10	13 12	18 18	e14 e16	e19 e17	32 33	18 16	17 19	8.3 7.1	19 22	9.1 9.0	291 105
29	14	12	18	e16		69	16	32	19	17	35	61
30 31	14 12	12	95 308	e16 e16		48 39	14 	21 33	17 	13 12	39 19	42
TOTAL	285.7	727	1,227.4	1,265	708	2,128	599	4,538	413.6	5,212.1	365.1	3,176.0
MEAN MAX	9.22 19	24.2 124	39.6 308	40.8 201	25.3 86	68.6 241	20.0 35	146 1,530	13.8 31	168 1,030	11.8 39	106 1,210
MIN CFSM	5.5 0.28	10 0.73	8.2 1.19	14 1.23	14 0.76	15 2.07	13 0.60	13 4.41	6.5 0.42	6.6 5.06	4.0 0.35	7.1 3.19
IN.	0.32	0.73	1.38	1.42	0.79	2.38	0.67	5.08	0.46	5.84	0.33	3.56
STATIST	ICS OF MO	ONTHLY M	EAN DATA	FOR WATE	ER YEARS	1988 - 2003,	BY WATE	ER YEAR (W	Y)			
MEAN	15.2 94.3	34.9	30.5	40.6	47.2	55.6	53.2	72.0	41.0	36.4	10.5	24.6
MAX (WY)	(2002)	205 (1993)	158 (1991)	129 (1993)	139 (1990)	109 (1990)	96.7 (1989)	248 (1996)	158 (1998)	168 (2003)	34.8 (1989)	
MIN (WY)	1.59 (1998)	2.37 (1998)	3.84 (1998)	4.73 (2000)	7.18 (1998)	11.2 (2000)	9.73 (2000)	6.45 (1988)	4.34 (1988)	3.08 (1991)	2.27 (1999)	1.24 (1999)
, ,	RY STATIS		, ,	FOR 2002 C.		, ,)3 WATER Y	, ,	, ,	· ·	988 - 2003
ANNUAL				20,526			20,64					
	L MEAN Γ ANNUAL ` ANNUAL			56				56.6			38.4 66.4 10.0	2002 2000
HIGHEST	ΓDAILY M	IEAN		1,560			1,53			1,9	00	Dec 30, 1990
	`DAILY M L SEVEN-D	EAN DAY MINIM	UM		.6 Aug .4 Aug			4.0 Aug 4.6 Aug				Sep 11, 1999 Sep 21, 1999
	JM PEAK I JM PEAK S						2,4	50 May 13.03 May		2,7		Mar 11, 1990 Mar 11, 1990
ANNUAL	L RUNOFF	(CFSM)			.69			1.70			1.16	11, 1770
	L RUNOFF ENT EXCE			122			9	23.13 96			15.71 76	
	ENT EXCE ENT EXCE			20	.3			18 7.6			14 2.9	
. U . LICO	, ,, _, _			,								

e Estimated

03339280 PRAIRIE CREEK NEAR LEBANON, IN—Continued



03339500 SUGAR CREEK AT CRAWFORDSVILLE, IN

LOCATION.--Lat 40°02'56", long 86°53'58", in SW 1/4NW 1/4 sec.32, T.19 N., R.4 W., Montgomery County, Hydrologic Unit 05120110, (CRAWFORDSVILLE, IN. quadrangle), on left bank 327 ft upstream from Crawfordsville Electric Light and Power Co.'s dam at Crawfordsville, 700 ft upstream from bridge on U.S. Highway 231, 1.0 mi downstream from Walnut Fork Sugar Creek, and at mile 40.4.

DRAINAGE AREA.--509 mi².

PERIOD OF RECORD.--June 1938 to current year.

(1998)

(1964)

(1977)

(1964)

(1964)

(WY)

REVISED RECORDS.--WSP 973: 1939(M). WSP 1275: Drainage area. WSP 1335: 1949.

GAGE.--Water-stage recorder. Datum of gage is 657.77 ft above National Geodetic Vertical Datum of 1929.

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

EXTREMES OUTSIDE PERIOD OF RECORD .-- Flood in March 1913 reached a stage of 17.3 ft from information by local resident, discharge, about 36,000

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES DAY OCT NOV DEC JAN **FEB** MAR APR MAY JUN JUL AUG SEP 108 116 150 2,780 e105 e195 431 182 586 179 180 3,920 93 103 139 1,560 e115 e186 391 195 390 157 169 6,690 3 84 98 133 1,050 e240 e180 338 181 338 136 161 2,900 112 e720 318 169 313 1,640 81 782 e220 127 175 5 101 123 e500 964 333 2,650 274 2,870 159 1,040 82 669 82 6 114 101 559 e320 1,190 285 2.480 240 7.370 143 706 229 495 282 1,910 76 133 115 e230 710 6,220 131 494 8 548 e180 225 3,510 73 132 119 1,420 316 1.700 121 367 220 Q 71 120 99 1.310 e145 3,410 295 1,480 6,500 114 290 10 67 491 107 1,570 e120 1,690 276 6,830 198 8,640 142 233 11 63 2,030 112 984 e100 1,070 264 11,900 222 4,490 132 197 273 12 62 1,180 109 e560 e85 962 250 8,070 2,120 108 171 3,160 230 710 13 62 733 108 e540 e80 2,390 1,470 155 525 e400 210 1.580 1,860 89 147 14 61 110 e86 3,870 1,100 15 60 418 108 e270 2,120 200 2,220 1,090 907 84 e115 137 59 e210 341 104 e90 198 1.780 700 1,040 78 16 1.680 126 60 300 e180 204 1,240 494 101 e82 1,430 73 117 17 775 392 94 18 59 260 106 e170 e75 1.150 200 976 625 110 91 19 81 233 435 e160 e85 965 184 802 330 560 104 211 901 194 75 20 107 1,430 e155 e130 667 276 458 100 21 101 206 976 e150 e250 898 232 558 237 496 68 96 22 208 611 e145 e700 1,020 213 482 216 735 63 144 23 79 207 426 e140 e1,900 761 184 428 197 527 56 418 204 180 54 75 326 e135 e580 617 168 387 418 361 25 83 195 306 e110 e340 530 199 354 163 342 52 366 26 92 180 260 e108 e290 468 274 324 156 291 50 592 2.7 103 170 195 e106 e250 242 291 159 262 48 4.320 423 28 e220 409 204 282 47 189 e104 150 285 3.260 100 158 29 195 259 1,700 99 158 187 e106 487 530 146 63 30 104 e102 349 183 395 253 226 130 163 ---614 1,160 198 31 118 2.140 e102 ---488 646 148 2,533 53,293 TOTAL 9,886 7,493 54,079 3,195 9,585 16,260 8.133 34,188 11.217 32,061 MEAN 81.7 320 319 525 290 1,103 250 1,744 374 1,719 103 1,069 2,140 MAX 118 2,030 2,780 1,900 3,870 431 11,900 1,860 8,640 180 6,690 MIN 59 97 99 102 75 180 168 169 146 127 47 96 2.17 CFSM 0.16 0.63 0.63 1.03 0.57 0.49 0.73 3.38 0.20 2.10 0.19 0.70 0.72 0.59 2.50 3.95 0.82 3.89 0.23 2.34 1.19 0.55 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2003, BY WATER YEAR (WY) MEAN 158 609 880 705 169 338 477 715 577 330 167 2,592 1,719 3.060 2.229 2,390 3.297 2,648 1,991 MAX 1,098 2,084 4,163 1,801 (1989) (1978)(1991)(1985)(1943)(2003) (1958)(1993)(1978)(1957)(WY) (1950)(1964)MIN 13.1 23.5 17.0 17.1 68.4 79 2 67.1 74 9 32.5 16.6 8.42 4.80

(1941)

(2000)

(1988)

(1988)

(1941)

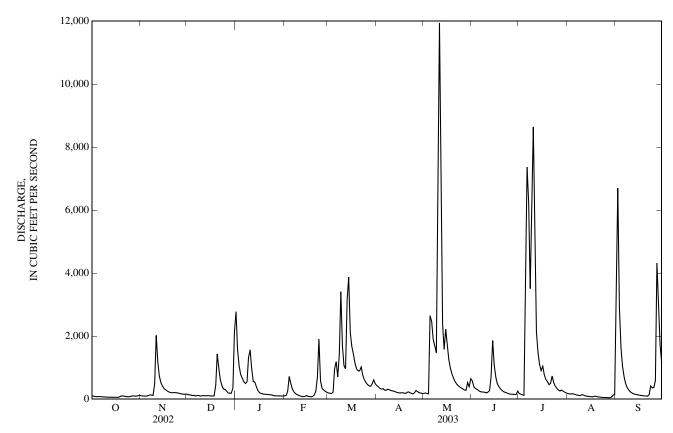
(1941)

(1941)

03339500 SUGAR CREEK AT CRAWFORDSVILLE, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	NDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEARS 1939 - 2003		
ANNUAL TOTAL	235,089		241,923				
ANNUAL MEAN	644		663		496		
HIGHEST ANNUAL MEAN					1,086	1950	
LOWEST ANNUAL MEAN					65.0	1941	
HIGHEST DAILY MEAN	16,800	May 13	11,900	May 11	20,100	Jun 29, 1957	
LOWEST DAILY MEAN	22	Aug 12	47	Aug 28	2.4	Sep 24, 1941	
ANNUAL SEVEN-DAY MINIMUM	28	Aug 8	53	Aug 22	2.7	Sep 21, 1941	
MAXIMUM PEAK FLOW		C	13,000	May 11	26,300	Jun 28, 1957	
MAXIMUM PEAK STAGE			9.90	May 11	14.48	Jun 28, 1957	
ANNUAL RUNOFF (CFSM)	1.27		1.30	•	0.97		
ANNUAL RUNOFF (INCHES)	17.18		17.68		13.24		
10 PERCENT EXCEEDS	1,490		1,600		1,160		
50 PERCENT EXCEEDS	233		220		178		
90 PERCENT EXCEEDS	64		85		28		

e Estimated



03340500 WABASH RIVER AT MONTEZUMA, IN

LOCATION.—Lat $39^{\circ}47'33''$, long $87^{\circ}22'26''$, in $SE^{1}_{4}NE^{1}_{4}$ sec.35, T.16 N., R.9 W., Parke County, Hydrologic Unit 05120108, (MONTEZUMA, IN quadrangle), on left bank 20 ft upstream from bridge on U.S. Highway 36 at Montezuma, 2.0 mi upstream from Big Raccoon Creek, 4.9 mi downstream from Sugar Creek, and at mile 240.0.

DRAINAGE AREA.--11,118 mi².

PERIOD OF RECORD.--October 1927 to current year. July 1924 to September 1927 (gage height only) in reports of State of Indiana, Department of Natural Resources.

REVISED RECORDS.--WSP 1335: 1929, 1931(M). WSP 1505: 1954. WSP 1915: 1954(m). WSP 2109: Drainage area. WDR IN-74-1: 1973.

GAGE.--Water-stage recorder. Datum of gage is 457.75 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Oct. 1, 1927, to July 12, 1950, nonrecording gage on downstream side of bridge located 50 ft upstream of present bridge and at same datum. July 12, 1950 to July 27, 1988, recording gage in downstream side of first pier from left bank at same datum.

REMARKS.--Records fair. Flow partially regulated by upstream reservoirs.

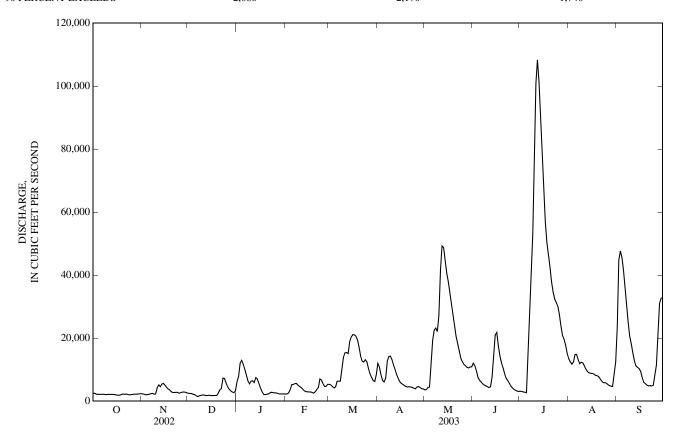
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 27, 1913, reached a stage of 34.0 ft, from floodmarks, discharge, 230,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,470	2,360	2,500	6,210	2,250	5,320	12,000	3,610	12,000	3,180	13,400	23,600
2	2,510	2,270	2,470	7,750	2,320	5,160	10,800	3,680	11,300	3,070	12,400	44,800
3	2,260	2,120	2,410	12,100	2,610	4,620	8,390	4,270	9,580	2,910	11,700	47,600
4	2,150	2,030	2,180	13,000	3,650	4,200	6,630	4,490	7,500	2,840	12,400	45,500
5	2,170	2,110	2,070	11,700	5,220	4,540	6,100	10,900	6,640	2,720	14,800	41,500
6	2,160	2,190	1,670	10,100	5,300	6,330	7,260	19,200	6,110	15,900	14,800	36,300
7	2,170	2,370	1,440	8,260	5,600	6,350	12,700	22,500	5,510	28,900	13,200	30,600
8	2,190	2,440	1,750	6,380	5,610	6,330	14,100	23,200	5,110	40,300	11,900	24,800
9	2,060	2,230	1,840	5,460	5,040	10,100	14,300	22,100	4,860	53,300	12,400	20,500
10	2,130	2,330	1,970	6,390	4,670	13,900	13,200	27,100	4,620	75,800	12,200	18,000
11	2,170	4,260	1,950	6,470	4,330	15,300	11,500	41,600	4,320	101,000	11,200	15,100
12	2,140	5,180	1,740	5,920	3,820	15,400	10,100	49,200	4,610	108,000	10,100	12,700
13	2,150	4,580	1,790	7,460	3,320	15,100	8,470	48,800	7,660	101,000	9,380	11,100
14	2,110	5,410	1,870	7,020	3,000	18,900	7,340	44,600	14,300	87,800	8,980	10,700
15	2,080	5,630	1,860	5,550	2,980	20,400	6,220	40,700	21,000	75,500	8,850	10,300
16	1,960	5,070	1,750	4,200	2,910	21,100	5,640	38,000	21,800	66,000	8,800	9,390
17	1,890	4,380	1,780	3,010	2,950	21,000	5,330	34,100	17,600	57,100	8,620	7,400
18	1,910	3,890	1,820	2,150	2,730	20,600	4,910	30,600	14,400	50,300	8,230	5,950
19	2,060	3,560	1,810	2,080	2,520	19,400	4,650	27,500	12,200	46,700	8,100	5,520
20	2,280	2,990	2,500	2,190	3,000	17,000	4,480	24,100	10,600	42,600	7,830	5,050
21	2,190	2,730	3,570	2,280	3,710	14,300	4,590	20,600	8,690	37,900	7,140	4,840
22	2,250	2,750	4,020	2,640	4,360	12,700	4,480	18,200	7,250	34,600	6,420	4,940
23	2,170	2,810	7,340	2,840	7,060	12,400	4,360	15,900	6,530	32,400	5,880	4,820
24	2,010	2,790	7,220	2,710	6,690	13,200	4,070	13,700	5,710	31,400	5,880	5,050
25	2,050	2,510	5,820	2,620	5,480	12,500	3,890	12,600	4,790	30,100	5,720	8,100
26 27 28 29 30 31	2,120 2,200 2,220 2,240 2,290 2,350	2,690 2,850 2,900 2,840 2,600	4,610 3,780 3,270 2,880 2,710 3,240	2,620 2,450 2,290 2,310 2,270 2,320	4,670 4,720 5,350 	10,400 8,730 7,570 6,550 6,230 8,410	4,460 4,640 4,370 3,960 3,900	11,700 11,200 10,700 10,500 10,900 10,900	4,250 3,720 3,460 3,190 3,100	27,600 23,800 20,900 19,700 17,800 15,200	5,280 4,920 4,770 4,630 8,480 12,400	11,400 22,100 31,000 32,700 32,800
TOTAL	67,110	94,870	87,630	160,750	115,870	364,040	216,840	667,150	252,410	1,256,320	290,810	584,160
MEAN	2,165	3,162	2,827	5,185	4,138	11,740	7,228	21,520	8,414	40,530	9,381	19,470
MAX	2,510	5,630	7,340	13,000	7,060	21,100	14,300	49,200	21,800	108,000	14,800	47,600
MIN	1,890	2,030	1,440	2,080	2,250	4,200	3,890	3,610	3,100	2,720	4,630	4,820
CFSM	0.19	0.28	0.25	0.47	0.37	1.06	0.65	1.94	0.76	3.65	0.84	1.75
IN.	0.22	0.32	0.29	0.54	0.39	1.22	0.73	2.23	0.84	4.20	0.97	1.95
STATIST	ICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1928 - 2003	BY WATE	R YEAR (W	YY)			
MEAN	4,362	6,147	9,306	12,330	14,230	17,130	17,340	14,120	10,820	7,736	4,535	3,788
MAX	23,630	36,840	40,350	66,690	40,610	49,690	37,650	58,400	42,730	40,530	18,840	19,470
(WY)	(2002)	(1993)	(1928)	(1950)	(1959)	(1982)	(1938)	(1943)	(1958)	(2003)	(1958)	(2003)
MIN	973	1,202	1,041	1,107	1,789	2,370	4,781	2,082	1,357	1,210	815	710
(WY)	(1964)	(1965)	(1964)	(1977)	(1931)	(1941)	(2000)	(1934)	(1934)	(1934)	(1941)	(1941)

03340500 WABASH RIVER AT MONTEZUMA, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	ENDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEARS 1928 - 2003		
ANNUAL TOTAL	4,341,750		4,157,960				
ANNUAL MEAN	11,900		11,390		10,130		
HIGHEST ANNUAL MEAN					20,290	1950	
LOWEST ANNUAL MEAN					2,506	1931	
HIGHEST DAILY MEAN	76,500	May 14	108,000	Jul 12	182,000	May 20, 1943	
LOWEST DAILY MEAN	1,440	Dec 7	1,440	Dec 7	571	Sep 24, 1941	
ANNUAL SEVEN-DAY MINIMUM	1,770	Dec 6	1,770	Dec 6	600	Sep 23, 1941	
MAXIMUM PEAK FLOW			109,000	Jul 12	184,000	May 20, 1943	
MAXIMUM PEAK STAGE			30.43	Jul 12	32.83	May 20, 1943	
ANNUAL RUNOFF (CFSM)	1.07		1.02		0.91		
ANNUAL RUNOFF (INCHES)	14.53		13.91		12.38		
10 PERCENT EXCEEDS	30,500		28,100		25,000		
50 PERCENT EXCEEDS	5,820		5,630		5,680		
90 PERCENT EXCEEDS	2,080		2,170		1,740		



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03340800 BIG RACCOON CREEK NEAR FINCASTLE, IN

 $LOCATION.-Lat\ 39^{\circ}48'45",\ long\ 86^{\circ}57'14",\ in\ NW^{1}_{4}SW^{1}_{4}\ sec.22,\ T.16\ N.,\ R.5\ W.,\ Putnam\ County,\ Hydrologic\ Unit\ 05120108,\ (RUSSELLVILLE,\ IN\ quadrangle),\ on\ left\ bank\ at\ downstream\ side\ of\ county\ road\ bridge,\ 1.6\ mi\ upstream\ from\ Ramp\ Creek,\ 3.1\ mi\ west\ of\ Fincastle,\ and\ at\ mile\ 48.8.$

DRAINAGE AREA.--139 mi².

PERIOD OF RECORD.--August 1957 to current year. Prior to October 1963, published as Raccoon Creek near Fincastle.

REVISED RECORDS.--WSP 1909: 1958. WSP 2109: Drainage area. WDR IN-79-1: 1978.

GAGE.--Water-stage recorder. Datum of gage is 686.03 ft above National Geodetic Vertical Datum of 1929.

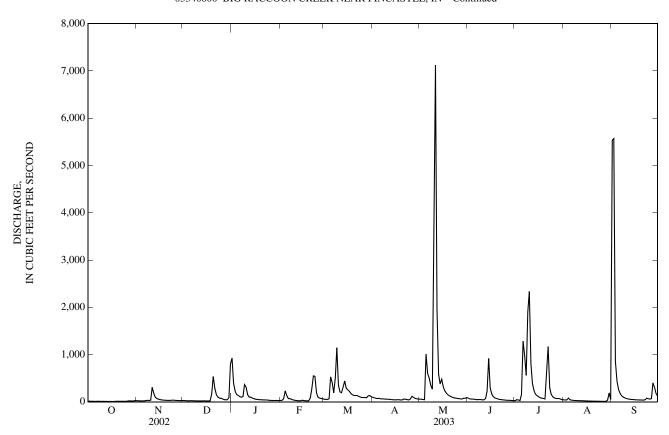
REMARKS.--Records fair except for estimated daily discharges, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 28, 1957, reached a stage of 19.10 ft discharge, 39,900 ft³/s, from slope-area measurement.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES												
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
16 13 12 11 11	25 21 20 21 20	29 26 24 21 23	928 394 227 155 133	e29 e32 e66 231 e135	e54 e52 e50 e62 528	95 85 74 70 74	56 56 50 45 1,010	80 62 60 58 53	25 45 39 27 155	42 39 40 79 44	5,540 5,570 855 435 266	
10 12 11 11 10	20 26 32 28 33	23 22 22 e21 19	109 96 112 364 309	e68 e68 e52 e41 e33	404 191 506 1,140 350	63 62 63 57 55	601 508 350 268 2,270	48 45 48 48 43	1,280 970 559 1,900 2,340	36 32 29 27 25	179 127 99 83 71	
9.3 8.9 9.3 8.5 7.9	307 179 97 69 55	19 19 20 20 20	e150 e98 e100 e76 e66	e28 e24 e22 e24 e33	211 193 311 442 287	54 52 47 43 42	7,120 1,950 584 377 477	42 68 225 919 293	811 386 238 158 131	24 23 24 21 19	61 55 51 49 46	
8.0 8.0 8.5 11	48 41 37 34 33	19 19 20 172 535	e58 e50 e47 e44 e44	e26 e23 e21 e24 e80	256 222 176 147 135	42 45 44 40 43	322 231 184 148 126	163 108 82 70 60	106 84 77 71 60	19 18 16 14 14	44 41 40 38 37	
11 12 12 11 12	31 31 33 35 33	286 153 101 78 74	e41 e40 e39 e38 e30	274 549 540 189 e94	131 134 113 100 91	60 55 45 40 62	109 92 85 78 73	51 47 42 39 35	545 1,170 298 157 104	13 13 12 11	37 44 76 65 56	
14 21 20 19 19 27	31 29 27 27 27	59 45 43 44 87 799	e30 e29 e29 e29 e28 e29	e80 e70 e62 	92 90 86 125 133 107	117 94 73 65 59	68 63 58 76 74 88	32 32 31 27 25	82 70 71 69 56 48	11 10 10 35 189 51	66 401 307 171 116	
385.4 12.4 27 7.9 0.09 0.10	1,450 48.3 307 20 0.35 0.39	2,862 92.3 799 19 0.66 0.77	3,922 127 928 28 0.91 1.05	2,918 104 549 21 0.75 0.78	6,919 223 1,140 50 1.61 1.85	1,820 60.7 117 40 0.44 0.49	17,597 568 7,120 45 4.08 4.71	2,936 97.9 919 25 0.70 0.79	12,132 391 2,340 25 2.82 3.25	951 30.7 189 10 0.22 0.25	15,026 501 5,570 37 3.60 4.02	
S OF MO	NTHLY MI	EAN DATA	FOR WATI	ER YEARS	1958 - 2003	BY WATE	R YEAR (W	Y)				
55.5 406 (2002) 2.14 (1998)	124 844 (1993) 2.33 (2000)	179 913 (1991) 3.91 (1998)	164 616 (1974) 4.41 (2000)	202 694 (1985) 14.8 (1998)	254 683 (1978) 28.6 (1981)	218 730 (1964) 40.7 (2000)	198 811 (1996) 19.5 (1976)	129 614 (1998) 11.1 (1988)	96.6 430 (1979) 4.83 (1991)	47.0 268 (1979) 2.75 (1991)	50.2 545 (1989) 1.62 (1999)	
STATIS	ΓICS	I	FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	/EAR	WATER '	YEARS 19	58 - 2003	
NNUAL I AILY MI AILY ME EVEN-DA PEAK FI PEAK S' UNOFF (UNOFF (UNOFF (T EXCEE T EXCEE	MEAN EAN EAN AY MINIM LOW TAGE CFSM) INCHES) EDS	UM	5,680 5,680 1 19 470 55	May 5.6 Sep 5.2 Sep .44	13	7,12 11,30	20 May 7.9 Oc 8.4 Oc 00 Sep 1.36 18.44 56	t 15 t 12 o 1	2 12,2 16,0	92 38.5 00 D 1.0 C 1.1 C 00 D 16.35 S 1.03 13.96 99 52	1974 1966 ec 30, 1990 lot 11, 1988 ec 6, 1988 ec 30, 1990 ep 1, 2003	
	16 13 12 11 11 10 12 11 11 10 9.3 8.9 9.3 8.5 7.9 8.0 8.0 8.0 8.5 11 11 11 12 12 11 12 11 12 12 11 12 14 21 20 19 19 27 85.4 12.4 27 7.9 0.09 0.10 S OF MO 55.5 06 2002) 2.14 1998) STATIS' OTAL INNUAL INNU	16	16	OCT NOV DEC JAN 16 25 29 928 13 21 26 394 12 20 24 227 11 21 155 11 20 23 133 10 20 23 109 12 26 22 96 11 32 22 112 11 32 22 112 11 28 e21 364 10 33 19 309 9.3 307 19 e150 8.9 179 19 e98 9.3 97 20 e100 8.5 69 20 e76 7.9 55 20 e66 8.0 48 19 e58 8.0 41 19 e50 8.0 48 19 e58 8.0 41 19 e50 8.5 37 20 e47 11 34 172 e44 11 33 535 e44 11 31 286 e41 12 31 153 e40 12 33 101 e39 11 35 78 e38 12 33 74 e30 14 31 59 e30 15 27 44 e29 20 27 43 e29 20 27 43 e29 20 27 43 e29 20 27 44 e29 20 27 47 e28 27 799 e29 85.4 1,450 2,862 3,922 12.4 48.3 92.3 127 27 307 799 928 7.9 20 19 28 80.09 0.35 0.66 0.91 55.5 124 179 164 66 844 913 616 2002) (1993) (1991) (1974) 2.14 2.33 3.91 4.41 1998) (2000) (1998) (2000) STATISTICS FOR 2002 C OTAL Total Rean Noual Mean Seven-Day Minimum Peak Second Texceeds 555	OCT NOV DEC JAN FEB 16 25 29 928 e29 13 21 26 394 e32 12 20 24 227 e66 11 21 21 155 231 11 20 23 133 e135 10 20 23 109 e68 12 26 22 96 e68 11 32 22 112 e52 11 28 e21 364 e41 10 33 19 309 e33 9.3 307 19 e150 e28 8.9 179 19 e98 e24 9.3 97 20 e100 e22 8.5 69 20 e76 e24 7.9 55 20 e66 e33 8.0 48 19 e58 e26 8.0 41 19 e50 e23 8.0 48 19 e58 e26 8.0 41 19 e50 e23 8.5 37 20 e47 e21 11 33 1286 e41 274 11 33 535 e44 e80 11 31 286 e41 274 11 33 1286 e41 274 12 33 101 e39 540 11 31 286 e41 274 12 33 101 e39 540 11 35 78 e38 189 12 33 74 e30 e94 14 31 59 e30 e80 21 29 45 e29 e70 20 27 43 e29 e62 19 27 44 e29 19 27 87 e28 27 799 e29 85.4 1,450 2,862 3,922 2,918 27 44 e80 27 -9 20 19 28 21 29 27 47 e28 27 799 e29 85.4 1,450 2,862 3,922 2,918 85.4 1,450 2,862 3,922 2,918 85.4 1,450 2,862 3,922 2,918 85.5 124 179 164 202 200 27 43 e29 e62 20 27 43 e29 e62 219 27 44 e29 219 27 47 e28 27 799 e29 85.4 1,450 2,862 3,922 2,918 85.5 5.5 124 179 164 202 200 1993) (1991) (1974) (1985) 214 2,33 3,91 4,41 14.8 1998) (2000) (1998) (2000) (1998) STATISTICS FOR 2002 CALENDAR OTAL	OCT NOV DEC JAN FEB MAR 16 25 29 928 e29 e54 13 21 26 394 e32 e52 12 20 24 227 e66 e50 11 21 21 155 231 e62 11 20 23 133 e135 528 10 20 23 109 668 404 12 26 22 96 e68 191 11 32 22 112 e52 506 11 21 28 e21 364 e41 1,140 10 33 19 309 e33 350 9.3 307 19 e150 e28 211 8.9 179 19 e98 e24 193 9.3 97 20 e100 e22 311 8.5 69 20 e76 e24 442 7.9 55 20 e66 e33 287 8.0 48 19 e58 e26 256 11 34 172 e44 e24 147 11 33 535 e44 e80 135 11 31 286 e41 274 131 12 31 153 e40 549 134 12 33 101 e39 540 113 11 35 78 e38 189 100 12 33 74 e30 e94 91 14 31 59 e30 e80 92 20 27 43 e29 e62 86 19 27 44 e29 125 19 27 87 e28 133 27 799 e29 107 85.4 1,450 2,862 3,922 2,918 6,919 12.4 48.3 92.3 127 104 223 27 307 799 928 549 1,140 27 44 e29 125 19 27 87 e28 133 27 799 e29 107 85.4 1,450 2,862 3,922 2,918 6,919 12.4 48.3 92.3 127 104 223 277 307 799 928 549 1,140 28.5 OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2003 15 SOF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2003 16 EACH AND	OCT NOV DEC JAN FEB MAR APR 16 25 29 928 e29 e54 95 13 21 26 394 e32 e52 85 12 20 24 227 e66 e50 74 11 21 21 155 231 e62 70 111 20 23 133 e135 528 74 10 20 23 109 e68 404 63 12 26 22 96 e68 191 62 11 32 22 112 e52 506 63 11 28 e21 364 e41 1,140 57 10 33 19 309 e33 350 55 9.3 307 19 e150 e28 211 54 8.9 179 19 e98 e24 193 52 9.3 97 20 e100 e22 311 47 8.5 69 20 e76 e24 442 43 8.0 48 19 e58 e26 256 42 8.1 34 172 e44 e24 147 40 11 33 1286 e44 e80 135 43 11 31 286 e44 e80 135 43 11 31 286 e44 e80 135 43 11 31 286 e44 e74 131 60 11 33 153 e44 e80 135 43 11 31 286 e41 e74 e11 176 e44 11 31 286 e44 e80 135 43 11 31 59 e30 e94 91 62 14 31 55 e44 e80 135 43 11 31 59 e30 e80 92 117 21 29 45 e29 e70 90 90 94 21 20 27 44 e29 e62 86 73 27 e9 20 19 28 21 50 40 0.09 0.35 0.66 0.91 0.75 1.61 0.44 0.10 0.39 0.77 1.05 0.78 1.85 0.49 0.09 0.35 0.66 0.91 0.75 1.61 0.44 0.10 0.39 0.77 1.05 0.78 1.85 0.49 0.009 0.35 0.66 0.91 0.75 1.61 0.44 0.10 0.39 0.77 1.05 0.78 1.85 0.49 0.009 0.35 0.66 0.91 0.75 1.61 0.44 0.10 0.39 0.77 1.05 0.78 1.85 0.49 0.009 0.35 0.66 0.91 0.75 1.61 0.44 0.10 0.39 0.77 1.05 0.78 1.85 0.49 0.009 0.35 0.66 0.91 0.75 1.61 0.44 0.10 0.39 0.77 1.05 0.78 1.85 0.49 0.009 0.35 0.66 0.91 0.75 1.61 0.44 0.71 0.98 0.79 0.99 0.99 0.99 0.99 0.99 0.99 0.99	WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003	NOV DEC JAN FEB MAR APR MAY JUN	OCT NOV DEC JAN FEB MAR APR MAY JUN JUL 16 25 29 928 e29 e54 95 56 80 25 13 21 26 394 e32 e52 85 56 62 45 12 20 24 227 e66 e50 74 50 60 39 11 21 21 21 155 231 e62 70 45 58 27 11 20 23 133 e135 528 74 1,010 53 158 17 11 20 23 133 e135 528 74 1,010 53 158 17 11 20 23 133 e135 528 74 1,010 53 158 17 11 20 22 196 e68 e90 74 50 60 39 11 21 21 21 155 231 e62 70 45 58 27 11 22 26 27 06 e68 191 62 508 45 501 11 22 22 166 e68 191 62 508 45 509 11 22 22 162 e52 506 63 350 48 559 11 22 22 162 e52 506 63 350 48 559 11 22 22 172 e52 506 63 350 48 559 11 28 22 22 112 e52 506 63 350 48 559 11 28 22 22 112 e52 506 63 350 48 559 11 28 20 20 21 20 60 23 3 350 55 2270 43 2,340 19 28 39 179 19 e158 e24 193 52 1950 68 386 89 179 19 e78 624 193 52 1950 68 386 88 8.5 69 20 e76 e24 442 43 377 919 158 8.5 20 e66 e33 287 42 477 293 131 8.0 44 19 e50 e23 222 45 231 108 84 8.8 8.5 37 20 e66 e33 287 42 477 293 131 8.0 44 19 e50 e23 222 45 231 108 84 8.8 8.5 37 20 e67 e21 176 44 184 82 77 111 33 1286 e44 e80 135 43 126 60 60 60 11 31 34 172 e44 e24 147 40 148 70 71 11 33 1286 e44 e80 135 43 126 60 60 60 11 13 1 286 e44 e54 147 40 148 87 0 71 11 33 1286 e44 549 134 65 92 47 1,170 88 42 11 11 34 172 e44 e24 147 40 148 87 0 71 11 33 1286 e44 549 133 455 92 47 1,170 88 84 81 11 34 172 e44 e24 147 40 148 87 0 71 11 33 1286 e44 549 134 65 92 47 1,170 88 84 81 11 33 1286 e44 549 134 65 92 47 1,170 88 84 81 11 35 8 64 0 549 134 55 92 47 1,170 88 84 81 11 35 8 64 0 549 134 55 92 47 1,170 88 84 81 11 35 8 64 0 549 134 55 92 47 1,170 8 18 11 35 8 64 0 549 134 55 92 47 1,170 8 18 11 35 8 64 0 549 134 55 92 47 1,170 8 18 11 35 8 64 0 549 134 55 92 47 1,170 8 18 11 35 8 64 0 549 134 55 92 47 1,170 8 18 11 35 8 64 0 549 134 65 92 47 1,170 8 18 11 35 8 64 0 549 134 65 92 47 1,070 90 90 94 94 94 62 73 33 510 94 11 35 8 8 90 90 90 90 90 90 90 90 90 90 90 90 90	OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG 16	

e Estimated

03340800 BIG RACCOON CREEK NEAR FINCASTLE, IN—Continued



03340900 BIG RACCOON CREEK AT FERNDALE, IN

LOCATION.--Lat 39°42'40", long 87°04'15", in SE \(^1_4\)SE \(^1_4\) sec.28, T.15 N., R.6 W., Parke County, Hydrologic Unit 05120108, (MANSFIELD, IN quadrangle), on right bank at upstream side of bridge on New Discovery Road, 0.5 mi downstream from Cecil M. Harden Lake, 3.7 mi upstream from Rocky Fork Creek, and at mile 33.3.

DRAINAGE AREA.--222 mi².

PERIOD OF RECORD.--October 1956 to September 1976 (discharge). October 1976 to September 2001 (discharge provided by U.S. Army Corps of Enginners). October 2001 to current year (stage only). Prior to October 1963, published as Raccoon Creek at Ferndale.

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

GAGE.--Water-stage recorder. Datum of gage is 590.00 ft above National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark). Prior to Oct. 1, 1974, water-stage recorder at site 1.7 mi downstream and at datum 7.64 ft lower.

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

COOPERATION.--Records of daily discharge provided by U.S. Army Corps of Engineers October 1976 to September 2001.

EXTREMES FOR PERIOD OF RECORD.--(October 2001 to current year) maximum gage height, 9.92 ft, May 16, 2002, minimum gage height 5.05 ft, Aug. 21, 2002. (October 1956 to September 1976) maximum discharge, 40,500 ft³/s, June 28, 1957, maximum gage height, 19.87 ft, June 28, 1957, from rating curve extended above 5,000 ft³/s on basis of records for station at Big Raccoon Creek at Mansfield; minimum gage height, 2.7 ft³/s Oct. 11, 1956; no flow, Aug. 23, 24, 1977, July 26, 1986, Mar. 11, 12, 18, 19, 1987, due to regulation.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 9.48 ft, Sept. 11; minimum gage height, 5.30 Dec. 17 and 18.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY OBSERVATION AT 2400 HOURS

OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5.55	7.77	5.74	7.78	5.93	6.20	5.96	5.39	8.88	5.60	8.83	5.91
											5.78
											5.78
											5.77
5.56	7.74	5.40	8.26	7.29	6.24	5.39	5.44	8.38	6.05	9.43	6.41
5.55	7.73	5.52	8.24	7.28	6.25	5.39	5.42	8.37	6.55	9.40	6.40
											6.40
											6.39
											8.67
5.55	7.72	5.52			6.33	5.38	5.60	6.07	6.73	9.29	9.09
5.55	7.71	5.52			6.31	5.38	5.61	6.07	6.73	9.27	9.43
5.52	7.70	5.76	7.44		6.32	5.39	5.58	6.08	6.71	6.09	9.40
5.50	7.69	5.76	6.20		6.34	5.39	6.57	6.12	6.70	6.07	9.38
5.50	7.69	5.76	6.43	5.72	6.37	5.39	6.56	7.64	6.70	6.07	9.36
5.50	7.69	5.77	6.43	5.75	6.37	5.39	6.56	8.27	6.77	5.54	9.34
5.50	7.68	5.77	6.43	6.60	6.38	5.39	6.56	8.27	6.72	5.54	9.31
5.50	7.67	5.30	6.44	6.60	6.38	5.39	6.56	7.63	6.71	5.53	9.29
5.51	7.66		6.44	6.60	6.39	5.39	6.56	6.07	6.71	5.53	9.27
8.04	7.65	5.95	5.92	6.60	6.39	5.39	6.56	6.07	6.71	5.53	9.24
8.02	7.65	5.96	5.93	6.16	6.40	5.39	6.56	6.07	6.71	5.53	9.22
7.84	7.96	7.40	5.93	6.15	6.41	5.39	8.01	6.07	6.73	5.53	9.20
7.84	7.95	7.86	5.92	6.22	6.41	5.39	9.00	6.07	6.73	5.53	8.37
7.83	7.93	7.85	5.92	7.46	6.41	5.38		6.07	6.73	5.53	6.54
7.82	7.92	6.93	5.92	7.46	6.41	5.38		6.07	6.72	5.54	6.54
7.83	7.90	6.93	5.92	6.90	6.42	5.43		6.07	6.72	5.55	6.25
7.81	7.89	6.93	5.92	6.20	6.42	5.40		5.61	6.71	5.55	6.34
7.81	7.87	6.92	5.92	6.20	6.41	5.39		5.60	6.71	5.54	6.25
7.80	7.85	5.61	5.92	6.20	6.41	5.39		5.60	8.42	5.54	6.25
7.80	6.28	5.77	5.93		6.42	5.39		5.60	8.85	5.54	7.23
7.78	5.90	5.77	5.93		6.41	5.39		5.60	8.85	5.56	7.23
7.77		5.86	5.93		6.40		8.89		8.84	6.40	
6.50	7.65	5.99			6.34	5.43		6.76	6.81	6.90	7.67
											9.43
					6.20			5.60			5.77
2.50	2.70	2.50			2.20	2.20		2.00		2.00	
	5.55 5.55 5.55 5.56 5.56 5.55 5.55 5.55	5.55 7.77 5.55 7.76 5.56 7.74 5.56 7.74 5.56 7.74 5.55 7.73 5.55 7.72 5.55 7.72 5.55 7.72 5.55 7.72 5.55 7.71 5.50 7.69 5.50 7.69 5.50 7.69 5.50 7.68 5.50 7.67 5.51 7.66 8.04 7.65 7.84 7.95 7.83 7.93 7.82 7.92 7.83 7.90 7.81 7.89 7.81 7.85 7.80 6.28 7.78 5.90 7.77 6.50 7.65 8.04 7.96	5.55 7.77 5.74 5.55 7.77 5.37 5.55 7.76 5.38 5.56 7.74 5.39 5.56 7.74 5.40 5.55 7.73 5.52 5.55 7.73 5.52 5.55 7.72 5.52 5.55 7.72 5.52 5.55 7.72 5.52 5.55 7.72 5.52 5.55 7.72 5.52 5.55 7.72 5.52 5.55 7.72 5.52 5.50 7.69 5.76 5.50 7.69 5.76 5.50 7.69 5.76 5.50 7.69 5.77 5.50 7.68 5.77 5.50 7.65 5.95 8.04 7.65 5.95 8.04 7.65 5.95 8.04 7.65 5.96 7.84 7.95 7.86	5.55 7.77 5.74 7.78 5.55 7.76 5.37 7.78 5.55 7.76 5.38 8.30 5.56 7.74 5.39 8.28 5.56 7.74 5.40 8.26 5.55 7.73 5.52 8.24 5.55 7.73 5.52 6.93 5.55 7.72 5.52 6.93 5.55 7.72 5.52 6.94 5.55 7.72 5.52 5.55 7.72 5.52 5.55 7.72 5.52 5.55 7.72 5.52 5.55 7.72 5.52 5.50 7.69 5.76 7.44 5.50 7.69 5.76 6.43 5.50 7.69 5.77 6.43 5.50 7.69 5.77 6.43 5.51 7.66 5.35 6.44	5.55 7.77 5.74 7.78 5.93 5.55 7.76 5.38 8.30 5.93 5.56 7.74 5.39 8.28 6.18 5.56 7.74 5.40 8.26 7.29 5.55 7.73 5.52 8.24 7.28 5.55 7.73 5.52 6.20 5.55 7.72 5.52 6.93 5.55 7.72 5.52 6.94 5.55 7.72 5.52 6.94 5.55 7.72 5.52 5.55 7.72 5.52 5.55 7.71 5.52 5.55 7.71 5.52 5.55 7.70 5.76 7.44 5.50 7.69 5.76 6.43 5.72 5.50 7.68 5.77 6.43 5.75	5.55 7.77 5.74 7.78 5.93 6.20 5.55 7.76 5.38 8.30 5.93 6.20 5.56 7.74 5.39 8.28 6.18 6.22 5.56 7.74 5.40 8.26 7.29 6.24 5.55 7.73 5.52 8.24 7.28 6.25 5.55 7.73 5.52 6.20 6.25 5.55 7.72 5.52 6.93 6.29 5.55 7.72 5.52 6.94 6.31 5.55 7.72 5.52 6.94 6.31 5.55 7.71 5.52 6.31 5.55 7.71 5.52 6.31 5.55 7.70 5.76 7.44 6.32 5.50 7.69 5.76 6.43 5.72 6.37 5.50 7.68 5.77 6.43 5.75 6	5.55 7.77 5.74 7.78 5.93 6.20 5.96 5.55 7.76 5.38 8.30 5.93 6.20 5.96 5.55 7.76 5.38 8.30 5.93 6.20 5.39 5.56 7.74 5.40 8.26 7.29 6.24 5.39 5.55 7.73 5.52 8.24 7.28 6.25 5.39 5.55 7.73 5.52 6.20 6.25 5.39 5.55 7.72 5.52 6.93 6.29 5.39 5.55 7.72 5.52 6.94 6.31 5.39 5.55 7.72 5.52 6.94 6.31 5.39 5.55 7.72 5.52 6.31 5.38 5.55 7.71 5.52 6.31 5.38 5.55 7.71 5.52 6.31 <t< td=""><td>5.55 7.77 5.74 7.78 5.93 6.20 5.96 5.39 5.55 7.77 5.37 7.78 5.93 6.20 5.96 5.39 5.55 7.76 5.38 8.30 5.93 6.20 5.39 5.38 5.56 7.74 5.40 8.26 7.29 6.24 5.39 5.40 5.56 7.74 5.40 8.26 7.29 6.24 5.39 5.40 5.55 7.73 5.52 6.20 6.25 5.39 5.42 5.55 7.72 5.52 6.93 6.25 5.39 5.42 5.55 7.72 5.52 6.94 6.31 5.39 5.42 5.55 7.72 5.52 6.94 6.31 5.38 5.60 5.55 7.71 5.52 6.31 5.38 5.61 5.50 7.69 5.76 7.44</td><td>5.55 7.77 5.74 7.78 5.93 6.20 5.96 5.39 8.39 5.55 7.76 5.38 8.30 5.93 6.20 5.96 5.39 8.39 5.55 7.76 5.38 8.30 5.93 6.20 5.39 5.38 8.39 5.56 7.74 5.40 8.26 7.29 6.24 5.39 5.44 8.38 5.56 7.74 5.40 8.26 7.29 6.24 5.39 5.42 8.37 5.55 7.73 5.52 6.20 6.25 5.39 5.42 6.57 5.55 7.73 5.52 6.20 6.25 5.39 5.42 6.57 5.55 7.72 5.52 6.94 6.25 5.39 5.42 6.57 5.55 7.72 5.52 6.31 5.39 5.42 6.07 5.55 7.71 5.52 </td><td>5.55 7.77 5.74 7.78 5.93 6.20 5.96 5.39 8.88 5.60 5.55 7.77 5.37 7.78 5.93 6.20 5.96 5.39 8.39 5.60 5.55 7.76 5.38 8.30 5.93 6.20 5.39 5.38 8.39 5.44 5.56 7.74 5.40 8.26 7.29 6.24 5.39 5.40 8.39 5.44 5.56 7.74 5.40 8.26 7.29 6.24 5.39 5.44 8.38 6.05 5.55 7.73 5.52 8.24 7.28 6.25 5.39 5.42 8.37 6.55 5.55 7.73 5.52 6.93 6.29 5.39 5.42 6.57 6.55 5.55 7.72 5.52 6.94 6.31 5.39 5.42 6.57 6.55 5.55 7.71 5.52 6.31<</td><td>5.55 7.77 5.74 7.78 5.93 6.20 5.96 5.39 8.88 5.60 8.83 5.55 7.77 5.37 7.78 5.93 6.20 5.96 5.39 8.39 5.60 8.83 5.55 7.76 5.38 8.30 5.93 6.20 5.39 5.38 8.39 5.44 8.81 5.56 7.74 5.39 8.28 6.18 6.22 5.39 5.40 8.39 5.44 8.81 5.56 7.74 5.40 8.26 7.29 6.24 5.39 5.40 8.38 6.05 9.43 5.55 7.73 5.52 6.20 6.25 5.39 5.42 6.57 6.55 9.37 5.55 7.72 5.52 6.93 6.25 5.39 5.42 6.07 6.55 9.35 5.55 7.72 5.52 6.31 5.36 5.42 6.07 6.</td></t<>	5.55 7.77 5.74 7.78 5.93 6.20 5.96 5.39 5.55 7.77 5.37 7.78 5.93 6.20 5.96 5.39 5.55 7.76 5.38 8.30 5.93 6.20 5.39 5.38 5.56 7.74 5.40 8.26 7.29 6.24 5.39 5.40 5.56 7.74 5.40 8.26 7.29 6.24 5.39 5.40 5.55 7.73 5.52 6.20 6.25 5.39 5.42 5.55 7.72 5.52 6.93 6.25 5.39 5.42 5.55 7.72 5.52 6.94 6.31 5.39 5.42 5.55 7.72 5.52 6.94 6.31 5.38 5.60 5.55 7.71 5.52 6.31 5.38 5.61 5.50 7.69 5.76 7.44	5.55 7.77 5.74 7.78 5.93 6.20 5.96 5.39 8.39 5.55 7.76 5.38 8.30 5.93 6.20 5.96 5.39 8.39 5.55 7.76 5.38 8.30 5.93 6.20 5.39 5.38 8.39 5.56 7.74 5.40 8.26 7.29 6.24 5.39 5.44 8.38 5.56 7.74 5.40 8.26 7.29 6.24 5.39 5.42 8.37 5.55 7.73 5.52 6.20 6.25 5.39 5.42 6.57 5.55 7.73 5.52 6.20 6.25 5.39 5.42 6.57 5.55 7.72 5.52 6.94 6.25 5.39 5.42 6.57 5.55 7.72 5.52 6.31 5.39 5.42 6.07 5.55 7.71 5.52	5.55 7.77 5.74 7.78 5.93 6.20 5.96 5.39 8.88 5.60 5.55 7.77 5.37 7.78 5.93 6.20 5.96 5.39 8.39 5.60 5.55 7.76 5.38 8.30 5.93 6.20 5.39 5.38 8.39 5.44 5.56 7.74 5.40 8.26 7.29 6.24 5.39 5.40 8.39 5.44 5.56 7.74 5.40 8.26 7.29 6.24 5.39 5.44 8.38 6.05 5.55 7.73 5.52 8.24 7.28 6.25 5.39 5.42 8.37 6.55 5.55 7.73 5.52 6.93 6.29 5.39 5.42 6.57 6.55 5.55 7.72 5.52 6.94 6.31 5.39 5.42 6.57 6.55 5.55 7.71 5.52 6.31<	5.55 7.77 5.74 7.78 5.93 6.20 5.96 5.39 8.88 5.60 8.83 5.55 7.77 5.37 7.78 5.93 6.20 5.96 5.39 8.39 5.60 8.83 5.55 7.76 5.38 8.30 5.93 6.20 5.39 5.38 8.39 5.44 8.81 5.56 7.74 5.39 8.28 6.18 6.22 5.39 5.40 8.39 5.44 8.81 5.56 7.74 5.40 8.26 7.29 6.24 5.39 5.40 8.38 6.05 9.43 5.55 7.73 5.52 6.20 6.25 5.39 5.42 6.57 6.55 9.37 5.55 7.72 5.52 6.93 6.25 5.39 5.42 6.07 6.55 9.35 5.55 7.72 5.52 6.31 5.36 5.42 6.07 6.

CAL YR 2002 MEAN 6.75 MAX 9.91 MIN 5.19

N

03340900 BIG RACCOON CREEK AT FERNDALE, IN-Continued

WATER-QUALITY RECORDS

INSTRUMENTATION.--Temperature recorder.

PERIOD OF RECORD .--

WATER TEMPERATURE.--September 1987 to April 1993. September 1994 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 26.3°C, Aug. 22, 1998; minimum, -0.3°C, Jan. 30-31, 1996.

EXTREMES FOR CURRENT YEAR.-- WATER TEMPERATURE: Maximum, 25.1°C, Aug. 8-18, 19, minimum, 1.5°C, Feb. 16.

TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		ОСТОВЕН	2	N	OVEMBE	ER	D	ECEMBE	R	J	JANUARY	
1 2 3 4 5	22.8 22.6 22.7 21.7 22.6	20.7 21.0 20.9 20.1 19.7	21.5 21.5 21.5 21.1 20.7	13.8 13.4 13.0 12.6 12.2	13.4 13.0 12.6 12.2 11.9	13.6 13.2 12.8 12.5 12.1	6.5 7.4 5.8 4.5 5.2	5.0 5.0 3.8 3.5 3.4	5.6 6.0 4.7 3.9 4.1	3.6 3.5 3.5 3.9 3.8	3.4 3.1 3.1 3.4 3.4	3.5 3.3 3.2 3.7 3.6
6 7 8 9 10	21.6 21.7 21.0 21.1 20.4	19.5 18.8 18.6 18.9 18.8	20.3 19.8 19.5 19.7 19.5	11.9 11.4 11.2 11.3 11.6	11.4 11.1 11.0 11.0 11.3	11.7 11.3 11.1 11.2 11.4	4.8 5.0 4.7 4.3 3.4	3.0 2.9 2.6 2.2 2.4	3.7 3.6 3.5 3.0 2.9	3.4 3.8 3.5 3.6	3.1 3.1 3.1 3.1	3.3 3.4 3.3 3.3
11 12 13 14 15	21.2 20.2 20.0 19.9 19.7	18.8 19.0 17.5 17.1 17.0	19.8 19.7 18.6 18.0 18.0	11.5 11.2 11.1 10.8 10.7	11.2 11.0 10.8 10.7 10.4	11.4 11.2 10.9 10.8 10.6	4.5 3.8 3.2 4.0 4.6	2.7 2.9 2.9 2.9 2.8	3.3 3.3 3.1 3.2 3.4	3.0 2.2 2.4	2.2 1.9 1.8	2.3 2.1 2.0
16 17 18 19 20	19.3 18.0 18.6 18.1 17.8	16.9 16.8 16.3 16.9 17.4	17.7 17.1 17.1 17.6 17.6	10.4 10.0 9.7 9.6 9.4	10.0 9.6 9.5 9.2 9.1	10.2 9.8 9.5 9.4 9.2	4.1 6.0 5.0	2.8 4.5 4.1	3.2 5.5 4.4	2.5 3.0 2.9	1.7 1.8 2.0	2.0 2.2 2.3
21 22 23 24 25	17.4 17.1 16.9 16.5 16.2	16.9 16.8 16.5 16.2 15.9	17.2 16.9 16.8 16.4 16.0	9.1 8.8 8.5 8.6 8.3	8.8 8.5 8.3 8.2 7.9	9.0 8.7 8.4 8.4 8.2	4.4 4.4 4.2 4.3 3.5	3.9 4.1 4.0 3.4 3.2	4.2 4.3 4.1 3.8 3.3	3.4 2.7 2.8 2.7 3.4	1.9 1.8 1.6 1.6 1.9	2.3 2.1 2.0 2.1 2.4
26 27 28 29 30 31	15.9 15.6 15.4 15.1 14.4 14.2	15.6 15.3 15.1 14.4 14.1 13.8	15.8 15.5 15.2 14.7 14.2 14.0	7.9 7.4 7.2 7.5 7.3	7.4 7.2 6.8 6.7 5.8	7.6 7.3 7.0 7.0 6.5	3.3 4.5 4.9 4.3 4.2	3.0 2.8 2.6 3.4 3.5	3.1 3.5 3.4 4.0 3.9	3.1 2.5 2.9 2.9 3.8 3.0	1.8 1.6 2.1 2.1 1.9 2.3	2.3 2.0 2.5 2.5 2.5 2.5 2.6
MONTH	22.8	13.8	18.0	13.8	5.8	10.1						

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03340900 BIG RACCOON CREEK AT FERNDALE, IN-Continued TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN FEBRUARY	MEAN	MAX	MIN MARCH	MEAN	MAX	MIN APRIL	MEAN	MAX	MIN MAY	MEAN
1 2 3 4 5	3.1 4.0 3.5 3.0 2.9	2.5 2.4 2.7 2.3 2.2	2.7 2.9 3.1 2.5 2.6	2.7 2.5 3.4 3.3 2.7	2.3 2.0 1.9 2.2 2.2	2.4 2.3 2.4 2.6 2.5	9.8 10.3 12.1 11.7 10.6	7.5 8.4 8.9 10.1 9.2	8.6 9.1 10.1 10.7 9.9	14.3 13.4 16.7 13.2 17.0	12.6 12.1 11.2 11.4 12.2	13.2 12.8 13.3 12.2 14.0
6 7 8 9 10	3.0 3.3 3.8 3.8 3.2	2.7 2.3 2.3 2.6 2.3	2.8 2.8 2.8 2.9 2.8	3.6 3.6 3.8 3.8 3.6	2.1 2.2 2.3 2.2 2.0	2.6 2.7 2.9 2.8 2.7	10.2 10.9 10.1 11.7 13.4	8.9 9.0 8.9 8.5 8.3	9.4 9.8 9.6 9.5 10.4	16.2 15.2 14.8 16.1 15.7	12.2 12.9 12.4 13.3 13.4	13.9 13.6 13.3 14.2 13.9
11 12 13 14 15	3.8 3.7 4.9 3.3 2.8	2.1 2.2 2.2 2.3 1.9	2.8 2.6 3.0 2.7 2.4	3.8 3.6 3.2 4.1 4.4	2.2 2.6 2.8 2.7 2.9	2.9 2.9 3.0 3.2 3.4	14.0 14.2 14.4 14.6 14.9	8.7 9.0 8.7 9.3 10.1	10.9 11.1 11.2 11.4 11.7	17.1 15.7 16.3 13.9 13.9	12.7 12.6 12.4 13.3 13.1	13.8 13.7 13.8 13.6 13.5
16 17 18 19 20	2.7 3.0 2.9 3.1 4.7	1.5 2.6 2.6 2.6 2.6	2.2 2.7 2.7 2.8 3.2	4.7 4.6 5.2 5.8 6.2	3.0 3.1 3.8 4.8 4.9	3.5 3.8 4.4 5.2 5.3	13.8 13.3 13.6 14.0 13.8	10.5 11.2 10.4 10.8 11.3	11.7 12.1 11.7 12.1 12.3	14.3 13.9 14.1 14.1 13.9	13.4 13.4 13.5 13.6	13.7 13.7 13.8 13.8 13.8
21 22 23 24 25	3.4 3.1 3.1 2.8 2.6	2.6 2.6 2.6 2.2 2.0	3.0 2.9 2.8 2.6 2.2	7.1 7.1 7.7 7.7 7.7	4.9 5.9 6.0 5.9 5.9	5.9 6.4 6.6 6.6 6.9	11.8 14.3 16.0 13.1 12.4	10.6 10.5 9.9 10.6 10.9	11.2 11.9 12.3 11.8 11.7	14.4 15.3 	13.6 14.3 	14.1 14.8
26 27 28 29 30 31	3.1 2.9 3.7 	2.0 1.9 2.1 	2.3 2.3 2.5 	8.3 7.9 7.9 8.3 8.9 9.1	6.4 6.6 6.3 7.8 8.0 7.9	7.0 7.0 7.0 8.0 8.4 8.3	16.9 16.5 15.5 16.5 16.3	11.8 10.9 11.7 11.9 12.1	13.6 13.2 13.0 13.6 13.7	 17.5	 16.5	 17.1
MONTH	4.9	1.5	2.7	9.1	1.9	4.6	16.9	7.5	11.3			
1,101,111												
	17.1	JUNE			JULY			AUGUST			EPTEMBE	
1 2 3 4 5	17.1 17.1 17.0 17.1 17.2	JUNE 16.9 16.4 16.6 16.8 16.7	17.0 16.8 16.8 16.9 16.9	19.8 19.7 20.2 21.0 20.3	JULY 17.0 17.0 17.1 17.2 17.3	18.0 18.0 18.2 18.4 18.4	21.3 21.4 21.7 21.8 22.3	AUGUST 20.9 21.1 21.3 21.3 21.7		21.5 21.4 21.4 22.0 21.8	20.0 20.7 20.4 19.8 19.4	21.3 21.0 20.9 20.7 20.6
1 2 3 4	17.1 17.0 17.1	16.9 16.4 16.6 16.8	17.0 16.8 16.8 16.9	19.8 19.7 20.2 21.0	17.0 17.0 17.1	18.0 18.0 18.2 18.4	21.3 21.4 21.7 21.8	20.9 21.1 21.3 21.3	21.1 21.3 21.5 21.7	21.5 21.4 21.4 22.0	20.0 20.7 20.4 19.8	21.3 21.0 20.9 20.7
1 2 3 4 5 6 7 8 9	17.1 17.0 17.1 17.2 17.2 17.4 17.3 18.0	16.9 16.4 16.6 16.8 16.7 17.1 16.7 16.8 16.7	17.0 16.8 16.8 16.9 16.9 17.2 17.1 17.0 17.2	19.8 19.7 20.2 21.0 20.3 18.6 18.2 18.3 18.2	17.0 17.0 17.1 17.2 17.3 17.2	18.0 18.0 18.2 18.4 18.4 17.7 17.7 17.7	21.3 21.4 21.7 21.8 22.3 22.5 22.7 23.1 23.5	20.9 21.1 21.3 21.3 21.7 22.2 22.2 22.6	21.1 21.3 21.5 21.7 22.1 22.4 22.5 22.9 23.2	21.5 21.4 21.4 22.0 21.8 21.7 21.6 21.4 21.2	20.0 20.7 20.4 19.8 19.4 20.7 20.6 20.6 20.5	21.3 21.0 20.9 20.7 20.6 21.1 21.0 20.8 20.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14	17.1 17.0 17.1 17.2 17.2 17.4 17.3 18.0 18.0 17.7 18.1 17.3	16.9 16.4 16.6 16.8 16.7 17.1 16.7 16.8 16.7 16.8 16.9 16.9	17.0 16.8 16.8 16.9 16.9 17.2 17.1 17.0 17.2 17.1 17.3 17.2 17.3 17.1	19.8 19.7 20.2 21.0 20.3 18.6 18.2 18.3 18.2 18.1 18.3 18.4	17.0 17.0 17.1 17.2 17.3 17.2 17.4 17.3 17.5 17.5 17.6 17.6 17.8	18.0 18.0 18.2 18.4 18.4 17.7 17.7 17.8 17.7 17.9 17.9 18.1 18.1	21.3 21.4 21.7 21.8 22.3 22.5 22.7 23.1 23.5 23.6 23.9 23.9 23.5 23.7	20.9 21.1 21.3 21.3 21.7 22.2 22.2 22.6 23.0 23.3 23.4 22.1 22.2 22.5	21.1 21.3 21.5 21.7 22.1 22.4 22.5 22.9 23.2 23.4 23.7 23.1 22.7 22.9	21.5 21.4 21.4 22.0 21.8 21.7 21.6 21.4 21.2 21.2 21.3 21.4 21.5 21.5	20.0 20.7 20.4 19.8 19.4 20.7 20.6 20.6 20.5 21.0 21.1 21.2 21.3 21.3	21.3 21.0 20.9 20.7 20.6 21.1 21.0 20.8 20.9 21.2 21.2 21.2 21.3 21.4 21.4
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	17.1 17.0 17.1 17.2 17.2 17.4 17.3 18.0 18.0 17.7 18.1 17.3 17.9 17.9 18.0 18.3	16.9 16.4 16.6 16.8 16.7 17.1 16.7 16.8 16.7 16.8 16.9 16.9 16.8 17.2 17.7 17.4 17.3 17.1	17.0 16.8 16.8 16.9 16.9 17.2 17.1 17.0 17.2 17.1 17.3 17.2 17.3 17.1 17.5 17.7 17.7	19.8 19.7 20.2 21.0 20.3 18.6 18.2 18.3 18.2 18.1 18.3 18.4 18.4 18.6 18.4	17.0 17.0 17.1 17.2 17.3 17.2 17.4 17.5 17.5 17.2 17.6 17.8 17.8 17.8 17.8 17.8 17.8 18.0 17.9 18.2	18.0 18.0 18.2 18.4 18.4 17.7 17.7 17.8 17.7 17.9 17.9 18.1 18.1 18.1 18.3 18.3 18.4	21.3 21.4 21.7 21.8 22.3 22.5 22.7 23.1 23.5 23.6 23.9 23.9 23.5 23.7 24.2 24.0 24.8 25.1 25.1	20.9 21.1 21.3 21.3 21.7 22.2 22.2 22.6 23.0 23.3 23.4 22.1 22.2 22.5 21.9 21.5 21.5 21.0 20.7	21.1 21.3 21.5 21.7 22.1 22.4 22.5 22.9 23.2 23.4 23.7 22.7 22.9 22.9 22.9 22.4 22.6 22.4 22.4 22.3	21.5 21.4 21.4 22.0 21.8 21.7 21.6 21.4 21.2 21.2 21.3 21.4 21.5 21.5 21.6 21.8 21.9 22.2	20.0 20.7 20.4 19.8 19.4 20.7 20.6 20.6 20.5 21.0 21.1 21.2 21.3 21.3 21.4 21.5 21.7 21.7	21.3 21.0 20.9 20.7 20.6 21.1 21.0 20.8 20.9 21.2 21.2 21.3 21.4 21.4 21.5 21.6 21.7 21.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	17.1 17.0 17.1 17.2 17.2 17.4 17.3 18.0 18.0 17.7 18.1 17.3 17.9 17.9 18.0 18.3 18.3 18.3 18.7	16.9 16.4 16.6 16.8 16.7 17.1 16.7 16.8 16.7 16.7 16.8 16.9 16.8 17.2 17.7 17.4 17.3 17.1 16.9 16.9	17.0 16.8 16.8 16.9 16.9 17.2 17.1 17.0 17.2 17.1 17.3 17.2 17.3 17.1 17.5 17.7 17.6 17.6 17.6 17.6 17.7	19.8 19.7 20.2 21.0 20.3 18.6 18.2 18.3 18.2 18.1 18.3 18.4 18.6 18.4 18.9 18.8 19.0 19.1 19.0 19.3	17.0 17.0 17.1 17.2 17.3 17.2 17.4 17.3 17.5 17.2 17.6 17.8 17.8 17.8 17.8 17.8 18.0 17.9 18.2 18.1 18.2 18.5 18.5	18.0 18.0 18.2 18.4 18.4 17.7 17.7 17.8 17.7 17.9 17.9 18.1 18.1 18.1 18.3 18.4 18.6 18.6 18.6 18.7	21.3 21.4 21.7 21.8 22.3 22.5 22.7 23.1 23.5 23.6 23.9 23.9 23.5 23.7 24.2 24.0 24.8 25.1 24.8 24.9 25.0 24.5 24.7	20.9 21.1 21.3 21.3 21.7 22.2 22.6 23.0 23.3 23.4 22.1 22.2 22.5 21.9 21.5 21.0 20.7 21.0 21.1 21.7 21.2 20.8	21.1 21.3 21.5 21.7 22.1 22.4 22.5 22.9 23.2 23.4 23.7 22.9 22.9 22.9 22.4 22.6 22.4 22.3 22.4 22.6 22.4 22.3 22.4	21.5 21.4 21.4 22.0 21.8 21.7 21.6 21.4 21.2 21.2 21.3 21.4 21.5 21.5 21.6 21.8 21.9 21.9 22.2 22.1 22.0 22.0 21.9 21.9	20.0 20.7 20.4 19.8 19.4 20.7 20.6 20.6 20.5 21.0 21.1 21.2 21.3 21.3 21.3 21.7 21.7 21.7 21.9 21.9 21.9 21.2	21.3 21.0 20.9 20.7 20.6 21.1 21.0 20.8 20.9 21.2 21.2 21.3 21.4 21.4 21.5 21.6 22.0 22.0 22.0 21.9 21.6 21.1

03341300 BIG RACCOON CREEK AT COXVILLE, IN

LOCATION.--Lat 39°39'09", long 87°17'37", in $SW^1/_4SW^1/_4$ sec.15, T.14 N., R.8 W., Parke County, Hydrologic Unit 05120108, (MECCA, IN quadrangle), 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 September 1992 (gage height only). October 1992 to current year (discharge). Prior to October 1963, published as Raccoon Creek at Coxville.

REVISED RECORDS.--WSP 2109: Drainage area. WDR IN-74-1: 1973.

GAGE.--Water-stage recorder. Datum of gage is 494.00 ft above National Geodetic Vertical Datum of 1929 (Indiana Flood Control and Water Resources Commission bench mark).

REMARKS .-- Records good except for estimated daily discharges, which are poor. Flow regulated by Cecil M. Harden Lake.

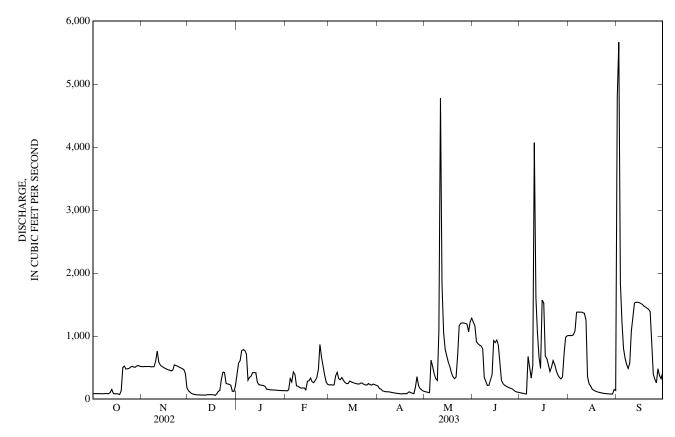
DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	517	133	392	e134	226	210	120	1,220	103	1,010	4,800
2	88	516	110	572	132	230	169	115	1,160	97	1,010	5,660
3	87	518	90	613	148	224	159	108	911	93	1,010	1,840
4	89	516	79	771	328	225	132	103	880	85	1,020	1,210
5	88	519	74	785	274	368	124	620	857	84	1,080	803
6	87	519	69	773	433	425	118	516	843	677	1,380	646
7	86	514	68	719	389	325	118	404	797	507	1,380	551
8	88	516	69	301	212	308	117	327	348	333	1,380	488
9	90	515	66	345	204	343	111	298	282	535	1,380	571
10	89	604	65	364	188	299	106	1,070	218	4,070	1,370	1,080
11	86	763	65	422	175	265	102	4,780	220	1,610	1,360	1,330
12	106	586	63	422	178	247	97	1,830	309	1,050	1,260	1,530
13	154	541	70	420	176	248	94	1,060	388	663	356	1,540
14	89	519	72	268	148	286	90	795	929	488	243	1,540
15	85	505	71	e230	284	275	87	686	898	1,570	208	1,530
16	86	489	71	e224	291	263	84	591	940	1,520	159	1,520
17	83	478	70	e220	334	255	87	517	859	684	141	1,500
18	74	465	60	e216	277	247	88	418	580	643	127	1,480
19	132	459	84	e200	262	242	84	357	301	541	117	1,460
20	501	448	123	e160	300	239	96	325	246	436	110	1,440
21	525	462	139	e154	342	255	117	350	220	508	105	1,420
22	478	543	314	e150	473	256	104	704	206	614	99	1,390
23	481	532	429	e147	868	236	94	1,170	191	550	94	890
24	487	524	424	e146	666	225	87	1,200	180	454	91	399
25	509	509	252	e145	517	225	190	1,210	170	387	88	320
26 27 28 29 30 31	521 508 507 527 534 521	497 483 470 410 176	240 236 222 127 122 213	e142 e140 e138 e137 e136 e135	381 268 234 	248 231 223 239 230 219	356 216 169 146 129	1,210 1,200 1,190 1,070 1,230 1,280	161 140 120 113 107	347 320 351 717 981 1,010	86 84 81 82 152 138	259 481 376 325 425
TOTAL	7,875	15,113	4,290	9,987	8,616	8,127	3,881	26,854	14,794	22,028	17,201	38,804
MEAN	254	504	138	322	308	262	129	866	493	711	555	1,293
MAX	534	763	429	785	868	425	356	4,780	1,220	4,070	1,380	5,660
MIN	74	176	60	135	132	219	84	103	107	84	81	259
CFSM	0.57	1.12	0.31	0.72	0.69	0.59	0.29	1.93	1.10	1.59	1.24	2.89
IN.	0.65	1.25	0.36	0.83	0.72	0.67	0.32	2.23	1.23	1.83	1.43	3.22
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1957 - 2003,	BY WATE	R YEAR (W	YY)			
MEAN	336	576	619	550	627	644	642	631	541	356	234	235
MAX	994	1,684	2,070	1,572	1,648	1,493	1,648	2,596	3,613	1,001	1,062	1,542
(WY)	(1990)	(1994)	(1968)	(1974)	(1969)	(1985)	(1957)	(2002)	(1957)	(1981)	(1958)	(1989)
MIN	17.5	44.3	48.2	25.9	72.8	100	115	86.2	64.2	59.4	34.4	34.6
(WY)	(1957)	(1957)	(1964)	(1977)	(1998)	(2000)	(2000)	(2000)	(1988)	(1988)	(1966)	(1966)

03341300 BIG RACCOON CREEK AT COXVILLE, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	ENDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEARS 1957 - 2003		
ANNUAL TOTAL	259,217		177,570				
ANNUAL MEAN	710		486		497		
HIGHEST ANNUAL MEAN					914	1974	
LOWEST ANNUAL MEAN					160	1966	
HIGHEST DAILY MEAN	6,890	May 13	5,660	Sep 2	51,400	Jun 28, 1957	
LOWEST DAILY MEAN	54	Aug 18	60	Dec 18	6.5	Oct 10, 1956	
ANNUAL SEVEN-DAY MINIMUM	58	Aug 12	66	Dec 6	8.8	Oct 7, 1956	
MAXIMUM PEAK FLOW		•	7,380	Sep 2	108,000	Jun 28, 1957	
MAXIMUM PEAK STAGE			14.65	Sep 2	21.23	Jun 28, 1957	
ANNUAL RUNOFF (CFSM)	1.59		1.09	•	1.11		
ANNUAL RUNOFF (INCHES)	21.52		14.74		15.06		
10 PERCENT EXCEEDS	1,620		1,190		1,180		
50 PERCENT EXCEEDS	478		301		263		
90 PERCENT EXCEEDS	75		88		67		

e Estimated



03341500 WABASH RIVER AT TERRE HAUTE, IN

LOCATION.--Lat 39°28'33", long $87^{\circ}25'07$ ", in $NE^{1}_{4}NW^{1}_{4}$ sec.21, T.12 N., R.9 W., Vigo County, Hydrologic Unit 05120111, (TERRE HAUTE, IN quadrangle), on left bank at Indiana America Water Company, Inc., lst and Elm Streets in Terre Haute, 3.0 mi upstream from Sugar Creek, and 3.6 mi downstream from Lost Creek and at mile 215.

DRAINAGE AREA.--12,263 mi².

PERIOD OF RECORD.—August 1902 to December 1903 (gage height only), February 1905 to July 1906, October 1927 to current year. Gage-height records collected at site 100 ft downstream June 1891 to June 1897 and since December 1904 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 205: 1905. WSP 1335: 1944. WDR IN-73-1: Drainage area. WDR IN-84-1: 1983. WDR IN-86 1: 1913 (Gage height).

GAGE.--Water-stage recorder. Datum of gage is 445.78 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 17, 1984, water-stage recorder at Wabash Avenue bridge 3,400 ft downstream at datum 2.88 ft lower. See WSP 1725 for history of changes prior to Oct. 27, 1928.

REMARKS .-- Records fair. Flow partially regulated by upstream reservoirs.

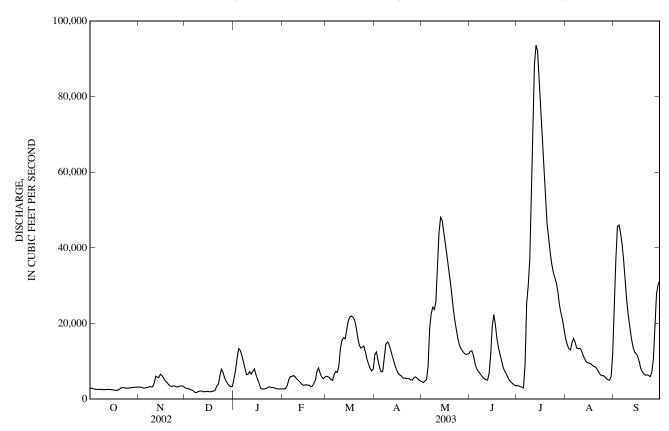
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 27, 1913, reached a stage of about 31.2 ft, present site and datum, discharge, 245,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,840	3,210	2,950	5,570	2,710	6,040	11,800	4,670	12,600	3,560	15,900	21,700
2	2,920	3,210	2,820	7,610	2,690	5,970	12,500	4,390	12,800	3,510	14,300	36,500
3	2,780	3,080	2,760	11,000	2,870	5,630	10,400	4,830	11,500	3,270	13,300	45,600
4	2,620	2,950	2,580	13,400	3,590	5,190	8,430	5,210	9,520	3,190	13,000	46,100
5	2,550	2,930	2,440	12,900	5,090	4,950	7,250	8,460	8,120	2,970	14,900	44,100
6	2,600	3,040	2,160	11,600	5,940	6,540	7,300	18,600	7,470	9,170	16,100	40,900
7	2,550	3,100	1,800	9,870	6,030	7,330	11,100	22,500	6,880	25,400	15,100	36,700
8	2,610	3,350	1,740	8,090	6,250	7,090	14,500	24,300	6,320	29,900	13,500	31,200
9	2,530	3,230	2,000	6,440	5,930	8,740	15,100	23,700	5,780	37,100	13,300	26,000
10	2,470	3,290	2,100	6,600	5,370	13,500	14,600	25,800	5,410	55,600	13,500	21,900
11	2,570	4,270	2,180	7,270	4,990	15,500	13,200	35,100	5,140	74,900	12,900	18,900
12	2,590	6,060	2,050	6,630	4,650	16,300	11,600	44,000	5,040	88,500	11,700	15,900
13	2,570	5,770	1,930	7,350	4,080	16,000	10,200	48,100	6,760	93,600	10,800	13,800
14	2,570	5,780	2,030	8,000	3,710	18,200	8,770	47,300	11,700	92,100	9,930	12,500
15	2,570	6,550	2,090	6,500	3,650	20,700	7,720	44,300	19,100	82,400	9,600	12,000
16	2,450	6,240	2,000	5,330	3,840	21,700	6,820	41,200	22,300	74,100	9,520	11,300
17	2,330	5,590	1,940	4,260	3,680	22,000	6,410	38,200	19,800	64,300	9,360	9,850
18	2,330	4,900	2,070	2,920	3,690	21,700	6,090	34,700	16,000	57,000	8,960	7,970
19	2,430	4,510	2,150	2,640	3,290	21,000	5,600	31,400	13,700	51,500	8,660	7,190
20	2,680	3,980	2,390	2,700	3,400	19,100	5,570	28,300	11,900	46,600	8,530	6,660
21	3,030	3,510	3,500	2,720	4,120	16,500	5,450	24,400	10,100	42,800	7,970	6,340
22	3,030	3,350	3,890	2,860	5,050	14,400	5,490	21,000	8,430	39,000	7,200	6,430
23	3,020	3,460	6,260	3,230	7,270	13,500	5,360	18,700	7,390	35,800	6,540	6,250
24	2,910	3,480	7,930	3,200	8,240	13,800	5,100	16,100	6,690	33,600	6,200	5,950
25	2,890	3,300	7,060	3,090	6,930	14,000	5,070	14,400	5,790	32,200	6,230	7,150
26 27 28 29 30 31	2,970 3,030 3,050 3,140 3,140 3,210	3,200 3,420 3,480 3,510 3,270	5,670 4,730 4,060 3,550 3,240 3,370	3,080 2,950 2,780 2,730 2,680 2,720	5,900 5,390 5,800 	12,400 10,600 9,230 8,160 7,490 8,000	5,710 5,880 5,580 5,170 4,810	13,400 12,700 12,200 11,800 11,900 12,000	5,000 4,510 4,090 3,790 3,540	30,800 28,200 24,800 22,600 20,900 18,200	5,850 5,400 5,100 5,010 5,990 12,000	10,600 17,800 27,800 30,300 31,400
TOTAL	84,920	119,020	97,440	178,720	134,150	391,260	248,580	703,660	277,170	1,227,570	316,350	616,790
MEAN	2,739	3,967	3,143	5,765	4,791	12,620	8,286	22,700	9,239	39,600	10,200	20,560
MAX	3,210	6,550	7,930	13,400	8,240	22,000	15,100	48,100	22,300	93,600	16,100	46,100
MIN	2,330	2,930	1,740	2,640	2,690	4,950	4,810	4,390	3,540	2,970	5,010	5,950
CFSM	0.22	0.32	0.26	0.47	0.39	1.03	0.68	1.85	0.75	3.23	0.83	1.68
IN.	0.26	0.36	0.30	0.54	0.41	1.19	0.75	2.13	0.84	3.72	0.96	1.87
STATIST	ICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1928 - 2003	, BY WATE	R YEAR (W	YY)			
MEAN	4,843	6,743	10,190	13,550	15,600	18,630	19,000	15,800	12,050	8,561	5,106	4,226
MAX	24,900	40,220	44,490	77,540	47,990	51,250	41,940	64,810	44,130	39,600	21,330	21,440
(WY)	(2002)	(1993)	(1928)	(1950)	(1950)	(1982)	(1938)	(1943)	(1958)	(2003)	(1958)	(1989)
MIN	1,103	1,405	1,145	1,216	1,998	2,645	5,250	2,405	1,492	1,292	1,002	966
(WY)	(1957)	(1954)	(1964)	(1977)	(1963)	(1941)	(1931)	(1934)	(1934)	(1936)	(1941)	(1941)

03341500 WABASH RIVER AT TERRE HAUTE, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	NDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEARS 1928 - 2003		
ANNUAL TOTAL	4,881,810		4,395,630				
ANNUAL MEAN	13,370		12,040		11,170		
HIGHEST ANNUAL MEAN					22,800	1950	
LOWEST ANNUAL MEAN					2,864	1931	
HIGHEST DAILY MEAN	77,500	May 15	93,600	Jul 13	186,000	May 20, 1943	
LOWEST DAILY MEAN	1,740	Dec 8	1,740	Dec 8	701	Aug 3, 1934	
ANNUAL SEVEN-DAY MINIMUM	1,970	Dec 7	1,970	Dec 7	732	Sep 24, 1941	
MAXIMUM PEAK FLOW			96,200	Jul 13	189,000	May 20, 1943	
MAXIMUM PEAK STAGE			25.03	Jul 13	30.50	May 20, 1943	
ANNUAL RUNOFF (CFSM)	1.09		0.98		0.91	•	
ANNUAL RUNOFF (INCHES)	14.81		13.33		12.37		
10 PERCENT EXCEEDS	32,600		30,100		27,600		
50 PERCENT EXCEEDS	6,900		6,500		6,450		
90 PERCENT EXCEEDS	2,480		2,690		2,000		



03342000 WABASH RIVER AT RIVERTON, IN

LOCATION.--Lat 39°01'13", long 87°34'07", in NE \(^1_4\)SW \(^1_4\) sec.30, T.7 N., R.10 W., Sullivan County, Hydrologic Unit 05120111, (MEROM, IN-IL quadrangle), on left bank at downstream side of Illinois Central Railroad bridge at Riverton, 0.5 mi downstream from Turtle Creek, 2 mi south of Merom, and at mile 162.0.

DRAINAGE AREA.--13,161 mi².

PERIOD OF RECORD.--October 1938 to current year. Prior to April 1939 monthly discharge only, published in WSP 1305. June 1911 to December 1914 (gage heights only) available in the U.S. Army Corps of Engineers office, Louisville, Ky.

REVISED RECORDS.--WSP 1335: 1939, 1950. WDR IN-73-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 414.65 ft above National Geodetic Vertical Datum of 1929. Prior to July 17, 1951, nonrecording gage at same site and datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow partially regulated by upstream reservoirs.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 28, 1913, reached a stage of 26.4 ft, from graph based on once-daily readings by Illinois Central Railroad Co., discharge, 250,000 ft³/s.

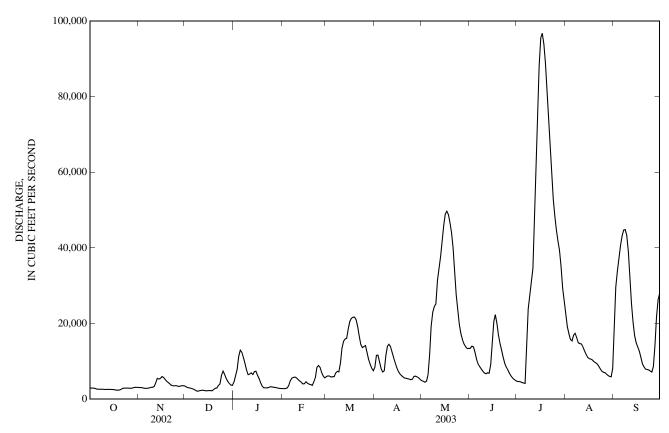
DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,000	3,100	3,380	4,600	2,800	5,940	8,390	4,880	13,400	4,690	e22,200	17,900
2	2,900	3,070	3,120	6,240	2,790	6,140	11,600	4,730	14,000	4,680	e19,200	29,700
3	2,930	3,050	3,000	7,890	2,810	6,120	11,700	4,470	13,800	4,610	e17,300	33,900
4	2,870	2,960	2,940	11,300	2,980	5,850	9,800	4,760	12,400	4,390	e15,800	37,300
5	2,710	2,870	2,810	13,000	3,620	5,960	8,120	6,480	10,500	4,280	e15,400	40,600
6	2,640	2,860	2,660	12,400	4,910	5,930	7,160	11,800	9,280	4,140	e16,900	43,200
7	2,640	2,920	2,450	11,000	5,580	6,940	7,500	19,300	8,600	13,500	e17,400	44,700
8	2,630	2,980	2,190	9,430	5,740	7,360	11,400	23,000	8,000	23,800	e16,300	44,800
9	2,640	3,130	2,090	7,760	5,860	7,210	13,900	24,500	7,400	27,000	e14,900	43,300
10	2,590	3,160	2,230	6,460	5,600	9,510	14,500	25,200	6,920	30,500	e14,700	39,000
11	2,550	3,340	2,320	6,610	5,160	13,400	13,900	31,400	6,710	34,600	e14,600	31,700
12	2,600	4,340	2,380	6,960	4,790	15,300	e12,500	34,400	6,990	42,900	e13,800	25,300
13	2,600	5,500	2,300	6,520	4,470	15,900	e11,000	37,700	6,840	54,800	e12,800	20,300
14	2,580	5,290	2,210	7,250	4,040	16,100	e9,660	41,800	9,060	71,800	11,800	16,800
15	2,570	5,490	2,240	7,400	4,070	18,600	e8,380	45,900	14,600	88,200	11,100	14,900
16	2,520	5,980	2,290	6,370	4,610	20,500	e7,360	48,900	20,500	95,500	10,700	13,800
17	2,470	5,720	2,260	5,470	4,210	21,400	6,670	49,700	22,300	96,700	10,600	12,700
18	2,390	5,210	2,220	4,400	3,970	21,700	6,240	48,800	20,100	93,900	10,400	11,100
19	2,390	4,710	2,520	3,450	3,870	21,700	5,880	e46,700	17,000	89,000	9,920	9,380
20	2,430	4,400	2,870	3,030	3,650	21,000	5,570	e44,000	14,700	e80,900	9,630	8,530
21	2,630	4,010	2,950	3,000	4,510	19,200	5,530	e40,000	12,900	e72,700	9,370	7,950
22	2,900	3,650	3,600	2,990	5,720	16,700	5,380	e33,900	11,100	e65,500	8,780	7,830
23	2,920	3,520	4,030	3,040	8,400	14,500	5,300	e27,600	9,480	e58,800	8,040	7,760
24	2,930	3,560	6,260	3,280	8,900	13,600	5,150	e23,400	8,470	e53,000	7,410	7,430
25	2,920	3,580	7,430	3,270	8,400	13,900	5,300	e19,800	7,720	e48,400	7,110	7,160
26 27 28 29 30 31	2,890 2,900 2,920 3,060 3,160 3,130	3,440 3,360 3,510 3,570 3,550	6,580 5,490 4,690 4,130 3,720 3,660	3,170 3,130 3,040 2,910 2,860 2,810	7,080 6,110 5,650 	14,200 12,400 10,500 9,230 8,200 7,500	6,010 6,080 5,910 5,660 5,190	e17,300 e15,700 e14,600 e13,900 13,400 13,400	6,870 6,140 5,610 5,210 4,920	e44,800 e41,800 e39,400 e35,000 e29,500 e25,800	7,030 6,660 6,260 6,020 5,900 8,090	8,690 14,100 21,700 26,300 28,000
TOTAL	85,010	115,830	103,020	181,040	140,300	392,490	246,740	791,420	321,520	1,384,590	366,120	675,830
MEAN	2,742	3,861	3,323	5,840	5,011	12,660	8,225	25,530	10,720	44,660	11,810	22,530
MAX	3,160	5,980	7,430	13,000	8,900	21,700	14,500	49,700	22,300	96,700	22,200	44,800
MIN	2,390	2,860	2,090	2,810	2,790	5,850	5,150	4,470	4,920	4,140	5,900	7,160
CFSM	0.21	0.29	0.25	0.44	0.38	0.96	0.62	1.94	0.81	3.39	0.90	1.71
IN.	0.24	0.33	0.29	0.51	0.40	1.11	0.70	2.24	0.91	3.91	1.03	1.91
STATIST	ICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1940 - 2003	, BY WATE	R YEAR (W	YY)			
MEAN	5,195	7,347	10,800	13,570	17,120	20,700	20,960	17,800	13,980	9,749	5,919	4,827
MAX	26,610	39,340	39,250	80,210	54,530	60,520	41,840	68,010	45,640	44,660	23,680	25,370
(WY)	(2002)	(1993)	(1986)	(1950)	(1950)	(1982)	(1957)	(1943)	(1958)	(2003)	(1958)	(1989)
MIN	1,382	1,437	1,213	1,318	2,058	2,763	5,623	3,435	2,601	1,968	1,215	1,261
(WY)	(1957)	(1954)	(1964)	(1977)	(1963)	(1941)	(2000)	(1941)	(1977)	(1988)	(1941)	(1940)

03342000 WABASH RIVER AT RIVERTON, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	NDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEAR:	S 1940 - 2003
ANNUAL TOTAL	5,573,710		4,803,910			
ANNUAL MEAN	15,270		13,160		12,300	
HIGHEST ANNUAL MEAN					24,340	1950
LOWEST ANNUAL MEAN					3,206	1941
HIGHEST DAILY MEAN	85,600	May 17	96,700	Jul 17	200,000	May 21, 1943
LOWEST DAILY MEAN	2,090	Dec 9	2,090	Dec 9	858	Sep 27, 1941
ANNUAL SEVEN-DAY MINIMUM	2,250	Dec 8	2,250	Dec 8	870	Sep 25, 1941
MAXIMUM PEAK FLOW			97,100	Jul 17	201,000	May 21, 1943
MAXIMUM PEAK STAGE			23.61	Jul 17	29.36	May 21, 1943
ANNUAL RUNOFF (CFSM)	1.16		1.00		0.93	•
ANNUAL RUNOFF (INCHES)	15.75		13.58		12.70	
10 PERCENT EXCEEDS	36,900		34,100		30,000	
50 PERCENT EXCEEDS	7,130		7,030		7,220	
90 PERCENT EXCEEDS	2,640		2,840		2,270	

e Estimated



03342100 BUSSERON CREEK NEAR HYMERA, IN

LOCATION.--Lat 39°12'54", long 87°18'41", in $NW^{1}_{/4}NW^{1}_{/4}$ sec. 21, T.9 N., R.8 W., Sullivan County, Hydrologic Unit 05120111, (HYMERA, IN. quadrangle), 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 October 2003 (discontinued).

REVISED RECORDS.--WDR IN-72-1: 1971. WDR IN-87-1: 1982-86.

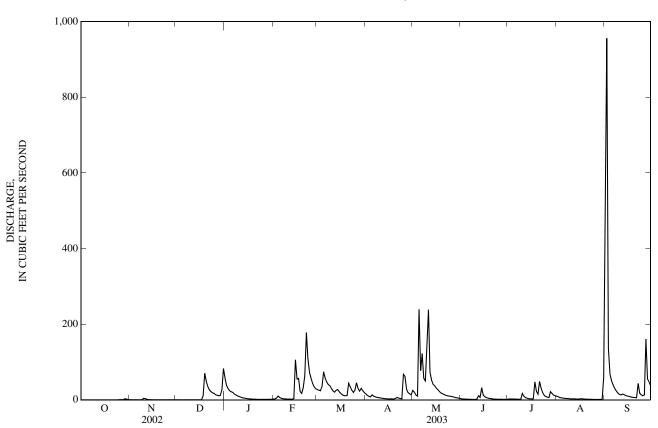
GAGE.--Water-stage recorder. Datum of gage is 480.00 ft above National Geodetic Vertical Datum of 1929 (U.S. Soil Conservation Service bench mark).

REMARKS .-- Records poor. Flow affected by U.S. Soil Conservation Service floodwater-retarding structures.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	e0.00 e0.00 e0.00 e0.00 e0.00	e0.38 e0.18 e0.16 e0.16 e0.16	e0.10 e0.10 e0.10 e0.10 e0.09	57 38 30 24 21	1.9 2.4 4.6 e10 e6.0	27 26 24 35 74	15 12 9.2 7.7 13	e25 e20 e13 e10 e239	e2.7 e2.1 e2.1 e1.9 e1.7	1.9 2.3 2.2 2.2 2.1	9.6 8.1 6.0 5.3 4.5	596 956 136 68 51	
6 7 8 9 10	e0.00 e0.00 e0.00 e0.00 e0.00	e0.16 e0.18 e0.16 e0.14 e4.0	e0.10 e0.10 e0.11 e0.10 e0.12	19 15 13 10 8.7	e4.0 e3.0 e2.5 e2.2 e2.0	57 47 40 38 30	9.2 7.9 6.8 5.8 5.2	e77 e122 e57 e50 e158	e1.4 e1.3 e1.2 e1.1 e1.2	1.8 1.6 1.5 1.6	4.1 3.7 3.3 3.0 2.6	40 30 24 18 14	
11 12 13 14 15	e0.00 e0.00 e0.00 e0.00 e0.00	e3.3 e1.5 e0.70 e0.50 e0.37	e0.11 e0.13 e0.23 e0.19 e0.17	e7.2 e5.6 e4.8 e4.0 e3.3	e1.8 e1.7 e1.7 e3.0 106	24 20 25 28 21	4.5 3.8 3.3 2.9 2.5	e238 e73 e52 e41 e37	e1.9 e11 e6.4 e32 e13	9.4 6.1 4.2 3.0 2.7	2.4 2.8 2.2 1.8 1.9	13 15 14 12 10	
16 17 18 19 20	e0.00 e0.00 e0.00 e0.00 e0.00	e0.25 e0.21 e0.18 e0.17 e0.16	e0.16 e0.19 e10 e70 e50	e2.8 e2.3 e2.0 e1.8 e1.6	55 56 22 17 33	17 13 11 11 12	2.1 2.7 2.3 2.1 4.1	e31 e27 e22 e18 e16	e8.2 e5.9 e4.6 e3.7 e3.1	2.5 2.7 47 23 15	2.7 2.9 2.2 2.0 1.7	9.2 8.0 7.1 6.4 5.9	
21 22 23 24 25	e0.00 e0.00 e0.00 e0.00 e0.10	e0.15 e0.14 e0.15 e0.15 e0.14	e35 e26 22 19 17	e1.4 e1.3 e1.2 e1.2 e1.2	64 178 108 72 57	44 35 26 20 25	6.3 4.4 3.5 2.7 68	e14 e12 e11 e10 e9.6	e2.4 e1.9 e1.7 e1.6 e1.5	49 31 19 12 8.6	1.5 1.6 1.5 1.3	5.4 43 18 13 11	
26 27 28 29 30 31	e0.60 e0.50 e0.30 e3.0 e1.8 e0.74	e0.12 e0.12 e0.11 e0.11 e0.11	13 12 11 11 26 83	e1.3 e1.3 e1.3 e1.4 e1.4	43 34 29 	45 31 23 30 24 19	62 e28 e19 e16 e13	e8.7 e7.6 e6.1 e5.6 e4.6 e3.7	1.6 1.4 1.3 1.2 1.3	7.0 6.0 22 17 12	1.0 1.0 0.96 1.3 1.2	13 160 55 47 37	
TOTAL MEAN MAX MIN CFSM IN.	7.04 0.23 3.0 0.00 0.01 0.02	14.32 0.48 4.0 0.11 0.03 0.03	407.20 13.1 83 0.09 0.79 0.91	285.5 9.21 57 1.2 0.55 0.64	920.8 32.9 178 1.7 1.97 2.05	902 29.1 74 11 1.74 2.01	345.0 11.5 68 2.1 0.69 0.77	1,418.9 45.8 239 3.7 2.74 3.16	122.4 4.08 32 1.1 0.24 0.27	344.4 11.1 49 1.5 0.67 0.77	144.26 4.65 59 0.96 0.28 0.32	2,436.0 81.2 956 5.4 4.86 5.43	
								R YEAR (W	<i>'</i>				
MEAN MAX (WY) MIN (WY)	4.79 62.3 (2001) 0.020 (1988)	14.9 79.0 (1994) 0.058 (1972)	22.8 96.8 (1983) 0.026 (1977)	23.5 105 (1969) 0.006 (1977)	26.8 67.4 (1971) 1.63 (1978)	32.8 112 (1973) 3.52 (2000)	32.3 74.9 (1992) 1.48 (1971)	25.8 122 (2002) 1.23 (1976)	12.7 58.5 (2001) 0.22 (1977)	12.0 79.3 (1973) 0.17 (1972)	4.81 25.4 (1979) 0.065 (1983)	9.26 81.2 (2003) 0.000 (1999)	
SUMMAI	RY STATIS	STICS		FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	EAR	WATER	YEARS 196	67 - 2003	
HIGHEST LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL ANNUAL 10 PERCE 50 PERCE	AL MEAN ST ANNUAL MEAN ST ANNUAL MEAN ST DAILY MEAN ST DAILY MEAN AL SEVEN-DAY MINIMUM MUM PEAK FLOW MUM PEAK STAGE AL RUNOFF (CFSM) AL RUNOFF (INCHES) CENT EXCEEDS CENT EXCEEDS			1,230 0 0 1 17 49 1	.5) May 0.00 Jul 0.00 Jul 2.29 7.46	6	95 1,65	0.00 Oct 0.00 Oct 50 Sep 18.65 Sep 1.21 16.37 47 4.5			0.00 O 0.00 O 130 Ma 19.51 Ma 1.11 15.03 44 3.7	1973 1977 ct 5, 2000 ct 12, 1966 ct 23, 1966 ty 12, 2002 ty 12, 2002	
90 PERCI	0 PERCENT EXCEEDS 0 PERCENT EXCEEDS			C	0.00			0.11			0.10		

e Estimated

03342100 BUSSERON CREEK NEAR HYMERA, IN—Continued



03342500 BUSSERON CREEK NEAR CARLISLE, IN

 $LOCATION.-Lat~38^{\circ}58'27'', long~87^{\circ}25'33'', in~NW^{1}\!\!/_{4}~survey~17, Vincennes~Tract, Sullivan~County, Hydrologic~Unit~05120111, (CARLISLE, IN~quadrangle), on left bank~10~ft~downstream~from~bridge~on~State~Highway~58, 1.5~mi~northwest~of~Carlisle,~and~6.7~mi~upstream~from~mouth,~and~7.5~mi~northwest~of~Carlisle,~and~6.7~mi~upstream~from~mouth,~and~7.5~mi~northwest~of~Carlisle,~and~6.7~mi~upstream~from~mouth,~and~7.5~mi~northwest~of~Carlisle,~and~6.7~mi~upstream~from~mouth,~and~7.5~mi~northwest~of~Carlisle,~and~6.7~mi~upstream~from~mouth,~and~7.5~mi~northwest~of~Carlisle,~and~6.7~mi~upstream~from~mouth,~and~7.5~mi~northwest~of~Carlisle,~and~6.7~mi~upstream~from~mouth,~and~7.5~mi~northwest~of~Carlisle,~and~6.7~mi~upstream~from~mouth,~and~7.5~mi~northwest~of~Carlisle,~and~6.7~mi~upstream~from~mouth,~and~7.5~mi~northwest~of~Carlisle,~and~6.7~mi~upstream~from~mouth,~and~7.5~mi~northwest~of~Carlisle,~and~6.7~mi~upstream~from~mouth,~and~7.5~mi~upstream~from~mouth,~and~7.5~mi~upstream~from~mouth,~and~7.5~mi~upstream~from~mouth,~and~7.5~mi~upstream~from~mouth,~and~7.5~mi~upstream~from~mouth,~and~7.5~mi~upstream~from~mouth,~and~7.5~mi~upstream~from~mouth,~and~7.5~mi~upstream~from~mouth,~and~7.5~mi~upstream~from~mouth,~and~7.5~mi~upstream~from~mouth,~and~7.5~mi~upstream~from~mouth,~and~7.5~mi~upstream~from~mouth,~and~7.5~mi~upstream~from~mouth,~and~7.5~mi~upstream~from~mouth$

DRAINAGE AREA.--228 mi².

PERIOD OF RECORD.--October 1943 to October 2003 (discontinued).

REVISED RECORDS.--WSP 1335: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 425.36 ft above National Geodetic Vertical Datum of 1929 (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 fair except for estimated daily discharges, which are poor. Flow affected by U.S. Soil Conservation Service floodwater-retarding structures and surface-mined areas. Gage can be in backwater at times from the Wabash River.

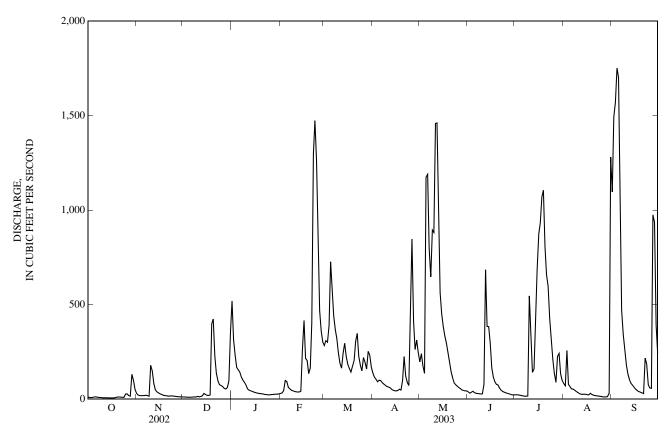
DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	9.0 8.2 9.4 12	31 22 19 19	12 11 11 11 9.9	519 315 232 168 156	30 33 44 99 e94	284 309 301 390 726	139 117 106 92 100	198 240 176 137 1,170	38 32 37 41 34	23 23 23 21 19	82 71 257 79 66	1,100 1,490 1,570 1,750 1,700
6	12	19	11	142	e62	581	98	1,190	31	17	55	1,030
7	9.8	21	11	116	e54	439	87	798	30	16	53	469
8	9.0	18	12	100	e47	367	80	647	29	15	48	343
9	8.9	16	11	88	e44	320	73	894	27	17	40	263
10	7.9	179	14	74	e41	243	67	882	28	546	35	182
11	7.2	152	12	e54	e39	190	64	1,460	77	336	29	131
12	7.5	84	14	e47	e38	164	61	1,460	684	142	26	103
13	7.3	50	17	e44	e38	245	52	1,120	385	159	25	83
14	6.9	39	30	e41	e42	295	47	563	384	375	27	73
15	6.8	34	25	e37	265	224	45	449	299	688	26	62
16 17 18 19 20	6.6 6.8 7.2 9.7	28 25 21 19 18	21 19 22 397 424	e35 e32 e31 e29 e29	416 216 204 135 166	185 162 144 174 203	44 46 52 48 100	384 334 296 246 192	165 118 92 78 75	873 932 1,070 1,100 806	23 23 31 25 21	53 45 40 37 33
21	12	17	227	e27	405	306	225	146	58	659	19	30
22	10	16	137	e25	1,300	348	121	112	47	596	18	217
23	10	17	97	e24	1,470	226	88	86	41	424	16	186
24	9.6	17	77	e23	1,260	180	72	76	37	308	16	77
25	27	16	72	23	761	150	460	69	33	209	14	59
26 27 28 29 30 31	28 19 16 132 99 52	15 14 13 12 12	67 57 54 61 98 350	25 25 26 27 26 28	469 359 303 	220 196 159 253 234 170	847 414 262 312 248	62 55 49 46 43 44	31 28 25 23 22	136 89 225 241 134 98	12 12 12 14 31 1,280	57 975 935 392 243
TOTAL	588.8	982	2,391.9	2,568	8,434	8,388	4,567	13,624	3,029	10,320	2,486	13,728
MEAN	19.0	32.7	77.2	82.8	301	271	152	439	101	333	80.2	458
MAX	132	179	424	519	1,470	726	847	1,460	684	1,100	1,280	1,750
MIN	6.6	12	9.9	23	30	144	44	43	22	15	12	30
CFSM	0.08	0.14	0.34	0.36	1.32	1.19	0.67	1.93	0.44	1.46	0.35	2.01
IN.	0.10	0.16	0.39	0.42	1.38	1.37	0.75	2.22	0.49	1.68	0.41	2.24
STATIST	ICS OF M	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1944 - 2003	BY WATE	R YEAR (W	Y)			
MEAN	61.9	166	252	316	362	440	423	346	184	115	59.4	80.8
MAX	827	1,250	1,421	2,380	1,317	1,284	1,102	1,469	988	1,101	633	701
(WY)	(2001)	(1994)	(1983)	(1950)	(1950)	(1978)	(1945)	(2002)	(1945)	(1979)	(1979)	(1989)
MIN	1.39	0.94	2.87	3.64	11.3	12.8	35.6	31.6	8.88	0.035	1.89	0.88
(WY)	(1944)	(1955)	(1954)	(1977)	(1954)	(1954)	(1954)	(1954)	(1954)	(1954)	(1953)	(1953)

03342500 BUSSERON CREEK NEAR CARLISLE, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	NDAR YEAR	FOR 2003 WAT	ΓER YEAR	WATER YEAR	S 1944 - 2003
ANNUAL TOTAL	104,421.6		71,106.7			
ANNUAL MEAN	286		195		233	
HIGHEST ANNUAL MEAN					548	1950
LOWEST ANNUAL MEAN					10.8	1954
HIGHEST DAILY MEAN	3,860	May 15	1,750	Sep 4	8,500	Jan 5, 1950
LOWEST DAILY MEAN	6.2	Sep 13	6.6	Oct 16	0.00	Jul 12, 1954
ANNUAL SEVEN-DAY MINIMUM	7.0	Sep 12	7.0	Oct 11	0.00	Jul 12, 1954
MAXIMUM PEAK FLOW		•	1,930	Feb 22	8,800	Jan 5, 1950
MAXIMUM PEAK STAGE			11.07	Feb 22	20.30	May 9, 1961
ANNUAL RUNOFF (CFSM)	1.25		0.85		1.02	•
ANNUAL RUNOFF (INCHES)	17.04		11.60		13.89	
10 PERCENT EXCEEDS	852		530		642	
50 PERCENT EXCEEDS	54		61		57	
90 PERCENT EXCEEDS	8.5		12		5.9	

e Estimated



03343000 WABASH RIVER AT VINCENNES, IN

LOCATION.--Lat 38°42'19", long 87°31'14", T.3 N., R.10 W., Lawrence County, IL, Hydrologic Unit 05120111, (VINCENNES IL-IN quadrangle), on right bank 30 ft east of Illinois State Highway 33, 300 ft upstream from Kelso Creek, 570 ft downstream from U.S. Highway 50 bridge, 5.1 mi downstream from Maria Creek, 7.5 mi upstream from Embarras River and at mile 129.6.

DRAINAGE AREA.--13,706 mi².

PERIOD OF RECORD.--October 1929 to September 1994 (discharge), October 1994 to current year (stage-only). Prior to December 1929 monthly discharge only, published in WSP 1305. Gage-height records for flood peaks in 1867 and 1883, intermittent records 1887-1904, and continuous since November 1904, collected at site 1.8 mi downstream, are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1173: 1943 (maximum gage height only). WSP 1335: 1930-31, 1933, 1936. WSP 1909: 1955. WDR IN-73-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 394.43 ft above National Geodetic Vertical Datum of 1929. Oct. 1, 1968, to June 19, 1979, recording gage at site 570 ft upstream at same datum. Oct. 1, 1960, to September 30, 1968, nonrecording gage at site 1.8 mi downstream at same datum. Oct. 1, 1960, to Sept. 30, 1968, auxiliary water-stage recorder at site 2.8 mi upstream from base gage at datum 0.80 ft lower. See WSP 1725 for history of changes prior to Oct. 1, 1960

REMARKS.--Flow partially regulated by upstream reservoirs.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 29, 1913, reached a stage of 26.3 ft, at former site 1.8 mi downstream and at present datum, from floodmarks, determined by U.S. Army Corps of Engineers, discharge, 255,000 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 29.33 ft, May 22, 1943; minimum gage height unknown prior to 1988, since 1988 minimum gage height, 3.92 ft, Sept. 4, 1988.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 24.10 ft, July 18; minimum gage height, 4.43 ft, Dec. 9, and 10.

GAGE HEIGHT, FEET WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.82	4.93	5.08	6.42	4.85	6.65	7.61	6.08	9.62	5.89	12.89	12.01
2	4.76	4.90	4.96	6.81	4.85	6.79	8.92	6.02	9.83	5.79	11.80	14.92
3	4.78	4.89	4.88	7.36	4.90	6.79	8.92	5.84	9.77	5.73	11.05	15.88
4	4.79	4.85	4.88	8.70	4.99	6.96	8.24	6.41	9.24	5.59	10.48	16.56
5	4.69	4.85	4.81	9.29	5.21	7.54	7.54	9.29	8.50	5.53	10.27	16.83
6	4.66	4.81	4.73	9.09	5.84	7.03	7.11	10.34	7.97	5.44	10.75	17.19
7	4.65	4.82	4.64	8.59	6.14	7.32	7.18	12.43	7.67	9.83	10.83	17.54
8	4.63	4.85	4.51	7.97	6.23	7.53	8.83	14.11	7.40	12.70	10.43	17.63
9	4.65	4.96	4.43	7.28	6.30	7.24	9.73	15.25	7.13	13.79	9.92	17.57
10	4.64	5.26	4.51	6.68	6.20	8.10	9.92	15.73	7.03	15.38	9.86	17.19
11	4.61	5.18	4.55	6.71	6.00	9.52	9.71	16.57	7.32	16.00	9.80	16.26
12	4.65	5.47	4.59	6.86	5.83	10.19	9.18	17.01	8.09	16.74	9.50	14.43
13	4.64	6.07	4.66	6.66	5.69	10.62	8.63	17.36	7.64	17.73	9.10	12.31
14	4.62	6.00	4.61	6.98	5.54	10.57	8.08	17.77	8.63	19.23	8.72	10.95
15	4.63	6.04	4.58	7.02	5.88	11.38	7.56	18.37	10.40	21.90	8.41	10.16
16 17 18 19 20	4.60 4.58 4.53 4.54 4.55	6.29 6.20 6.00 5.74 5.60	4.59 4.58 4.68 5.60 5.33	6.63 	6.00 5.74 5.59 5.55 5.47	11.93 12.27 12.39 12.61 12.43	7.14 6.84 6.61 6.45 6.46	18.81 18.94 18.81 18.67 18.32	12.12 12.65 11.98 10.93 10.10	23.39 23.95 24.10 23.90 23.32	8.24 8.24 8.09 7.89 7.76	9.68 9.21 8.55 7.83 7.45
21 22 23 24 25	4.60 4.76 4.77 4.78 5.07	5.44 5.25 5.16 5.18 5.19	5.11 5.32 5.45 6.49 7.00	 	6.17 9.00 9.36 8.85 8.00	11.96 10.99 10.13 9.76 9.86	6.41 6.25 6.18 6.11 7.12	17.79 17.00 15.59 13.80 12.26	9.43 8.70 8.04 7.61 7.28	22.58 21.70 20.84 20.04 19.27	7.66 7.42 7.10 6.82 6.68	7.25 7.30 7.20 7.00 6.82
26 27 28 29 30 31	4.84 4.80 4.82 5.43 5.06 4.98	5.13 5.06 5.13 5.17 5.16	6.67 6.19 5.84 5.60 5.46 6.29	6.28 5.13 4.88 4.88	7.27 6.78 6.53 	9.98 9.30 8.69 8.19 7.66 7.31	7.12 6.81 6.66 6.62 6.30	11.27 10.62 10.21 9.89 9.68 9.65	6.90 6.53 6.27 6.07 5.92	18.56 17.90 17.36 16.78 15.75 14.41	6.64 6.47 6.29 6.29 6.12 8.25	7.68 10.11 12.42 13.64 14.16
MEAN	4.74	5.32	5.18		6.24	9.34	7.54	13.54	8.56	16.17	8.70	12.12
MAX	5.43	6.29	7.00		9.36	12.61	9.92	18.94	12.65	24.10	12.89	17.63
MIN	4.53	4.81	4.43		4.85	6.65	6.11	5.84	5.92	5.44	6.12	6.82

03347000 WHITE RIVER AT MUNCIE, IN

LOCATION.--Lat $40^{\circ}12^{\circ}15^{\circ}$, long $85^{\circ}23^{\circ}14^{\circ}$, in $NE^{\frac{1}{4}}NE^{\frac{1}{4}}$, sec. 9, T.20 N., R.10 E., Delaware County, Hydrologic Unit 05120201, (MUNCIE WEST, IN quadrangle), on right bank 200 ft downstream from Walnut Street bridge in Muncie, 6 mi upstream from Bell Creek, and at mile 315.8.

DRAINAGE AREA.--241 mi².

PERIOD OF RECORD.--November 1930 to current year. Prior to October 1948, published as West Fork White River at Muncie. Daily gage heights from July 1923 to December 1929 are available in the district office.

REVISED RECORDS.--WSP 1335: 1931-32(M), 1936(M), 1938, 1948. WSP 1435: 1955. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 917.10 ft above National Geodetic Vertical Datum of 1929 (City of Muncie bench mark). See WSP 1705 for history of changes prior to Jan. 28, 1942. Jan. 28, 1942, to Apr. 27, 1964, water-stage recorder at present site at datum 3.00 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow affected by regulation of Prairie Creek Reservoir and by diversion of municipal water supply by Muncie Water Works Co. above gage. Records of diversion available since October 1937.

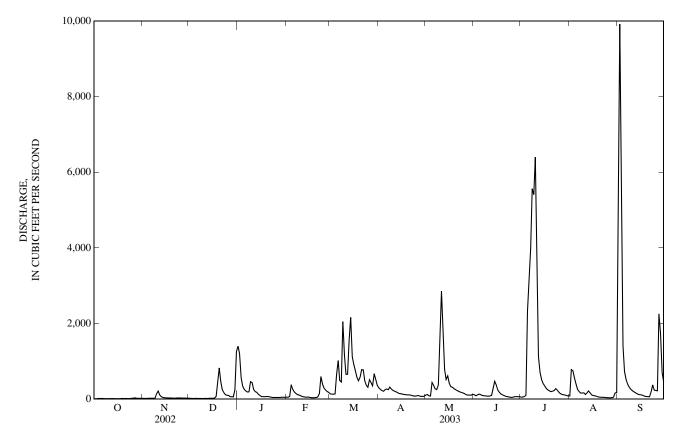
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 22.6 ft in March 1913, present datum, discharge, 20,000 ft³/s.

					YEAR OCT	, CUBIC FEI ΓOBER 2002 LY MEAN V	TO SEPTE					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	24	24	1,400	e52	e140	300	107	115	53	84	2,270
2	11	21	20	1,200	e53	e135	257	121	91	56	782	9,920
3	12	20	19	563	e70	e130	226	90	112	67	750	5,140
4	20	20	18	345	e380	e140	210	83	132	99	563	1,410
5	17	25	22	259	e260	655	252	441	120	2,330	399	729
6	20	25	19	215	e190	1,020	268	366	100	3,200	258	517
7	17	24	19	191	e150	493	251	273	91	4,000	201	399
8	15	25	20	194	e120	455	318	254	89	5,570	161	317
9	14	24	17	463	e110	2,050	267	371	81	5,410	164	262
10	15	148	19	437	e90	1,170	232	1,820	78	6,400	166	223
11	15	215	20	257	e70	657	211	2,860	83	3,170	124	195
12	16	110	19	e200	e62	659	195	1,790	96	1,130	164	170
13	16	62	21	e180	e54	1,570	173	787	279	711	218	142
14	15	46	24	e130	e52	2,160	149	521	472	522	168	124
15	13	37	24	e96	e56	1,120	145	615	382	414	114	118
16	13	34	23	e70	e43	915	135	424	242	346	95	112
17	14	33	32	e67	e39	750	124	329	181	283	91	92
18	15	30	69	e66	e38	578	120	316	140	246	75	76
19	20	31	446	e68	e39	486	114	279	115	220	60	69
20	17	29	826	e71	e45	583	114	253	94	197	54	68
21	18	24	451	e62	e56	780	111	229	76	211	51	62
22	17	29	244	e54	e150	775	97	206	69	224	50	195
23	16	31	169	e47	e600	487	88	189	60	278	47	379
24	15	32	116	e44	e400	367	80	174	51	240	45	239
25	22	31	103	e45	e290	315	84	159	45	185	39	229
26 27 28 29 30 31	24 36 25 23 22 22	30 28 29 27 24	99 65 66 61 251 1,250	e46 e43 e46 e52 e51 e51	e240 e200 e180	515 441 355 672 520 363	97 84 73 73 73	139 117 107 108 105 132	57 67 68 65 64	146 125 116 109 94 85	38 37 40 53 167 171	222 2,260 1,740 705 453
TOTAL	547	1,268	4,576	7,013	4,089	21,456	4,921	13,765	3,715	36,237	5,429	28,837
MEAN	17.6	42.3	148	226	146	692	164	444	124	1,169	175	961
MAX	36	215	1,250	1,400	600	2,160	318	2,860	472	6,400	782	9,920
MIN	11	20	17	43	38	130	73	83	45	53	37	62
CFSM	0.07	0.18	0.61	0.94	0.61	2.87	0.68	1.84	0.51	4.85	0.73	3.99
IN.	0.08	0.20	0.71	1.08	0.63	3.31	0.76	2.12	0.57	5.59	0.84	4.45
STATIST	TCS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1932 - 2003,	BY WATE	R YEAR (W	Y)			
MEAN	66.8	144	223	295	337	412	402	272	218	135	70.6	70.9
MAX	807	1,068	1,119	1,654	1,122	963	1,476	1,239	1,492	1,169	816	961
(WY)	(2002)	(1994)	(1991)	(1950)	(1950)	(1978)	(1964)	(1933)	(1958)	(2003)	(1979)	(2003)
MIN	2.30	7.33	6.57	6.38	21.2	39.0	46.4	16.4	13.6	9.55	4.80	1.96
(WY)	(1957)	(1957)	(1961)	(1977)	(1935)	(1941)	(1941)	(1941)	(1988)	(1944)	(1940)	(1954)

03347000 WHITE RIVER AT MUNCIE, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	ENDAR YEAR	FOR 2003 WA	ΓER YEAR	WATER YEARS 1932 - 20		
ANNUAL TOTAL	94,758		131,853				
ANNUAL MEAN	260		361		220		
HIGHEST ANNUAL MEAN					421	1950	
LOWEST ANNUAL MEAN					42.1	1941	
HIGHEST DAILY MEAN	4,390	May 13	9,920	Sep 2	11,600	Apr 21, 1964	
LOWEST DAILY MEAN	11	Oct 2	11	Oct 2	1.1	Sep 16, 1954	
ANNUAL SEVEN-DAY MINIMUM	15	Oct 11	15	Oct 11	1.2	Sep 21, 1954	
MAXIMUM PEAK FLOW			12,400	Sep 2	14,300	Apr 21, 1964	
MAXIMUM PEAK STAGE			14.02	Sep 2	21.07	Jan 15, 1937	
ANNUAL RUNOFF (CFSM)	1.08		1.50	•	0.91		
ANNUAL RUNOFF (INCHES)	14.63		20.35		12.39		
10 PERCENT EXCEEDS	604		707		487		
50 PERCENT EXCEEDS	83		115		77		
90 PERCENT EXCEEDS	19		21		13		

e Estimated



03347500 BUCK CREEK NEAR MUNCIE, IN

LOCATION.--Lat 40°08′05″, long 85°22′25″, in SW ½SE½ sec.34, T.20 N., R.10 E., Delaware County, Hydrologic Unit 05120201, (MUNCIE EAST, IN quadrangle), on left bank at downstream side of bridge on County Road 400 South, 1.0 mi upstream from Muncie Water Works Co. pumping station, 4.2 mi southeast of court house in Muncie, and at mile 10.6.

DRAINAGE AREA.--35.5 mi².

PERIOD OF RECORD.--October 1954 to October 2003 (discontinued).

REVISED RECORDS.--WSP 1909: 1955, 1957. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 944.67 ft above National Geodetic Vertical Datum of 1929. Prior to May 5, 1955, nonrecording gage at same site and datum.

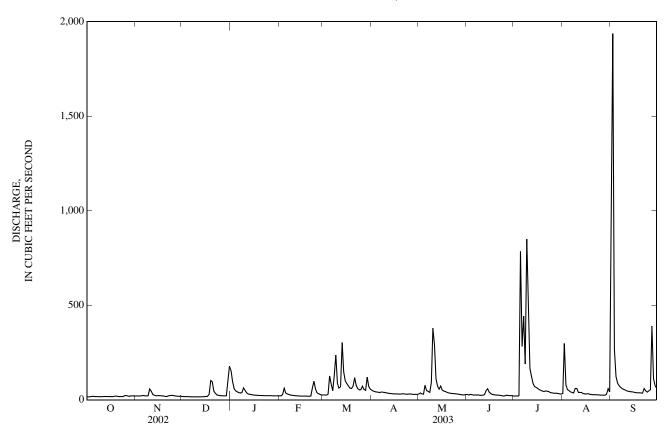
REMARKS.--Records fair except for estimated daily discharges, which are poor.

REMARI	SRecord	ls fair except	for estimate	ed daily disch	arges, whic	ch are poor.						
					YEAR OC	, CUBIC FEI TOBER 2002 LY MEAN V	TO SEPTE					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	16 16 16 18 19	20 21 21 20 22	17 17 17 17 17	155 97 58 47 43	e21 e21 29 62 36	e26 e26 e25 30 126	51 46 43 41 41	31 36 31 30 77	28 25 29 28 25	20 21 20 22 785	34 298 79 55 48	702 1,940 267 124 89
6 7 8 9 10	18 17 17 16 17	23 21 21 22 58	16 16 16 15 15	38 36 38 63 49	31 28 e25 e24 e23	84 48 132 237 87	38 41 40 39 37	49 45 39 92 380	26 25 26 24 25	282 442 189 849 488	42 39 36 61 60	75 66 59 55 51
11 12 13 14 15	17 17 18 17 17	47 29 24 22 22	16 16 16 17 16	37 e31 e29 e28 e26	e22 e21 e21 e20 e20	62 69 303 148 100	36 34 33 32 31	291 111 72 56 73	24 28 48 59 41	166 126 87 71 66	39 39 39 33 32	47 45 43 43 41
16 17 18 19 20	17 17 17 20 19	22 22 21 20 18	18 18 28 102 95	e25 e24 e24 e23 e23	e20 e20 e20 e19 e19	86 74 62 60 73	32 31 31 30 31	51 46 44 40 37	33 29 27 26 25	60 53 50 46 43	30 33 30 28 27	39 38 37 37 36
21 22 23 24 25	18 17 17 17 21	17 21 22 24 23	46 35 e26 e24 e22	e23 e22 e22 e22 e22	e20 63 98 58 e37	117 76 60 52 54	32 31 30 30 31	35 34 33 32 31	24 24 22 20 21	47 46 44 38 37	27 27 27 26 25	35 59 48 41 47
26 27 28 29 30 31	23 20 19 20 21 20	21 20 19 19 19	e22 e21 e21 e21 104 178	e22 e22 e21 e21 e21 e21	e32 e28 e26 	72 55 50 120 70 57	31 29 29 29 29 28	31 29 27 26 25 29	24 23 22 23 21	35 35 35 33 32 31	25 25 25 30 59 42	53 390 112 74 60
TOTAL MEAN MAX MIN CFSM IN.	559 18.0 23 16 0.51 0.59	701 23.4 58 17 0.66 0.73	1,025 33.1 178 15 0.93 1.07	1,133 36.5 155 21 1.03 1.19	864 30.9 98 19 0.87 0.91	2,641 85.2 303 25 2.40 2.77	1,038 34.6 51 28 0.97 1.09	1,963 63.3 380 25 1.78 2.06	825 27.5 59 20 0.77 0.86	4,299 139 849 20 3.91 4.50	1,420 45.8 298 25 1.29 1.49	4,753 158 1,940 35 4.46 4.98
STATIST	ICS OF MO	ONTHLY M	EAN DATA	FOR WATE	ER YEARS	1955 - 2003	, BY WATE	R YEAR (W	Y)			
MEAN MAX (WY) MIN (WY)	22.4 99.5 (2002) 8.73 (1964)	31.7 146 (1994) 9.30 (1964)	37.8 109 (1991) 8.77 (1965)	41.0 96.2 (1959) 6.36 (1977)	50.1 123 (1971) 11.2 (1964)	57.1 117 (1982) 16.4 (1966)	56.7 166 (1964) 16.7 (1966)	45.8 102 (2002) 17.2 (1988)	42.4 153 (1958) 11.3 (1988)	32.5 139 (2003) 8.64 (1966)	23.6 108 (1979) 9.00 (1965)	21.7 158 (2003) 8.13 (1963)
SUMMA	RY STATIS	STICS	1	FOR 2002 C.	ALENDAR	YEAR	FOR 200	3 WATER Y	EAR	WATER	YEARS 195	55 - 2003
LOWEST HIGHES' LOWEST ANNUAI MAXIMU MAXIMU ANNUAI ANNUAI	L MEAN Γ ANNUAL Γ ANNUAL Γ DAILY M Γ DAILY M	MEAN MEAN MEAN MEAN MAY MINIM MEAN MEAN MEAN MEAN MEAN MEAN MEAN MEA	IUM		.0 May Sep Dec	6	1,94 1 1 2,32 1	58.1 40 Sep 15 Dec 16 Dec 20 Sep	2 2 9 2 6 6 2 2 2 2		4.7 Ja 5.5 Ja 320 Se	2003 1966 p 2, 2003 n 17, 1977 n 15, 1977 p 2, 2003 p 2, 2003
50 PERC	ENT EXCE ENT EXCE	EDS		28 17			3	30 18			25 12	

e Estimated

90 PERCENT EXCEEDS

03347500 BUCK CREEK NEAR MUNCIE, IN—Continued



03348000 WHITE RIVER AT ANDERSON, IN

LOCATION.--Lat 40°06'20", long 85°40'16", in NW¹/₄NW¹/₄ sec.17, T.19 N., R.8 E., Madison County, Hydrologic Unit 05120201, (ANDERSON SOUTH, IN quadrangle), on downstream side of abandoned Twelfth Street bridge abutment, 250 ft upstream from municipal water-supply plant in Anderson, 1 mi upstream from Killbuck Creek, and at mile 293.3

DRAINAGE AREA.--406 mi².

PERIOD OF RECORD.--July 1925 to September 1926, October 1931 to December 1993 (discharge). September 2000 to current year (stage only). Monthly discharge only for some periods, published in WSP 1305. Gage-height records collected at site 950 ft downstream December 1910 to February 1918, 250 ft downsteam from February 1918 to Sept. 14, 1973, and at present site since Sept. 15, 1973, are contained in reports of National Weather Service. Prior to October 1948, published as West Fork White River at Anderson.

REVISED RECORDS.--WSP 1335: 1932, 1934-35, 1936(M), 1938-40. WSP 1385: 1950(P). WSP 1725: 1956(P). WSP 1909: 1956. WSP 2109: Drainage area. WDR IN-03-1: 1972.

GAGE.--Water-stage recorder. Datum of gage is 825.02 ft above National Geodetic Vertical Datum of 1929. Prior to May 12, 1934, nonrecording gage at present site and datum. May 12, 1934 to Sept. 14, 1973, nonrecording gage at site 250 ft downstream at same datum. Sept. 15, 1973 to Sept. 23, 1976, nonrecording gage at presant site an datum.

REMARKS.--Prior to Sept. 15, 1973, the City of Anderson diverted water for its municipal supply above the gage then in use.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 23.6 ft Mar. 25, 1913, at site 250 ft downstream and at present datum, based on determination of National Weather Service at site then in use, discharge, 28,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 19.48 ft, Sept. 3; minimum gage height, 4.14 ft, Oct. 17-18.

REVISIONS.--Revised figures of discharge for the water year 1972, superseding those published in the report for 1972 are given below.

EXTREMES FOR 1972 WATER YEAR.--Maximum discharge, 4,420 ft³/s, gage height, 11.50 ft, Dec. 15, 1971.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122	107	97	1,440	200	911	270	322	402	275	122	85
2	117	107	105	1,040	270	2,180	240	302	335	220	117	85
3	117	107	100	884	185	2,130	237	296	255	185	127	110
4	122	107	95	796	160	1,350	332	292	223	226	190	114
5	122	107	85	818	130	906	328	283	218	198	174	120
6	117	107	132	654	130	673	302	267	207	169	148	93
7	117	107	460	505	130	578	1,020	264	215	153	188	83
8	117	107	884	402	140	498	2,210	280	209	153	148	102
9	107	107	488	395	130	422	1,570	429	198	142	148	107
10	112	107	402	488	130	368	1,150	488	185	166	132	83
11	112	107	385	774	130	315	937	385	180	155	120	78
12	102	107	240	643	140	315	787	305	171	150	120	83
13	112	107	212	612	160	302	1,360	342	201	148	120	107
14	102	107	598	463	171	302	1,080	601	548	148	110	153
15	102	102	3,090	330	255	309	756	1,350	681	292	114	158
16	102	102	2,810	250	402	309	1,110	1,150	1,060	419	117	127
17	102	102	1,580	250	335	309	1,640	814	681	280	117	107
18	102	102	1,010	280	270	296	1,140	658	456	212	102	107
19	102	102	703	350	210	296	897	559	388	302	102	226
20	102	107	559	368	180	289	2,230	477	286	402	102	158
21	102	107	477	361	170	270	2,110	416	390	261	90	132
22	102	102	426	382	170	335	2,630	368	335	261	90	212
23	270	102	375	422	170	302	2,840	328	240	207	90	522
24	240	102	309	429	170	296	1,670	296	220	177	110	505
25	158	107	276	429	170	264	1,140	264	207	190	97	635
26 27 28 29 30 31	132 107 107 107 107 107	107 95 93 90 97	258 240 234 232 1,330 2,310	348 250 210 190 180 180	180 212 352 412	258 252 240 240 355 302	701 548 412 355 338	240 237 207 207 234 335	207 182 158 158 333	158 148 142 135 127 122	97 93 93 88 88 88	1,990 2,310 884 730 1,130
TOTAL	3,749	3,117	20,502	15,123	5,864	16,172	32,340	12,996	9,529	6,323	3,642	11,336
MEAN	121	104	661	488	202	522	1,078	419	318	204	117	378
MAX	270	107	3,090	1,440	412	2,180	2,840	1,350	1,060	419	190	2,310
MIN	102	90	85	180	130	240	237	207	158	122	88	78
CFSM	0.30	0.26	1.63	1.20	0.50	1.28	2.66	1.03	0.78	0.50	0.29	0.93
IN.	0.34	0.29	1.88	1.39	0.54	1.48	2.96	1.19	0.87	0.58	0.33	1.04
STATIST	TICS OF MO	NTHLY M	EAN DATA	FOR WATI	ER YEARS	1932 - 1972,	BY WATE	R YEAR (W	Y)			
MEAN	117	186	312	516	546	672	709	475	361	185	138	114
MAX	379	1,034	1,106	2,740	1,882	1,598	2,164	1,949	2,232	495	500	378
(WY)	(1956)	(1956)	(1958)	(1950)	(1950)	(1963)	(1964)	(1933)	(1958)	(1962)	(1958)	(1972)
MIN	30.3	45.4	45.1	44.4	67.5	81.5	94.0	41.5	76.6	37.9	25.1	20.9
(WY)	(1941)	(1935)	(1964)	(1945)	(1935)	(1941)	(1941)	(1941)	(1936)	(1936)	(1940)	(1941)

03348000 WHITE RIVER AT ANDERSON, IN—Continued

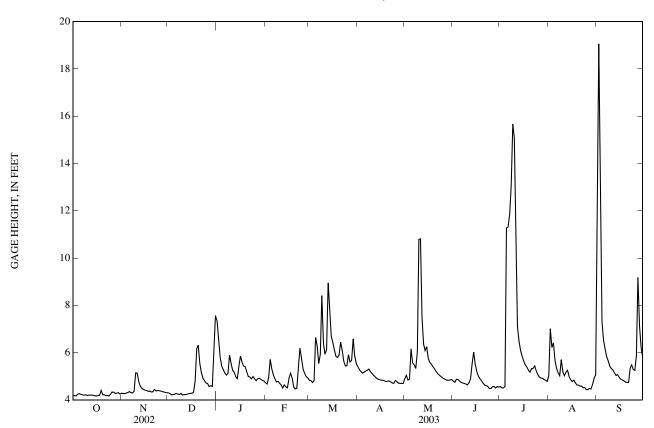
SUMMARY STATISTICS	FOR 1971 CALE	ENDAR YEAR	FOR 1972 WA	TER YEAR	WATER YEARS	3 1932 - 1972
ANNUAL TOTAL	113,085		140,693			
ANNUAL MEAN	310		384		362	
HIGHEST ANNUAL MEAN					704	1950
LOWEST ANNUAL MEAN					80.5	1941
HIGHEST DAILY MEAN	3,820	Feb 20	3,090	Dec 15	15,100	Apr 21, 1964
LOWEST DAILY MEAN	39	Aug 16	78	Sep 11	9.1	Sep 24, 1940
ANNUAL SEVEN-DAY MINIMUM	43	Jan 27	89	Aug 27	13	Sep 23, 1941
MAXIMUM PEAK FLOW			4,420	Dec 15	18,700	Apr 21, 1964
MAXIMUM PEAK STAGE			11.50	Dec 15	19.96	Jun 14, 1958
ANNUAL RUNOFF (CFSM)	0.76		0.95		0.89	
ANNUAL RUNOFF (INCHES)	10.36		12.89		12.11	
10 PERCENT EXCEEDS	678		888		759	
50 PERCENT EXCEEDS	142		222		157	
90 PERCENT EXCEEDS	82		102		55	

GAGE HEIGHT, FEET WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.17	4.28	4.29	7.35	4.72	4.83	5.40	4.89	4.79	4.56	5.03	12.31
2	4.18	4.27	4.26	6.64	4.67	4.82	5.28	5.04	4.74	4.51	7.01	19.06
3	4.17	4.26	4.21	5.80	4.95	4.73	5.19	4.84	4.87	4.50	6.21	12.97
4	4.24	4.28	4.22	5.44	5.71	4.81	5.13	4.88	4.86	4.56	6.41	7.30
5	4.26	4.31	4.24	5.28	5.31	6.64	5.17	6.16	4.79	11.27	5.66	6.52
6	4.23	4.35	4.27	5.13	5.06	6.27	5.22	5.55	4.74	11.31	5.34	6.15
7	4.21	4.30	4.24	5.05	4.89	5.54	5.25	5.49	4.71	11.85	5.14	5.83
8	4.20	4.29	4.22	5.12	4.75	5.92	5.30	5.33	4.69	13.06	5.02	5.65
9	4.21	4.36	4.27	5.89	4.79	8.41	5.20	6.03	4.67	15.67	5.70	5.42
10	4.19	5.14	4.20	5.54	4.70	6.40	5.12	10.78	4.63	15.08	5.18	5.32
11	4.20	5.12	4.22	5.25	4.63	5.93	5.04	10.81	4.71	10.49	5.02	5.26
12	4.20	4.77	4.22	5.17	4.50	6.11	4.98	7.49	4.89	7.11	5.17	5.14
13	4.20	4.58	4.24	4.97	4.63	8.95	4.91	6.36	5.51	6.48	5.25	5.03
14	4.19	4.48	4.26	4.90	4.55	7.90	4.87	6.08	6.02	6.09	4.98	5.07
15	4.17	4.44	4.27	5.44	4.51	6.68	4.85	6.25	5.51	5.84	4.86	4.95
16	4.16	4.41	4.28	5.85	4.91	6.43	4.83	5.76	5.20	5.64	4.77	4.87
17	4.18	4.39	4.32	5.59	5.13	6.11	4.83	5.58	5.01	5.48	4.83	4.84
18	4.19	4.36	4.78	5.43	4.92	5.84	4.80	5.51	4.89	5.38	4.72	4.81
19	4.40	4.37	6.14	5.40	4.54	5.79	4.77	5.40	4.81	5.26	4.63	4.75
20	4.22	4.33	6.32	5.19	4.46	5.90	4.79	5.31	4.71	5.17	4.62	4.74
21	4.21	4.34	5.53	4.99	4.49	6.44	4.80	5.20	4.63	5.32	4.58	4.73
22	4.18	4.44	5.15	4.96	5.44	6.08	4.76	5.11	4.60	5.33	4.58	5.33
23	4.18	4.38	4.91	4.89	6.19	5.64	4.71	5.05	4.57	5.44	4.51	5.48
24	4.16	4.39	4.81	4.99	5.76	5.44	4.70	4.99	4.48	5.23	4.52	5.28
25	4.24	4.39	4.71	4.89	5.30	5.44	4.82	4.94	4.48	5.07	4.43	5.25
26 27 28 29 30 31	4.33 4.32 4.27 4.28 4.30 4.24	4.37 4.35 4.33 4.31 4.30	4.69 4.56 4.60 4.57 5.82 7.56	4.81 4.89 4.91 4.87 4.82 4.80	5.13 4.98 4.93 	5.91 5.60 5.67 6.58 5.85 5.54	4.76 4.70 4.70 4.69 4.69	4.89 4.86 4.83 4.83 4.84 4.86	4.55 4.57 4.50 4.56 4.54	4.96 4.92 4.91 4.85 4.83 4.78	4.44 4.48 4.46 4.65 4.92 5.05	5.86 9.18 7.13 6.21 5.82
MEAN	4.22	4.42	4.72	5.30	4.95	6.07	4.94	5.74	4.81	6.93	5.04	6.54
MAX	4.40	5.14	7.56	7.35	6.19	8.95	5.40	10.81	6.02	15.67	7.01	19.06
MIN	4.16	4.26	4.20	4.80	4.46	4.73	4.69	4.83	4.48	4.50	4.43	4.73

CAL YR 2002 MEAN 5.06 MAX 14.94 MIN 4.14 WTR YR 2003 MEAN 5.31 MAX 19.06 MIN 4.16

03348000 WHITE RIVER AT ANDERSON, IN—Continued



03348130 WHITE RIVER AT RAIBLE AVENUE AT ANDERSON, IN

LOCATION.--Lat $40^{\circ}06^{\circ}38^{\circ}$, long $85^{\circ}42^{\circ}39^{\circ}$, in $NW^{1}_{4}SW^{1}_{4}$ sec.11, T.19 N., R.7 E., Madison County, Hydrologic Unit 05120201, (ANDERSON SOUTH, IN quadrangle), on the upstream side of bridge in southeast quadrant of Raible Avenue and White River, 0.3 mi upstream of waste-water treatment plant, 2 mi downstream of Killbuck Creek, and 3.0 mi downstream of the municipal power plant in Anderson.

DRAINAGE AREA.--519 mi² (estimated).

PERIOD OF RECORD.--September 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is 816.54 ft above National Geodetic Vertical Datum of 1929 (based on Department of Natural Resources Benchmark MAD17 reset 1984).

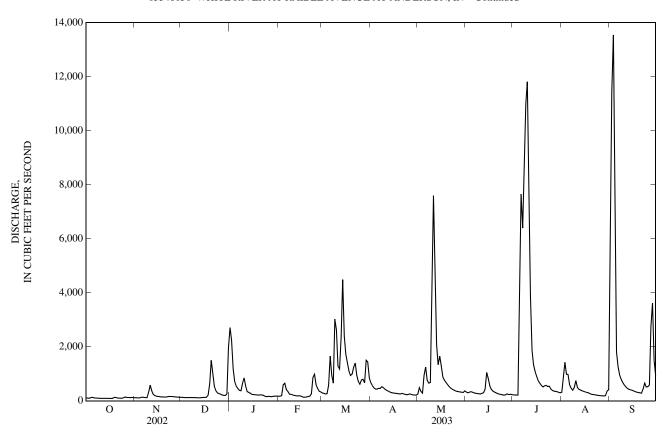
REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow maybe affected at times by upstream regulation.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	106	115	128	2,710	e172	291	670	249	329	217	315	4,180
2	99	114	126	2,240	e172	278	560	489	296	223	821	11,500
3	97	109	121	1,190	e190	253	481	353	321	212	1,430	13,500
4	112	109	119	716	596	267	434	288	336	214	987	5,060
5	131	119	122	543	652	577	432	938	317	3,650	974	1,800
6	110	136	120	452	415	1,650	465	1,250	293	7,660	597	1,250
7	105	128	126	387	343	950	457	768	280	6,390	468	958
8	101	119	118	373	e250	655	523	656	270	8,230	395	798
9	98	117	117	642	e240	3,020	486	675	264	11,000	492	678
10	92	323	120	847	e220	2,620	431	3,520	250	11,800	750	584
11	93	582	113	549	e200	1,290	392	7,590	280	9,420	499	513
12	92	367	113	e340	e190	1,180	363	5,390	296	3,890	423	459
13	92	236	111	e310	e180	2,380	331	2,080	423	1,860	e400	424
14	91	193	122	e280	e190	4,490	305	1,340	1,050	1,330	e370	407
15	91	172	128	e240	e180	2,390	293	1,650	839	1,080	e350	387
16	89	163	127	e230	e154	1,730	285	1,300	557	898	e330	365
17	89	154	131	e225	e134	1,420	279	886	427	741	e310	339
18	90	146	207	e219	e134	1,110	270	768	361	649	e300	321
19	127	146	637	e214	e145	936	259	684	325	572	264	307
20	125	143	1,500	e220	e160	985	253	604	295	512	244	295
21	106	139	1,020	e219	e174	1,240	276	530	268	553	234	283
22	101	151	536	e210	e260	1,400	255	471	249	571	226	445
23	97	162	369	e180	857	948	239	432	237	529	215	658
24	94	160	294	e154	982	711	225	400	224	543	204	516
25	113	160	267	e160	593	614	240	371	211	438	196	521
26 27 28 29 30 31	139 126 126 117 126 120	153 146 140 136 133	245 215 200 197 254 1,950	e170 e150 e160 e170 e174 e175	459 353 328 	771 798 667 1,500 1,440 851	255 235 219 217 211	350 e340 e330 e320 308 367	218 258 230 241 236	386 358 349 337 314 296	190 185 182 e196 e360 411	584 2,750 3,620 1,480 944
TOTAL	3,295	5,171	9,953	14,849	8,923	39,412	10,341	35,697	10,181	75,222	13,318	55,926
MEAN	106	172	321	479	319	1,271	345	1,152	339	2,427	430	1,864
MAX	139	582	1,950	2,710	982	4,490	670	7,590	1,050	11,800	1,430	13,500
MIN	89	109	111	150	134	253	211	249	211	212	182	283
				A FOR WATE				,				
MEAN	579	281	554	315	649	774	830	1,074	450	868	280	653
MAX	1,712	547	1,258	479	1,011	1,271	1,661	1,886	577	2,427	430	1,864
(WY)	(2002)	(2002)	(2002)	(2003)	(2002)	(2003)	(2002)	(2002)	(2000)	(2003)	(2003)	(2003)
MIN	90.9	93.4	126	110	319	325	345	421	339	212	157	120
(WY)	(2000)	(2000)	(2000)	(2000)	(2003)	(2000)	(2003)	(2000)	(2003)	(2002)	(2002)	(2002)
SUMMA	RY STATIS	STICS		FOR 2002 CALENDAR YEAR			FOR 200	3 WATER Y	/EAR	WATER YEARS 1999 - 2003		
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			IUM	227,574 623 10,300 May 14 83 Sep 12 86 Sep 12 1,410 267 106			282,288 773 13,500 Sep 3 89 Oct 16 91 Oct 12 15,200 Sep 3 17.24 Sep 3 1,420 310 120			13,5 15,2 1,2	74 J. 77 C. 200 Se	2002 2000 ep 3, 2003 an 22, 2000 ect 26, 1999 ep 3, 2003 ep 3, 2003

e Estimated

03348130 WHITE RIVER AT RAIBLE AVENUE AT ANDERSON, IN—Continued

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03348350 PIPE CREEK AT FRANKTON, IN

LOCATION.--Lat $40^{\circ}13'38''$, long $85^{\circ}45'58''$, in $SE^{1}_{4}NE^{1}_{4}$ sec. 31, T.21 N., R.7 E., Madison County, Hydrologic Unit 05120201, (FRANKTON, IN quadrangle), on right bank 20 ft downstream from bridge on County Road 500 West, at northeast edge of Frankton, 1.88 mi downstream of Plummer Brook mouth, and at mile 10.35.

DRAINAGE AREA.--113 mi².

PERIOD OF RECORD .-- May 1968 to October 2003 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 810.00 ft above National Geodetic Vertical Datum of 1929.

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

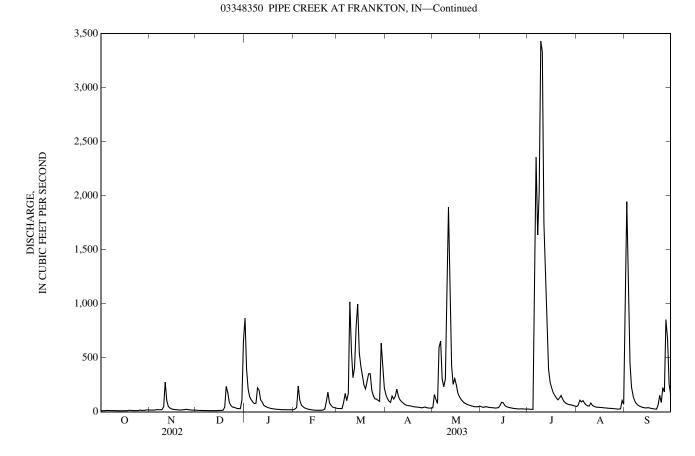
EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of June 10, 1958, reached a stage of 15.5 ft, from floodmark determined by State of Indiana, Department of Natural Resources, discharge, 4,900 ft³/s.

DISCHARGE CURIC FEET BED SECOND

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	10 10 10 11 11	17 16 15 17 18	15 13 13 14 12	866 397 209 139 110	e20 e27 39 239 e110	e32 e31 e30 e30 87	162 122 98 87 147	38 160 115 77 597	47 42 44 48 45	26 25 23 22 1,490	50 63 107 92 103	635 1,950 1,050 451 229
6 7 8 9 10	12 12 11 11	21 19 19 21 47	12 12 12 11 11	90 77 80 222 200	e64 e47 e37 e31 e26	171 104 170 1,020 563	119 143 210 144 112	656 307 233 304 1,260	41 39 38 37 35	2,360 1,640 2,030 3,430 3,330	80 64 55 54 81	147 103 78 63 53
11 12 13 14 15	10 10 9.9 9.7	276 103 50 35 28	11 11 11 12 12	109 e90 e60 e50 e43	e23 e20 e18 e16 e15	316 409 793 998 548	95 82 69 62 59	1,890 999 428 255 307	36 40 59 88 84	1,740 1,310 774 393 272	60 50 45 43 42	47 41 38 36 38
16 17 18 19 20	10 10 10 15 13	24 22 20 18 17	12 13 16 43 236	e38 e33 e30 e28 e26	e15 e14 e14 e15 e18	426 338 251 213 285	56 54 50 47 45	253 176 140 116 100	59 48 43 40 36	221 175 149 128 110	40 40 38 36 35	38 34 30 28 26
21 22 23 24 25	12 11 11 11 13	16 18 19 23 22	174 85 58 45 42	e24 e23 e22 e21 e20	e25 97 181 81 e60	353 353 201 148 120	44 42 39 37 41	85 75 69 63 58	33 31 30 28 27	128 151 116 93 80	34 33 32 30 29	24 64 152 86 225
26 27 28 29 30 31	17 13 13 14 18 18	19 18 16 15 16	36 31 29 30 107 655	e20 e20 e19 e19 e19 e19	e44 e39 e35 	119 106 97 637 437 221	44 39 36 35 34	54 50 48 47 46 53	27 28 26 25 26	72 67 65 62 57 53	28 26 25 28 105 71	185 853 680 256 159
TOTAL MEAN MAX MIN CFSM IN.	369.6 11.9 18 9.7 0.11 0.12	985 32.8 276 15 0.29 0.32	1,794 57.9 655 11 0.51 0.59	3,123 101 866 19 0.89 1.03	1,370 48.9 239 14 0.43 0.45	9,607 310 1,020 30 2.74 3.16	2,354 78.5 210 34 0.69 0.77	9,059 292 1,890 38 2.59 2.98	1,230 41.0 88 25 0.36 0.40	20,592 664 3,430 22 5.88 6.78	1,619 52.2 107 25 0.46 0.53	7,799 260 1,950 24 2.30 2.57
MEAN MAX (WY) MIN (WY)	40.3 410 (2002) 3.66 (2000)	87.7 519 (1993) 6.71 (1998)	125 482 (1991) 7.31 (1977)	125 409 (1974) 5.29 (1977)	157 416 (1990) 16.5 (1995)	1969 - 2003, 197 544 (1982) 42.4 (1981)	167 467 (1972) 33.3 (1971)	R YEAR (W 113 325 (2002) 19.1 (1976)	121 409 (1980) 10.3 (1988)	87.1 664 (2003) 7.94 (1977)	45.7 250 (1998) 4.97 (1988)	48.1 529 (1989) 3.23 (1999)
SUMMAI	RY STATIS	TICS		FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	EAR	WATER '	YEARS 196	59 - 2003
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST ADAILY MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS			UM	39,414.7 108 2,680 May 13 7.7 Sep 12 8.5 Sep 11 0.96 12.98 229			59,901.6 164 3,430 Jul 9 9.7 Oct 14 9.9 Oct 11 4,170 Jul 9 13.77 Jul 9 1.45 19.72 344			109 180 1973 32.7 1977 3,840 Jul 14, 1992 2.0 Sep 27, 1999 2.2 Sep 22, 1999 5,630 Jul 13, 1992 15.00 0.97 13.13 251		
50 PERCENT EXCEEDS 30 44 40 90 PERCENT EXCEEDS 11 13 9.1												

e Estimated

193



03349000 WHITE RIVER AT NOBLESVILLE, IN

LOCATION.—Lat 40°02'50", long 86°01'00", in SE \(^1_2\)4SE \(^1_4\) sec.36, T.19 N., R.4 E., Hamilton County, Hydrologic Unit 05120201, (NOBLESVILLE, IN quadrangle), on right bank at downstream side of Logan Street bridge in Noblesville, 1.5 mi upstream from Cicero Creek, 5.1 mi downstream from dam at Clare, and at mile 263.5.

DRAINAGE AREA.--858 mi².

PERIOD OF RECORD.--October 1946 to current year. Gage-height records collected at present site from December 1913 to December 1935, and at site 400 ft downstream January 1936 to May 1951, are contained in reports of National Weather Service. Prior to October 1948, published as West Fork White River at Noblesville.

REVISED RECORDS.--WSP 1335: 1949. WSP 2109: Drainage area. WDR IN-94-1: 1993 (M).

GAGE.--Water-stage recorder. Datum of gage is 738.16 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow partially regulated by powerplant above station.

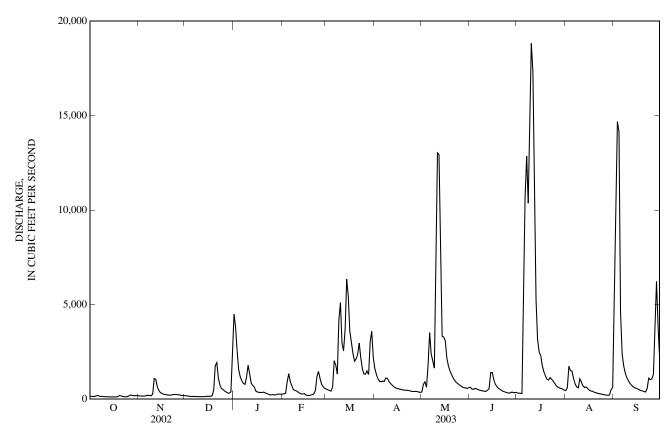
DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

OCT NOV DAY DEC **FEB** JUN ш. AUG SEP JAN MAR APR MAY 174 4,500 268 1,610 377 331 455 4,450 630 2 148 170 174 3,830 280 489 1,310 783 536 321 605 11,500 2,530 1,080 3 921 518 312 1,750 14,700 136 169 160 316 460 4 144 161 144 1,560 938 423 946 634 570 296 1,510 14,100 5 144 643 917 1,780 549 3,500 179 167 1.180 1.340 1,480 4,650 6 190 189 146 969 919 2.030 954 3.520 501 10,700 1.100 2,410 208 932 2,400 473 1,780 154 141 822 700 1.820 12,900 805 784 1,330 1.120 2,030 10,400 8 147 195 140 e500 451 652 1.390 1,160 e460 1,090 1,640 9 141 182 137 1.170 4.170 437 14.700 598 10 136 269 129 1.800 e430 5.100 939 6,280 418 18.800 1.080 975 e370 127 2.990 17.300 11 1.090 132 1.330 832 13,000 411 904 836 12 126 e1,050 136 e840 e310 2,560 752 12,900 478 12,100 693 738 13 125 e657 136 e720 e280 3,720 673 7,250 553 5,250 621 662 14 121 e455 140 e640 e275 6,340 606 3,330 1,400 3,160 642 601 15 122 e345 156 e420 e295 5,440 568 3,280 569 586 1,420 2,490 16 121 295 155 e380 e220 3,610 550 3,110 1,040 2,300 475 541 497 17 118 264 153 e360 e200 3,010 530 2,180 794 1,770 437 119 176 e350 513 1,750 421 454 18 246 e195 2,430 664 1,450 230 481 486 579 377 428 19 149 e360 e210 2.000 1.510 1.230 20 193 1,760 2,120 478 1,300 519 1,050 404 219 341 e370 e240 21 211 1 930 2 360 473 382 e164 e330 e280 1.130 460 1.010 319 22 221 2.960 e144 1,110 e290 e460 471 991 414 1.150 300 553 23 239 e260 893 e130 745 1.180 2.200 450 386 1.050 282 1.110 24 e120 248 568 e225 1,470 1,610 424 820 359 954 262 1,030 25 143 248 502 e230 1,070 1,330 411 755 331 824 247 1,070 26 188 429 e240 785 1,320 410 697 708 229 1,300 314 223 e220 1,490 217 378 649 410 643 367 630 216 4,160 28 208 405 189 326 e240 574 1,300 603 366 593 208 6,230 316 e270 29 3,040 569 223 3,800 190 195 373 594 335 30 185 191 387 264 3,590 362 560 361 524 510 2,150 ---31 192 2,390 265 2,190 615 483 604 TOTAL 4,732 14,005 27,749 21,075 16,634 8,966 15,214 74.606 78.276 128.855 18.915 84,647 895 MEAN 153 299 452 543 2,407 702 2.525 554 4.157 610 2.822 1,470 1,090 2,390 4,500 13,000 1,420 14,700 MAX 217 6,340 1,610 18,800 1,750 118 220 MIN 161 129 195 423 362 377 314 296 208 382 1.04 **CFSM** 0.18 0.35 0.53 0.63 2.80 0.82 2 94 0.65 4.84 0.71 3.29 3.39 IN. 0.21 0.39 0.61 1.20 0.66 3.23 0.91 0.725.59 0.82 3.67 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2003, BY WATER YEAR (WY) **MEAN** 321 590 867 1.131 1,263 1.560 1,484 1,029 901 636 366 346 MAX 2,845 3,359 3,472 6,494 3,485 3,732 4,281 3,236 4,432 4,157 2,264 3,143 (WY) (2002)(1994)(1991)(1950)(1950)(1978)(1964)(2002)(1958)(1979)(1989)(2003)93.8 MIN 88.4 109 102 322 249 69.3 107 141 368 143 138 (1964)(1964)(1964)(1977)(1981)(1971)(1988)(1988)(1988)(WY) (1964)(1966)(1954)

03349000 WHITE RIVER AT NOBLESVILLE, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	ENDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEARS 1947 - 2003		
ANNUAL TOTAL	365,988		493,674				
ANNUAL MEAN	1,003		1,353		872		
HIGHEST ANNUAL MEAN					1,455	1950	
LOWEST ANNUAL MEAN					266	1954	
HIGHEST DAILY MEAN	16,900	May 14	18,800	Jul 10	25,400	Dec 31, 1990	
LOWEST DAILY MEAN	59	Sep 12	118	Oct 17	44	Sep 28, 1954	
ANNUAL SEVEN-DAY MINIMUM	67	Sep 11	122	Oct 12	58	Sep 23, 1954	
MAXIMUM PEAK FLOW		-	20,400	Jul 10	27,000	Dec 31, 1990	
MAXIMUM PEAK STAGE			21.86	Jul 10	21.86	Jul 10, 2003	
ANNUAL RUNOFF (CFSM)	1.17		1.58		1.02		
ANNUAL RUNOFF (INCHES)	15.87		21.40		13.81		
10 PERCENT EXCEEDS	2,240		3,020		1,960		
50 PERCENT EXCEEDS	413		531		410		
90 PERCENT EXCEEDS	136		163		139		

e Estimated



[(National Water-Quality Assessment Program White River Basin, Miami River Basin Study Unit]

WATER-QUALITY RECORDS

These data described in the following table were collected and analyzed as part of the National Water Quality Assessment Program (NAWQA) in the White River Basin, Miami River Basin (WHMI) study units. The objectives of the NAWQA program are to broadly characterize the water-quality of the Nation's streams and aquifers in relation to human and natural factors. This project is one of 42 river basin and aquifer assessment projects being implemented across the nation on a staggered timeline. During the second decade of sampling, 14 of these projects will be actively collecting data. The period of high-intensity data collection for the WHMI project is in water years 2001-2004.

Water quality data from White River, W Bank, 1 RMI US 116th St at Fishers, IN are being reported as part of the Source Water- Quality Assessment (SWQA). The SWQA is a two year study beginning in October 2002. The first year's research will discover the presence and quantity of specific constituents in the water. The follow up year will focus on source water versus treated water comparisons to characterize which, if any, of the most frequently detected compounds in source water are not sufficiently removed by treatment processes and to help identify those treatment processes and (or) systems that are effective at removing select contaminants.

(---, no data; <, concentration or value reported is less than that indicated; E, estimated value; K, value is estimated from a non-ideal colony count; M, presence verified, not quantified)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

1-

Date	Time	Instantaneous discharge, cfs (00061)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Organic carbon, water, fltrd, mg/L (00681)	E coli, modif. m-TEC, water, col/ 100 mL (90902)	1,4-Di- chloro- benzene water, fltrd, ug/L (34572)	Methyl- naphth- alene, water, fltrd, ug/L (62054)	1-Naph- thol, water, fltrd 0.7u GF ug/L (49295)
OCT													
31	1330	224	752	13.3	8.4	1,080	8.0	8.9	3.6	15	< 0.5	< 0.5	< 0.09
NOV	1020	5.4.4	745	0.1	7.0	(50	10.0	0.0	()	110	.0.5	-0.5	-0.00
14 DEC	1030	544	745	9.1	7.8	652	12.0	9.0	6.3	110	< 0.5	< 0.5	< 0.09
17	1130	222	751	16.5	8.5	1,030	2.0	2.4	3.4	120	< 0.5	< 0.5	< 0.09
JAN													
10	1030	2,330	746	12.2	8.2	700	4.0	3.9	3.9	460	< 0.5	< 0.5	< 0.09
29	1010	405	755	12.8	8.2	923	2.0	3.2	2.8	110	< 0.5	< 0.5	< 0.09
FEB													
11	1045	601	748	15.9	8.3	797	<-5.0	1.4	3.1	100	< 0.5	< 0.5	< 0.09
27	1130	900	751	15.5	8.2	681	0.0	1.0	4.5	66	< 0.5	< 0.5	< 0.09
MAR	00.50	2.250	722	11.6	0.0	520	10.0	7.0		220	0.5	0.5	
18	0950	3,350	733	11.6	8.0	528	19.0	7.8	5.2	230	< 0.5	< 0.5	
APR	1040	818	740	12.6	9.0	727	20.0	12.6	4.4		-0.5	-0.5	-0.00
14 MAY	1040	010	749	12.6	8.0	727	28.0	12.6	4.4		< 0.5	< 0.5	< 0.09
07	1000	3,940	734	8.2	7.8	504	23.0	17.0	5.8	1,800	< 0.5	< 0.5	< 0.09
19	1130	2,120	741	8.4	7.8	590	20.0	16.9	4.2	260	<0.5	<0.5	< 0.09
JUN	1130	2,120	771	0.4	1.5	370	20.0	10.7	7.2	200	<0.5	<0.5	<0.07
10	1130	571	735		8.0	775	23.0	19.2	3.0	160	< 0.5	< 0.5	< 0.09
27	1030	429	738	8.8	8.3	799	25.0	23.6	3.1	140	<0.5	<0.5	< 0.09
JUL	1030	127	750	0.0	0.5	,,,,	23.0	23.0	5.1	110	νο.5	٧٥.5	νο.σο
07	1140	16,600	732	5.6	7.6	316	32.0	23.8	7.6	770	< 0.5	< 0.5	< 0.09
30	1140	741	736	8.3	8.1	708	26.0	23.0	3.4	56	< 0.5	< 0.5	< 0.09
AUG													
13	0940	793	747	7.4	8.0	640	24.0	22.4	3.8	120	< 0.5	< 0.5	< 0.09
SEP													
10	0920	1,490	744	8.1	7.9	610	23.5	21.0	4.0	180	< 0.5	< 0.5	< 0.09

Date	2,4-D water, fltrd, ug/L (50470)	2,4-D water, fltrd, ug/L (39732)	2,4-DB water, fltrd 0.7u GF ug/L (38746)	2,6-Diethylaniline water fltrd 0.7u GF ug/L (82660)	2,6-Dimethyl-naphthalene, water, fltrd, ug/L (62055)	2-[(2- Et-6-Me -Ph)- -amino] propan- 1-ol, ug/L (61615)	2Chloro -2,6'-' diethyl acet- anilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)	CEAT, water, fltrd, ug/L (04038)	2-Ethyl -6- methyl- aniline water, fltrd, ug/L (61620)	OIET, water, fltrd, ug/L (50355)	2- Methyl- naphth- alene, water, fltrd, ug/L (62056)	3,4-Di- chloro- aniline water fltrd, ug/L (61625)
OCT 31	< 0.009	0.05	< 0.02	< 0.006	< 0.5	< 0.1	< 0.005	E0.015	< 0.04	< 0.004	E0.056	< 0.5	< 0.004
NOV 14	< 0.009	0.15	< 0.02	< 0.006	< 0.5	< 0.1	< 0.005	E0.050	E0.04	< 0.004	E0.160	< 0.5	< 0.006
DEC 17	< 0.009	0.03	< 0.02	< 0.006	< 0.5	< 0.1	< 0.005	E0.010	< 0.04	< 0.004	E0.042	< 0.5	0.012
JAN 10 29	<0.009 <0.009	0.06 0.02	<0.02 <0.02	<0.006 <0.006	<0.5 <0.5	<0.1 <0.1	<0.005 <0.005	E0.116 E0.063	E0.03 E0.02	<0.004 <0.004	E0.212 E0.070	<0.5 <0.5	0.008 0.014
FEB 11 27	<0.009 <0.009	0.04 0.13	<0.02 <0.02	<0.006 <0.006	<0.5 <0.5	<0.1 <0.1	<0.005 <0.005	E0.063 E0.057	E0.02 E0.02	<0.004 <0.004	E0.124 E0.131	<0.5 <0.5	0.007 0.005
MAR 18 APR	< 0.009	0.06	< 0.02		< 0.5				E0.01		E0.130	< 0.5	
14 MAY	< 0.009	E0.02	< 0.02	< 0.006	< 0.5	< 0.1	< 0.005	E0.025	E0.01	< 0.004	E0.063	< 0.5	E0.004
07 19 JUN	E0.209 <0.009	E1.18 0.18	<0.02 <0.02	<0.006 <0.006	<0.5 <0.5	<0.1 <0.1	<0.005 <0.005	E0.482 E0.541	E0.40 E0.21	<0.004 <0.004	E1.65 E0.317	<0.5 <0.5	0.007 <0.004
10 27 JUL	<0.009 <0.009	0.08 0.12	<0.02 <0.02	<0.006 <0.006	<0.5 <0.5	<0.1 <0.1	<0.005 <0.005	E0.132 E0.138	E0.07 E0.05	<0.004 <0.004	E0.154 E0.320	<0.5 <0.5	E0.004 <0.006
07 30 AUG	<0.009 <0.009	0.17 0.03	<0.02 <0.02	<0.006 <0.006	<0.5 <0.5	<0.1	<0.005 <0.005	E0.453 E0.114	E0.015 E0.04	E0.002 E0.001	E1.59 E0.232	<0.5 <0.5	<0.004 0.005
13 SEP	< 0.009	0.14	< 0.02	< 0.006	< 0.5	< 0.1	< 0.005	E0.128	E0.06	E0.001	E0.226	< 0.5	E0.004
10	< 0.009	< 0.02	< 0.02	< 0.006	< 0.5	< 0.1	< 0.005	E0.078	E0.04	< 0.004	E0.233	< 0.5	< 0.004
			WATER-0	QUALITY	DATA, WA	ATER YEA	R OCTOB	ER 2002 TO) SEPTEM	BER 2003			
Date	3-beta- Copros- tanol, water, fltrd, ug/L (62057)	3- Hydroxy carbo- furan, wat flt 0.7u GF ug/L (49308)	3-Keto-carbo-furan, water, fltrd, ug/L (50295)	3- Methyl- 1H- indole, water, fltrd, ug/L (62058)	3-tert- Butyl- 4-hy- droxy- anisole wat flt ug/L (62059)	4Chloro 2methyl phenol, water, fltrd, ug/L (61633)	4- Cumyl- phenol, water, fltrd, ug/L (62060)	4- Octyl- phenol, water, fltrd, ug/L (62061)	4- Nonyl- phenol, water, fltrd, ug/L (62085)	4-tert- Octyl- phenol, water, fltrd, ug/L (62062)	5-Meth- yl-1H- benzo- tri- azole, wat flt ug/L (62063)	9,10- Anthra- quinone water, fltrd, ug/L (62066)	Aceto- chlor ESA, water, fltrd 0.7u GF ug/L (61029)
OCT 31	Coprostanol, water, fltrd, ug/L	Hydroxy carbo- furan, wat flt 0.7u GF ug/L	3-Keto- carbo- furan, water, fltrd, ug/L	3- Methyl- 1H- indole, water, fltrd, ug/L	3-tert- Butyl- 4-hy- droxy- anisole wat flt ug/L	4Chloro 2methyl phenol, water, fltrd, ug/L	4- Cumyl- phenol, water, fltrd, ug/L	4- Octyl- phenol, water, fltrd, ug/L	4- Nonyl- phenol, water, fltrd, ug/L	4-tert- Octyl- phenol, water, fltrd, ug/L	yl-1H- benzo- tri- azole, wat flt ug/L	Anthra- quinone water, fltrd, ug/L	chlor ESA, water, fltrd 0.7u GF ug/L
OCT 31 NOV 14	Coprostanol, water, fltrd, ug/L (62057)	Hydroxy carbo- furan, wat flt 0.7u GF ug/L (49308)	3-Keto- carbo- furan, water, fltrd, ug/L (50295)	3- Methyl- 1H- indole, water, fltrd, ug/L (62058)	3-tert- Butyl- 4-hy- droxy- anisole wat flt ug/L (62059)	4Chloro 2methyl phenol, water, fltrd, ug/L (61633)	4- Cumyl- phenol, water, fltrd, ug/L (62060)	4- Octyl- phenol, water, fltrd, ug/L (62061)	4- Nonyl- phenol, water, fltrd, ug/L (62085)	4-tert- Octyl- phenol, water, fltrd, ug/L (62062)	yl-1H- benzo- tri- azole, wat flt ug/L (62063)	Anthraquinone water, fltrd, ug/L (62066)	chlor ESA, water, fltrd 0.7u GF ug/L (61029)
OCT 31 NOV 14 DEC 17	Coprostanol, water, fltrd, ug/L (62057)	Hydroxy carbo- furan, wat flt 0.7u GF ug/L (49308)	3-Keto- carbo- furan, water, fltrd, ug/L (50295)	3- Methyl- 1H- indole, water, fltrd, ug/L (62058)	3-tert- Butyl- 4-hy- droxy- anisole wat flt ug/L (62059)	4Chloro 2methyl phenol, water, fltrd, ug/L (61633)	4- Cumyl- phenol, water, fltrd, ug/L (62060)	4- Octyl- phenol, water, fltrd, ug/L (62061)	4- Nonyl- phenol, water, fltrd, ug/L (62085)	4-tert- Octyl- phenol, water, fltrd, ug/L (62062)	yl-1H- benzo- tri- azole, wat flt ug/L (62063)	Anthraquinone water, fltrd, ug/L (62066)	chlor ESA, water, fltrd 0.7u GF ug/L (61029) <0.05
OCT 31 NOV 14 DEC 17 JAN 10 29	Coprostanol, water, fltrd, ug/L (62057) M	Hydroxy carbo- furan, wat flt 0.7u GF ug/L (49308) <0.006	3-Keto-carbo-furan, water, fltrd, ug/L (50295)	3- Methyl- 1H- indole, water, fltrd, ug/L (62058)	3-tert- Butyl- 4-hy- droxy- anisole wat flt ug/L (62059) <5	4Chloro 2methyl phenol, water, fltrd, ug/L (61633) <0.006	4- Cumyl- phenol, water, fltrd, ug/L (62060)	4- Octyl- phenol, water, fltrd, ug/L (62061)	4- Nonyl- phenol, water, fltrd, ug/L (62085)	4-tert-Octyl-phenol, water, fltrd, ug/L (62062)	yl-1H- benzo- tri- azole, wat flt ug/L (62063)	Anthraquinone water, fltrd, ug/L (62066) <0.5	chlor ESA, water, fltrd 0.7u GF ug/L (61029) <0.05
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27	Coprostanol, water, fltrd, ug/L (62057) M M <2 <2	Hydroxy carbo- furan, wat flt 0.7u GF ug/L (49308) <0.006 <0.006 <0.006	3-Keto-carbo-furan, water, fltrd, ug/L (50295)	3- Methyl- 1H- indole, water, fltrd, ug/L (62058) <1 <1 <1	3-tert-Butyl- 4-hy-droxy-anisole wat fit ug/L (62059) <5 <5 <5 <5	4Chloro 2methyl phenol, water, fltrd, ug/L (61633) <0.006 <0.006 <0.006	4- Cumyl- phenol, water, fltrd, ug/L (62060) <1 <1 <1	4- Octyl- phenol, water, fltrd, ug/L (62061) <1 <1 <1 <1	4- Nonyl- phenol, water, fltrd, ug/L (62085) E1 E1 <5	4-tert-Octyl-phenol, water, fltrd, ug/L (62062) <1 <1 <1 <1	yl-1H-benzo- tri- azole, wat flt ug/L (62063)	Anthraquinone water, fltrd, ug/L (62066) <0.5 <0.5 <0.5	chlor ESA, water, fltrd 0.7u GF ug/L (61029) <0.05 0.62 <0.05
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18	Coprostanol, water, fltrd, ug/L (62057) M M <	Hydroxy carbo- furan, wat flt 0.7u GF ug/L (49308) <0.006 <0.006 <0.006 <0.006	3-Keto-carbo-furan, water, fltrd, ug/L (50295) <2 <2 <2 <2 <2 <2 <2 <2 <2	3- Methyl- 1H- indole, water, fltrd, ug/L (62058) <1 <1 <1 <1	3-tert-Butyl- 4-hy-droxy-anisole wat flt ug/L (62059) <5 <5 <5 <5 <5 <5	4Chloro 2methyl phenol, water, fltrd, ug/L (61633) <0.006 <0.006 <0.006 <0.006 <0.006	4- Cumyl- phenol, water, fltrd, ug/L (62060) <1 <1 <1 <1 <1	4- Octyl- phenol, water, fltrd, ug/L (62061) <1 <1 <1 <1 <1	4- Nonyl- phenol, water, fltrd, ug/L (62085) E1 E1 <5 <5 <5	4-tert-Octyl-phenol, water, fltrd, ug/L (62062) <1 <1 <1 <1 <1 <1 <1 <1 <1	yl-1H- benzo- tri- azole, wat flt ug/L (62063) <2 <2 <2 <2 <2 <2 <2 <2 <2	Anthraquinone water, fltrd, ug/L (62066) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	chlor ESA, water, fltrd 0.7u GF ug/L (61029) <0.05 0.62 <0.05 0.22 0.09 0.19
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14	Coprostanol, water, fltrd, ug/L (62057) M M <-2 <-2 <-2 <-2 <-2 <-2	Hydroxy carbo- furan, wat flt 0.7u GF ug/L (49308) <0.006 <0.006 <0.006 <0.006 <0.006	3-Keto-carbo-furan, water, fltrd, ug/L (50295) <2 <2 <2 <2 <2 <2 <2 <2 <2	3- Methyl- 1H- indole, water, fltrd, ug/L (62058) <1 <1 <1 <1 <1 <1	3-tert-Butyl- 4-hy-droxy-anisole wat fit ug/L (62059) <5 <5 <5 <5 <5 <5 <5	4Chloro 2methyl phenol, water, fltrd, ug/L (61633) <0.006 <0.006 <0.006 <0.006 <0.006	4- Cumyl- phenol, water, fltrd, ug/L (62060) <1 <1 <1 <1 <1 <1 <1	4- Octyl- phenol, water, fltrd, ug/L (62061) <1 <1 <1 <1 <1 <1 <1 <1	4- Nonyl- phenol, water, fltrd, ug/L (62085) E1 E1 <5 <5 <5 <5	4-tert-Octyl-phenol, water, fltrd, ug/L (62062) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	yl-1H-benzo- tri- azole, wat flt ug/L (62063) <2 <2 <2 <2 <2 <2 <2 <2 <2	Anthraquinone water, fltrd, ug/L (62066) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	chlor ESA, water, filtrd 0.7u GF ug/L (61029) <0.05 0.62 <0.05 0.22 0.09 0.19 0.11
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14 MAY 07	Coprostanol, water, fltrd, ug/L (62057) M M <	Hydroxy carbo- furan, wat flt 0.7u GF ug/L (49308) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006	3-Keto-carbo-furan, water, fltrd, ug/L (50295) <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	3- Methyl- 1H- indole, water, fltrd, ug/L (62058) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	3-tert-Butyl- 4-hy-droxy- anisole wat flt ug/L (62059) <5 <5 <5 <5 <5 <5 <5 <5 <5	4Chloro 2methyl phenol, water, fltrd, ug/L (61633) <0.006 <0.006 <0.006 <0.006 <0.006	4- Cumyl- phenol, water, fltrd, ug/L (62060) <1 <1 <1 <1 <1 <1 <1	4- Octyl- phenol, water, fltrd, ug/L (62061) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	4- Nonyl- phenol, water, fltrd, ug/L (62085) E1 E1 <5 <5 <5 <5 <5	4-tert-Octyl-phenol, water, fltrd, ug/L (62062) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	yl-1H-benzo- tri- azole, wat flt ug/L (62063) <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	Anthraquinone water, fltrd, ug/L (62066) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	chlor ESA, water, fltrd 0.7u GF ug/L (61029) <0.05 0.62 <0.05 0.22 0.09 0.19 0.11 0.22
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14 MAY 07 19 JUN 10 27	Coprostanol, water, fltrd, ug/L (62057) M M <	Hydroxy carbo- furan, wat flt 0.7u GF ug/L (49308) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006	3-Keto-carbo-furan, water, fltrd, ug/L (50295) <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	3- Methyl- 1H- indole, water, fltrd, ug/L (62058) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	3-tert-Butyl- 4-hy-droxy-anisole wat fit ug/L (62059) <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5	4Chloro 2methyl phenol, water, fltrd, ug/L (61633) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006	4- Cumyl- phenol, water, fltrd, ug/L (62060) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	4- Octyl- phenol, water, fltrd, ug/L (62061) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	4- Nonyl- phenol, water, fltrd, ug/L (62085) E1 E1 <5 <5 <5 <5 E2 E1	4-tert-Octyl-phenol, water, fltrd, ug/L (62062) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	yl-1H-benzo- tri- azole, wat flt ug/L (62063) <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	Anthraquinone water, fltrd, ug/L (62066) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	chlor ESA, water, fltrd 0.7u GF ug/L (61029) <0.05 0.62 <0.05 0.19 0.11 0.22 0.13 0.90
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14 MAY 07 19 JUN 10 27 JUL 07 30	Coprostanol, water, fltrd, ug/L (62057) M M <-2 <-2 <-2 <-2 <-2 <-2 <-2 <-2 <-2 <-2	Hydroxy carbo-furan, wat flt 0.7u GF ug/L (49308) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006	3-Keto-carbo-furan, water, fltrd, ug/L (50295) <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	3- Methyl- 1H- indole, water, fltrd, ug/L (62058) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	3-tert-Butyl- 4-hy-droxy-anisole wat flt ug/L (62059) <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5	4Chloro 2methyl phenol, water, fltrd, ug/L (61633) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006	4- Cumyl- phenol, water, fltrd, ug/L (62060) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	4- Octyl- phenol, water, fltrd, ug/L (62061) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	4- Nonyl- phenol, water, fltrd, ug/L (62085) E1 E1 <5 <5 <5 <5 E2 E1 E3 <5	4-tert-Octyl-phenol, water, fltrd, ug/L (62062) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	yl-1H-benzo-tri-azole, wat flt ug/L (62063) <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	Anthraquinone water, fltrd, ug/L (62066) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	chlor ESA, water, fltrd 0.7u GF ug/L (61029) <0.05 0.62 <0.05 0.22 0.09 0.19 0.11 0.22 0.13 0.90 0.50 0.19
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14 MAY 07 19 JUN 10 27 JUL 07	Coprostanol, water, fltrd, ug/L (62057) M M <	Hydroxy carbo- furan, wat flt 0.7u GF ug/L (49308) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006	3-Keto-carbo-furan, water, fltrd, ug/L (50295) <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	3- Methyl- 1H- indole, water, fltrd, ug/L (62058) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	3-tert-Butyl- 4-hy-droxy- anisole wat flt ug/L (62059) <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5	4Chloro 2methyl phenol, water, fltrd, ug/L (61633) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006	4- Cumyl- phenol, water, fltrd, ug/L (62060) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	4- Octyl- phenol, water, fltrd, ug/L (62061) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	4- Nonyl- phenol, water, fltrd, ug/L (62085) E1 E1 <5 <5 <5 E2 E1 E3 <5 E2 E1 E3	4-tert-Octyl-phenol, water, fltrd, ug/L (62062) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	yl-1H-benzo-tri-azole, wat flt ug/L (62063) <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	Anthraquinone water, fltrd, ug/L (62066) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	chlor ESA, water, fltrd 0.7u GF ug/L (61029) <0.05 0.62 <0.05 0.22 0.09 0.11 0.22 0.13 0.90 0.50 0.19 0.22 1.42

				20/1LIII	D11111, 1111	iibit ibi	IK OCTOB	EK 2002 T	J DEI TEM	D21(2000			
Date	Aceto- chlor OA, water, fltrd 0.7u GF ug/L (61030)	Aceto- chlor, water, fltrd, ug/L (49260)	Aceto- phenone water, fltrd, ug/L (62064)	AHTN, water, fltrd, ug/L (62065)	Aci- fluor- fen, water, fltrd 0.7u GF ug/L (49315)	Ala- chlor ESA, water, fltrd 0.7u GF ug/L (50009)	Ala- chlor OA, water, fltrd 0.7u GF ug/L (61031)	Ala- chlor, water, fltrd, ug/L (46342)	Aldicarb sulfone water, fltrd 0.7u GF ug/L (49313)	Aldicarb sulf-oxide, wat flt 0.7u GF ug/L (49314)	Aldicarb, water, fltrd 0.7u GF ug/L (49312)	Anthracene, water, fltrd, ug/L (34221)	Atrazine, water, fltrd, ug/L (39632)
OCT 31	< 0.05	E0.005	< 0.5	M	< 0.007	0.11	0.05	< 0.004	< 0.02	< 0.008	< 0.04	< 0.5	0.069
NOV 14	0.71	0.238	< 0.5	E0.1	< 0.007	0.12	0.10	< 0.004	< 0.02	< 0.008	< 0.04	< 0.5	0.520
DEC 17	< 0.05	E0.003	< 0.5	E0.1	< 0.007	0.13	0.07	< 0.004	< 0.02	< 0.008	< 0.04	< 0.5	0.041
JAN 10 29 FEB	0.18 0.08	0.009 E0.005	<0.5 <0.5	E0.1 E0.2	<0.007 <0.007	0.14 0.06	0.09 0.08	0.005 <0.004	<0.02 <0.02	<0.008 <0.008	<0.04 <0.04	<0.5 <0.5	0.478 0.266
11 27 MAR	0.11 0.08	E0.004 E0.005	<0.5 <0.5	E0.2 E0.1	<0.007 <0.007	0.24 0.05	0.10 0.05	E0.002 0.005	<0.02 <0.02	<0.008 <0.008	<0.04 <0.04	<0.5 <0.5	0.275 0.215
18 APR	0.13		< 0.5	E0.1	< 0.007	0.12	0.06		< 0.02	< 0.008	< 0.04	< 0.5	
14 MAY	0.06	0.012	< 0.5	E0.1	< 0.007	0.11	0.06	0.005	< 0.02	< 0.008	< 0.04	< 0.5	0.111
07 19 JUN	1.15 0.90	4.32 0.678	<0.5 <0.5	E0.1 E0.1	<0.007 <0.007	0.11 0.15	0.06 0.08	<0.009 0.034	<0.02 <0.02	<0.008 <0.008	<0.04 <0.04	<0.5 <0.5	20.1 6.77
10 27 JUL	0.22 0.21	0.186 0.070	<0.5 <0.5	E0.1 M	<0.007 <0.007	<0.05 0.10	0.05 0.07	0.011 0.006	<0.02 <0.02	<0.008 <0.008	<0.04 <0.04	<0.5 <0.5	1.85 1.14
07 30 AUG	1.74 0.34	0.407 0.049	<0.5 <0.5	<0.5 E0.1	0.011 <0.007	0.13 0.12	0.13 0.09	0.087 0.017	<0.02 <0.02	<0.008 <0.008	<0.04 <0.04	<0.5 <0.5	3.44 0.597
13 SEP	0.41	0.034	< 0.5	E0.1	< 0.007	0.12	0.08	0.011	< 0.02	< 0.008	< 0.04	< 0.5	0.560
10	0.17	0.017	< 0.5	E0.1	< 0.007	0.08	< 0.05	0.007	< 0.02	< 0.008	< 0.04	< 0.5	0.358
			WATER-0	QUALITY	DATA, WA	TER YEA	R OCTOB	ER 2002 TO	O SEPTEM	BER 2003			
Date	Azin-phos-methyl oxon, water, fltrd, ug/L (61635)	Azin- phos- methyl, water, fltrd 0.7u GF ug/L (82686)	Bendio- carb, water, fltrd, ug/L (50299)	Ben- flur- alin, water, fltrd 0.7u GF ug/L (82673)	Benomyl water, fltrd, ug/L (50300)	Bensul- furon, water, fltrd, ug/L (61693)	Ben- tazon, water, fltrd 0.7u GF ug/L (38711)	Benzo- [a]- pyrene, water, fltrd, ug/L (34248)	Benzo- phenone water, fltrd, ug/L (62067)	beta- Sitos- terol, water, fltrd, ug/L (62068)	beta- Stigma- stanol, water, fltrd, ug/L (62086)	Bisphenol A, water, fltrd, ug/L (62069)	Bromacil, water, fltrd, ug/L (04029)
OCT 31	phos- methyl oxon, water, fltrd, ug/L	phos- methyl, water, fltrd 0.7u GF ug/L	Bendio- carb, water, fltrd, ug/L	Ben- flur- alin, water, fltrd 0.7u GF ug/L	Benomyl water, fltrd, ug/L	Bensul- furon, water, fltrd, ug/L	Ben- tazon, water, fltrd 0.7u GF ug/L	Benzo- [a]- pyrene, water, fltrd, ug/L	Benzo- phenone water, fltrd, ug/L	beta- Sitos- terol, water, fltrd, ug/L	Stigma- stanol, water, fltrd, ug/L	nol A, water, fltrd, ug/L	cil, water, fltrd, ug/L
OCT 31 NOV 14	phosmethyl oxon, water, fltrd, ug/L (61635)	phos- methyl, water, fltrd 0.7u GF ug/L (82686)	Bendio- carb, water, fltrd, ug/L (50299)	Ben- flur- alin, water, fltrd 0.7u GF ug/L (82673)	Benomyl water, fltrd, ug/L (50300)	Bensul- furon, water, fltrd, ug/L (61693)	Ben- tazon, water, fltrd 0.7u GF ug/L (38711)	Benzo- [a]- pyrene, water, fltrd, ug/L (34248)	Benzo- phenone water, fltrd, ug/L (62067)	beta- Sitos- terol, water, fltrd, ug/L (62068)	Stigma- stanol, water, fltrd, ug/L (62086)	nol A, water, fltrd, ug/L (62069)	cil, water, fltrd, ug/L (04029)
OCT 31 NOV 14 DEC 17	phosmethyl oxon, water, fltrd, ug/L (61635)	phos- methyl, water, fltrd 0.7u GF ug/L (82686)	Bendio- carb, water, fltrd, ug/L (50299)	Ben- flur- alin, water, fltrd 0.7u GF ug/L (82673)	Benomyl water, fltrd, ug/L (50300) <0.004	Bensul- furon, water, fltrd, ug/L (61693)	Ben- tazon, water, fltrd 0.7u GF ug/L (38711)	Benzo- [a]- pyrene, water, fltrd, ug/L (34248)	Benzo- phenone water, fltrd, ug/L (62067)	beta- Sitos- terol, water, fltrd, ug/L (62068)	Stigma- stanol, water, fltrd, ug/L (62086)	nol A, water, fltrd, ug/L (62069)	cil, water, fltrd, ug/L (04029)
OCT 31 NOV 14 DEC 17 JAN 10 29	phosmethyl oxon, water, fltrd, ug/L (61635) <0.02	phos- methyl, water, fltrd 0.7u GF ug/L (82686) <0.050	Bendio- carb, water, fltrd, ug/L (50299) <0.03	Ben- flur- alin, water, fltrd 0.7u GF ug/L (82673) <0.010	Benomyl water, fltrd, ug/L (50300) <0.004	Bensul- furon, water, fltrd, ug/L (61693) <0.02	Bentazon, water, fltrd 0.7u GF ug/L (38711) E0.01	Benzo-[a]- pyrene, water, fltrd, ug/L (34248) <0.5	Benzo- phenone water, fltrd, ug/L (62067) <0.5	beta- Sitos- terol, water, fltrd, ug/L (62068) M	Stigma- stanol, water, fltrd, ug/L (62086) M	nol A, water, fltrd, ug/L (62069) M M	cil, water, fltrd, ug/L (04029) <0.03 <0.03
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27	phosmethyl oxon, water, fltrd, ug/L (61635) <0.02 <0.02 <0.02 <0.02	phosmethyl, water, fltrd 0.7u GF ug/L (82686) <0.050 <0.050 <0.050 <0.050	Bendio- carb, water, fltrd, ug/L (50299) <0.03 <0.03	Ben-flur-alin, water, fltrd 0.7u GF ug/L (82673) <0.010 <0.010 <0.010	Benomyl water, fltrd, ug/L (50300) <0.004 <0.004 <0.004 <0.004	Bensul- furon, water, fltrd, ug/L (61693) <0.02 <0.02 <0.02	Bentazon, water, fltrd 0.7u GF ug/L (38711) E0.01 E0.01 E0.01	Benzo-[a]- pyrene, water, flttd, ug/L (34248) <0.5 <0.5 <0.5	Benzo- phenone water, fltrd, ug/L (62067) <0.5 <0.5	beta- Sitos- terol, water, fltrd, ug/L (62068) M M	Stigma- stanol, water, fltrd, ug/L (62086) M <2 E1 <2	noi A, water, fltrd, ug/L (62069) M M M	cil, water, fltrd, ug/L (04029) <0.03 <0.03 <0.03
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18	phosmethyl oxon, water, fltrd, ug/L (61635) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	phosmethyl, water, fltrd 0.7u GF ug/L (82686) <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	Bendio-carb, water, fltrd, ug/L (50299) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	Ben-flur-alin, water, fltrd 0.7u GF ug/L (82673) <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	Benomyl water, fltrd, ug/L (50300) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Bensul- furon, water, fltrd, ug/L (61693) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	Ben- tazon, water, fltrd 0.7u GF ug/L (38711) E0.01 E0.01 E0.03 E0.01 E0.02	Benzo-[a]- pyrene, water, fltrd, ug/L (34248) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	Benzo- phenone water, fltrd, ug/L (62067) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	beta- Sitos- terol, water, fltrd, ug/L (62068) M MV42V43 <t< td=""><td>Stigma- stanol, water, fltrd, ug/L (62086) M <2 E1 <2 <2 <2</td><td>noi A, water, flttd, ug/L (62069) M M M <1 <1</td><td>cil, water, fltrd, ug/L (04029) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03</td></t<>	Stigma- stanol, water, fltrd, ug/L (62086) M <2 E1 <2 <2 <2	noi A, water, flttd, ug/L (62069) M M M <1 <1	cil, water, fltrd, ug/L (04029) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14	phosmethyl oxon, water, fltrd, ug/L (61635) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	phosmethyl, water, fltrd 0.7u GF ug/L (82686) <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	Bendio-carb, water, fltrd, ug/L (50299) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	Ben-flur-alin, water, fltrd 0.7u GF ug/L (82673) <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	Benomyl water, fltrd, ug/L (50300) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Bensul- furon, water, fltrd, ug/L (61693) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	Ben- tazon, water, fltrd 0.7u GF ug/L (38711) E0.01 E0.01 E0.03 E0.01 E0.02 E0.01	Benzo-[a]- pyrene, water, flttd, ug/L (34248) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	Benzo-phenone water, fltrd, ug/L (62067) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	beta- Sitos- terol, water, fltrd, ug/L (62068) M M2<2	Stigma- stanol, water, fltrd, ug/L (62086) M <2 E1 <2 <2 <2 <2 <2	noi A, water, fltrd, ug/L (62069) M M M <1 <1 <1	cil, water, fltrd, ug/L (04029) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18	phosmethyl oxon, water, fltrd, ug/L (61635) <0.02 <0.02 <0.02 <0.02 <0.02 -0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02 <-0.02	phosmethyl, water, fltrd 0.7u GF ug/L (82686) <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.050 <-0.05	Bendiocarb, water, fltrd, ug/L (50299) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	Ben-fluralin, water, fltrd 0.7u GF ug/L (82673) <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	Benomyl water, fltrd, ug/L (50300) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Bensul- furon, water, fltrd, ug/L (61693) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	Bentazon, water, fltrd 0.7u GF ug/L (38711) E0.01 E0.01 E0.03 E0.01 E0.02 E0.01 E0.01	Benzo-[a]- pyrene, water, fltrd, ug/L (34248) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	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OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14 MAY 07	phosmethyl oxon, water, fltrd, ug/L (61635) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	phosmethyl, water, fltrd 0.7u GF ug/L (82686) <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	Bendio-carb, water, fltrd, ug/L (50299) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	Ben-flur-alin, water, fltrd 0.7u GF ug/L (82673) <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	Benomyl water, fltrd, ug/L (50300) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Bensul- furon, water, fltrd, ug/L (61693) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	Bentazon, water, fltrd 0.7u GF ug/L (38711) E0.01 E0.01 E0.03 E0.02 E0.01 <0.01 E0.02 E0.01 E0.01	Benzo-[a]- pyrene, water, flttd, ug/L (34248) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	Benzo-phenone water, fltrd, ug/L (62067) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	beta- Sitos- terol, water, fltrd, ug/L (62068) M 4 2 2 2 2 2 2 2 2 2 2 2 2	Stigma- stanol, water, fltrd, ug/L (62086) M <2 E1 <2 <2 <2 <2 <2 E1	noi A, water, fltrd, ug/L (62069) M M M <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	cil, water, fltrd, ug/L (04029) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14 MAY 07 19 JUN 10 27 JUN 10 27 JUL 07 30	phosmethyl oxon, water, fltrd, ug/L (61635) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	phosmethyl, water, fltrd 0.7u GF ug/L (82686) <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	Bendio-carb, water, fltrd, ug/L (50299) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	Ben-flur-alin, water, fltrd 0.7u GF ug/L (82673) <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	Benomyl water, fltrd, ug/L (50300) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Bensul- furon, water, fltrd, ug/L (61693) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	Bentazon, water, fltrd 0.7u GF ug/L (38711) E0.01 E0.01 E0.03 E0.01 E0.02 E0.01 <0.01 <0.01	Benzo-[a]- pyrene, water, fltrd, ug/L (34248) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	Benzo-phenone water, fltrd, ug/L (62067) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	beta- Sitos- terol, water, fltrd, ug/L (62068) M M <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	Stigma- stanol, water, fltrd, ug/L (62086) M <2 E1 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	noi A, water, flttd, ug/L (62069) M M M <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	cil, water, fltrd, ug/L (04029) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 14 MAY 07 19 JUN 10 27 JUL 07	phosmethyl oxon, water, fltrd, ug/L (61635) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	phosmethyl, water, fltrd 0.7u GF ug/L (82686) <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	Bendiocarb, water, fltrd, ug/L (50299) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	Ben-fluralin, water, fltrd 0.7u GF ug/L (82673) <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.	Benomyl water, fltrd, ug/L (50300) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 0.004 0.004 0.004 0.004 0.004 0.004	Bensul- furon, water, fltrd, ug/L (61693) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	Bentazon, water, fltrd 0.7u GF ug/L (38711) E0.01 E0.01 E0.03 E0.01 E0.02 E0.01 <0.01 <0.01 E0.02 E0.01 <0.01 E0.02 E0.01 <0.01 E0.02 E0.01 E0.02 E0.01 E0.02 E0.01	Benzo-[a]- pyrene, water, fltrd, ug/L (34248) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	Benzo-phenone water, fltrd, ug/L (62067) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	beta- Sitos- terol, water, fltrd, ug/L (62068) M M <	Stigma- stanol, water, fltrd, ug/L (62086) M <22 E1 <22 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	noi A, water, flttd, ug/L (62069) M M M <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	cil, water, fltrd, ug/L (04029) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03

				_				EK 2002 T					
Date	Brom- oxynil, water, fltrd 0.7u GF ug/L (49311)	Caffeine, water, fltrd, ug/L (50305)	Camphor water, fltrd, ug/L (62070)	Carbaryl, water, fltrd 0.7u GF ug/L (49310)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Carbazole, water, fltrd, ug/L (62071)	Carbo- furan, water, fltrd 0.7u GF ug/L (49309)	Chlor- amben methyl ester, water, fltrd, ug/L (61188)	Chlorimuron, water, fltrd, ug/L (50306)	Chloro- di- amino- s-tri- azine, wat flt ug/L (04039)	Chloro- thalo- nil, water, fltrd 0.7u GF ug/L (49306)	Chlor- pyrifos oxon, water, fltrd, ug/L (61636)	Chlor- pyrifos water, fltrd, ug/L (38933)
OCT 31	< 0.02	M	< 0.5	< 0.03	< 0.041	< 0.5	< 0.006	< 0.02	< 0.010	< 0.01	< 0.04	< 0.06	< 0.005
NOV 14	< 0.02	E0.1	< 0.5	< 0.03	E0.005	< 0.5	< 0.006	< 0.02	< 0.010	< 0.01	< 0.04	< 0.06	< 0.005
DEC 17	< 0.02	E0.1	< 0.5	< 0.03	< 0.041	< 0.5	< 0.006	< 0.02	< 0.010	< 0.01	< 0.04	< 0.06	< 0.005
JAN 10 29 FEB	<0.02 <0.02	E0.1 E0.2	<0.5 <0.5	<0.03 <0.03	<0.041 <0.041	<0.5 <0.5	<0.006 <0.006	<0.02 <0.02	E0.040 <0.010	E0.01 <0.01	<0.04 <0.04	<0.06 <0.06	<0.005 <0.005
11 27 MAR	<0.02 <0.02	E0.2 E0.1	<0.5 <0.5	<0.03 <0.03	<0.041 <0.041	<0.5 <0.5	<0.006 <0.006	<0.02 <0.02	E0.034 <0.010	<0.01 <0.01	<0.04 <0.04	<0.06 <0.06	<0.005 <0.005
18 APR	< 0.02	E0.1	< 0.5	< 0.03	<1	< 0.5	< 0.006	< 0.02	< 0.010	< 0.01	< 0.04		< 0.5
14 MAY	< 0.02	E0.1	< 0.5	< 0.03	< 0.041	< 0.5	< 0.006	< 0.02	< 0.010	< 0.01	< 0.04	< 0.06	< 0.005
07 19 JUN	<0.02 <0.02	E0.1 M	<0.5 <0.5	<0.03 <0.03	E0.007 E0.006	<0.5 <0.5	<0.006 <0.006	<0.02 <0.02	E0.200 0.069	E0.04 <0.01	<0.04 <0.04	<0.06 <0.06	E0.004 0.008
10 27 JUL	<0.02 <0.02	M M	<0.5 <0.5	<0.03 <0.03	<0.041 <0.041	<0.5 <0.5	<0.006 <0.006	<0.02 <0.02	<0.010 0.013	<0.01 <0.01	<0.04 <0.04	<0.06 <0.06	<0.005 <0.005
07 30 AUG	M <0.02	E0.1 E0.1	<0.5 <0.5	E0.07 <0.03	E0.025 E0.006	<0.5 <0.5	0.012 <0.006	<0.02 <0.02	0.029 <0.010	E0.16 <0.01	<0.04 <0.04	<0.01 <0.06	0.008 <0.005
13 SEP	< 0.02	E0.1	< 0.5	< 0.03	E0.007	< 0.5	< 0.006	< 0.02	< 0.010	< 0.01	< 0.04	< 0.06	< 0.005
10	< 0.02	E0.1	< 0.5	< 0.03	E0.006	< 0.5	< 0.006	< 0.02	< 0.010	E0.02	< 0.04	< 0.06	< 0.005
			WATER-0	QUALITY	DATA, WA	ATER YEA	R OCTOB	ER 2002 TO	O SEPTEM	BER 2003			
Date	Cholesterol, water, fltrd, ug/L (62072)	cis- Per- methrin water fltrd 0.7u GF ug/L (82687)	Clopyr- alid, water, fltrd 0.7u GF ug/L (49305)	Cotinine, water, fltrd, ug/L (62005)	Cyclo- ate, water, fltrd, ug/L (04031)	Cyflu- thrin, water, fltrd, ug/L (61585)	Cyper- methrin water, fltrd, ug/L (61586)	Dacthal mono- acid, water, fltrd 0.7u GF ug/L (49304)	DCPA, water fltrd 0.7u GF ug/L (82682)	DEET, water, fltrd, ug/L (62082)	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170)	Diaz- inon oxon, water, fltrd, ug/L (61638)	Diazi- non, water, fltrd, ug/L (39572)
OCT 31	terol, water, fltrd, ug/L	Per- methrin water fltrd 0.7u GF ug/L	Clopyr- alid, water, fltrd 0.7u GF ug/L	Cot- inine, water, fltrd, ug/L	Cyclo- ate, water, fltrd, ug/L	Cyflu- thrin, water, fltrd, ug/L	Cyper- methrin water, fltrd, ug/L	Dacthal mono- acid, water, fltrd 0.7u GF ug/L	DCPA, water fltrd 0.7u GF ug/L	DEET, water, fltrd, ug/L	inyl fipro- nil, water, fltrd, ug/L	inon oxon, water, fltrd, ug/L	non, water, fltrd, ug/L
OCT 31 NOV 14	terol, water, fltrd, ug/L (62072)	Per- methrin water fltrd 0.7u GF ug/L (82687)	Clopyralid, water, fltrd 0.7u GF ug/L (49305)	Cotinine, water, fltrd, ug/L (62005)	Cyclo- ate, water, fltrd, ug/L (04031)	Cyflu- thrin, water, fltrd, ug/L (61585)	Cyper- methrin water, fltrd, ug/L (61586)	Dacthal mono- acid, water, fltrd 0.7u GF ug/L (49304)	DCPA, water fltrd 0.7u GF ug/L (82682)	DEET, water, fltrd, ug/L (62082)	inyl fipro- nil, water, fltrd, ug/L (62170)	inon oxon, water, fltrd, ug/L (61638)	non, water, fltrd, ug/L (39572)
OCT 31 NOV 14 DEC 17	terol, water, fltrd, ug/L (62072)	Permethrin water fltrd 0.7u GF ug/L (82687)	Clopyralid, water, fltrd 0.7u GF ug/L (49305)	Cotinine, water, fltrd, ug/L (62005)	Cycloate, water, fltrd, ug/L (04031)	Cyfluthrin, water, fltrd, ug/L (61585)	Cypermethrin water, fltrd, ug/L (61586)	Dacthal mono- acid, water, fltrd 0.7u GF ug/L (49304)	DCPA, water fltrd 0.7u GF ug/L (82682)	DEET, water, fltrd, ug/L (62082)	inyl fipro- nil, water, fltrd, ug/L (62170)	inon oxon, water, fltrd, ug/L (61638)	non, water, fltrd, ug/L (39572)
OCT 31 NOV 14 DEC 17 JAN 10 29	terol, water, fltrd, ug/L (62072) M M	Permethrin water fltrd 0.7u GF ug/L (82687) <0.006	Clopyralid, water, fltrd 0.7u GF ug/L (49305)	Cotinine, water, fltrd, ug/L (62005)	Cycloate, water, fltrd, ug/L (04031) <0.01	Cyfluthrin, water, fltrd, ug/L (61585) <0.008	Cypermethrin water, fltrd, ug/L (61586) <0.009	Dacthal mono- acid, water, fltrd 0.7u GF ug/L (49304) <0.01	DCPA, water fltrd 0.7u GF ug/L (82682) <0.003	DEET, water, fltrd, ug/L (62082) E0.1	inyl fipro- nil, water, fltrd, ug/L (62170) <0.004	inon oxon, water, fltrd, ug/L (61638)	non, water, fltrd, ug/L (39572) 0.008 0.013
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27	terol, water, fltrd, ug/L (62072) M M E1	Permethrin water fltrd 0.7u GF ug/L (82687) <0.006 <0.006 <0.006	Clopyralid, water, fltrd 0.7u GF ug/L (49305) <0.01 <0.01 <0.01 <0.01	Cotinine, water, fltrd, ug/L (62005)	Cyclo- ate, water, fltrd, ug/L (04031) <0.01 <0.01 <0.01	Cyfluthrin, water, fltrd, ug/L (61585) <0.008 <0.008 <0.008	Cypermethrin water, fltrd, ug/L (61586) <0.009 <0.009 <0.009	Dacthal mono-acid, water, fltrd 0.7u GF ug/L (49304) <0.01 <0.01 <0.01 <0.01	DCPA, water fltrd 0.7u GF ug/L (82682) <0.003 E0.002 <0.003	DEET, water, fltrd, ug/L (62082) E0.1 E0.1 M	inyl fipronil, water, fltrd, ug/L (62170) <0.004 <0.004 <0.004	inon oxon, water, fltrd, ug/L (61638)	non, water, fltrd, ug/L (39572) 0.008 0.013 0.007 E0.004
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18	terol, water, fltrd, ug/L (62072) M M E1 <22 <2 <2	Permethrin water fltrd 0.7u GF ug/L (82687) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006	Clopyralid, water, fltrd 0.7u GF ug/L (49305) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	Cotinine, water, fltrd, ug/L (62005) <1 <1 <1 <1 <1 M <1	Cyclo- ate, water, fltrd, ug/L (04031) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	Cyflu- thrin, water, fltrd, ug/L (61585) <0.008 <0.008 <0.008 <0.008 <0.008	Cypermethrin water, fltrd, ug/L (61586) <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009	Dacthal mono-acid, water, fltrd 0.7u GF ug/L (49304) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	DCPA, water fltrd 0.7u GF ug/L (82682) <0.003 E0.002 <0.003 <0.003 <0.003 <0.003	DEET, water, fltrd, ug/L (62082) E0.1 E0.1 M M E0.2 <0.5	inyl fipronil, water, fltrd, ug/L (62170) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	inon oxon, water, fltrd, ug/L (61638) <0.04	non, water, fltrd, ug/L (39572) 0.008 0.013 0.007 E0.004 E0.005
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OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14 MAY 07 19 JUN 10 27 JUL 07 JUL 07 30 AUG	terol, water, fltrd, ug/L (62072) M M E1 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	Permethrin water filtrd 0.7u GF ug/L (82687) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006	Clopyralid, water, fltrd 0.7u GF ug/L (49305) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	Cotinine, water, fltrd, ug/L (62005) <1	Cycloate, water, fltrd, ug/L (04031) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	Cyfluthrin, water, flurd, ug/L (61585) <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008	Cypermethrin water, 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OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14 MAY 07 19 JUN 10 27 JUN 10 27 JUN 10 27 JUL 07 30	terol, water, fltrd, ug/L (62072) M M E1 <22 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	Permethrin water filtrd 0.7u GF ug/L (82687) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006	Clopyralid, water, fltrd 0.7u GF ug/L (49305) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	Cotinine, water, fltrd, ug/L (62005) <1	Cyclo- ate, water, fltrd, ug/L (04031) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	Cyfluthrin, water, fltrd, ug/L (61585) <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008	Cypermethrin water, fltrd, ug/L (61586) <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009	Dacthal mono-acid, water, fltrd 0.7u GF ug/L (49304) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 0.01 0.01 0.01 0.	DCPA, water fltrd 0.7u GF ug/L (82682) <0.003 E0.002 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 E0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 E0.001	DEET, water, fltrd, ug/L (62082) E0.1 E0.1 M M E0.2 <0.5 M E0.1 E0.1 E0.1 E0.1 E0.1 E0.1 E0.1 E0.1	inyl fipronil, water, fltrd, ug/L (62170) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 E0.004 <0.004	inon oxon, water, fltrd, ug/L (61638) <0.04 <0.04 <0.04 <0.01 <0.01 <0.01 <0.01	non, water, fltrd, ug/L (39572) 0.008 0.013 0.007 E0.004 E0.005 <0.005 <0.005 <0.005 0.011 E0.004 <0.005 0.006 0.012

Date	Dicamba water fltrd 0.7u GF ug/L (38442)	Di- chlor- prop, water, fltrd 0.7u GF ug/L (49302)	Dicrotophos, water fltrd, ug/L (38454)	Diel- drin, water, fltrd, ug/L (39381)	Di- ethoxy- nonyl- phenol, water, fltrd, ug/L (62083)	Di- ethoxy- octyl- phenol, water, fltrd ug/L (61705)	Dimethenamid ESA, water, fltrd, ug/L (61951)	Dimethenamid OA, water, fltrd, ug/L (62482)	Dimethoate, water, fltrd 0.7u GF ug/L (82662)	Dinoseb water, fltrd 0.7u GF ug/L (49301)	Diphenamid, water, fltrd, ug/L (04033)	Diuron, water, fltrd 0.7u GF ug/L (49300)	D-Limonene, water, fltrd, ug/L (62073)
OCT 31	< 0.01	< 0.01	< 0.08	< 0.005	E2	M	< 0.05	< 0.05	< 0.006	< 0.01	< 0.03	< 0.01	< 0.5
NOV 14	< 0.01	< 0.01	< 0.08	< 0.005	E1	<1	0.07	< 0.05	< 0.006	< 0.01	< 0.03	E0.01	< 0.5
DEC 17	< 0.01	< 0.01	<0.08	< 0.005	<5	<1	< 0.05	< 0.05	< 0.006	< 0.01	< 0.03	< 0.01	< 0.5
JAN 10 29	<0.01 <0.01	<0.01 <0.01	<0.08 <0.08	<0.005 <0.005	<5 <5	<1 <1	<0.05 <0.05	<0.05 <0.05	<0.006 <0.006	<0.01 <0.01	<0.03 <0.03	<0.01 <0.01	<0.5 <0.5
FEB 11 27 MAR	<0.01 <0.01	<0.01 <0.01	<0.08 <0.08	<0.005 <0.005	<5 <5	<1 <1	<0.05 <0.05	<0.05 <0.05	<0.006 <0.006	<0.01 <0.01	<0.03 <0.03	<0.01 <0.01	<0.5 <0.5
18 APR	< 0.01	< 0.01			<5	<1	< 0.05	< 0.05		< 0.01	< 0.03	< 0.01	< 0.5
14 MAY	< 0.01	< 0.01	<0.08	< 0.005	<5	<1	< 0.05	< 0.05	< 0.006	< 0.01	< 0.03	< 0.01	< 0.5
07 19 JUN	0.05 <0.01	<0.01 <0.01	<0.08 <0.08	<0.005 E0.004	E2 E2	<1 <1	0.05 0.05	<0.05 <0.05	<0.006 <0.006	<0.01 <0.01	<0.03 <0.03	E0.24 0.03	<0.5 <0.5
10 27 JUL	<0.01 <0.01	<0.01 <0.01	<0.08 <0.08	<0.005 <0.005	<5 <5	<1 <1	<0.05 <0.05	<0.05 <0.05	<0.006 <0.006	<0.01 <0.01	<0.03 <0.03	E0.01 E0.01	<0.5 <0.5
07 30	0.10 <0.01	E0.02 <0.01	<0.08 <0.08	<0.005 <0.005	<5 <5	<1 <1	0.11 0.06	0.05 <0.05	<0.006 <0.006	<0.01 <0.01	<0.03 <0.03	0.04 <0.01	<0.5 <0.5
AUG 13	< 0.01	< 0.01	< 0.08	< 0.005	<5	<1	< 0.05	< 0.05	< 0.006	< 0.01	< 0.03	< 0.01	< 0.5
SEP 10	< 0.01	< 0.01	<0.08	< 0.005	<5	<1	< 0.05	< 0.05	< 0.006	< 0.01	< 0.03	< 0.01	< 0.5
			WATED	OLIAL ETT.	D					DED 2002			
			WAIEK-	QUALITY .	DATA, WA	ATER YEA	R OCTOB	ER 2002 TO	O SEPTEM	BER 2003			
Date	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Ethoxy- octyl- phenol, water, fltrd ug/L	Fenami- phos sulfone water, fltrd, ug/L	Fenami- phos sulf- oxide, water, fltrd, ug/L	Fenami- phos, water, fltrd, ug/L	Fenuron water, fltrd 0.7u GF ug/L	Desulf- inyl- fipro- nil amide, wat flt ug/L	Fipro- nil sulfide water, fltrd, ug/L	Fipro- nil sulfone water, fltrd, ug/L	Fipro- nil, water, fltrd, ug/L	Flufen- acet ESA, water, fltrd, ug/L	Flufe- nacet OA, water, fltrd, ug/L
Date OCT 31	monoxon water, fltrd,	water, fltrd,	Ethoxy- octyl- phenol, water, fltrd	Fenami- phos sulfone water, fltrd,	Fenami- phos sulf- oxide, water, fltrd,	Fenami- phos, water, fltrd,	Fenuron water, fltrd 0.7u GF	Desulf- inyl- fipro- nil amide, wat flt	Fipro- nil sulfide water, fltrd,	Fipro- nil sulfone water, fltrd,	nil, water, fltrd,	acet ESA, water, fltrd,	nacet OA, water, fltrd,
OCT	monoxon water, fltrd, ug/L (61644)	water, fltrd, ug/L (82346)	Ethoxy- octyl- phenol, water, fltrd ug/L (61706)	Fenami- phos sulfone water, fltrd, ug/L (61645)	Fenami- phos sulf- oxide, water, fltrd, ug/L (61646)	Fenamiphos, water, fltrd, ug/L (61591)	Fenuron water, fltrd 0.7u GF ug/L (49297)	Desulf- inyl- fipro- nil amide, wat flt ug/L (62169)	Fipro- nil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)	nil, water, fltrd, ug/L (62166)	acet ESA, water, fltrd, ug/L (61952)	nacet OA, water, fltrd, ug/L (62483)
OCT 31 NOV 14 DEC 17	monoxon water, fltrd, ug/L (61644) <0.03	water, fltrd, ug/L (82346) <0.004	Ethoxy- octyl- phenol, water, fltrd ug/L (61706)	Fenamiphos sulfone water, fltrd, ug/L (61645)	Fenamiphos sulfoxide, water, fltrd, ug/L (61646)	Fenamiphos, water, fltrd, ug/L (61591)	Fenuron water, fltrd 0.7u GF ug/L (49297) <0.03	Desulf- inyl- fipro- nil amide, wat flt ug/L (62169)	Fipronil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)	nil, water, fltrd, ug/L (62166)	acet ESA, water, fltrd, ug/L (61952)	nacet OA, water, fltrd, ug/L (62483)
OCT 31 NOV 14 DEC 17 JAN 10 29	monoxon water, fltrd, ug/L (61644) <0.03 <0.03	water, fltrd, ug/L (82346) <0.004 <0.004	Ethoxy- octyl- phenol, water, fltrd ug/L (61706) M	Fenamiphos sulfone water, fltrd, ug/L (61645) <0.008	Fenamiphos sulfoxide, water, fltrd, ug/L (61646) <0.03	Fenamiphos, water, fltrd, ug/L (61591) <0.03	Fenuron water, fltrd 0.7u GF ug/L (49297) <0.03 <0.03	Desulf- inyl- fipro- nil amide, wat flt ug/L (62169) <0.009	Fipronil sulfide water, fltrd, ug/L (62167) <0.005	Fipronil sulfone water, fltrd, ug/L (62168) <0.005	nil, water, fltrd, ug/L (62166) <0.007	acet ESA, water, fltrd, ug/L (61952) <0.05	nacet OA, water, fltrd, ug/L (62483) <0.05
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27	monoxon water, fltrd, ug/L (61644) <0.03 <0.03 <0.03	water, fltrd, ug/L (82346) <0.004 <0.004 <0.004	Ethoxy-octyl-phenol, water, fltrd ug/L (61706) M M <1 <1	Fenamiphos sulfone water, fltrd, ug/L (61645) <0.008 <0.008 <0.008 <0.008	Fenamiphos sulfoxide, water, fltrd, ug/L (61646) <0.03 <0.03 <0.03 <0.03	Fenamiphos, water, fltrd, ug/L (61591) <0.03 <0.03 <0.03	Fenuron water, fltrd 0.7u GF ug/L (49297) <0.03 <0.03 <0.03 <0.03	Desulf-inyl-fipro-nil amide, wat flt ug/L (62169) <0.009 <0.009 <0.009	Fipronil sulfide water, fltrd, ug/L (62167) <0.005 <0.005 <0.005	Fipronil sulfone water, fltrd, ug/L (62168) <0.005 <0.005 <0.005	nil, water, fltrd, ug/L (62166) <0.007 E0.012 E0.006 E0.007	acet ESA, water, fltrd, ug/L (61952) <0.05 <0.05 <0.05	nacet OA, water, fltrd, ug/L (62483) <0.05 <0.05 <0.05
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18	monoxon water, fltrd, ug/L (61644) <0.03 <0.03 <0.03 <0.03 <0.03	water, fltrd, ug/L (82346) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Ethoxy-octyl-phenol, water, fltrd ug/L (61706) M M <1 <1 <1 <1	Fenamiphos sulfone water, fltrd, ug/L (61645) <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.00	Fenami- phos sulf- oxide, water, fltrd, ug/L (61646) <0.03 <0.03 <0.03 <0.03 <0.03	Fenamiphos, water, fltrd, ug/L (61591) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	Fenuron water, fltrd 0.7u GF ug/L (49297) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	Desulf-inyl-fipro-nil amide, wat flt ug/L (62169) <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009	Fipronil sulfide water, fltrd, ug/L (62167) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Fipronil sulfone water, fltrd, ug/L (62168) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	nil, water, fltrd, ug/L (62166) <0.007 E0.012 E0.006 E0.007 <0.007	acet ESA, water, fltrd, ug/L (61952) <0.05 <0.05 <0.05 <0.05 <0.05	nacet OA, water, fltrd, ug/L (62483) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14	monoxon water, fltrd, ug/L (61644) <0.03 <0.03 <0.03 <0.03 <0.03	water, fltrd, ug/L (82346) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Ethoxy-octyl-phenol, water, fltrd ug/L (61706) M M <1 <1 <1 <1 <1 <1	Fenamiphos sulfone water, fltrd, ug/L (61645) <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008	Fenamiphos sulfoxide, water, fltrd, ug/L (61646) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	Fenamiphos, water, fltrd, ug/L (61591) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	Fenuron water, fltrd 0.7u GF ug/L (49297) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	Desulf-inyl-fipro-nil amide, wat flt ug/L (62169) <0.009 <0.009 <0.009 <0.009 <0.009 <0.009	Fipronil sulfide water, fltrd, ug/L (62167) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Fipronil sulfone water, fltrd, ug/L (62168) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	nil, water, fltrd, ug/L (62166) <0.007 E0.012 E0.006 E0.007 <0.007 E0.002 <0.007	acet ESA, water, fltrd, ug/L (61952) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	nacet OA, water, fltrd, ug/L (62483) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18	monoxon water, fltrd, ug/L (61644) <0.03 <0.03 <0.03 <0.03 <0.03 -0.03	water, fltrd, ug/L (82346) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 -0.004	Ethoxy-octyl-phenol, water, fltrd ug/L (61706) M M <1 <1 <1 <1 <1 <1 <1	Fenamiphos sulfone water, fltrd, ug/L (61645) <0.008 <0.008 <0.008 <0.008 <0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 <-0.008 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OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14 MAY 07 19	monoxon water, fltrd, ug/L (61644) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	water, fltrd, ug/L (82346) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Ethoxy-octyl-phenol, water, fltrd ug/L (61706) M M <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	Fenamiphos sulfone water, fltrd, ug/L (61645) <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.00	Fenamiphos sulfoxide, water, fltrd, ug/L (61646) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	Fenamiphos, water, fltrd, ug/L (61591) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	Fenuron water, fltrd 0.7u GF ug/L (49297) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	Desulf- inyl- fipro- nil amide, wat flt ug/L (62169) <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009	Fipronil sulfide water, fltrd, ug/L (62167) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Fipronil sulfone water, fltrd, ug/L (62168) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	nil, water, fltrd, ug/L (62166) <0.007 E0.012 E0.006 E0.007 <0.007 E0.002 <0.007 E0.008	acet ESA, water, fltrd, ug/L (61952) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	nacet OA, water, fltrd, ug/L (62483) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14 MAY 07 19 JUN 10 27	monoxon water, fltrd, ug/L (61644) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	water, fltrd, ug/L (82346) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Ethoxy-octyl-phenol, water, fltrd ug/L (61706) M M <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	Fenamiphos sulfone water, fltrd, ug/L (61645) <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008	Fenamiphos sulf-oxide, water, fltrd, ug/L (61646) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	Fenamiphos, water, fltrd, ug/L (61591) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	Fenuron water, fltrd 0.7u GF ug/L (49297) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	Desulf-inyl-fipro-nil amide, wat flt ug/L (62169) <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009	Fipronil sulfide water, flurd, ug/L (62167) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Fipronil sulfone water, fltrd, ug/L (62168) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	nil, water, fltrd, ug/L (62166) <0.007 E0.012 E0.006 E0.007 <0.007 E0.002 <0.007 E0.008 E0.007 <0.007	acet ESA, water, fltrd, ug/L (61952) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	nacet OA, water, fltrd, ug/L (62483) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14 MAY 07 19 JUN 10 27 JUL 07 30	monoxon water, fltrd, ug/L (61644) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	water, fltrd, ug/L (82346) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <-0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Ethoxy-octyl-phenol, water, fltrd ug/L (61706) M M <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	Fenamiphos sulfone water, fltrd, ug/L (61645) <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.00	Fenamiphos sulf-oxide, water, fltrd, ug/L (61646) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	Fenamiphos, water, fltrd, ug/L (61591) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	Fenuron water, fltrd 0.7u GF ug/L (49297) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	Desulf-inyl-fipro-nil amide, wat flt ug/L (62169) <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009	Fipronil sulfide water, fltrd, ug/L (62167) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 E0.005	Fipronil sulfone water, fltrd, ug/L (62168) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	mil, water, fltrd, ug/L (62166) <0.007 E0.012 E0.006 E0.007 <0.007 E0.002 <0.007 E0.008 E0.007 <0.007 <0.007 E0.007 E0.007 E0.008 E0.007	acet ESA, water, fltrd, ug/L (61952) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	nacet OA, water, fltrd, ug/L (62483) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05

[(National Water-Quality Assessment Program White River Basin, Miami River Basin Study Unit]—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

	Flumet-	Fluo- meturon	Fluor-	Fonofos	,		Hexa-	Imaza-	Imaze-	Imida-		Ipro-	Isobor-
Date	sulam, water, fltrd, ug/L (61694)	water fltrd 0.7u GF ug/L (38811)	anthene water, fltrd, ug/L (34377)	oxon, water, fltrd, ug/L (61649)	Fonofos water, fltrd, ug/L (04095)	HHCB, water, fltrd, ug/L (62075)	zinone, water, fltrd, ug/L (04025)	quin, water, fltrd, ug/L (50356)	thapyr, water, fltrd, ug/L (50407)	cloprid water, fltrd, ug/L (61695)	Indole, water, fltrd, ug/L (62076)	dione, water, fltrd, ug/L (61593)	neol, water, fltrd, ug/L (62077)
OCT 31	< 0.01	< 0.03	< 0.5	< 0.002	< 0.003	M		< 0.02	< 0.02	< 0.007	< 0.5	<1	< 0.5
NOV 14	< 0.01	< 0.03	< 0.5	< 0.002	< 0.003	M		< 0.02	< 0.02	< 0.007	E0.1	<1	< 0.5
DEC 17	< 0.01	< 0.03	< 0.5	< 0.002	< 0.003	M		< 0.02	< 0.02	< 0.007	< 0.5	<1	< 0.5
JAN 10 29	<0.01 <0.01	<0.03 <0.03	<0.5 <0.5	<0.002 <0.002	<0.003 <0.003	M E0.1		<0.02 <0.02	<0.02 <0.02	<0.007 <0.007	<0.5 E0.1	<1 <1	<0.5 <0.5
FEB 11 27 MAR	<0.01 <0.01	<0.03 <0.03	<0.5 <0.5	<0.002 <0.002	<0.003 <0.003	M M	 	M <0.02	<0.02 <0.02	<0.007 <0.007	<0.5 M	<1 <1	<0.5 <0.5
18 APR	< 0.01	< 0.03	< 0.5			M		E0.01	E0.03	< 0.007	< 0.5		< 0.5
14 MAY	< 0.01	< 0.03	< 0.5	< 0.002	< 0.003	< 0.5		< 0.02	E0.01	< 0.007	< 0.5	<1	< 0.5
07 19 JUN	E0.05 <0.01	<0.03 <0.03	M <0.5	<0.002 <0.002	<0.003 <0.003	E0.1 E0.1	<0.013	E0.15 E0.02	E0.13 E0.06	E0.022 <0.007	M <0.5	<1 <1	<0.5 <0.5
10 27 JUL	<0.01 <0.01	<0.03 <0.03	<0.5 <0.5	<0.002 <0.002	<0.003 <0.003	<0.5 <0.5	<0.013 <0.013	<0.02 E0.01	<0.02 <0.02	<0.007 E0.006	<0.5 <0.5	<1 <1	<0.5 <0.5
07 30	E0.05 E0.02	<0.03 <0.03	<0.5 <0.5	<0.002 <0.002	<0.003 <0.003	<0.5 E0.1	<0.013 <0.013	E0.05 M	E0.13 E0.02	0.037 <0.007	<0.5 <0.5	<1 <1	<0.5 <0.5
AUG 13	< 0.02	< 0.03	< 0.5	< 0.002	< 0.003	E0.1	< 0.013	< 0.02	< 0.02	< 0.007	< 0.5	<1	< 0.5
SEP 10	E0.02	< 0.03	< 0.5	< 0.002	< 0.003	M	< 0.013	< 0.02	E0.02	< 0.031	< 0.5	<1	< 0.5
			WATER-	OHALITY	DATA, WA	TER VEA	P OCTORI	FR 2002 TO) SEDTEM	RER 2003			
			WILLIE	ZUALITI	DAIA, WE	TILK ILA	IK OCTOB	LIC 2002 I C	J SLI I LIVI	DER 2003			
	Iso- butyl alcohol -d6, surrog,	Isofen- phos, water,	Iso- phorone water,	Iso- propyl- benzene water,	Iso- quin- oline, water,	Linuron water fltrd	Mala- oxon, water,	Mala- thion, water,	MCPA, water, fltrd	MCPB, water, fltrd	Menthol water,	Meta- laxyl, water,	Meta- laxyl, water,
Date	butyl alcohol -d6,	phos,	Iso- phorone	Iso- propyl- benzene	Iso- quin- oline,	Linuron water	Mala- oxon,	Mala- thion,	MCPA, water,	MCPB, water,		laxyl,	laxyl,
OCT 31	butyl alcohol -d6, surrog, wat unf pct rcv	phos, water, fltrd, ug/L	Iso- phorone water, fltrd, ug/L	Iso- propyl- benzene water, fltrd, ug/L	Iso- quin- oline, water, fltrd, ug/L	Linuron water fltrd 0.7u GF ug/L	Mala- oxon, water, fltrd, ug/L	Mala- thion, water, fltrd, ug/L	MCPA, water, fltrd 0.7u GF ug/L	MCPB, water, fltrd 0.7u GF ug/L	water, fltrd, ug/L	laxyl, water, fltrd, ug/L	laxyl, water, fltrd, ug/L
OCT 31 NOV 14	butyl alcohol -d6, surrog, wat unf pct rev (62835)	phos, water, fltrd, ug/L (61594)	Iso- phorone water, fltrd, ug/L (34409)	Iso- propyl- benzene water, fltrd, ug/L (62078)	Iso- quin- oline, water, fltrd, ug/L (62079)	Linuron water fltrd 0.7u GF ug/L (38478)	Mala- oxon, water, fltrd, ug/L (61652)	Malathion, water, fltrd, ug/L (39532)	MCPA, water, fltrd 0.7u GF ug/L (38482)	MCPB, water, fltrd 0.7u GF ug/L (38487)	water, fltrd, ug/L (62080)	laxyl, water, fltrd, ug/L (50359)	laxyl, water, fltrd, ug/L (61596)
OCT 31 NOV 14 DEC 17	butyl alcohol -d6, surrog, wat unf pct rev (62835)	phos, water, fltrd, ug/L (61594)	Iso- phorone water, fltrd, ug/L (34409) <0.5	Iso-propyl-benzene water, fltrd, ug/L (62078)	Iso- quin- oline, water, fltrd, ug/L (62079)	Linuron water fltrd 0.7u GF ug/L (38478) <0.01	Mala- oxon, water, fltrd, ug/L (61652)	Malathion, water, fltrd, ug/L (39532) <0.027	MCPA, water, fltrd 0.7u GF ug/L (38482) E0.01	MCPB, water, fltrd 0.7u GF ug/L (38487) <0.01	water, fltrd, ug/L (62080)	laxyl, water, fltrd, ug/L (50359)	laxyl, water, fltrd, ug/L (61596)
OCT 31 NOV 14 DEC 17 JAN 10 29	butyl alcohol -d6, surrog, wat unf pet rev (62835) 102	phos, water, fltrd, ug/L (61594) <0.003	Iso- phorone water, fltrd, ug/L (34409) <0.5	Iso-propyl-benzene water, fltrd, ug/L (62078) <0.5	Iso-quin- oline, water, fltrd, ug/L (62079) <0.5	Linuron water fltrd 0.7u GF ug/L (38478) <0.01	Mala- oxon, water, fltrd, ug/L (61652) <0.008	Malathion, water, fltrd, ug/L (39532) <0.027	MCPA, water, fltrd 0.7u GF ug/L (38482) E0.01	MCPB, water, fltrd 0.7u GF ug/L (38487) <0.01	water, fltrd, ug/L (62080) <0.5 <0.5	laxyl, water, fltrd, ug/L (50359) <0.02	laxyl, water, fltrd, ug/L (61596) <0.005
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11	butyl alcohol -d6, surrog, wat unf pet rev (62835) 102 103 104 113 110 97.6	phos, water, fltrd, ug/L (61594) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	Iso-phorone water, fltrd, ug/L (34409) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	Iso-propyl-benzene water, fltrd, ug/L (62078) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	Iso-quin- oline, water, fltrd, ug/L (62079) <0.5 <0.5 <0.5 <0.5 <0.5	Linuron water fltrd 0.7u GF ug/L (38478) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	Mala- oxon, water, fltrd, ug/L (61652) <0.008 <0.006 <0.008 <0.008 <0.008	Malathion, water, fltrd, ug/L (39532) <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027	MCPA, water, fltrd 0.7u GF ug/L (38482) E0.01 M <0.02 <0.02 <0.02 <0.02	MCPB, water, fltrd 0.7u GF ug/L (38487) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	water, fltrd, ug/L (62080) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	laxyl, water, flttd, ug/L (50359) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	laxyl, water, fltrd, ug/L (61596) <0.005 <0.005 <0.005 <0.005 <0.005
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18	butyl alcohol -d6, surrog, wat unf pct rcv (62835) 102 103 104 113 110	phos, water, fltrd, ug/L (61594) <0.003 <0.003 <0.003 <0.003	Iso-phorone water, fltrd, ug/L (34409) <0.5 <0.5 <0.5 <0.5 <0.5	Iso-propyl-benzene water, fltrd, ug/L (62078) <0.5 <0.5 <0.5 <0.5 <0.5	Iso-quin- oline, water, fltrd, ug/L (62079) <0.5 <0.5 <0.5 <0.5	Linuron water fltrd 0.7u GF ug/L (38478) <0.01 <0.01 <0.01 <0.01 <0.01	Mala- oxon, water, fltrd, ug/L (61652) <0.008 <0.006 <0.008 <0.008	Malathion, water, fltrd, ug/L (39532) <0.027 <0.027 <0.027 <0.027 <0.027	MCPA, water, fltrd 0.7u GF ug/L (38482) E0.01 M <0.02 <0.02	MCPB, water, fltrd 0.7u GF ug/L (38487) <0.01 <0.01 <0.01 <0.01	water, fltrd, ug/L (62080) <0.5 <0.5 <0.5 <0.5 <0.5	laxyl, water, fltrd, ug/L (50359) <0.02 <0.02 <0.02 <0.02	laxyl, water, fltrd, ug/L (61596) <0.005 <0.005 <0.005 <0.005
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14	butyl alcohol -d6, surrog, wat unf pet rev (62835) 102 103 104 113 110 97.6 129	phos, water, fltrd, ug/L (61594) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	Iso-phorone water, fltrd, ug/L (34409) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	Iso-propyl-benzene water, fltrd, ug/L (62078) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	Iso-quin- oline, water, fltrd, ug/L (62079) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	Linuron water fltrd 0.7u GF ug/L (38478) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	Mala- oxon, water, fltrd, ug/L (61652) <0.008 <0.006 <0.008 <0.008 <0.008 <0.008	Mala- thion, water, fltrd, ug/L (39532) <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027	MCPA, water, fltrd 0.7u GF ug/L (38482) E0.01 M <0.02 <0.02 <0.02 <0.02	MCPB, water, fltrd 0.7u GF ug/L (38487) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	water, fltrd, ug/L (62080) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	laxyl, water, fltrd, ug/L (50359) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	laxyl, water, fltrd, ug/L (61596) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14 MAY 07 19	butyl alcohol -d6, surrog, wat unf pet rev (62835) 102 103 104 113 110 97.6 129 98.2	phos, water, fltrd, ug/L (61594) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	Iso-phorone water, fltrd, ug/L (34409) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	Iso-propyl-benzene water, fltrd, ug/L (62078) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	Iso-quin- oline, water, fltrd, ug/L (62079) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	Linuron water fltrd 0.7u GF ug/L (38478) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <	Mala- oxon, water, fltrd, ug/L (61652) <0.008 <0.008 <0.008 <0.008 <0.008 <	Mala- thion, water, fltrd, ug/L (39532) <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 -0.027	MCPA, water, fltrd 0.7u GF ug/L (38482) E0.01 M <0.02 <0.02 <0.02 <0.02 <0.02	MCPB, water, fltrd 0.7u GF ug/L (38487) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0	water, fltrd, ug/L (62080) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	laxyl, water, fltrd, ug/L (50359) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 0.02	laxyl, water, fltrd, ug/L (61596) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14 MAY 07 19 JUN 10 27	butyl alcohol -d6, surrog, wat unf pet rev (62835) 102 103 104 113 110 97.6 129 98.2 77.1	phos, water, fltrd, ug/L (61594) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	Iso-phorone water, fltrd, ug/L (34409) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	Iso-propyl-benzene water, fltrd, ug/L (62078) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	Iso-quin- oline, water, fltrd, ug/L (62079) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	Linuron water fltrd 0.7u GF ug/L (38478) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <	Mala- oxon, water, fltrd, ug/L (61652) <0.008 <0.008 <0.008 <0.008 <0.008 <-0.008 <0.008 <-0.008 <0.008 <-0.008 <-0.008	Mala- thion, water, fltrd, ug/L (39532) <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027	MCPA, water, fltrd 0.7u GF ug/L (38482) E0.01 M <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	MCPB, water, fltrd 0.7u GF ug/L (38487) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0	water, fltrd, ug/L (62080) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	laxyl, water, fltrd, ug/L (50359) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	laxyl, water, fltrd, ug/L (61596) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 0.005 0.015
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14 MAY 07 19 JUN 10 27 JUN 10 27 JUL 07 30	butyl alcohol -d6, surrog, wat unf pet rev (62835) 102 103 104 113 110 97.6 129 98.2 77.1 128 145 95.2	phos, water, fltrd, ug/L (61594) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	Iso-phorone water, fltrd, ug/L (34409) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	Iso-propyl-benzene water, fltrd, ug/L (62078) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	Iso-quin- oline, water, fltrd, ug/L (62079) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	Linuron water fltrd 0.7u GF ug/L (38478) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <	Mala- oxon, water, fltrd, ug/L (61652) <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008	Mala- thion, water, fltrd, ug/L (39532) <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027	MCPA, water, fltrd 0.7u GF ug/L (38482) E0.01 M <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	MCPB, water, fltrd 0.7u GF ug/L (38487) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0	water, fltrd, ug/L (62080) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	laxyl, water, fltrd, ug/L (50359) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.01 E0.01	laxyl, water, fltrd, ug/L (61596) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14 MAY 07 19 JUN 10 27 JUL 07	butyl alcohol -d6, surrog, wat unf pet rev (62835) 102 103 104 113 110 97.6 129 98.2 77.1 128 145 95.2 126 112	phos, water, fltrd, ug/L (61594) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	Iso-phorone water, fltrd, ug/L (34409) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	Iso-propyl-benzene water, fltrd, ug/L (62078) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	Iso-quin- oline, water, fltrd, ug/L (62079) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	Linuron water fltrd 0.7u GF ug/L (38478) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 0.01 <0.01 0.01 <0.01 0.01 0.01 <0.01 0.	Mala- oxon, water, fltrd, ug/L (61652) <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008	Malathion, water, fltrd, ug/L (39532) <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027	MCPA, water, fltrd 0.7u GF ug/L (38482) E0.01 M <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 E0.01	MCPB, water, fltrd 0.7u GF ug/L (38487) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0	water, fltrd, ug/L (62080) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	laxyl, water, fltrd, ug/L (50359) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 E0.01 E0.01 E0.12	laxyl, water, fltrd, ug/L (61596) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005

[(National Water-Quality Assessment Program White River Basin, Miami River Basin Study Unit]—Continued

Date	Methi- althion water, fltrd, ug/L (61598)	Methiocarb, water, fltrd 0.7u GF ug/L (38501)	Methomyl, water, fltrd 0.7u GF ug/L (49296)	Methyl acetate water unfltrd ug/L (77032)	Methyl para- oxon, water, fltrd, ug/L (61664)	Methyl para- thion, water, fltrd 0.7u GF ug/L (82667)	Methyl salicy- late, water, fltrd, ug/L (62081)	Metola- chlor ESA, water, fltrd 0.7u GF ug/L (61043)	Metola- chlor OA, water, fltrd 0.7u GF ug/L (61044)	Metola- chlor, water, fltrd, ug/L (39415)	Metri- buzin, water, fltrd, ug/L (82630)	Metsul- furon, water, fltrd, ug/L (61697)	Myclo- butanil water, fltrd, ug/L (61599)
OCT 31	< 0.006	<0.008	< 0.004	<0.4	< 0.03	< 0.006	< 0.5	0.19	0.09	E0.012	< 0.006	E0.06	< 0.008
NOV 14	< 0.006	< 0.008	< 0.004	<0.4	< 0.03	< 0.006	E0.1	1.36	0.80	0.138	0.012	< 0.03	< 0.008
DEC 17	< 0.006	<0.008	< 0.004	< 0.4	< 0.03	< 0.006	< 0.5	0.21	0.09	E0.009	< 0.006	< 0.03	< 0.008
JAN 10 29	<0.006 <0.006	<0.008 <0.008	<0.004 <0.004	<0.4 <0.4	<0.03 <0.03	<0.006 <0.006	<0.5 <0.5	1.01 0.46	0.64 0.18	0.159 0.050	0.013 0.006	<0.03 <0.03	<0.008 <0.008
FEB 11 27	<0.006 <0.006	<0.008 <0.008	<0.004 <0.004	<0.4 <0.4	<0.03 <0.03	<0.006 <0.006	<0.5 <0.5	1.28 0.57	0.44 0.23	0.067 0.082	0.007 0.011	<0.03 <0.03	<0.008 <0.008
MAR 18		<0.008	< 0.004	<0.4			< 0.5	1.06	0.48	E0.1		< 0.03	
APR 14 MAY	< 0.006	< 0.008	< 0.004	<0.4	< 0.03	< 0.006	< 0.5	0.72	0.27	0.040	< 0.006	< 0.03	< 0.008
07 19 JUN	<0.006 <0.006	<0.008 <0.008	<0.004 <0.004	<0.4 <0.4	<0.03 <0.03	<0.006 <0.006	M <0.5	1.25 1.63	0.69 1.07	2.93 2.70	0.055 0.044	<0.03 <0.03	<0.008 <0.008
10 27 JUL	<0.006 <0.006	<0.008 <0.008	<0.004 <0.004	<0.4 <0.4	<0.03 <0.03	<0.006 <0.006	<0.5 <0.5	0.53 0.66	0.27 0.24	0.534 0.317	0.007 <0.006	<0.03 <0.03	<0.008 <0.008
07 30	<0.006 <0.006	<0.008 <0.008	<0.004 <0.004	<0.4 <0.4	<0.03 <0.03	<0.006 <0.006	<0.5 <0.5	2.07 0.85	1.47 0.45	1.77 0.284	0.078 0.006	<0.03 <0.03	<0.008 <0.008
AUG 13	<0.006	< 0.008	< 0.004	<0.4	<0.03	< 0.006	<0.5	1.09	0.62	0.240	0.008	<0.03	<0.008
SEP 10	< 0.006	<0.008	< 0.004	<0.4	<0.03	< 0.006	<0.5	0.84	0.42	0.158	< 0.006	<0.03	< 0.008
			WATED	MIALITY:	DATA WA	ATED MEA	D OCTOR	ED 2002 E	CEDTEM	DED 2002			
			WAIEK-(JUALII I	DAIA, WE	AIEK IEA	K OCTOB	EK 2002 TO	J SEPTEM	DEK 2003			
	N-(4-		WAIEK-(R OCTOB	EK 2002 T		DEK 2003			
Date	N-(4- Chloro- phenyl) -N-' methyl- urea, ug/L (61692)	Naphthalene, water, fltrd, ug/L (34443)	Neburon water, fltrd 0.7u GF ug/L (49294)	Nico- sul- furon, water, fltrd, ug/L (50364)	Norflur azon, water, fltrd 0.7u GF ug/L (49293)	Ory- zalin, water, fltrd 0.7u GF ug/L (49292)	Oxamyl, water, fltrd 0.7u GF ug/L (38866)	p- Cresol, water, fltrd, ug/L (62084)	Penta- chloro- phenol, water, fltrd, ug/L (34459)	Phenan- threne, water, fltrd, ug/L (34462)	Phenol, water, fltrd, ug/L (34466)	Phorate oxon, water, fltrd, ug/L (61666)	Phorate water fltrd 0.7u GF ug/L (82664)
OCT 31	Chloro- phenyl) -N-' methyl- urea, ug/L	alene, water, fltrd, ug/L	Neburon water, fltrd 0.7u GF ug/L	Nico- sul- furon, water, fltrd, ug/L	Norflur azon, water, fltrd 0.7u GF ug/L	Ory- zalin, water, fltrd 0.7u GF ug/L	Oxamyl, water, fltrd 0.7u GF ug/L	p- Cresol, water, fltrd, ug/L	Penta- chloro- phenol, water, fltrd, ug/L	Phenan- threne, water, fltrd, ug/L	water, fltrd, ug/L	oxon, water, fltrd, ug/L	water fltrd 0.7u GF ug/L
OCT 31 NOV 14	Chloro- phenyl) -N-' methyl- urea, ug/L (61692)	alene, water, fltrd, ug/L (34443)	Neburon water, fltrd 0.7u GF ug/L (49294)	Nico- sul- furon, water, fltrd, ug/L (50364)	Norflur azon, water, fltrd 0.7u GF ug/L (49293)	Ory- zalin, water, fltrd 0.7u GF ug/L (49292)	Oxamyl, water, fltrd 0.7u GF ug/L (38866)	p- Cresol, water, fltrd, ug/L (62084)	Penta- chloro- phenol, water, fltrd, ug/L (34459)	Phenan- threne, water, fltrd, ug/L (34462)	water, fltrd, ug/L (34466)	oxon, water, fltrd, ug/L (61666)	water fltrd 0.7u GF ug/L (82664)
OCT 31 NOV 14 DEC 17	Chlorophenyl) -N-' methylurea, ug/L (61692) <0.02	alene, water, fltrd, ug/L (34443)	Neburon water, fltrd 0.7u GF ug/L (49294)	Nico- sul- furon, water, fltrd, ug/L (50364)	Norflur azon, water, fltrd 0.7u GF ug/L (49293)	Ory- zalin, water, fltrd 0.7u GF ug/L (49292)	Oxamyl, water, fltrd 0.7u GF ug/L (38866)	p- Cresol, water, fltrd, ug/L (62084)	Penta- chloro- phenol, water, fltrd, ug/L (34459)	Phenan- threne, water, fltrd, ug/L (34462) <0.5	water, fltrd, ug/L (34466)	oxon, water, fltrd, ug/L (61666)	water fltrd 0.7u GF ug/L (82664) <0.011
OCT 31 NOV 14 DEC 17 JAN 10 29	Chlorophenyl) -N-' methyl- urea, ug/L (61692) <0.02	alene, water, fltrd, ug/L (34443) <0.5 <0.5	Neburon water, fltrd 0.7u GF ug/L (49294) <0.01	Nico-sul-furon, water, fltrd, ug/L (50364)	Norflur azon, water, fltrd 0.7u GF ug/L (49293) <0.02	Ory- zalin, water, fltrd 0.7u GF ug/L (49292) <0.02	Oxamyl, water, fltrd 0.7u GF ug/L (38866) <0.01	p- Cresol, water, fltrd, ug/L (62084)	Penta- chloro- phenol, water, fltrd, ug/L (34459) M	Phenan- threne, water, fltrd, ug/L (34462) <0.5	water, fltrd, ug/L (34466) E0.2 E0.4	oxon, water, fltrd, ug/L (61666) <0.10	water fltrd 0.7u GF ug/L (82664) <0.011
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11	Chlorophenyl) -N-' methyl- urea, ug/L (61692) <0.02 <0.02 <0.02 <0.02	alene, water, fltrd, ug/L (34443) <0.5 <0.5 <0.5	Neburon water, fltrd 0.7u GF ug/L (49294) <0.01 <0.01 <0.01	Nico-sul- furon, water, fltrd, ug/L (50364) <0.01 <0.01	Norflur azon, water, fltrd 0.7u GF ug/L (49293) <0.02 <0.02 <0.02 <0.02	Ory- zalin, water, fltrd 0.7u GF ug/L (49292) <0.02 <0.02 <0.02 <0.02	Oxamyl, water, fltrd 0.7u GF ug/L (38866) <0.01 <0.01 <0.01 <0.01	p- Cresol, water, fltrd, ug/L (62084) <1 <1 <1	Penta- chloro- phenol, water, fltrd, ug/L (34459) M <2 <2 <2	Phenanthrene, water, fltrd, ug/L (34462) <0.5 <0.5 <0.5	water, fltrd, ug/L (34466) E0.2 E0.4 <0.5 <0.5	oxon, water, fltrd, ug/L (61666) <0.10 <0.10 <0.10	water fltrd 0.7u GF ug/L (82664) <0.011 <0.011 <0.011
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18	Chloro-phenyl) -N-' methyl- urea, ug/L (61692) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	alene, water, fltrd, ug/L (34443) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	Neburon water, fltrd 0.7u GF ug/L (49294) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	Nico-sul-furon, water, fltrd, ug/L (50364) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	Norflur azon, water, fltrd 0.7u GF ug/L (49293) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	Ory-zalin, water, fltrd 0.7u GF ug/L (49292) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	Oxamyl, water, fltrd 0.7u GF ug/L (38866) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	p- Cresol, water, fltrd, ug/L (62084) <1 <1 <1 <1 <1	Penta-chloro-phenol, water, fltrd, ug/L (34459) M <2 <2 <2 <2 <2 <2	Phenanthrene, water, fltrd, ug/L (34462) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	water, fltrd, ug/L (34466) E0.2 E0.4 <0.5 <0.5 <0.5 E0.3	oxon, water, fltrd, ug/L (61666) <0.10 <0.10 <0.10 <0.10 <0.10	water filtrd 0.7u GF ug/L (82664) <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14	Chloro-phenyl) -N-' methyl- urea, ug/L (61692) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	alene, water, fltrd, ug/L (34443) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	Neburon water, fltrd 0.7u GF ug/L (49294) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	Nico-sul-furon, water, fltrd, ug/L (50364) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	Norflur azon, water, fltrd 0.7u GF ug/L (49293) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	Ory-zalin, water, fltrd 0.7u GF ug/L (49292) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	Oxamyl, water, fltrd 0.7u GF ug/L (38866) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	p- Cresol, water, fltrd, ug/L (62084) <1 <1 <1 <1 M	Penta-chloro-phenol, water, fltrd, ug/L (34459) M <2 <2 <2 <2 <2 <2 <2	Phenanthrene, water, fltrd, ug/L (34462) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	water, fltrd, ug/L (34466) E0.2 E0.4 <0.5 <0.5 E0.3 E0.2	oxon, water, fltrd, ug/L (61666) <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10	water fltrd 0.7u GF ug/L (82664) <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14 MAY 07 19	Chloro-phenyl) -N-' methyl- urea, ug/L (61692) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	alene, water, fltrd, ug/L (34443) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	Neburon water, fltrd 0.7u GF ug/L (49294) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 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OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14 MAY 07 19 JUN 10 27	Chlorophenyl) -N-' methyl- urea, ug/L (61692) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	alene, water, fltrd, ug/L (34443) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	Neburon water, fltrd 0.7u GF ug/L (49294) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	Nico-sul-furon, water, fltrd, ug/L (50364) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	Norflur azon, water, fltrd 0.7u GF ug/L (49293) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	Ory-zalin, water, fltrd 0.7u GF ug/L (49292) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	Oxamyl, water, fltrd 0.7u GF ug/L (38866) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	p- Cresol, water, fltrd, ug/L (62084) <1 <1 <1 <1 M <1 M	Penta-chloro-phenol, water, fltrd, ug/L (34459) M <2 <2 <2 <2 <2 <2 <42 <42 <42 <42 <42 <	Phenanthrene, water, fltrd, ug/L (34462) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	water, fltrd, ug/L (34466) E0.2 E0.4 <0.5 <0.5 E0.3 E0.2 <0.5 E0.2 <0.5	oxon, water, fltrd, ug/L (61666) <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10	water fltrd 0.7u GF ug/L (82664) <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14 MAY 07 19 JUN 10 27 JUN 10 27 JUL 07 30	Chloro-phenyl) -N-' methyl- urea, ug/L (61692) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	alene, water, fltrd, ug/L (34443) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	Neburon water, fltrd 0.7u GF ug/L (49294) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	Nico-sul-furon, water, fltrd, ug/L (50364) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	Norflur azon, water, fltrd 0.7u GF ug/L (49293) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	Ory-zalin, water, fltrd 0.7u GF ug/L (49292) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	Oxamyl, water, fltrd 0.7u GF ug/L (38866) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	p- Cresol, water, fltrd, ug/L (62084) <1 <1 <1 <1 M <1 M <1 K 1 K 1	Penta-chloro-phenol, water, fltrd, ug/L (34459) M <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	Phenanthrene, water, fltrd, ug/L (34462) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	water, fltrd, ug/L (34466) E0.2 E0.4 <0.5 <0.5 <0.5 E0.2 <0.5 E0.2 <0.5 E0.2	oxon, water, flttd, ug/L (61666) <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10	water fltrd 0.7u GF ug/L (82664) <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14 MAY 07 19 JUN 10 27 JUL 07	Chlorophenyl) -N-' methyl- urea, ug/L (61692) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	alene, water, fltrd, ug/L (34443) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	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E0.4 <0.5 <0.5 <0.5 E0.3 E0.2 <0.5 E0.2 <0.5 1.0	oxon, water, fltrd, ug/L (61666) <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10	water filtrd 0.7u GF ug/L (82664) <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011

Date	Phosmet oxon, water, fltrd, ug/L (61668)	Phosmet water, fltrd, ug/L (61601)	Pic- loram, water, fltrd 0.7u GF ug/L (49291)	Prometon, water, fltrd, ug/L (04037)	Prometryn, water, fltrd, ug/L (04036)	Pronamide, water, fltrd 0.7u GF ug/L (82676)	Propham water fltrd 0.7u GF ug/L (49236)	Propiconazole, water, fltrd, ug/L (50471)	Propoxur, water, fltrd 0.7u GF ug/L (38538)	Pyrene, water, fltrd, ug/L (34470)	Siduron water, fltrd, ug/L (38548)	Sima- zine, water, fltrd, ug/L (04035)	Sulfo- met- ruron, water, fltrd, ug/L (50337)
OCT 31 NOV	<0.06	<0.008	< 0.02	0.02	< 0.005	< 0.004	<0.010	< 0.02	<0.008	<0.5	< 0.02	0.013	<0.009
14	< 0.06	< 0.008	< 0.02	E0.01	< 0.005	< 0.004	< 0.010	< 0.02	< 0.008	< 0.5	< 0.02	0.161	< 0.009
DEC 17	< 0.06	< 0.008	< 0.02	E0.01	< 0.005	< 0.004	< 0.010	< 0.02	< 0.008	< 0.5	< 0.02	0.009	< 0.009
JAN 10 29 FEB	<0.06 <0.06	<0.008 <0.008	<0.02 <0.02	0.02 E0.01	<0.005 <0.005	<0.004 <0.004	<0.010 <0.010	<0.02 <0.02	<0.008 <0.008	<0.5 <0.5	<0.02 <0.02	0.073 0.037	<0.009 <0.009
11 27 MAR	<0.06 <0.06	<0.008 <0.008	<0.02 <0.02	E0.01 E0.01	<0.005 <0.005	<0.004 <0.004	<0.010 <0.010	<0.02 <0.02	<0.008 <0.008	<0.5 <0.5	<0.02 <0.02	0.042 0.072	<0.009 <0.009
18 APR			< 0.02	< 0.5			< 0.010	< 0.02	< 0.008	< 0.5	< 0.02		< 0.009
14 MAY	< 0.06	< 0.008	< 0.02	E0.01	< 0.005	< 0.004	< 0.010	< 0.02	< 0.008	< 0.5	< 0.02	0.020	< 0.009
07 19 JUN	<0.06 <0.06	<0.008 <0.008	<0.02 <0.02	0.02 0.02	<0.005 <0.005	<0.004 <0.004	<0.010 <0.010	<0.02 <0.02	<0.008 <0.008	M <0.5	E0.01 <0.02	2.30 0.547	E0.010 <0.009
10 27 JUL	<0.06 <0.06	<0.008 <0.008	<0.02 <0.02	E0.01 0.02	<0.005 <0.005	<0.004 <0.004	<0.010 <0.010	<0.02 <0.02	<0.008 <0.008	<0.5 <0.5	<0.02 <0.02	0.120 0.080	<0.009 <0.009
07 30 AUG	<0.06 <0.06	<0.008 <0.008	0.16 <0.02	0.05 0.02	<0.005 <0.005	<0.004 <0.004	<0.010 <0.010	0.04 <0.02	<0.008 <0.008	<0.5 <0.5	<0.02 <0.02	0.243 0.033	<0.009 <0.009
13 SEP	< 0.06	< 0.008	< 0.02	0.05	< 0.005	< 0.004	< 0.010	< 0.02	< 0.008	< 0.5	< 0.02	0.037	< 0.009
10	< 0.06	< 0.008	< 0.02	0.02	< 0.005	< 0.004	< 0.010	< 0.02	< 0.008	< 0.5	< 0.02	0.085	< 0.009
			WATER-0	TIALITY	DATA, WA	TER VEA	р осторі	ED 2002 TO	CEDTEM	DED 2002			
			WAILK-C	QUALITI.	D11111, W1	TILK ILA	K OCTOB	EK 2002 T	J SEPTEM	DEK 2003			
Date	Tebu- thiuron water fltrd 0.7u GF ug/L (82670)	Terbacil, water, fltrd, ug/L (04032)	Ter- bufos oxon sulfone water, fltrd, ug/L (61674)	Terbu- fos, water, fltrd 0.7u GF ug/L (82675)	Ter- buthyl- azine, water, fltrd, ug/L (04022)	tert- Amyl alcohol water unfltrd ug/L (77073)	tert- Butyl- alcohol water unfltrd ug/L (77035)	Tetra- chloro- ethene, water, fltrd, ug/L (34476)	Tri- bromo- methane water, fltrd, ug/L (34288)	Tri- butyl phos- phate, water, fltrd, ug/L (62089)	Tri- clopyr, water, fltrd 0.7u GF ug/L (49235)	Triclo- san, water, fltrd, ug/L (62090)	Triethyl citrate water, fltrd, ug/L (62091)
OCT 31	thiuron water fltrd 0.7u GF ug/L	cil, water, fltrd, ug/L	Ter- bufos oxon sulfone water, fltrd, ug/L	Terbu- fos, water, fltrd 0.7u GF ug/L	Ter- buthyl- azine, water, fltrd, ug/L	tert- Amyl alcohol water unfltrd ug/L	tert- Butyl- alcohol water unfltrd ug/L	Tetra- chloro- ethene, water, fltrd, ug/L	Tri- bromo- methane water, fltrd, ug/L	Tri- butyl phos- phate, water, fltrd, ug/L	clopyr, water, fltrd 0.7u GF ug/L	san, water, fltrd, ug/L	ethyl citrate water, fltrd, ug/L
OCT 31 NOV 14	thiuron water fltrd 0.7u GF ug/L (82670)	cil, water, fltrd, ug/L (04032)	Ter- bufos oxon sulfone water, fltrd, ug/L (61674)	Terbu- fos, water, fltrd 0.7u GF ug/L (82675)	Ter- buthyl- azine, water, fltrd, ug/L (04022)	tert- Amyl alcohol water unfltrd ug/L (77073)	tert- Butyl- alcohol water unfltrd ug/L (77035)	Tetra- chloro- ethene, water, fltrd, ug/L (34476)	Tri- bromo- methane water, fltrd, ug/L (34288)	Tri- butyl phos- phate, water, fltrd, ug/L (62089)	clopyr, water, fltrd 0.7u GF ug/L (49235)	san, water, fltrd, ug/L (62090)	ethyl citrate water, fltrd, ug/L (62091)
OCT 31 NOV 14 DEC 17	thiuron water fltrd 0.7u GF ug/L (82670) <0.02	cil, water, fltrd, ug/L (04032) <0.010	Terbufos oxon sulfone water, fltrd, ug/L (61674)	Terbu- fos, water, fltrd 0.7u GF ug/L (82675) <0.02	Ter- buthyl- azine, water, fltrd, ug/L (04022)	tert- Amyl alcohol water unfltrd ug/L (77073)	tert- Butyl- alcohol water unfltrd ug/L (77035)	Tetra- chloro- ethene, water, fltrd, ug/L (34476)	Tri- bromo- methane water, fltrd, ug/L (34288)	Tri- butyl phos- phate, water, fltrd, ug/L (62089)	clopyr, water, fltrd 0.7u GF ug/L (49235)	san, water, fltrd, ug/L (62090)	ethyl citrate water, fltrd, ug/L (62091)
OCT 31 NOV 14 DEC 17 JAN 10 29	thiuron water fltrd 0.7u GF ug/L (82670) <0.02 E0.01	cil, water, fltrd, ug/L (04032) <0.010	Terbufos oxon sulfone water, fltrd, ug/L (61674) <0.07	Terbu- fos, water, fltrd 0.7u GF ug/L (82675) <0.02	Ter- buthyl- azine, water, fltrd, ug/L (04022) M E0.01	tert- Amyl alcohol water unfltrd ug/L (77073) <0.43	tert-Butyl-alcohol water unfltrd ug/L (77035)	Tetra-chloro-ethene, water, fltrd, ug/L (34476) <0.5	Tri-bromo-methane water, fltrd, ug/L (34288) <0.5	Tri- butyl phos- phate, water, fltrd, ug/L (62089) <0.5	clopyr, water, fltrd 0.7u GF ug/L (49235) 0.08	san, water, fltrd, ug/L (62090) M M	ethyl citrate water, fltrd, ug/L (62091) M E0.1
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27	thiuron water fltrd 0.7u GF ug/L (82670) <0.02 E0.01 <0.02 <0.02	cil, water, fltrd, ug/L (04032) <0.010 <0.010 <0.010	Ter- bufos oxon sulfone water, fltrd, ug/L (61674) <0.07 <0.07 <0.07	Terbu- fos, water, fltrd 0.7u GF ug/L (82675) <0.02 <0.02 <0.02 <0.02	Terbuthylazine, water, fltrd, ug/L (04022) M E0.01 -0.01	tert- Amyl alcohol water unfltrd ug/L (77073) <0.43 <0.43 <0.43	tert-Butyl-alcohol water unfltrd ug/L (77035)	Tetra-chloro-ethene, water, fltrd, ug/L (34476) <0.5 <0.5 <0.5	Tribromomethane water, flttd, ug/L (34288) <0.5 <0.5 <0.5	Tri-butyl phos-phate, water, fltrd, ug/L (62089) <0.5 <0.5 E0.1 <0.5	clopyr, water, fltrd 0.7u GF ug/L (49235) 0.08 0.21 E0.02 0.04	san, water, fltrd, ug/L (62090) M M <1	ethyl citrate water, fltrd, ug/L (62091) M E0.1 M
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18	thiuron water fltrd 0.7u GF ug/L (82670) <0.02 E0.01 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	cil, water, fltrd, ug/L (04032) <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	Ter-bufos oxon sulfone water, fltrd, ug/L (61674) <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07	Terbufos, water, fltrd 0.7u GF ug/L (82675) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	Terbuthylazine, water, fltrd, ug/L (04022) M E0.01 -0.01 -0.01 -0.01	tert- Amyl alcohol water unfltrd ug/L (77073) <0.43 <0.43 <0.43 <0.43 <0.43	tert-Butyl-alcohol water unfltrd ug/L (77035) <1 <1 <1 <1 <1 <1 <1 <1 <1	Tetra-chloro-ethene, water, fltrd, ug/L (34476) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	Tri-bromo-methane water, fltrd, ug/L (34288) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	Tri-butyl phos-phate, water, fltrd, ug/L (62089) <0.5 <0.5 E0.1 <0.5 <0.5 <0.5 <0.5	clopyr, water, fltrd 0.7u GF ug/L (49235) 0.08 0.21 E0.02 0.04 <0.02	san, water, fltrd, ug/L (62090) M M <1 <1 <1	ethyl citrate water, fltrd, ug/L (62091) M E0.1 M M E0.2 <0.5
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14	thiuron water fltrd 0.7u GF ug/L (82670) <0.02 E0.01 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	cil, water, fltrd, ug/L (04032) <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	Ter-bufos oxon sulfone water, fltrd, ug/L (61674) <0.07 <0.07 <0.07 <0.07 <0.07 <0.07	Terbu- fos, water, fltrd 0.7u GF ug/L (82675) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	Ter-buthyl-azine, water, fltrd, ug/L (04022) M E0.01 <0.01 <0.01 <0.01 <0.01	tert- Amyl alcohol water unfltrd ug/L (77073) <0.43 <0.43 <0.43 <0.43 <0.43	tert-Butyl-alcohol water unfltrd ug/L (77035) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	Tetra-chloro-ethene, water, fltrd, ug/L (34476) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	Tri-bromo-methane water, fltrd, ug/L (34288) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	Tri-butyl phos-phate, water, fltrd, ug/L (62089) <0.5 <0.5 E0.1 <0.5 <0.5 <0.5	clopyr, water, fltrd 0.7u GF ug/L (49235) 0.08 0.21 E0.02 0.04 <0.02 0.02	san, water, fltrd, ug/L (62090) M M <1 <1 <1 <1 <1	ethyl citrate water, fltrd, ug/L (62091) M E0.1 M E0.2 <0.5 M
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14 MAY 07	thiuron water filtrd 0.7u GF ug/L (82670) <0.02 E0.01 <0.02 <0.02 <0.02 <0.02 -0.02 <0.02 -0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 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<0.5 M <0.5
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14 MAY 07 19 JUN 10 27	thiuron water fltrd 0.7u GF ug/L (82670) <0.02 E0.01 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	cil, water, fltrd, ug/L (04032) <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	Terbufos oxon sulfone water, fltrd, ug/L (61674) <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07	Terbufos, water, fltrd 0.7u GF ug/L (82675) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.0	Terbuthylazine, water, fltrd, ug/L (04022) M E0.01	tert-Amyl alcohol water unfltrd ug/L (77073) <0.43 <0.43 <0.43 <0.43 <0.43 <0.43 <0.43 <0.43 <0.43 <0.43	tert-Butyl-alcohol water unfltrd ug/L (77035) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	Tetra-chloro-ethene, water, fltrd, ug/L (34476) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	Tribromomethane water, flttd, ug/L (34288) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	Tri-butyl phos-phate, water, fltrd, ug/L (62089) <0.5 <0.5 E0.1 <0.5 <0.5 <0.5 M <0.5	clopyr, water, fltrd 0.7u GF ug/L (49235) 0.08 0.21 E0.02 0.04 <0.02 <0.02 <0.02 <0.02 <0.07	san, water, fltrd, ug/L (62090) M M <1 <1 <1 <1 <1 <1 <1 <1	ethyl citrate water, fltrd, ug/L (62091) M E0.1 M M E0.2 <0.5 M <0.5
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14 MAY 07 19 JUN 10 27 JUN 10 27 JUL 07 30	thiuron water fltrd 0.7u GF ug/L (82670) <0.02 E0.01 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <	cil, water, fltrd, ug/L (04032) <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	Ter-bufos oxon sulfone water, fltrd, ug/L (61674) <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07	Terbufos, water, fltrd 0.7u GF ug/L (82675) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.0	Terbuthylazine, water, fltrd, ug/L (04022) M E0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	tert-Amyl alcohol water unfltrd ug/L (77073) <0.43 <0.43 <0.43 <0.43 <0.43 <0.43 <0.43 <0.43 <0.43 <0.43 <0.43 <0.43 <0.43 <0.43 <0.43 <0.43	tert-Butyl-alcohol water unfltrd ug/L (77035) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	Tetra-chloro-ethene, water, fltrd, ug/L (34476) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	Tri-bromomethane water, fltrd, ug/L (34288) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	Tri-butyl phos-phate, water, fltrd, ug/L (62089) <0.5 <0.5 E0.1 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	clopyr, water, fltrd 0.7u GF ug/L (49235) 0.08 0.21 E0.02 0.04 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	san, water, flttnd, ug/L (62090) M M <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	ethyl citrate water, fltrd, ug/L (62091) M E0.1 M M E0.2 <0.5 M <0.5 S M <0.5 <0.5
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 14 MAY 07 19 JUN 10 27 JUL 07	thiuron water filtrd 0.7u GF ug/L (82670) <0.02 E0.01 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	cil, water, fltrd, ug/L (04032) <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	Terbufos oxon sulfone water, fltrd, ug/L (61674) <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07	Terbufos, water, fltrd 0.7u GF ug/L (82675) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.0	Terbuthylazine, water, fltrd, ug/L (04022) M E0.01	tert-Amyl alcohol water unfltrd ug/L (77073) <0.43 <0.43 <0.43 <0.43 <0.43 <0.43 <0.43 <0.43 <0.43 <0.43 <0.43 <0.43 <0.43 <0.43 <0.43 <0.43 <0.43 <0.43 <0.43	tert-Butyl-alcohol water unfltrd ug/L (77035) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	Tetra-chloro-ethene, water, fltrd, ug/L (34476) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	Tri-bromomethane water, fltrd, ug/L (34288) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	Tri-butyl phos-phate, water, fltrd, ug/L (62089) <0.5 <0.5 E0.1 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	clopyr, water, fltrd 0.7u GF ug/L (49235) 0.08 0.21 E0.02 0.04 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 0.07 <0.02 <0.02 0.07 <0.02 0.07 <0.02	san, water, fltrd, ug/L (62090) M M <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	ethyl citrate water, fltrd, ug/L (62091) M E0.1 M M E0.2 <0.5 M <0.5 <0.5 <0.5 <0.5 <0.5

Date	Tri- flur- alin, water, fltrd 0.7u GF ug/L (82661)	Tri- phenyl phos- phate, water, fltrd, ug/L (62092)	Tris(2- butoxy- ethyl) phos- phate, wat flt ug/L (62093)	Tris(2- chloro- ethyl) phos- phate, wat flt ug/L (62087)	Tris(di chloro- i-Pr) phos- phate, wat flt ug/L (62088)	1,1,1,2 -Tetra- chloro- ethane, water, unfltrd ug/L (77562)	1,1,1- Tri- chloro- ethane, water, unfltrd ug/L (34506)	1,1,2,2 -Tetra- chloro- ethane, water, unfltrd ug/L (34516)	CFC-113 water unfltrd ug/L (77652)	1,1,2- Tri- chloro- ethane, water, unfltrd ug/L (34511)	1,1-Di- chloro- ethane, water unfltrd ug/L (34496)	1,1-Di- chloro- ethene, water, unfltrd ug/L (34501)	1,1-Di- chloro- propene water unfltrd ug/L (77168)
OCT 31	< 0.009	< 0.5	< 0.5	E0.1	M	< 0.03	< 0.03	< 0.09	< 0.06	< 0.06	< 0.04	< 0.04	< 0.05
NOV 14	E0.004	M	<0.5	E0.1	E0.1	<0.03	<0.03	<0.09	<0.06	< 0.06	<0.04	<0.04	<0.05
DEC 17	< 0.009	< 0.5	< 0.5	E0.1	<0.5	< 0.03	< 0.03	< 0.09	< 0.06	< 0.06	< 0.04	< 0.04	< 0.05
JAN 10 29	<0.009 <0.009	<0.5 <0.5	<0.5 <0.5	M <0.5	<0.5 <0.5	<0.03 <0.03	<0.03 <0.03	<0.09 <0.09	<0.06 <0.06	<0.06 <0.06	<0.04 <0.04	<0.04 <0.04	<0.05 <0.05
FEB 11 27	<0.009 <0.009	<0.5 <0.5	<0.5 E0.2	<0.5 <0.5	<0.5 <0.5	<0.03 <0.03	<0.03 <0.03	<0.09 <0.09	<0.06 <0.06	<0.06 <0.06	<0.04 <0.04	<0.04 <0.04	<0.05 <0.05
MAR 18		< 0.5	< 0.5	< 0.5	< 0.5	< 0.03	< 0.03	< 0.09	< 0.06	< 0.06	< 0.04	< 0.04	< 0.05
APR 14 MAY	< 0.009	< 0.5	< 0.5	< 0.5	< 0.5	< 0.03	< 0.03	< 0.09	< 0.06	< 0.06	< 0.04	< 0.04	< 0.05
07 19 JUN	<0.009 <0.009	<0.5 M	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.03 <0.03	<0.03 <0.03	<0.09 <0.09	<0.06 <0.06	<0.06 <0.06	<0.04 <0.04	<0.04 <0.04	<0.05 <0.05
10 27 JUL	<0.009 <0.009	<0.5 <0.5	E0.3 E0.3	<0.5 M	M <0.5	<0.03 <0.03	<0.03 <0.03	<0.09 <0.09	<0.06 <0.06	<0.06 <0.06	<0.04 <0.04	<0.04 <0.04	<0.05 <0.05
07 30	<0.009 <0.009	<0.5 <0.5	<0.5 E0.2	<0.5 E0.1	<0.5 E0.1	<0.03 <0.03	<0.03 <0.03	<0.09 <0.09	<0.06 <0.06	<0.06 <0.06	<0.04 <0.04	<0.04 <0.04	<0.05 <0.05
AUG 13	< 0.009	< 0.5	E0.2	E0.1	E0.1	< 0.03	< 0.03	< 0.09	< 0.06	< 0.06	< 0.04	< 0.04	< 0.05
SEP 10	< 0.009	M	< 0.5	M	M	< 0.03	< 0.03	< 0.09	< 0.06	< 0.06	< 0.04	< 0.04	< 0.05
			WATER-0	QUALITY :	DATA, WA	ATER YEA	R OCTOB	ER 2002 T	O SEPTEM	BER 2003			
Date	1,2,3,4 Tetra- methyl- benzene water unfltrd ug/L (49999)	1,2,3,5 Tetra- methyl- benzene water unfltrd ug/L (50000)	1,2,3- Tri- chloro- benzene water unfltrd ug/L (77613)	1,2,3- Tri- chloro- propane water unfltrd ug/L (77443)	DATA, WA 1,2,3- Tri- methyl- benzene water unfltrd ug/L (77221)	1,2,4- Tri- chloro- benzene water unfltrd ug/L (34551)	1,2,4- Tri- methyl- benzene water unfltrd ug/L (77222)	Dibromo chloro- propane water unfltrd ug/L (82625)	1,2-Di- bromo- ethane, water, unfltrd ug/L (77651)	1,2-Di- chloro- benzene water unfltrd ug/L (34536)	1,2-Di- chloro- ethane, water, unfltrd ug/L (32103)	1,2-Di- chloro- propane water unfltrd ug/L (34541)	1,3,5- Tri- methyl- benzene water unfltrd ug/L (77226)
OCT	Tetra- methyl- benzene water unfltrd ug/L (49999)	Tetra- methyl- benzene water unfltrd ug/L (50000)	1,2,3- Tri- chloro- benzene water unfltrd ug/L (77613)	1,2,3- Tri- chloro- propane water unfltrd ug/L (77443)	1,2,3- Tri- methyl- benzene water unfltrd ug/L (77221)	1,2,4- Tri- chloro- benzene water unfltrd ug/L (34551)	1,2,4- Tri- methyl- benzene water unfltrd ug/L (77222)	Dibromo chloro- propane water unfltrd ug/L (82625)	1,2-Di- bromo- ethane, water, unfltrd ug/L (77651)	1,2-Di- chloro- benzene water unfltrd ug/L (34536)	chloro- ethane, water, unfltrd ug/L (32103)	chloro- propane water unfltrd ug/L (34541)	Tri- methyl- benzene water unfltrd ug/L (77226)
	Tetra- methyl- benzene water unfltrd ug/L	Tetra- methyl- benzene water unfltrd ug/L	1,2,3- Tri- chloro- benzene water unfltrd ug/L	1,2,3- Tri- chloro- propane water unfltrd ug/L	1,2,3- Tri- methyl- benzene water unfltrd ug/L	1,2,4- Tri- chloro- benzene water unfltrd ug/L	1,2,4- Tri- methyl- benzene water unfltrd ug/L	Dibromo chloro- propane water unfltrd ug/L	1,2-Di- bromo- ethane, water, unfltrd ug/L	1,2-Di- chloro- benzene water unfltrd ug/L	chloro- ethane, water, unfltrd ug/L	chloro- propane water unfltrd ug/L	Tri- methyl- benzene water unfltrd ug/L
OCT 31 NOV 14 DEC 17	Tetra- methyl- benzene water unfltrd ug/L (49999)	Tetra- methyl- benzene water unfltrd ug/L (50000)	1,2,3- Tri- chloro- benzene water unfltrd ug/L (77613)	1,2,3- Tri- chloro- propane water unfltrd ug/L (77443)	1,2,3- Tri- methyl- benzene water unfltrd ug/L (77221)	1,2,4- Tri- chloro- benzene water unfltrd ug/L (34551)	1,2,4- Tri- methyl- benzene water unfltrd ug/L (77222)	Dibromo chloro- propane water unfltrd ug/L (82625)	1,2-Di- bromo- ethane, water, unfltrd ug/L (77651)	1,2-Di- chloro- benzene water unfltrd ug/L (34536) <0.03	chloro- ethane, water, unfltrd ug/L (32103)	chloro- propane water unfltrd ug/L (34541)	Tri-methyl-benzene water unfltrd ug/L (77226)
OCT 31 NOV 14 DEC 17 JAN 10 29	Tetramethyl- benzene water unfltrd ug/L (49999) <0.2	Tetramethylbenzene water unfltrd ug/L (50000) <0.2 <0.2	1,2,3- Tri- chloro- benzene water unfltrd ug/L (77613) <0.3	1,2,3- Tri- chloro- propane water unfltrd ug/L (77443) <0.16	1,2,3- Tri- methyl- benzene water unfltrd ug/L (77221) <0.1	1,2,4- Tri- chloro- benzene water unfltrd ug/L (34551) <0.1	1,2,4- Tri- methyl- benzene water unfltrd ug/L (77222) <0.06	Dibromo chloro-propane water unfltrd ug/L (82625) <0.5	1,2-Di- bromo- ethane, water, unfltrd ug/L (77651) <0.04	1,2-Di- chloro- benzene water unfltrd ug/L (34536) <0.03	chloro- ethane, water, unfltrd ug/L (32103) <0.1	chloro- propane water unfltrd ug/L (34541) <0.03	Tri-methyl-benzene water unfltrd ug/L (77226) <0.04
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27	Tetramethylbenzene water unfltrd ug/L (49999) <0.2 <0.2 <0.2 <0.2 <0.2	Tetramethylbenzene water unfltrd ug/L (50000) <0.2 <0.2 <0.2 <0.2 <0.2	1,2,3- Tri- chloro- benzene water unfltrd ug/L (77613) <0.3 <0.3 <0.3	1,2,3- Tri- chloro- propane water unfltrd ug/L (77443) <0.16 <0.16 <0.16	1,2,3- Tri- methyl- benzene water unfltrd ug/L (77221) <0.1 <0.1	1,2,4- Tri- chloro- benzene water unfltrd ug/L (34551) <0.1 <0.1	1,2,4- Tri- methyl- benzene water unfltrd ug/L (77222) <0.06 <0.06 <0.06	Dibromo chloro-propane water unfltrd ug/L (82625) <0.5 <0.5 <0.5	1,2-Di- bromo- ethane, water, unfltrd ug/L (77651) <0.04 <0.04 <0.04	1,2-Di-chloro-benzene water unfitrd ug/L (34536) <0.03 <0.03 <0.03	chloro-ethane, water, unfltrd ug/L (32103) <0.1 <0.1 <0.1 <0.1	chloro- propane water unfltrd ug/L (34541) <0.03 <0.03 <0.03	Tri-methyl-benzene water unfltrd ug/L (777226) <0.04 <0.04 <0.04 <0.04
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18	Tetramethyl- benzene water unfltrd ug/L (49999) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	Tetramethylbenzene water unfltrd ug/L (50000) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	1,2,3- Tri- chloro- benzene water unfltrd ug/L (77613) <0.3 <0.3 <0.3 <0.3 <0.3	1,2,3- Tri- chloro- propane water unfltrd ug/L (77443) <0.16 <0.16 <0.16 <0.16 <0.16	1,2,3- Tri- methyl- benzene water unfltrd ug/L (77221) <0.1 <0.1 <0.1 <0.1 <0.1	1,2,4- Tri- chloro- benzene water unfltrd ug/L (34551) <0.1 <0.1 <0.1 <0.1	1,2,4- Tri- methyl- benzene water unfltrd ug/L (77222) <0.06 <0.06 <0.06 <0.06 <0.06	Dibromo chloro-propane water unfltrd ug/L (82625) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	1,2-Di- bromo- ethane, water, unfltrd ug/L (77651) <0.04 <0.04 <0.04 <0.04 <0.04	1,2-Di- chloro- benzene water unfltrd ug/L (34536) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	chloro- ethane, water, unfltrd ug/L (32103) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	chloro- propane water unfltrd ug/L (34541) <0.03 <0.03 <0.03 <0.03 <0.03	Tri-methyl-benzene water unfltrd ug/L (77226) <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14	Tetramethylbenzene water unfltrd ug/L (49999) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	Tetramethylbenzene water unfltrd ug/L (50000) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	1,2,3- Tri- chloro- benzene water unfltrd ug/L (77613) <0.3 <0.3 <0.3 <0.3 <0.3 <0.3	1,2,3- Tri- chloro- propane water unfltrd ug/L (77443) <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16	1,2,3- Tri- methyl- benzene water unfltrd ug/L (77221) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	1,2,4- Tri- chloro- benzene water unfltrd ug/L (34551) <0.1 <0.1 <0.1 <0.1 <0.1	1,2,4- Tri- methyl- benzene water unfltrd ug/L (77222) <0.06 <0.06 <0.06 <0.06 <0.06 <0.06	Dibromo chloro-propane water unfltrd ug/L (82625) < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	1,2-Di- bromo- ethane, water, unfiltrd ug/L (77651) <0.04 <0.04 <0.04 <0.04 <0.04	1,2-Di- chloro- benzene water unfitrd ug/L (34536) <0.03 <0.03 <0.03 <0.03 <0.03	chloro-ethane, water, unfiltrd ug/L (32103) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	chloro-propane water unfiltrd ug/L (34541) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	Tri-methyl-benzene water unfltrd ug/L (77226) <0.04 <0.04 <0.04 <0.04 <0.04 <0.04
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14 MAY 07 19	Tetramethyl- benzene water unfltrd ug/L (49999) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	Tetramethylbenzene water unfltrd ug/L (50000) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	1,2,3- Tri- chloro- benzene water unfltrd ug/L (77613) <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.	1,2,3- Tri- chloro- propane water unfltrd ug/L (77443) <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16	1,2,3- Tri- methyl- benzene water unfltrd ug/L (77221) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	1,2,4- Tri- chloro- benzene water unfltrd ug/L (34551) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	1,2,4- Tri- methyl- benzene water unfltrd ug/L (77222) <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06	Dibromo chloro-propane water unfltrd ug/L (82625) < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.	1,2-Di- bromo- ethane, water, unfltrd ug/L (77651) <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04	1,2-Di- chloro- benzene water unfltrd ug/L (34536) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	chloro-ethane, water, unfltrd ug/L (32103) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	chloro-propane water unfltrd ug/L (34541) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	Tri-methyl-benzene water unfltrd ug/L (77226) <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14 MAY 07 19 JUN 10 27	Tetramethylbenzene water unfltrd ug/L (49999) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	Tetramethylbenzene water unfltrd ug/L (50000) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.	1,2,3- Tri- chloro- benzene water unfltrd ug/L (77613) <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.	1,2,3- Tri- chloro- propane water unfltrd ug/L (77443) <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16	1,2,3- Tri- methyl- benzene water unfltrd ug/L (77221) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	1,2,4- Tri- chloro- benzene water unfltrd ug/L (34551) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	1,2,4- Tri- methyl- benzene water unfltrd ug/L (77222) <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06	Dibromo chloro-propane water unfltrd ug/L (82625) < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.	1,2-Di-bromo-ethane, water, unfiltrd ug/L (77651) <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04	1,2-Di- chloro- benzene water unfitrd ug/L (34536) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	chloro-ethane, water, unfltrd ug/L (32103) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	chloro-propane water unfiltrd ug/L (34541) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	Tri-methyl-benzene water unfltrd ug/L (77226) <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14 MAY 07 19 JUN 10 27 JUN 10 30	Tetramethyl-benzene water unfiltrd ug/L (49999) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.	Tetramethylbenzene water unfltrd ug/L (50000) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.	1,2,3- Tri- chloro- benzene water unfltrd ug/L (77613) <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.	1,2,3- Tri- chloro- propane water unfltrd ug/L (77443) <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16	1,2,3- Tri- methyl- benzene water unfltrd ug/L (77221) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	1,2,4- Tri- chloro- benzene water unfltrd ug/L (34551) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	1,2,4- Tri- methyl- benzene water unfltrd ug/L (77222) <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06	Dibromo chloro-propane water unfltrd ug/L (82625) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	1,2-Di-bromo-ethane, water, unfiltrd ug/L (77651) <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04	1,2-Di- chloro- benzene water unfltrd ug/L (34536) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	chloroethane, water, unfltrd ug/L (32103) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	chloro-propane water unfiltrd ug/L (34541) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	Tri-methyl-benzene water unfltrd ug/L (77226) <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14 MAY 07 19 JUN 10 27 JUN 10 27 JUL 07	Tetramethylbenzene water unfltrd ug/L (49999) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.	Tetramethylbenzene water unfltrd ug/L (50000) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.	1,2,3- Tri- chloro- benzene water unfltrd ug/L (77613) <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.	1,2,3- Tri- chloro- propane water unfltrd ug/L (77443) <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16 <0.16	1,2,3- Tri- methyl- benzene water unfltrd ug/L (77221) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	1,2,4- Tri- chloro- benzene water unfltrd ug/L (34551) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	1,2,4- Tri- methyl- benzene water unfltrd ug/L (77222) <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06	Dibromo chloro-propane water unfltrd ug/L (82625) < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.	1,2-Di-bromo-ethane, water, unfltrd ug/L (77651) <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04	1,2-Di- chloro- benzene water unfltrd ug/L (34536) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	chloro-ethane, water, unfltrd ug/L (32103) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	chloro-propane water unfltrd ug/L (34541) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	Tri-methyl-benzene water unfltrd ug/L (77226) <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04

Date	1,3-Di- chloro- benzene water unfltrd ug/L (34566)	1,3-Di- chloro- propane water unfltrd ug/L (77173)	1,4-Di- chloro- benzene water unfltrd ug/L (34571)	2,2-Di- chloro- propane water unfltrd ug/L (77170)	2- Chloro- toluene water unfltrd ug/L (77275)	2- Ethyl- toluene water unfltrd ug/L (77220)	3- Chloro- propene water unfltrd ug/L (78109)	4- Chloro- toluene water unfltrd ug/L (77277)	4-Iso- propyl- toluene water unfltrd ug/L (77356)	Acetone water unfltrd ug/L (81552)	Acrylo- nitrile water unfltrd ug/L (34215)	Benzene water unfltrd ug/L (34030)	Bromo- benzene water unfltrd ug/L (81555)
OCT 31	< 0.03	<0.1	< 0.05	< 0.05	< 0.04	< 0.06	< 0.12	< 0.05	< 0.12	<7	<1	< 0.04	< 0.04
NOV 14	< 0.03	< 0.1	< 0.05	< 0.05	< 0.04	< 0.06	< 0.12	< 0.05	< 0.12	<7	<1	< 0.04	< 0.04
DEC 17	< 0.03	< 0.1	< 0.05	< 0.05	< 0.04	< 0.06	< 0.12	< 0.05	< 0.12	<7	<1	< 0.04	< 0.04
JAN 10 29	<0.03 <0.03	<0.1 <0.1	<0.05 <0.05	<0.05 <0.05	<0.04 <0.04	<0.06 <0.06	<0.12 <0.12	<0.05 <0.05	<0.12 <0.12	<7 <7	<1 <1	<0.04 E0.01	<0.04 <0.04
FEB 11 27	<0.03 <0.03	<0.1 <0.1	<0.05 <0.05	<0.05 <0.05	<0.04 <0.04	<0.06 <0.06	<0.12 <0.12	<0.05 <0.05	<0.12 <0.12	<7 E2	<1 <1	<0.04 E0.02	<0.04 <0.04
MAR 18	< 0.03	< 0.1	< 0.05	< 0.05	< 0.04	< 0.06	< 0.12	< 0.05	< 0.12	<7	<1	< 0.04	< 0.04
APR 14 MAY	< 0.03	< 0.1	< 0.05	< 0.05	< 0.04	E0.02	< 0.12	< 0.05	< 0.12	<7	<1	E0.02	< 0.04
07 19 JUN	<0.03 <0.03	<0.1 <0.1	<0.05 <0.05	<0.05 <0.05	<0.04 <0.04	<0.06 <0.06	<0.12 <0.12	<0.05 <0.05	<0.12 <0.12	<7 <7	<1 <1	<0.04 <0.04	<0.04 <0.04
10 27 JUL	<0.03 <0.03	<0.1 <0.1	<0.05 <0.05	<0.05 <0.05	<0.04 <0.04	<0.06 <0.06	<0.12 <0.12	<0.05 <0.05	<0.12 <0.12	<7 <7	<1 <1	E0.02 <0.04	<0.04 <0.04
07 30 AUG	<0.03 <0.03	<0.1 <0.1	<0.05 <0.05	<0.05 <0.05	<0.04 <0.04	<0.06 <0.06	<0.12 <0.12	<0.05 <0.05	<0.12 <0.12	<7 <7	<1 <1	<0.04 <0.04	<0.04 <0.04
13 SEP	< 0.03	< 0.1	< 0.05	< 0.05	< 0.04	< 0.06	< 0.12	< 0.05	< 0.12	<7	<1	< 0.04	< 0.04
10	< 0.03	< 0.1	< 0.05	< 0.05	< 0.04	< 0.06	< 0.12	< 0.05	< 0.12	<7	<1	< 0.04	< 0.04
			WATER-0	QUALITY	DATA, WA	ATER YEA	R OCTOB	ER 2002 TO) SEPTEM	BER 2003			
				•	,								
Date	Bromo- chloro- methane water unfltrd ug/L (77297)	Bromo- di- chloro- methane water unfltrd ug/L (32101)	Bromoethene, water, unfltrd ug/L (50002)	Bromo- methane water unfltrd ug/L (34413)	Carbon di- sulfide water unfltrd ug/L (77041)	Chloro- benzene water unfltrd ug/L (34301)	Chloro- ethane, water, unfltrd ug/L (34311)	Chloro- methane water unfltrd ug/L (34418)	cis- 1,2-Di- chloro- ethene, water, unfltrd ug/L (77093)	Di- bromo- chloro- methane water unfltrd ug/L (32105)	Di- bromo- methane water unfltrd ug/L (30217)	Di- chloro- di- fluoro- methane wat unf ug/L (34668)	Di- chloro- methane water unfltrd ug/L (34423)
OCT 31	chloro- methane water unfltrd ug/L	di- chloro- methane water unfltrd ug/L	Bromo- ethene, water, unfltrd ug/L	Bromo- methane water unfltrd ug/L	Carbon di- sulfide water unfltrd ug/L	benzene water unfltrd ug/L	Chloro- ethane, water, unfltrd ug/L	Chloro- methane water unfltrd ug/L	cis- 1,2-Di- chloro- ethene, water, unfltrd ug/L	Di- bromo- chloro- methane water unfltrd ug/L	bromo- methane water unfltrd ug/L	chloro- di- fluoro- methane wat unf ug/L	chloro- methane water unfltrd ug/L
OCT 31 NOV 14	chloro- methane water unfltrd ug/L (77297)	di- chloro- methane water unfltrd ug/L (32101)	Bromoethene, water, unfltrd ug/L (50002)	Bromomethane water unfltrd ug/L (34413)	Carbon di- sulfide water unfltrd ug/L (77041)	benzene water unfltrd ug/L (34301)	Chloro- ethane, water, unfltrd ug/L (34311)	Chloro- methane water unfltrd ug/L (34418)	cis- 1,2-Di- chloro- ethene, water, unfltrd ug/L (77093)	Di- bromo- chloro- methane water unfltrd ug/L (32105)	bromo- methane water unfltrd ug/L (30217)	chloro- di- fluoro- methane wat unf ug/L (34668)	chloro- methane water unfltrd ug/L (34423)
OCT 31 NOV 14 DEC 17	chloro- methane water unfltrd ug/L (77297)	di- chloro- methane water unfltrd ug/L (32101)	Bromoethene, water, unfltrd ug/L (50002)	Bromomethane water unfltrd ug/L (34413)	Carbon disulfide water unfltrd ug/L (77041)	benzene water unfltrd ug/L (34301) <0.03	Chloro- ethane, water, unfltrd ug/L (34311)	Chloro-methane water unfltrd ug/L (34418)	cis- 1,2-Di- chloro- ethene, water, unfltrd ug/L (77093)	Di- bromo- chloro- methane water unfltrd ug/L (32105)	bromo- methane water unfltrd ug/L (30217)	chloro- di- fluoro- methane wat unf ug/L (34668)	chloro- methane water unfltrd ug/L (34423)
OCT 31 NOV 14 DEC 17 JAN 10 29	chloro- methane water unfltrd ug/L (77297) <0.12	di- chloro- methane water unfltrd ug/L (32101) 0.11 <0.05	Bromoethene, water, unfltrd ug/L (50002) <0.1	Bromomethane water unfltrd ug/L (34413) <0.3 <0.3	Carbon disulfide water unfltrd ug/L (77041) <0.07	benzene water unfltrd ug/L (34301) <0.03 <0.03	Chloroethane, water, unfltrd ug/L (34311) <0.1	Chloro-methane water unfltrd ug/L (34418) <0.2 <0.2	cis- 1,2-Di- chloro- ethene, water, unfltrd ug/L (77093) 0.54 0.23	Di- bromo- chloro- methane water unfltrd ug/L (32105) E0.1 <0.2	bromomethane water unfltrd ug/L (30217) <0.05 <0.05	chloro- di- fluoro- methane wat unf ug/L (34668) <0.18	chloro- methane water unfltrd ug/L (34423) <0.2 <0.2
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11	chloro-methane water unfltrd ug/L (77297) <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12	di- chloro- methane water unfltrd ug/L (32101) 0.11 <0.05 <0.05 <0.05 <0.05	Bromoethene, water, unfltrd ug/L (50002) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	Bromomethane water unfltrd ug/L (34413) <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3	Carbon disulfide water unfltrd ug/L (77041) <0.07 <0.07 <0.07 <0.07 <0.07 <0.07	benzene water unfltrd ug/L (34301) <0.03 <0.03 <0.03 <0.03 <0.03	Chloroethane, water, unfltrd ug/L (34311) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	Chloromethane water unfltrd ug/L (34418) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	cis- 1,2-Di- chloro- ethene, water, unfltrd ug/L (77093) 0.54 0.23 0.35 E0.07 0.32	Dibromochloromethane water unfltrd ug/L (32105) E0.1 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	bromomethane water unfltrd ug/L (30217) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	chloro-di-fluoro-methane wat unf ug/L (34668) <0.18 <0.18 <0.18 <0.18 <0.18 <0.18	chloro-methane water unfltrd ug/L (34423) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR	chloro-methane water unfiltrd ug/L (77297) <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12	di- chloro- methane water unfltrd ug/L (32101) 0.11 <0.05 <0.05 <0.05 <0.05 <0.05	Bromoethene, water, unfltrd ug/L (50002) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	Bromomethane water unfltrd ug/L (34413) <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3	Carbon disulfide water unfltrd ug/L (77041) <0.07 <0.07 <0.07 <0.07 <0.07 <0.07	benzene water unfltrd ug/L (34301) <0.03 <0.03 <0.03 <0.03 <0.03	Chloroethane, water, unfltrd ug/L (34311) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	Chloromethane water unfltrd ug/L (34418) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	cis- 1,2-Di- chloro- ethene, water, unfltrd ug/L (77093) 0.54 0.23 0.35 E0.07 0.32	Dibromochloromethane water unfltrd ug/L (32105) E0.1 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	bromomethane water unfiltrd ug/L (30217) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	chloro-di-fluoro-methane wat unf ug/L (34668) <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18	chloro-methane water unfltrd ug/L (34423) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18	chloro-methane water unfltrd ug/L (77297) <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12	di- chloro- methane water unfltrd ug/L (32101) 0.11 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Bromoethene, water, unfltrd ug/L (50002) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	Bromomethane water unfltrd ug/L (34413) <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3	Carbon disulfide water unfltrd ug/L (77041) <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07	benzene water unfltrd ug/L (34301) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	Chloroethane, water, unfltrd ug/L (34311) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	Chloromethane water unfiltrd ug/L (34418) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	cis- 1,2-Di- chloro- ethene, water, unfltrd ug/L (77093) 0.54 0.23 0.35 E0.07 0.32 0.23 0.19 E0.09	Di- bromo- chloro- methane water unfltrd ug/L (32105) E0.1 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	bromomethane water unfltrd ug/L (30217) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	chloro-di-fluoro-methane wat unf ug/L (34668) <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18	chloro-methane water unfltrd ug/L (34423) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14 MAY	chloro-methane water unfltrd ug/L (77297) <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12	di- chloro- methane water unfltrd ug/L (32101) 0.11 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Bromoethene, water, unfiltrd ug/L (50002) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	Bromomethane water unfltrd ug/L (34413) <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3	Carbon di- sulfide water unfltrd ug/L (77041) <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07	benzene water unfltrd ug/L (34301) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	Chloroethane, water, unfitrd ug/L (34311) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	Chloromethane water unfitrd ug/L (34418) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.	cis- 1,2-Di- chloro- ethene, water, unfltrd ug/L (77093) 0.54 0.23 0.35 E0.07 0.32 0.23 0.19 E0.09 E0.05	Di- bromo- chloro- methane water unfltrd ug/L (32105) E0.1 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	bromomethane water unfltrd ug/L (30217) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	chloro-di-fluoro-methane wat unf ug/L (34668) <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18	chloro-methane water unfiltrd ug/L (34423) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14 MAY 07	chloro-methane water unfltrd ug/L (77297) <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12	di- chloro- methane water unfltrd ug/L (32101) 0.11 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Bromoethene, water, unfltrd ug/L (50002) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	Bromomethane water unfltrd ug/L (34413) <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3	Carbon disulfide water unfltrd ug/L (77041) <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07	benzene water unfltrd ug/L (34301) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	Chloroethane, water, unfltrd ug/L (34311) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	Chloromethane water unfiltrd ug/L (34418) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	cis- 1,2-Di- chloro- ethene, water, unfltrd ug/L (77093) 0.54 0.23 0.35 E0.07 0.32 0.23 0.19 E0.09	Di- bromo- chloro- methane water unfltrd ug/L (32105) E0.1 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	bromomethane water unfltrd ug/L (30217) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	chloro-di-fluoro-methane wat unf ug/L (34668) <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18	chloro-methane water unfltrd ug/L (34423) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14 MAY 07 19 JUN 10 27	chloromethane water unfltrd ug/L (77297) <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12	di- chloro- methane water unfltrd ug/L (32101) 0.11 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 E0.04 E0.03	Bromoethene, water, unfiltrd ug/L (50002) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	Bromomethane water unfiltrd ug/L (34413) <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3	Carbon disulfide water unfiltrd ug/L (77041) <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07	benzene water unfltrd ug/L (34301) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	Chloroethane, water, unfiltrd ug/L (34311) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	Chloromethane water unfiltrd ug/L (34418) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.	cis- 1,2-Di- chloro- ethene, water, unfltrd ug/L (77093) 0.54 0.23 0.35 E0.07 0.32 0.23 0.19 E0.09 E0.05 E0.02	Di- bromo- chloro- methane water unfltrd ug/L (32105) E0.1 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	bromomethane water unfltrd ug/L (30217) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	chloro-di-fluoro-methane wat unf ug/L (34668) <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18	chloromethane water unfltrd ug/L (34423) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14 MAY 07 19 JUN 10 27 JUN 10 27 JUL 07 30	chloro-methane water unfltrd ug/L (77297) <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12	di- chloro- methane water unfltrd ug/L (32101) 0.11 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Bromoethene, water, unflird ug/L (50002) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	Bromomethane water unfltrd ug/L (34413) <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3	Carbon disulfide water unfltrd ug/L (77041) <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07	benzene water unfltrd ug/L (34301) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	Chloroethane, water, unfiltrd ug/L (34311) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	Chloromethane water unfiltrd ug/L (34418) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.	cis- 1,2-Di- chloro- ethene, water, unfltrd ug/L (77093) 0.54 0.23 0.35 E0.07 0.32 0.23 0.19 E0.09 E0.05 E0.02 E0.09 E0.08	Di- bromo- chloro- methane water unfltrd ug/L (32105) E0.1 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	bromomethane water unfltrd ug/L (30217) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	chloro-di-fluoro-methane wat unf ug/L (34668) <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18	chloro-methane water unfltrd ug/L (34423) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14 MAY 07 19 JUN 10 27 JUN 10 27 JUL 07	chloromethane water unfltrd ug/L (77297) <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12 <0.12	di- chloro- methane water unfltrd ug/L (32101) 0.11 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Bromoethene, water, unfiltrd ug/L (50002) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	Bromomethane water unfltrd ug/L (34413) <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3	Carbon disulfide water unfltrd ug/L (77041) <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07	benzene water unfltrd ug/L (34301) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	Chloroethane, water, unfltrd ug/L (34311) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	Chloromethane water unfiltrd ug/L (34418) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.	cis- 1,2-Di- chloro- ethene, water, unfltrd ug/L (77093) 0.54 0.23 0.35 E0.07 0.32 0.23 0.19 E0.09 E0.09 E0.05 E0.02 E0.09 E0.08 0.30 E0.03	Di- bromo- chloro- methane water unfltrd ug/L (32105) E0.1 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	bromomethane water unfltrd ug/L (30217) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	chloro-di-fluoro-methane wat unf ug/L (34668) <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18 <0.18	chloro-methane water unfltrd ug/L (34423) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.

Date	Di- ethyl ether, water, unfltrd ug/L (81576)	Diiso- propyl ether, water, unfltrd ug/L (81577)	Ethyl methac- rylate, water, unfltrd ug/L (73570)	Ethyl methyl ketone, water, unfltrd ug/L (81595)	Ethylbenzene water unfltrd ug/L (34371)	Hexa- chloro- buta- diene, water, unfltrd ug/L (39702)	Hexa- chloro- ethane, water, unfltrd ug/L (34396)	Iodo- methane water unfltrd ug/L (77424)	Iso- butyl methyl ketone, water, unfltrd ug/L (78133)	Iso- propyl- benzene water unfltrd ug/L (77223)	Meth- acrylo- nitrile water unfltrd ug/L (81593)	Methyl acryl- ate, water, unfltrd ug/L (49991)	Methyl methac- rylate, water, unfltrd ug/L (81597)
OCT 31	< 0.2	< 0.10	<0.2	<5.0	< 0.03	<0.1	<0.2	< 0.35	<0.4	< 0.06	<0.6	<2.0	< 0.3
NOV 14	< 0.2	< 0.10	<0.2	<5.0	< 0.03	<0.1	<0.2	< 0.35	< 0.4	< 0.06	<0.6	<2.0	< 0.3
DEC 17	< 0.2	< 0.10	< 0.2	<5.0	< 0.03	< 0.1	< 0.2	< 0.35	< 0.4	< 0.06	< 0.6	<2.0	< 0.3
JAN 10 29	<0.2 <0.2	<0.10 <0.10	<0.2 <0.2	<5.0 <5.0	<0.03 <0.03	<0.1 <0.1	<0.2 <0.2	<0.35 <0.35	<0.4 <0.4	<0.06 <0.06	<0.6 <0.6	<2.0 <2.0	<0.3 <0.3
FEB 11 27	<0.2 <0.2	<0.10 <0.10	<0.2 <0.2	<5.0 <5.0	<0.03 <0.03	<0.1 <0.1	<0.2 <0.2	<0.35 <0.35	<0.4 <0.4	<0.06 <0.06	<0.6 <0.6	<2.0 <2.0	<0.3 <0.3
MAR 18	<0.2	<0.10	<0.2	<5.0	<0.03	<0.1	<0.2	<0.35	<0.4	<0.06	<0.6	<2.0	<0.3
APR 14	< 0.2	< 0.10	<0.2	<5.0	E0.02	<0.1	<0.2	< 0.35	<0.4	< 0.06	<0.6	<2.0	< 0.3
MAY 07 19	<0.2 <0.2	<0.10 <0.10	<0.2 <0.2	<5.0 <5.0	<0.03 <0.03	<0.1 <0.1	<0.2 <0.2	<0.35 <0.35	<0.4 <0.4	<0.06 <0.06	<0.6 <0.6	<2.0 <2.0	<0.3 <0.3
JUN 10 27	<0.2 <0.2	<0.10 <0.10	<0.2 <0.2	<5.0 <5.0	<0.03 <0.03	<0.1 <0.1	<0.2 <0.2	<0.35 <0.35	<0.4 <0.4	<0.06 <0.06	<0.6 <0.6	<2.0 <2.0	<0.3 <0.3
JUL 07 30 AUG	<0.2 <0.2	<0.10 <0.10	<0.2 <0.2	<5.0 <5.0	<0.03 <0.03	<0.1 <0.1	<0.2 <0.2	<0.35 <0.35	<0.4 <0.4	<0.06 <0.06	<0.6 <0.6	<2.0 <2.0	<0.3 <0.3
13 SEP	< 0.2	< 0.10	< 0.2	< 5.0	< 0.03	< 0.1	< 0.2	< 0.35	< 0.4	< 0.06	< 0.6	<2.0	< 0.3
10	< 0.2	<0.10	< 0.2	<5.0	< 0.03	< 0.1	< 0.2	< 0.35	< 0.4	< 0.06	< 0.6	<2.0	< 0.3
			WATER-0	QUALITY	DATA, WA	ATER YEA	R OCTOB	ER 2002 TO) SEPTEM	BER 2003			
	Methyl												
Date	tert- pentyl ether, water, unfltrd ug/L (50005)	meta- + para- Xylene, water, unfltrd ug/L (85795)	Naphthalene, water, unfltrd ug/L (34696)	Methyl n-butyl ketone, water, unfltrd ug/L (77103)	n-Butyl benzene water unfltrd ug/L (77342)	n- propyl- benzene water unfltrd ug/L (77224)	o- Xylene, water, unfltrd ug/L (77135)	sec- Butyl- benzene water unfltrd ug/L (77350)	Styrene water unfltrd ug/L (77128)	t-Butyl ethyl ether, water, unfltrd ug/L (50004)	Methyl t-butyl ether, water, unfltrd ug/L (78032)	tert- Butyl- benzene water unfltrd ug/L (77353)	Tetra- chloro- ethene, water, unfltrd ug/L (34475)
OCT 31	tert- pentyl ether, water, unfltrd ug/L	+ para- Xylene, water, unfltrd ug/L	alene, water, unfltrd ug/L	n-butyl ketone, water, unfltrd ug/L	benzene water unfltrd ug/L	propyl- benzene water unfltrd ug/L	Xylene, water, unfltrd ug/L	Butyl- benzene water unfltrd ug/L	water unfltrd ug/L	ethyl ether, water, unfltrd ug/L	t-butyl ether, water, unfltrd ug/L	Butyl- benzene water unfltrd ug/L	chloro- ethene, water, unfltrd ug/L
OCT 31 NOV 14	tert- pentyl ether, water, unfltrd ug/L (50005)	+ para- Xylene, water, unfltrd ug/L (85795)	alene, water, unfltrd ug/L (34696)	n-butyl ketone, water, unfltrd ug/L (77103)	benzene water unfltrd ug/L (77342)	propyl- benzene water unfltrd ug/L (77224)	Xylene, water, unfltrd ug/L (77135)	Butyl- benzene water unfltrd ug/L (77350)	water unfltrd ug/L (77128)	ethyl ether, water, unfltrd ug/L (50004)	t-butyl ether, water, unfltrd ug/L (78032)	Butyl- benzene water unfltrd ug/L (77353)	chloro- ethene, water, unfltrd ug/L (34475)
OCT 31 NOV 14 DEC 17	tert- pentyl ether, water, unfltrd ug/L (50005)	+ para- Xylene, water, unfltrd ug/L (85795)	alene, water, unfltrd ug/L (34696)	n-butyl ketone, water, unfltrd ug/L (77103)	benzene water unfltrd ug/L (77342)	propyl- benzene water unfltrd ug/L (77224)	Xylene, water, unfltrd ug/L (77135)	Butyl- benzene water unfltrd ug/L (77350)	water unfltrd ug/L (77128)	ethyl ether, water, unfltrd ug/L (50004)	t-butyl ether, water, unfltrd ug/L (78032)	Butyl- benzene water unfltrd ug/L (77353)	chloro- ethene, water, unfltrd ug/L (34475)
OCT 31 NOV 14 DEC 17 JAN 10 29	tert- pentyl ether, water, unfltrd ug/L (50005) <0.08	+ para- Xylene, water, unfltrd ug/L (85795) <0.06	alene, water, unfltrd ug/L (34696) <0.5 <0.5	n-butyl ketone, water, unfltrd ug/L (77103) <0.7	benzene water unfltrd ug/L (77342) <0.2 <0.2	propyl- benzene water unfltrd ug/L (77224) <0.04	Xylene, water, unfltrd ug/L (77135) <0.07	Butylbenzene water unfltrd ug/L (77350) <0.06 <0.06	water unfltrd ug/L (77128) <0.04 E0.05	ethyl ether, water, unfltrd ug/L (50004)	t-butyl ether, water, unfltrd ug/L (78032) <0.2	Butyl- benzene water unfltrd ug/L (77353) <0.10	chloro- ethene, water, unfltrd ug/L (34475) 0.16 E0.10
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27	tert- pentyl ether, water, unfltrd ug/L (50005) <0.08 <0.08 <0.08	+ para- Xylene, water, unfltrd ug/L (85795) <0.06 <0.06 <0.06	alene, water, unfltrd ug/L (34696) <0.5 <0.5 <0.5	n-butyl ketone, water, unfltrd ug/L (77103) <0.7 <0.7 <0.7	benzene water unfltrd ug/L (77342) <0.2 <0.2 <0.2	propyl- benzene water unfltrd ug/L (77224) <0.04 <0.04 <0.04	Xylene, water, unfltrd ug/L (77135) <0.07 <0.07 <0.07	Butyl- benzene water unfltrd ug/L (77350) <0.06 <0.06 <0.06	water unfltrd ug/L (77128) <0.04 E0.05 <0.04 <0.04	ethyl ether, water, unfltrd ug/L (50004) <0.05 <0.05 <0.05	t-butyl ether, water, unfltrd ug/L (78032) <0.2 <0.2 <0.2 <0.2	Butyl-benzene water unfltrd ug/L (77353) <0.10 <0.10 <0.10 <0.10	chloro-ethene, water, unfltrd ug/L (34475) 0.16 E0.10 0.12 E0.05
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18	tert- pentyl ether, water, unfltrd ug/L (50005) <0.08 <0.08 <0.08 <0.08 <0.08 <0.08	+ para- Xylene, water, unfltrd ug/L (85795) <0.06 <0.06 <0.06 <0.06 <0.06	alene, water, unfltrd ug/L (34696) <0.5 <0.5 <0.5 <0.5	n-butyl ketone, water, unfltrd ug/L (77103) <0.7 <0.7 <0.7 <0.7 <0.7 <0.7	benzene water unfltrd ug/L (77342) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.	propyl- benzene water unfltrd ug/L (77224) <0.04 <0.04 <0.04 <0.04 <0.04	Xylene, water, unfltrd ug/L (77135) <0.07 <0.07 <0.07 <0.07 <0.07 <0.07	Butyl-benzene water unfltrd ug/L (77350) <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06	water unfltrd ug/L (77128) <0.04 E0.05 <0.04 <0.04 <0.04 <0.04	ethyl ether, water, unfltrd ug/L (50004) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	t-butyl ether, water, unfltrd ug/L (78032) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	Butyl-benzene water unfltrd ug/L (777353) <0.10 <0.10 <0.10 <0.10 <0.10 <0.10	chloro-ethene, water, unfltrd ug/L (34475) 0.16 E0.10 0.12 E0.05 0.12 E0.08
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14	tert- pentyl ether, water, unfltrd ug/L (50005) <0.08 <0.08 <0.08 <0.08 <0.08 <0.08	+ para- Xylene, water, unfltrd ug/L (85795) <0.06 <0.06 <0.06 <0.06 <0.06	alene, water, unfltrd ug/L (34696) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	n-butyl ketone, water, unfltrd ug/L (77103) <0.7 <0.7 <0.7 <0.7 <0.7 <0.7	benzene water unfltrd ug/L (77342) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	propylbenzene water unfltrd ug/L (777224) <0.04 <0.04 <0.04 <0.04 <0.04 <0.04	Xylene, water, unfltrd ug/L (77135) <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07	Butyl-benzene water unfiltrd ug/L (77350) <0.06 <0.06 <0.06 <0.06 <0.06 <0.06	water unfiltrd ug/L (77128) <0.04 E0.05 <0.04 <0.04 <0.04 <0.04	ethyl ether, water, unfiltrd ug/L (50004) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	t-butyl ether, water, unfltrd ug/L (78032) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	Butyl-benzene water unfltrd ug/L (77353) <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10	chloro-ethene, water, unfiltrd ug/L (34475) 0.16 E0.10 0.12 E0.05 0.12 E0.08 E0.08
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14 MAY 07	tert-pentyl ether, water, unfltrd ug/L (50005) <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08	+ para- Xylene, water, unfltrd ug/L (85795) <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06	alene, water, unfltrd ug/L (34696) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	n-butyl ketone, water, unfltrd ug/L (77103) <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.	benzene water unfltrd ug/L (77342) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.	propyl-benzene water unfltrd ug/L (77224) <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04	Xylene, water, unfltrd ug/L (77135) <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07	Butyl-benzene water unfltrd ug/L (77350) <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06	water unfltrd ug/L (77128) <0.04 E0.05 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04	ethyl ether, water, unfltrd ug/L (50004) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	t-butyl ether, water, unfltrd ug/L (78032) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.	Butyl-benzene water unfltrd ug/L (77353) <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10	chloro-ethene, water, unfltrd ug/L (34475) 0.16 E0.10 0.12 E0.05 0.12 E0.08 E0.08 E0.04
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14 MAY 07 19 JUN 10 27	tert-pentyl ether, water, unfltrd ug/L (50005) <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08	+ para-Xylene, water, unfltrd ug/L (85795) <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06	alene, water, unfltrd ug/L (34696) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	n-butyl ketone, water, unfltrd ug/L (77103) <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.	benzene water unfltrd ug/L (77342) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.	propylbenzene water unfltrd ug/L (77224) <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04	Xylene, water, unfltrd ug/L (77135) <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07	Butyl-benzene water unfltrd ug/L (77350) <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06	water unfiltrd ug/L (77128) <0.04 E0.05 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04	ethyl ether, water, unfltrd ug/L (50004) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	t-butyl ether, water, unfltrd ug/L (78032) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.	Butyl-benzene water unfltrd ug/L (77353) <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10	chloro-ethene, water, unfltrd ug/L (34475) 0.16 E0.10 0.12 E0.05 0.12 E0.08 E0.08 E0.04 E0.02 <0.03
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14 MAY 07 19 JUN 10 27 JUN 10 27 JUL 07 30	tert- pentyl ether, water, unfltrd ug/L (50005) <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08	+ para-Xylene, water, unfltrd ug/L (85795) <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 E0.10 <0.06 E0.10 <0.06 E0.10	alene, water, unfltrd ug/L (34696) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	n-butyl ketone, water, unfltrd ug/L (77103) <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.	benzene water unfiltrd ug/L (77342) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.	propylbenzene water unfltrd ug/L (777224) <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04	Xylene, water, unfltrd ug/L (77135) <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07	Butyl-benzene water unfltrd ug/L (777350) <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06	water unfiltrd ug/L (77128) <0.04 E0.05 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04	ethyl ether, water, unfltrd ug/L (50004) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	t-butyl ether, water, unfltrd ug/L (78032) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.	Butyl-benzene water unfltrd ug/L (777353) <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10	chloro-ethene, water, unfltrd ug/L (34475) 0.16 E0.10 0.12 E0.05 0.12 E0.08 E0.04 E0.02 <0.03 E0.02 E0.02
OCT 31 NOV 14 DEC 17 JAN 10 29 FEB 11 27 MAR 18 APR 14 MAY 07 19 JUN 10 27 JUN 10 27 JUL 07	tert-pentyl ether, water, unfltrd ug/L (50005) <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08	+ para-Xylene, water, unfltrd ug/L (85795) <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06	alene, water, unfltrd ug/L (34696) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	n-butyl ketone, water, unfltrd ug/L (77103) <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.	benzene water unfltrd ug/L (77342) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.	propylbenzene water unfltrd ug/L (77224) <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04	Xylene, water, unfitted (77135) <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07	Butyl-benzene water unfltrd ug/L (77350) <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06	water unfiltrd ug/L (77128) <0.04 E0.05 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04	ethyl ether, water, unfltrd ug/L (50004) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	t-butyl ether, water, unfltrd ug/L (78032) <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.	Butyl-benzene water unfltrd ug/L (77353) <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10	chloroethene, water, unfltrd ug/L (34475) 0.16 E0.10 0.12 E0.05 0.12 E0.08 E0.04 E0.02 <0.03 E0.02 Co.03 Co.03 Co.03 Co.03

				trans-	trans-	trans-			Tri-			
Date	Tetra- chloro- methane water unfltrd ug/L (32102)	Tetra- hydro- furan, water, unfltrd ug/L (81607)	Toluene water unfltrd ug/L (34010)	1,2-Di- chloro- ethene, water, unfltrd ug/L (34546)	1,3-Di- chloro- propene water unfltrd ug/L (34699)	1,4-Di- chloro- 2- butene, wat unf ug/L (73547)	Tri- bromo- methane water unfltrd ug/L (32104)	Tri- chloro- ethene, water, unfltrd ug/L (39180)	chloro- fluoro- methane water unfltrd ug/L (34488)	Tri- chloro- methane water unfltrd ug/L (32106)	Vinyl chlor- ide, water, unfltrd ug/L (39175)	Di- chlor- vos, water fltrd, ug/L (38775)
0.00	(32102)	(01007)	(31010)	(3 13 10)	(310)))	(13311)	(32101)	(37100)	(31100)	(32100)	(3)173)	(30113)
OCT 31 NOV	< 0.06	<2	< 0.05	< 0.03	< 0.09	<0.7	<0.10	E0.07	< 0.09	0.30	<0.1	<0.01
14 DEC	< 0.06	<2	< 0.05	< 0.03	< 0.09	< 0.7	< 0.10	E0.04	< 0.09	E0.07	< 0.1	E0.01
17 JAN	< 0.06	<2	< 0.05	< 0.03	< 0.09	< 0.7	< 0.10	E0.05	< 0.09	E0.02	< 0.1	< 0.01
10 29	<0.06 <0.06	<2 <2	<0.05 E0.03	<0.03 <0.03	<0.09 <0.09	<0.7 <0.7	<0.10 <0.10	E0.02 E0.05	<0.09 <0.09	E0.01 E0.01	<0.1 <0.1	<0.01 <0.01
FEB 11 27	<0.06 <0.06	<2 <2	E0.02 E0.04	<0.03 <0.03	<0.09 <0.09	<0.7 <0.7	<0.10 <0.10	E0.03 E0.04	<0.09 <0.09	E0.03 E0.02	<0.1 <0.1	<0.01 <0.01
MAR 18	<0.06	<2	E0.03	<0.03	<0.09	<0.7	<0.10	E0.02	<0.09	E0.04	<0.1	<1.00
APR 14 MAY	< 0.06	<2	0.22	< 0.03	< 0.09	< 0.7	<0.10	< 0.04	< 0.09	E0.07	<0.1	< 0.01
07 19	<0.06 <0.06	<2 <2	E0.02 E0.03	<0.03 <0.03	<0.09 <0.09	<0.7 <0.7	<0.10 <0.10	<0.04 <0.04	<0.09 <0.09	E0.09 E0.10	<0.1 <0.1	<0.01 <0.01
JUN 10 27	<0.06 <0.06	<2 <2	E0.02 E0.02	<0.03 <0.03	<0.09 <0.09	<0.7 <0.7	<0.10 <0.10	<0.04 E0.04	<0.09 <0.09	E0.04 E0.05	<0.1 <0.1	<0.01 <0.01
JUL 07 30	<0.06 <0.06	<2 <2	<0.05 E0.02	<0.03 <0.03	<0.09 <0.09	<0.7 <0.7	<0.10 <0.10	<0.04 E0.01	<0.09 <0.09	E0.06 E0.08	<0.1 <0.1	E0.01 <0.01
AUG 13 SEP	< 0.06	<2	E0.03	< 0.03	< 0.09	<0.7	< 0.10	< 0.04	< 0.09	0.19	<0.1	<0.01
10	< 0.06	<2	< 0.05	< 0.03	< 0.09	< 0.7	< 0.10	< 0.04	< 0.09	0.12	< 0.1	< 0.01

03350700 STONY CREEK NEAR NOBLESVILLE, IN

LOCATION.--Lat 40°01'44", long 85°59'44", in $NE^{1}_{4}NE^{1}_{4}$ sec. 7, T.18 N., R.5 E., Hamilton County, Hydrologic Unit 05120201, (RIVERWOOD, IN quadrangle), on right bank, between dual bridges on State Road 37, 1.2 mi south of intersection of State Road 38 and State Road 37, 1.4 mi upstream from mouth, and 1.4 mi southeast of Noblesville.

DRAINAGE AREA.--50.8 mi².

PERIOD OF RECORD.--July 1967 to current year.

REVISED RECORDS .-- WDR IN-82-1: 1981.

GAGE.--Water-stage recorder. Datum of gage is 749.00 ft above National Geodetic Vertical Datum of 1929 (Indiana Department of Highways bench mark). Prior to Oct. 1, 1988, water-stage recorder at county road bridge 200 ft upstream at same datum.

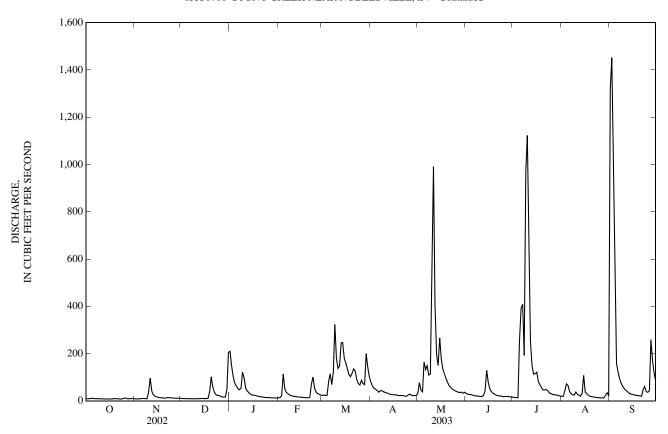
REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAIL V MEAN VALUES

						LI MEAN V	ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2	8.7 8.9	8.9 8.0	10 9.8	209 149	e13 e14	23 24	80 63	31 77	30 28	15 14	19 19	1,320 1,450
3	8.7	8.1	9.4	104	e21	23	54	46	27	13	43	628
4 5	9.9 11	8.3 9.2	9.1 9.1	75 63	113 e52	23 81	49 45	38 165	26 24	13 254	71 65	340 158
6	9.6	10	9.0	52	e36	114	37	132	22	391	39	121
7 8	9.0 9.0	9.7 9.1	8.9 9.0	46 54	e30 e25	69 119	43 43	148 109	21 20	409 191	30 26	94 74
9 10	8.8 8.8	8.8 40	8.6 8.7	122 96	e22 e20	323 180	39 36	114 673	19 18	971	24 37	61 51
10	8.6	40 97	9.2	e54	e19	137	34	991	18	1,120 702	28	44
12	8.0	41	9.0	e41	e18	147	31	404	23	252	23	39
13 14	7.8 7.7	26 20	9.3 10	e35 e28	e17 e16	245 247	29 27	196 149	43 129	149 113	20 31	32 29
15	8.0	17	9.9	e25	e16	179	27	265	80	115	108	27
16 17	8.1 7.9	15 14	9.5 9.5	e24 e23	e15 e14	161 136	25 26	179 134	51 39	121 82	37 30	25 24
18	8.1	13	11	e21	e14	111	24	114	33	68	23	23
19 20	9.6 9.3	13 12	41 102	e19 e18	e13 e13	102 116	22 23	95 79	29 24	56 46	19 18	22 21
21	8.4	12	58	e17	e15	135	23	65	22	46	17	19
22 23	8.2 7.9	14 13	37 27	e16 e15	70 101	126 90	21 20	57 51	21 20	48 43	16 14	47 60
24 25	7.6 9.8	13 12	23 23	e14 e14	55 37	73 67	20 25	46 42	19 18	34 30	13 13	38 36
26	13	12	19	e14	31	87	28	39	18	28	12	43
27	9.6	11	16	e13	28 25	73 69	24 22	36	19	25	12	259 171
28 29	8.9 9.2	11 11	16 16	e13 e13	25	200	23	36 37	18 17	26 24	13 24	117
30 31	9.9 9.9	11 	49 205	e12 e12		143 102	21	32 36	17 	22 20	34 23	85
TOTAL	277.9	508.1	801.0	1,411	863	3,725	984	4,616	893	5,441	901	5,458
MEAN MAX	8.96 13	16.9 97	25.8 205	45.5 209	30.8 113	120 323	32.8 80	149 991	29.8 129	176 1,120	29.1 108	182 1,450
MIN	7.6	8.0	8.6	12	13	23	20	31	17	13	12	19
CFSM IN.	0.18 0.20	0.33 0.37	0.51 0.59	0.90 1.03	0.61 0.63	2.37 2.73	0.65 0.72	2.93 3.38	0.59 0.65	3.46 3.98	0.57 0.66	3.58 4.00
STATIST	TCS OF MO	ONTHLY M	EAN DATA	FOR WATE	ER YEARS	1968 - 2003,	BY WATE	ER YEAR (W	Y)			
MEAN	20.3	44.7	55.7	56.1	75.8	85.0	78.7	66.9	49.3	34.4	20.8	21.9
MAX (WY)	181 (2002)	287 (1993)	235 (1991)	145 (1974)	190 (1990)	203 (1978)	160 (1972)	229 (1996)	241 (1998)	176 (2003)	80.5 (1979)	210 (1989)
MIN	2.41	3.96 (2000)	4.99 (1998)	3.87 (1977)	6.26 (1998)	14.1 (2000)	16.9 (1971)	16.1 (1988)	6.50 (1988)	3.25 (1977)	3.84 (1988)	3.38 (1995)
(WY)	(1996)	, ,				, ,	, ,		. ,		, ,	
	RY STATIS	STICS		FOR 2002 C.		YEAR)3 WATER Y	EAR	WATER	YEARS 19	68 - 2003
ANNUAI ANNUAI	L MEAN			19,886 54			25,8	79.0 70.9			50.6	
	Γ ANNUAL ʿ ANNUAL										83.0 15.4	1993 2000
HIGHES	Γ DAILY M	IEAN		1,300			1,4		2	1,7	60 D	ec 30, 1990
	TDAILY M L SEVEN-D	EAN OAY MINIM	IUM		.3 Sep .6 Sep				t 24 t 12			Oct 9, 1995 Oct 8, 1995
	JM PEAK I JM PEAK S						2,20	60 Sep 9.01 Sep	1	2,2		ep 1, 2003 ec 30, 1990
ANNUAI	L RUNOFF	(CFSM)			.07			1.40	, 1		1.00	ec 30, 1990
	L RUNOFF ENT EXCE			14 122	.56			18.95 45			13.54 14	
50 PERCI	ENT EXCE	EDS		23				25 9.2			23 5.7	
70 I EKC	LIVI LACE	டப்ப		o	.0			1.4			5.1	

e Estimated

03350700 STONY CREEK NEAR NOBLESVILLE, IN—Continued



03351000 WHITE RIVER NEAR NORA, IN

 $LOCATION.--Lat\ 39^{\circ}54'35", long\ 86^{\circ}06'20", in\ NW^{1}{}_{4}NW^{1}{}_{4}\ sec.\ 20,\ T.17\ N.,\ R.4\ E.,\ Marion\ County,\ Hydrologic\ Unit\ 05\ 120\ 201,\ (FISHERS,\ IN\ quadrangle),\\ on\ downstream\ side\ of\ center\ bridge\ pier\ on\ 82nd\ Street,\ 2\ mi\ east\ of\ Nora,\ 14\ mi\ upstream\ from\ Fall\ Creek,\ and\ at\ mile\ 247.9.$

DRAINAGE AREA.--1,219 mi².

PERIOD OF RECORD.--October 1929 to current year. Prior to April 1930, monthly discharge only, published in WSP 1305. Prior to October 1948, published as West Fork White River near Nora.

REVISED RECORDS.--WSP 1335: 1930-31, 1934(m), 1936, 1941, 1943, 1945, 1947-48. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 710.94 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Oct. 26, 192 to July 29, 1942, at site 200 ft downstream at same datum. Supplemental water-stage recorder 4.5 mi downstream.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow partially regulated by Morse Reservoir.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 26, 1913, reached a stage of 22.4 ft, from floodmark, determined by Indiana Department of Highways, discharge, 58,500 ft³/s.

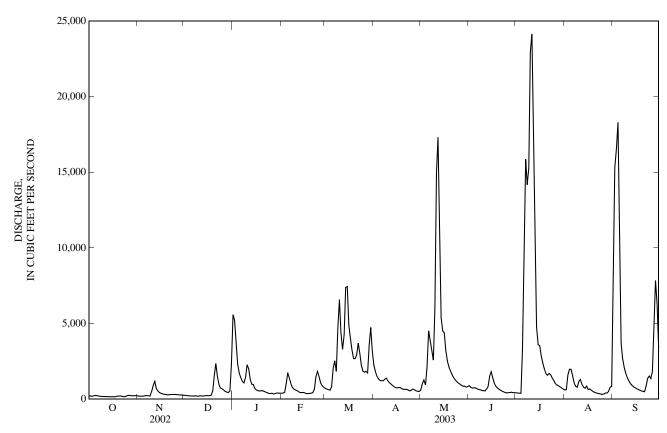
DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	226	218	252	5,590	394	711	2,250	611	893	416	611	8,190
2	204	204	244	5,210	401	664	1,820	1,030	775	407	630	15,300
3	188	196	232	3,670	446	624	1,520	1,270	732	396	1,610	16,500
4	220	198	220	2,300	1,030	590	1,330	940	756	384	1,980	18,300
5	245	201	211	1,720	1,750	817	1,240	2,130	739	3,280	1,980	10,300
6	235	236	208	1,410	1,390	2,060	1,220	4,510	683	10,800	1,560	3,690
7	209	232	200	1,180	1,030	2,540	1,220	3,880	639	15,900	1,080	2,680
8	188	228	227	1,070	759	1,830	1,320	3,250	620	14,200	844	2,090
9	183	210	200	1,410	e660	4,700	1,380	2,580	576	15,300	790	1,710
10	179	512	199	2,270	e600	6,580	1,210	5,940	563	22,900	1,180	1,410
11	175	e900	218	2,030	e560	4,360	1,080	15,000	544	24,100	1,300	1,200
12	168	1,180	216	1,310	e480	3,290	992	17,300	667	18,800	970	1,030
13	167	704	210	989	e435	4,260	903	12,900	830	9,590	796	907
14	163	542	228	e960	e430	7,380	817	5,400	1,520	4,760	720	817
15	164	438	234	e700	e450	7,440	767	4,500	1,810	3,610	873	760
16	162	382	232	e600	e400	4,930	737	4,400	1,400	3,520	632	697
17	159	345	230	e560	e372	4,020	777	3,200	1,040	2,850	674	641
18	160	322	246	e540	e370	3,280	760	2,500	848	2,360	590	584
19	197	313	532	e560	e380	2,690	679	2,130	741	1,990	513	545
20	205	292	1,530	e560	e400	2,680	655	1,860	658	1,680	453	518
21	215	289	2,360	e505	e425	2,910	650	1,630	585	1,580	417	490
22	191	308	1,530	e460	657	3,700	651	1,410	527	1,700	385	887
23	173	307	975	e420	1,480	3,050	597	1,270	481	1,610	361	1,380
24	164	313	730	e370	1,840	2,240	546	1,160	439	1,400	343	1,530
25	211	309	689	e380	1,480	1,850	589	1,070	416	1,230	315	1,360
26 27 28 29 30 31	255 246 221 231 231 224	302 293 280 272 260	607 513 465 439 555 2,320	e390 e335 e375 404 406 388	1,070 889 779 	1,780 1,840 1,730 3,580 4,740 3,170	673 615 554 519 509	991 911 855 858 797 835	427 442 460 427 430	1,030 930 884 816 743 667	345 403 404 511 786 843	1,830 4,560 7,850 6,240 3,350
TOTAL	6,159	10,786	17,252	39,072	21,357	96,036	28,580	107,118	21,668	169,833	24,899	117,346
MEAN	199	360	557	1,260	763	3,098	953	3,455	722	5,478	803	3,912
MAX	255	1,180	2,360	5,590	1,840	7,440	2,250	17,300	1,810	24,100	1,980	18,300
MIN	159	196	199	335	370	590	509	611	416	384	315	490
CFSM	0.16	0.29	0.46	1.03	0.63	2.54	0.78	2.83	0.59	4.49	0.66	3.21
IN.	0.19	0.33	0.53	1.19	0.65	2.93	0.87	3.27	0.66	5.18	0.76	3.58
STATIST	TICS OF M	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1930 - 2003	, BY WATE	ER YEAR (W	YY)			
MEAN	405	730	1,093	1,563	1,662	2,081	2,036	1,479	1,164	787	459	426
MAX	3,819	5,115	4,366	9,015	4,805	5,113	5,878	6,815	6,093	5,478	2,612	4,397
(WY)	(2002)	(1993)	(1991)	(1950)	(1950)	(1978)	(1964)	(1943)	(1958)	(2003)	(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)

WABASH RIVER BASIN 211

03351000 WHITE RIVER NEAR NORA, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	ENDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEAR	S 1930 - 2003
ANNUAL TOTAL	506,759		660,106			
ANNUAL MEAN	1,388		1,809		1,154	
HIGHEST ANNUAL MEAN					2,052	1950
LOWEST ANNUAL MEAN					235	1941
HIGHEST DAILY MEAN	20,800	May 14	24,100	Jul 11	31,500	May 19, 1943
LOWEST DAILY MEAN	159	Oct 17	159	Oct 17	49	Sep 17, 1941
ANNUAL SEVEN-DAY MINIMUM	163	Oct 12	163	Oct 12	53	Sep 17, 1941
MAXIMUM PEAK FLOW			26,300	Jul 11	32,400	May 19, 1943
MAXIMUM PEAK STAGE			17.78	Jul 11	19.19	Jan 1, 1991
ANNUAL RUNOFF (CFSM)	1.14		1.48		0.95	
ANNUAL RUNOFF (INCHES)	15.46		20.14		12.86	
10 PERCENT EXCEEDS	3,010		3,940		2,610	
50 PERCENT EXCEEDS	604		732		529	
90 PERCENT EXCEEDS	208		220		163	



03351060 WHITE RIVER AT BROAD RIPPLE, IN

LOCATION.--Lat 39°52'17", long 86°08'16", in SW½ sec.36, T.17 N., R.3 E., Marion County, Hydrologic Unit 05120201, (INDIANAPOLIS WEST, IN quadrangle), on left bank at Indianapolis Water Company, 75 ft downstream from diversion canal, and 500 ft upstream from Broad Ripple dam, and at 243.2 mile

DRAINAGE AREA.--1,238 mi².

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

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

GAGE.--Water-stage recorder. Datum of gage is 709.91 ft above National Geodetic Vertical Datum of 1929.

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, 8.98 ft, July 11; minimum 2.75 ft, Oct. 17-18.

GAGE HEIGHT, FEET WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	 	2.82 2.80 2.80 2.79 2.81	2.87 2.87 2.85 2.85 2.83	4.96 4.65 4.15 3.79 3.62	2.97 2.98 3.05 3.51 3.68	3.18 3.16 3.13 3.11 3.35	3.93 3.76 3.64 3.57 3.53	3.46 3.49 3.50 3.38 4.52	3.30 3.23 3.24 3.25 3.23	2.97 2.95 2.93 2.96 5.57	3.14 3.21 3.87 3.71 3.73	6.90 7.18 7.40 4.81
6 7 8 9 10	2.80 2.78 2.78 2.78	2.85 2.85 3.40	2.82 2.84 2.84 2.81 2.81	3.49 3.38 3.34 3.59 3.92	3.46 3.33 3.16 3.14 3.13	4.15 3.90 3.84 5.08 5.13	3.53 3.54 3.62 3.59 3.51	4.93 4.53 4.33 4.18 6.40	3.18 3.15 3.13 3.11 3.10	6.85 7.30 8.95	3.47 3.35 3.23 3.31 3.53	4.22 3.94 3.73 3.62 3.49
11 12 13 14 15	2.78 2.77 2.77 2.76 2.77	3.02	2.84 2.83 2.85 2.86 2.86	3.70 3.40 3.29 3.30 3.15	3.09 3.04 2.99 3.03 3.07	4.38 4.27 4.97 5.65 5.25	3.45 3.40 3.34 3.31 3.26	7.52 7.45 	3.09 3.26 3.47 3.79 3.70	8.50 	3.42 3.29 3.23 3.22 3.21	3.41 3.33 3.29 3.25 3.22
16 17 18 19 20	2.76 2.75 2.83	2.99 2.95 2.93 2.93 2.91	2.86 2.86 3.87	3.10 3.09 3.07 3.09 3.08	2.96 2.94 2.97 3.01 3.01	4.76 4.53 4.29 4.11 4.18	3.25 3.34 3.27 3.22 3.21	4.18 3.99 3.85 3.76	3.47 3.31 3.23 3.17 3.12	4.19 3.93 3.79 3.65 3.56	3.12 3.08 3.02	3.18 3.15 3.13 3.11 3.10
21 22 23 24 25	2.82 2.80 2.77 2.76 2.91	2.92 2.94 2.93 2.93 2.93	3.89 3.51 3.31 3.22 3.21	3.07 3.02 2.99 2.99 2.98	3.01 3.35 3.70 3.74 3.50	4.30 4.53 4.14 3.90 3.82	3.21 3.20 3.16 3.13 3.22	3.48 3.43 3.38	3.08 3.05 3.01 2.98 2.95	3.57 3.61 3.54 3.49 3.40	3.02 2.98 2.98 2.95 2.94	3.08 3.39 3.59 3.53 3.61
26 27 28 29 30 31	2.86 2.86 2.82 2.87 2.84 2.83	2.93 2.92 2.90 2.89 2.89	3.13 3.09 3.05 3.04 3.21 4.56	2.99 2.97 2.98 2.97 2.97 2.96	3.34 3.25 3.21 	3.79 3.82 3.89 4.93 4.79 4.19	3.22 3.17 3.12 3.12 3.10	3.35 3.30 3.30 3.29 3.25 3.33	3.01 3.00 3.00 2.98 2.98	3.33 3.34 3.29 3.27 3.22 3.19	2.97 3.02 2.98 3.23 3.23 3.35	3.83 5.17 5.75 4.76 4.19
MEAN MAX MIN	 	 	 	3.36 4.96 2.96	3.20 3.74 2.94	4.21 5.65 3.11	3.36 3.93 3.10	 	3.19 3.79 2.95			

213

1.6

03351310 CROOKED CREEK AT INDIANAPOLIS, IN

LOCATION.--Lat $39^{\circ}49'47''$, long $86^{\circ}12'22''$, in $NW^{1}_{4}SE^{1}_{4}$ sec. 16, T.16 N., R.3 E., Marion County, Hydrologic Unit 05120201, (INDIANAPOLIS WEST, IN quadrangle), on left bank 150 ft downstream from 42nd Street bridge in Indianapolis, at mile 1.6, 2.30 mi west-northwest of burial plot of John Dillinger in Crown Hill Cementery, and 2.35 mi northeast of Indianapolis Motor Speedway.

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 National Geodetic Vertical Datum of 1929 (Indiana Department of Highways bench mark).

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

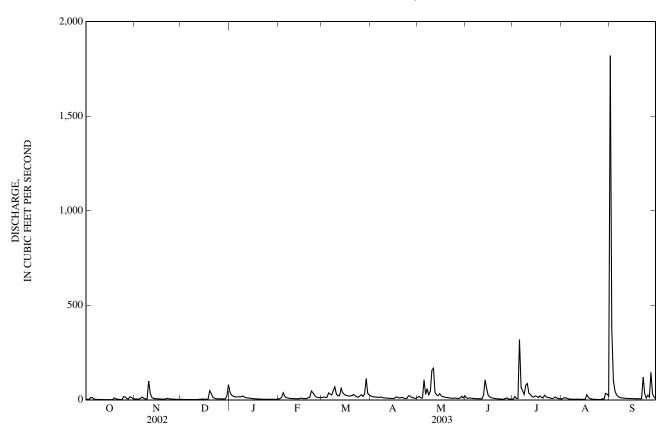
REMARKSRecords fair except for estimated daily discharges, which are poor.											
DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES											
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
3.4 3.4 2.6 12	4.8 4.8 3.6 4.7 8.6	2.3 2.1 1.9 1.7 2.0	40 25 19 16 15	5.0 6.9 13 37 18	13 15 12 14 36	21 17 16 14 15	13 18 9.5 9.5 106	10 8.1 9.9 9.1 7.6	4.4 17 7.3 7.2 319	5.0 8.5 11 9.2 5.9	1,820 368 100 47 27
4.7 3.2 2.2 1.8 1.6	14 6.8 5.1 4.3 99	1.6 1.7 1.7 1.6 1.6	16 15 16 21 16	11 10 e7.4 e7.0 e6.6	31 25 49 68 29	11 15 13 11 10	29 59 27 45 156	6.8 6.5 6.0 5.7 5.6	65 48 29 77 86	4.4 3.9 3.2 3.3 3.3	18 13 11 10 8.9
12 1.4 14 2.6 10 e6.0 22 8.6 39 24 28 13 1.3 8.2 2.7 9.2 e5.6 61 7.9 26 106 18 14 1.3 6.1 3.8 8.6 e5.6 39 7.6 22 58 14 15 1.4 5.8 3.8 7.8 8.8 28 7.3 32 24 21										3.4 3.6 2.7 2.6 2.4	8.1 7.4 7.1 7.0 6.8
1.3 1.1 1.4 10 5.5	5.5 4.4 3.7 4.3 4.0	2.8 2.4 4.2 48 33	e6.0 e5.5 e5.0 e4.5 e4.0	8.1 6.9 6.3 6.9	25 22 19 21 21	7.0 14 15 9.6 11	21 17 15 13 12	15 11 9.0 7.5 6.4	18 11 21 13 9.2	2.4 27 14 6.9 4.2	6.4 6.1 5.8 5.7 5.8
3.2 2.4 2.0 1.8 17	3.7 7.9 5.5 4.2 3.7	13 8.4 6.0 5.0 5.8	e3.5 e3.2 e3.0 e3.0 e3.0	14 47 38 24 e15	29 20 16 14 20	13 8.9 7.3 6.7 22	10 9.3 8.7 8.2 9.9	5.3 4.6 4.0 3.5 3.2	25 16 12 12 8.1	3.4 2.7 2.4 2.1 1.8	5.8 120 34 9.5 25
15 6.7 4.2 15 14 6.8	3.6 2.9 2.5 2.4 2.5	5.4 4.6 4.7 5.5 20 80	e3.0 e2.8 e2.8 e3.2 e3.0 e3.0	e13 e12 12 	27 18 32 112 35 26	21 12 11 8.6 7.5	7.7 6.9 9.1 18 9.5 22	7.5 9.8 4.7 3.8 3.8	6.6 9.3 15 8.4 6.2 5.3	1.5 5.8 3.8 33 30 19	14 146 32 14 9.5
161.2 5.20 17 1.1 0.29 0.34	286.6 9.55 99 2.4 0.53 0.60	281.6 9.08 80 1.6 0.51 0.59	305.1 9.84 40 2.8 0.55 0.63	369.3 13.2 47 5.0 0.74 0.77	921 29.7 112 12 1.66 1.91	358.5 11.9 22 6.7 0.67 0.75	955.3 30.8 167 6.9 1.72 1.99	391.9 13.1 106 3.2 0.73 0.81	971.0 31.3 319 4.4 1.75 2.02	232.4 7.50 33 1.5 0.42 0.48	2,898.9 96.6 1,820 5.7 5.40 6.02
TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1970 - 2003	, BY WATE	R YEAR (W	YY)			
9.39 60.9 (1987) 1.06 (1998)	19.6 88.2 (1994) 0.70 (2000)	20.7 95.4 (1991) 1.23 (1977)	18.4 54.8 (1974) 0.94 (1977)	24.5 79.4 (1975) 4.17 (1978)	30.3 63.7 (1991) 5.65 (1981)	29.1 58.2 (1972) 5.63 (1971)	27.8 110 (1996) 4.31 (1988)	18.3 90.8 (1998) 1.59 (1988)	12.9 57.7 (1979) 1.59 (1997)	7.84 30.8 (1978) 1.94 (1991)	11.2 96.6 (2003) 1.07 (1991)
RY STATIS	STICS		FOR 2002 C	CALENDAR	YEAR	FOR 200	3 WATER Y	YEAR	WATER	YEARS 19	70 - 2003
CANNUAL COMILY M COMILY M COMILY M LOSEVEN-D JM PEAK I JM PEAK S LORUNOFF LORUNOFF ENT EXCE	MEAN IEAN EAN OAY MINIM FLOW STAGE (CFSM) (INCHES) EDS	UM	647 1 1 16 44	7 May 1.1 Aug 1.3 Aug 1.21 5.41	11	1,82	22.3 20 Sep 1.1 Oc 1.3 Oc 00 Sep 11.90 Sep 1.24 16.90	t 17 t 12 o 1		0.00 O 0.00 O 500 Ju	1974 1977 pp 1, 2003 ct 7, 1991 ct 12, 1991 in 26, 1978 in 26, 1978
	OCT 3.4 3.4 2.6 12 12 12 4.7 3.2 2.2 1.8 1.6 1.5 1.4 1.3 1.3 1.4 10 5.5 3.2 2.4 2.0 1.8 17 15 6.7 4.2 15 14 6.8 161.2 5.20 17 1.1 0.29 0.34 CICS OF MC 9.39 60.9 (1987) 1.06 (1998) RY STATIS L TOTAL I ANNUAL I CONTROLLY MENOPER L TOTAL I CONTROLLY MENOPE	OCT NOV 3.4 4.8 3.4 4.8 2.6 3.6 12 4.7 12 8.6 4.7 14 3.2 6.8 2.2 5.1 1.8 4.3 1.6 99 1.5 36 1.4 14 1.3 8.2 1.3 6.1 1.4 5.8 1.3 5.5 1.1 4.4 1.4 3.7 10 4.3 5.5 4.0 3.2 3.7 2.4 7.9 2.0 5.5 1.8 4.2 17 3.7 15 3.6 6.7 2.9 4.2 2.5 1.8 4.2 17 3.7 15 3.6 6.7 2.9 4.2 2.5 1.8 4.2 17 3.7 15 3.6 6.7 2.9 4.2 2.5 1.8 4.2 17 3.7 15 3.6 6.7 2.9 4.1 2.5 6.8 161.2 286.6 5.20 9.55 17 99 1.1 2.4 0.29 0.53 0.34 0.60 CICS OF MONTHLY M 9.39 19.6 60.9 88.2 (1987) (1994) 1.06 0.70 (1998) (2000) RY STATISTICS L TOTAL L MEAN T ANNUAL MEAN T DAILY MEAN T DAILY MEAN T DAILY MEAN T DAILY MEAN	OCT NOV DEC 3.4	OCT NOV DEC JAN 3.4	DISCHARGE, WATER YEAR OCT DAII OCT NOV DEC JAN FEB 3.4 4.8 2.3 40 5.0 3.4 4.8 2.1 25 6.9 2.6 3.6 1.9 19 13 12 4.7 1.7 16 37 12 8.6 2.0 15 18 4.7 14 1.6 16 16 11 3.2 6.8 1.7 15 10 2.2 5.1 1.7 16 67.4 1.8 4.3 1.6 21 67.4 1.8 4.3 1.6 21 67.4 1.8 4.3 1.6 21 67.4 1.8 4.3 1.6 16 66.6 1.5 36 1.7 12 66.6 1.5 36 1.7 12 66.2 1.4 14 2.6 10 60.0 1.3 8.2 2.7 9.2 65.6 1.3 6.1 3.8 8.6 65.6 1.4 5.8 3.8 7.8 8.8 1.3 5.5 2.8 66.0 8.1 1.1 4.4 2.4 2.5 6.9 1.4 3.7 4.2 65.0 6.3 1.0 4.3 48 64.5 6.9 5.5 4.0 33 64.0 12 3.2 3.7 13 63.5 14 2.4 7.9 8.4 63.2 47 2.0 5.5 6.0 63.0 24 17 3.7 5.8 63.0 615 1.5 3.6 5.4 63.0 613 6.7 2.9 4.6 62.8 612 4.2 2.5 4.7 62.8 12 1.5 2.4 5.5 6.9 63.0 24 17 3.7 5.8 63.0 615 1.5 2.4 5.5 6.9 63.0 24 17 3.7 5.8 63.0 615 1.5 2.4 5.5 6.9 63.0 24 17 3.7 5.8 63.0 615 1.5 2.4 5.5 6.9 63.0 24 17 3.7 5.8 63.0 615 1.5 2.4 5.5 63.2 14 2.5 20 63.0 24 17 3.7 5.8 63.0 615 1.5 2.4 5.5 6.9 6.9 1.1 2.4 1.6 2.8 5.0 0.29 0.53 0.51 0.55 0.74 0.29 0.53 0.51 0.55 0.74 0.29 0.53 0.51 0.59 0.63 0.77 TICS OF MONTHLY MEAN DATA FOR WATER YEARS P.39 19.6 20.7 18.4 79.4 1.10 0.29 0.53 0.51 0.55 0.74 0.29 0.53 0.51 0.55 0.74 0.29 0.53 0.51 0.59 0.63 0.77 TICS OF MONTHLY MEAN DATA FOR WATER YEARS P.39 19.6 20.7 18.4 79.4 1.10 0.29 0.53 0.51 0.55 0.74 0.29 0.53 0.51 0.55 0.74 0.29 0.53 0.51 0.59 0.63 0.77 TICS OF MONTHLY MEAN DATA FOR WATER YEARS P.39 19.6 20.7 18.4 79.4 1.10 0.79 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.1	OCT NOV DEC JAN FEB MAR 3.4 4.8 2.3 40 5.0 13 3.4 4.8 2.1 25 6.9 15 2.6 3.6 1.9 19 13 12 12 4.7 1.7 16 37 14 12 8.6 2.0 15 18 36 4.7 14 1.6 16 11 31 3.2 6.8 1.7 15 10 25 2.2 5.1 1.7 16 67.4 49 1.8 4.3 1.6 21 67.4 49 1.8 4.3 1.6 21 67.0 68 1.6 99 1.6 16 66.6 29 1.5 36 1.7 12 66.6 29 1.5 36 1.7 12 66.6 29 1.5 36 1.7 12 66.2 22 1.4 14 2.6 10 66.0 22 1.3 8.2 2.7 9.2 65.6 61 1.3 6.1 3.8 8.6 65.6 39 1.4 5.8 3.8 7.8 8.8 28 1.3 5.5 2.8 66.0 8.1 25 1.1 4.4 2.4 2.5 0.6 3 19 1.4 3.7 4.2 65.0 6.3 19 1.4 3.7 4.2 65.0 6.3 19 1.5 3.6 1.3 8.8 6.4 6.5 6.9 22 1.4 4.4 2.4 65.5 6.9 22 1.4 3.7 4.2 65.0 6.3 19 1.5 3.6 1.7 12 6.0 8.1 25 1.1 4.4 2.4 65.5 6.9 22 1.4 3.7 5.5 2.8 60 8.1 25 1.1 4.4 2.4 65.5 6.9 22 1.4 3.7 5.5 2.8 60 8.1 25 1.1 4.4 2.4 65.5 6.9 22 1.4 3.7 5.5 2.8 60 8.1 25 1.1 4.4 2.4 65.5 6.9 22 1.4 3.7 5.5 2.8 60 8.1 25 1.1 4.4 2.4 65.5 6.9 22 1.4 3.7 5.5 2.8 60 8.1 25 1.1 4.4 2.4 65.5 6.9 22 1.4 3.7 5.5 2.8 60 8.1 25 1.1 4.4 2.4 65.5 6.9 22 1.4 3.7 5.5 6.9 22 1.4 5.5 6.9 22 1.4 5.5 6.9 21 1.5 3.6 5.4 63.0 81 1.8 4.2 5.0 63.0 38 16 1.8 4.2 5.0 63.0 24 14 1.7 3.7 5.8 63.0 615 2.0 5.5 6.0 63.0 38 16 1.8 4.2 5.0 63.0 24 14 1.7 3.7 5.8 63.0 615 2.0 5.5 6.0 63.0 38 16 1.8 4.2 5.0 63.0 24 14 1.7 3.7 5.8 63.0 615 2.0 5.5 6.0 63.0 38 16 1.8 4.2 5.0 63.0 24 14 1.1 2.4 5.5 63.2 112 1.4 2.5 20 63.0 26 1.5 2.0 5.5 9.08 9.84 13.2 29.7 1.7 99 80 40 47 112 1.1 2.4 1.6 2.8 5.0 12 0.29 0.53 0.51 0.55 0.74 1.66 0.70 1.23 0.94 4.17 5.65 0.34 0.60 0.59 0.63 0.77 1.91 1.1 2.4 1.6 2.8 5.0 12 0.29 0.53 0.51 0.55 0.74 1.66 0.70 1.23 0.94 4.17 5.65 1.987 (1994) (1991) (1974) (1975) (1991) 1.06 0.70 1.23 0.94 4.17 5.65 1.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1	DISCHARGE, CUBIC FEET PER SEC WATER YEAR OCTOBER 2002 TO SEPTE DAILY MEAN VALUES OCT NOV DEC JAN FEB MAR APR 3.4 4.8 2.3 40 5.0 13 21 2.6 3.6 1.9 19 13 12 16 12 4.7 1.7 16 37 14 14 12 8.6 2.0 15 18 36 15 12 2.4 7 1.7 16 37 14 14 14 1.6 16 11 31 11 3.2 6.8 1.7 15 10 25 15 2.2 5.1 1.7 16 674 49 13 3.2 6.8 1.7 15 10 25 15 2.2 5.1 1.7 16 674 49 13 1.8 4.3 1.6 21 67.0 68 11 1.6 99 1.6 16 66 22 22 9.5 1.4 14 2.6 10 66.0 22 8.6 1.3 6.1 3.8 8.6 65.6 39 7.6 1.4 14 2.6 10 66.0 22 8.6 1.3 8.2 2.7 9.2 65.6 63 9 7.6 1.4 1.4 5.8 3.8 7.8 8.8 28 7.3 1.1 4.4 5.8 3.8 7.8 8.8 28 7.3 1.1 4.4 3.7 4.2 65.0 6.3 19 15 1.1 4.4 3.7 4.2 65.0 6.3 19 15 1.1 4.4 3.7 4.2 65.0 6.3 19 15 1.1 4.4 3.7 4.2 65.0 6.3 19 15 1.1 4.4 3.7 4.2 65.0 6.3 19 15 1.1 4.4 3.7 13 63.5 14 29 13 3.2 3.7 13 63.5 14 29 13 3.2 4.7 9.9 8.4 6.2 6.9 21 19.6 1.5 3.6 5.4 6.3 0.2 41 14 6.7 1.7 3.7 5.8 6.3 0.2 41 14 6.7 1.7 3.7 5.8 6.3 0.2 41 14 6.7 1.7 3.7 5.8 6.3 0.2 41 14 6.7 1.7 3.7 5.8 6.3 0.2 41 14 6.7 1.7 3.7 5.8 6.3 0.2 41 14 6.7 1.7 3.7 5.8 6.3 0.2 41 14 6.7 1.7 3.7 5.8 6.3 0.2 41 14 6.7 1.7 3.7 5.8 6.3 0.2 41 14 6.7 1.7 3.7 5.8 6.3 0.2 615 20 22 1.1 1.1 2.4 1.6 2.8 612 18 12 1.2 2.5 4.7 62.8 612 18 12 1.5 2.4 5.5 6.9 8.9 41 13.2 29.7 11.9 1.1 2.4 1.6 2.8 61.2 18 12 1.5 2.4 5.5 6.9 0.8 9.84 13.2 29.7 11.9 1.1 2.4 1.6 2.8 61.0 6.3 921 358.5 1.7 99 80 40 47 112 22 1.1 1.1 2.4 1.6 2.8 6.9 0.1 2.6 6.7 1.1 2.4 1.6 2.8 6.9 0.1 2.6 6.7 1.7 2.9 4.6 62.8 612 18 12 1.5 2.4 5.5 6.3 0.0 613 29.1 358.5 1.7 99 80 40 47 112 22 1.1 1.1 2.4 1.6 2.8 6.0 0.7 1.9 1 0.75 1.2 1.1 2.4 1.6 2.8 5.0 1.2 6.7 1.1 2.4 1.6 2.8 5.0 1.2 6.7 1.7 99 80 40 47 112 2.7 1.1 2.4 1.6 2.8 5.0 1.2 6.7 1.7 3.7 5.8 6.3 0.0 613 29.1 358.5 1.7 99 80 40 47 112 9.7 1.1 2.4 1.6 2.8 5.0 6.3 9.7 11.9 10.75 1.2 1.1 2.4 1.6 2.8 5.0 1.2 6.7 1.3 3.9 19.6 0.7 11.9 10.75 1.2 2.4 1.5 5.5 6.0 6.3 0.7 7 1.9 1 0.75 1.2 2.4 1.5 5.5 6.0 6.3 0.7 7 1.9 1 0.75 1.2 2.4 1.5 5.5 6.0 6.3 0.7 7 1.9 1 0.75 1.2 3.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTIOBER 2002 TO SEPTEMBER 2003 TO SEP	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003	DISCHARGE CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

2.6

90 PERCENT EXCEEDS

e Estimated

03351310 CROOKED CREEK AT INDIANAPOLIS, IN—Continued



WABASH RIVER BASIN 215

03351500 FALL CREEK NEAR FORTVILLE, IN

mile 26.1.

DRAINAGE AREA.--169 mi².

PERIOD OF RECORD .-- July 1941 to current year.

REVISED RECORDS.--WSP 1435: 1949(P). WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 787.43 ft above National Geodetic Vertical Datum of 1929 (levels by Indianapolis Water Co.). Prior to June 27, 1942, nonrecording gage at same site and datum.

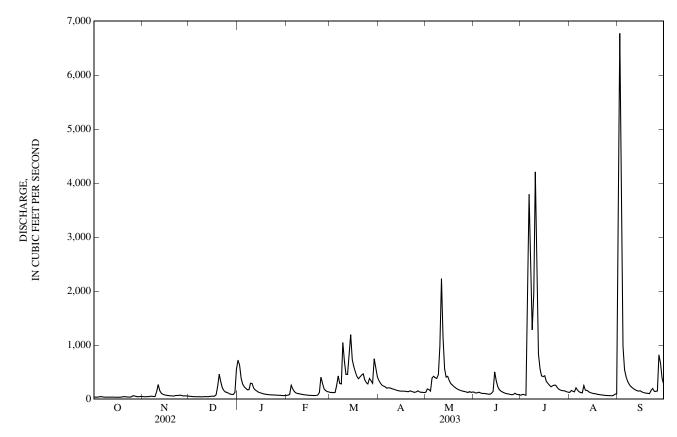
REMARKS.--Records fair except for estimated daily discharges, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage, about 12 ft March 1913 (information by local resident).

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	38 38 36 41 49	48 46 46 47 47	54 e52 e49 e46 e46	724 633 385 277 230	e70 e74 e86 257 e190	124 126 120 123 248	347 295 261 241 230	128 187 179 150 391	129 114 118 128 116	73 89 81 73 1,560	125 159 147 135 210	1,870 6,770 4,480 979 549
6 7 8 9 10	44 41 37 38 38	54 54 51 48 140	e45 e45 e44 e44 e45	198 172 176 294 291	e140 e115 e105 e100 e94	430 290 283 1,050 695	205 210 210 197 189	424 398 383 451 983	106 105 103 100 93	3,790 2,750 1,280 1,970 4,210	167 136 122 117 253	413 332 274 236 210
11 12 13 14 15	37 37 38 37 36	271 155 110 90 79	48 45 45 51 55	206 e170 e150 e130 e120	e88 e84 e80 e76 e72	459 458 816 1,190 730	179 169 160 153 150	2,230 1,160 562 406 424	92 110 142 504 345	2,280 840 562 431 418	166 163 140 122 114	188 170 157 149 156
16 17 18 19 20	36 35 37 41 48	73 69 65 61 60	55 54 81 244 462	e110 e100 e95 e90 e86	e70 e69 e68 e67 e67	605 504 422 377 412	147 150 146 141 138	346 286 260 232 210	230 176 150 133 118	432 332 293 260 229	105 102 95 88 84	136 124 114 111 107
21 22 23 24 25	45 40 39 39 44	59 66 69 69 76	317 206 157 131 125	e82 e79 e78 e76 e76	e76 e125 410 292 e190	446 467 357 304 280	154 142 132 126 136	191 175 164 154 146	107 101 95 87 83	247 258 259 214 185	80 76 73 70 68	104 162 197 144 145
26 27 28 29 30 31	64 58 50 44 48 50	66 61 62 62 56	109 93 88 87 122 552	e74 e72 e70 e68 e66 e66	e160 e140 e134 	383 342 294 747 595 419	155 135 127 127 122	140 132 123 139 125 133	87 109 90 85 80	168 159 156 150 137 129	66 65 63 71 94 98	152 820 664 382 280
TOTAL MEAN MAX MIN CFSM IN.	TOTAL 1,303 2,260 3,597 5,444 3,499 14,096 5,274 11,412 4,036 24,015 3,574 20,575 MEAN 42.0 75.3 116 176 125 455 176 368 135 775 115 686 MAX 64 271 552 724 410 1,190 347 2,230 504 4,210 253 6,770 MIN 35 46 44 66 67 120 122 123 80 73 63 104 CFSM 0.25 0.45 0.69 1.04 0.74 2.69 1.04 2.18 0.80 4.58 0.68 4.0											686 6,770
STATIST	ICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1942 - 2003,	BY WATE	R YEAR (W	Y)			
MEAN 71.8 119 170 209 249 299 292 234 187 127 76.3 67.7 MAX 539 788 727 1,210 720 674 829 753 888 775 467 686 (WY) (2002) (1994) (1991) (1950) (1950) (1978) (1964) (1996) (1958) (2003) (1979) (2003) MIN 20.1 27.4 24.2 24.4 42.1 71.2 70.3 71.4 39.2 24.7 16.0 14.5 (WY) (1964) (2000) (1964) (1977) (1964) (1981) (1971) (1955) (1988) (1966) (1988) (1999)										(2003) 14.5		

03351500 FALL CREEK NEAR FORTVILLE, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	ENDAR YEAR	FOR 2003 WA	TER YEAR	EAR WATER YEARS 19		
ANNUAL TOTAL	81,714		99,085				
ANNUAL MEAN	224		271		175		
HIGHEST ANNUAL MEAN					301	2002	
LOWEST ANNUAL MEAN					61.4	1966	
HIGHEST DAILY MEAN	4,440	May 14	6,770	Sep 2	6,950	Apr 21, 1964	
LOWEST DAILY MEAN	23	Sep 12	35	Oct 17	7.0	Oct 1, 1941	
ANNUAL SEVEN-DAY MINIMUM	26	Sep 8	37	Oct 11	9.7	Aug 21, 1988	
MAXIMUM PEAK FLOW		-	8,450	Sep 2	8,750	Apr 21, 1964	
MAXIMUM PEAK STAGE			9.83	Sep 2	9.88	Apr 21, 1964	
ANNUAL RUNOFF (CFSM)	1.32		1.61	•	1.03	*	
ANNUAL RUNOFF (INCHES)	17.99		21.81		14.04		
10 PERCENT EXCEEDS	479		458		354		
50 PERCENT EXCEEDS	119		129		92		
90 PERCENT EXCEEDS	38		47		31		



03352500 FALL CREEK AT MILLERSVILLE, IN

LOCATION.--Lat 39°51'07", long 86°05'15", in NE $^{1}_{4}$ NE $^{1}_{4}$ sec.9, T.16 N., R.4 E., Marion County, Hydrologic Unit 05120201, (INDIANAPOLIS EAST, IN quadrangle), on right bank at downstream side of Emerson Way bridge at Millersville, 2.4 mi upstream of Keystone Avenue, 2.9 mi downstream of Interstate 465, and 9.2 mi upstream from mouth.

DRAINAGE AREA.--298 mi².

PERIOD OF RECORD.--October 1929 to current year. Monthly discharge only for October 1929, published in WSP 1305. Twice-daily chain gage readings at former site from July 1925 to September 1926 are available in the district office.

REVISED RECORDS.--WSP 1335: 1930-31, 1933, 1936-38, 1942-43. WSP 2109: Drainage area. WRD IN-02-1: 1991, 1994(P). WRD IN-03-1: 1991, 1994, 1997-2002(P).

GAGE.--Water-stage recorder and Acoustic Doppler Velocity Meter. Datum of gage is 722.16 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 21, 1961, water-stage recorder at site 500 ft downstream at same datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Geist Reservoir.

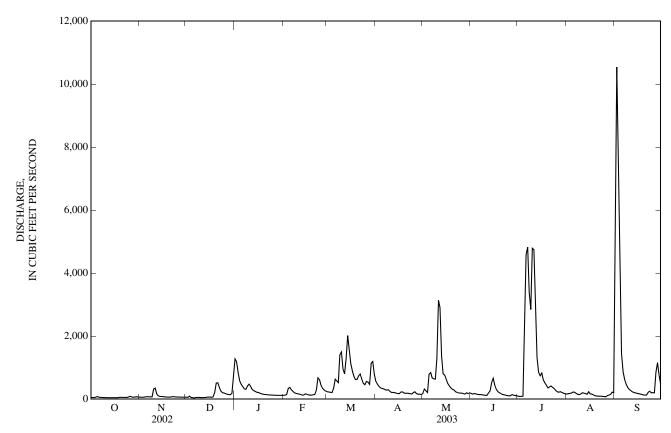
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 16.3 ft Mar. 26, 1913, from floodmarks, discharge, 22,000 ft³/s by slope-area measurement

REVISIONS.—The peak discharges for water years 1991 and 1994 have been revised to 8,200 ft³/s, Dec. 31, 1990, gage height, 13.36 ft, and 6,890 ft³/s, Nov. 15, 1993, gage height, 12.40 ft, superseding original figures published in reports for 1991 and 1994, and revisions published in reports for 1997-2002. The peak discharge for the 2002 water year has been revised to 6,550 ft³/s, May 14, 2002, gage height, 12.14 ft, superseding figure published in the report for 2002.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES OCT NOV AUG DAY DEC APR JUN JUL SEP JAN FEB MAR MAY 1.280 4,730 1,190 10,500 7,890 3,760 2,090 1,450 4,580 4,830 3,390 1,410 2,840 1,500 4,790 1.300 3.140 4,740 2.900 2,640 1.300 1.360 1.320 2.020 1,560 1,130 e186 e170 e160 e150 e144 e138 e134 e255 2.14 e205 e132 e196 e129 e174 e126 e124 e156 e146 e122 1,160 e121 e138 1.140 e183 e120 1,200 6,675 TOTAL 1.786 2,781 4.886 10.014 24,363 7,417 19,279 5.891 39,000 4,780 37,260 57.6 92.7 1,242 1.258 MEAN 4,830 MAX 762. 1.280 2.020 3.140 10,500 MIN 0.19 0.31 0.53 1.08 0.80 0.83 2.09 0.52 4.17 **CFSM** 2.64 0.66 4.22 3.04 0.93 2.41 4.87 IN. 0.220.350.61 1.25 0.83 0.740.604.65 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2003, BY WATER YEAR (WY) MEAN 1,059 MAX 1.283 2,390 1.278 1.399 1.503 1,524 1,638 1,258 1,242 (WY) (2002)(1994)(1991)(1950)(1950)(1963)(1964)(1943)(1998)(2003)(1979)(2003)29.1 MIN 23.4 32.1 38.2 37.1 50.4 47.5 59.7 33.6 42.2 15.5 11.5 (WY) (1941)(1935)(1935)(1945)(1935)(1941)(1941)(1941)(1934)(1936)(1941)(1941)

03352500 FALL CREEK AT MILLERSVILLE, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	ENDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEARS 1930 - 2003		
ANNUAL TOTAL	132,412		164,132				
ANNUAL MEAN	363		450		294		
HIGHEST ANNUAL MEAN					539	1950	
LOWEST ANNUAL MEAN					44.0	1941	
HIGHEST DAILY MEAN	7,740	May 14	10,500	Sep 2	10,600	May 18, 1943	
LOWEST DAILY MEAN	36	Dec 6	36	Dec 6	7.8	Sep 28, 1941	
ANNUAL SEVEN-DAY MINIMUM	47	Oct 12	47	Oct 12	9.0	Sep 24, 1941	
MAXIMUM PEAK FLOW			11,900	Sep 2	12,900	May 28, 1956	
MAXIMUM PEAK STAGE			15.68	Sep 2	15.68	Sep 2, 2003	
ANNUAL RUNOFF (CFSM)	1.22		1.51	•	0.99	•	
ANNUAL RUNOFF (INCHES)	16.53		20.49		13.43		
10 PERCENT EXCEEDS	775		833		658		
50 PERCENT EXCEEDS	166		186		130		
90 PERCENT EXCEEDS	61		62		47		



03353000 WHITE RIVER AT INDIANAPOLIS, IN

LOCATION.--Lat $39^{\circ}44'14''$, long $86^{\circ}10'08''$, in $NW^{1}_{4}NW^{1}_{4}$ sec. 14, T.15 N., R.3 E., Marion County, Hydrologic Unit 05120201, (INDIANAPOLIS WEST, IN quadrangle), on left bank under Raymond Street bridge in Indianapolis, 3.7 mi downstream from Fall Creek, 2.3 mi upstream from Eagle Creek, 2.9 mi upstream from Indianapolis Power and Light Company dam, and at mile 229.2.

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 2.0 mi upstream Feb. 8, 1911, to Mar. 25, 1913, and at site 3.2 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. WDR IN-01-1 (P).

GAGE.--Acoustic Velocity Meter and Data Collection Platform. Datum of gage is 662.26 ft above National Geodetic Vertical Datum of 1929. March 1904 to July 1906, nonrecording gage at railroad bridge 1.9 mi upstream at datum approximately 2.9 ft higher. April 1930 to July 20, 1931, nonrecording gage at Indianapolis sanitation plant, 1.2 mi downstream at datum 2.26 ft lower. July 21, 1931 to Mar. 2, 1932, nonrecording gage and March 3, 1932, to September, 30 1940, water-stage recorder at Morris Street, 1.1 mi upstream at datum 2.26 ft lower. October 1, 1940, to September 30, 1998, water-stage recorder at Morris Street, 1.1 mi upstream at present datum. October 1, 1998, to May 16, 2000, Acoustic Velocity Meter at Interstate 70 bridge, 1.3 mi upstream at present datum. May 16, 2000 to present, Acoustic Velocity Meter and Data collection Platform at Raymond Street.

REMARKS.--Records fair. Stage-discharge relation affected at times by large releases from Eagle Creek and by variable leakage at Indianapolis Power and Light Company dam. Natural flow affected by regulation of Morse Reservoir, Geist Reservoir and by diversion of municipal water supply by the Indianapolis Water Company.

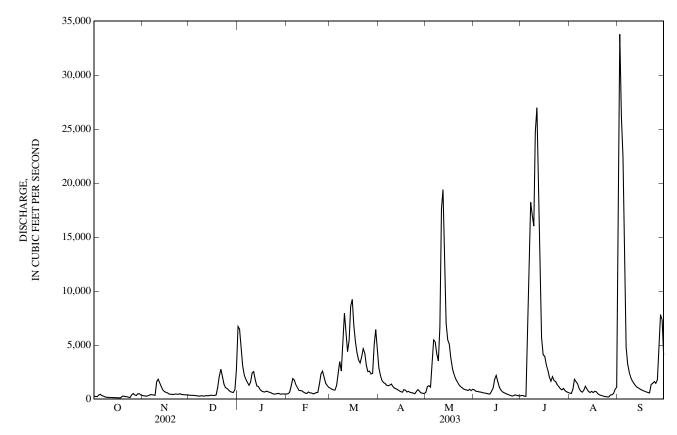
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 26, 1913, reached a stage of 30.0 ft, from floodmarks determined by Indianapolis Water Company, discharge, 70,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	268	333	364	6,730	480	1,010	2,920	627	872	328	559	22,200
2	260	307	358	6,490	505	918	2,200	1,170	730	345	524	33,800
3	233	279	354	4,850	640	854	1,740	1,250	717	275	908	26,200
4	381	291	349	3,070	1,240	845	1,540	1,110	680	267	1,840	22,400
5	452	340	325	2,230	1,900	1,260	1,450	3,510	657	5,260	1,620	14,000
6	330	422	306	1,840	1,770	2,350	1,290	5,490	617	13,100	1,420	4,820
7	276	409	279	1,560	1,320	3,470	1,240	5,300	573	18,200	982	3,270
8	210	382	300	1,280	1,050	2,600	1,290	4,200	564	17,100	756	2,500
9	174	361	314	1,550	798	5,570	1,400	3,530	527	16,000	639	2,020
10	170	1,610	284	2,420	796	7,960	1,170	6,660	486	24,800	837	1,690
11	155	1,850	304	2,540	764	6,190	1,020	17,600	484	27,000	1,200	1,450
12	153	1,490	328	1,810	644	4,400	952	19,400	729	20,900	928	1,260
13	143	1,170	311	1,220	554	5,480	877	14,400	1,010	11,600	719	1,100
14	139	839	355	1,170	532	8,600	786	7,030	1,830	5,690	615	1,030
15	135	702	361	913	661	9,230	693	5,500	2,190	4,120	724	925
16	128	628	347	761	584	6,850	641	5,130	1,620	3,960	607	849
17	126	573	347	693	575	5,340	876	3,800	1,110	3,200	721	783
18	125	471	384	657	496	4,340	826	2,840	835	2,680	676	719
19	271	463	1,100	739	531	3,640	663	2,330	688	2,050	495	667
20	282	436	2,100	695	606	3,350	715	1,920	598	1,660	395	612
21	244	438	2,760	642	629	3,910	627	1,640	521	2,090	343	583
22	230	477	2,130	599	1,380	4,670	599	1,380	455	1,730	304	1,370
23	187	462	1,400	509	2,300	4,270	561	1,200	401	1,620	254	1,460
24	151	449	1,070	462	2,600	3,120	502	1,080	346	1,340	231	1,620
25	394	500	991	479	2,020	2,540	718	955	297	1,160	211	1,470
26 27 28 29 30 31	527 385 341 504 495 382	425 423 405 399 387	839 711 643 623 888 2,790	515 539 465 481 483 476	1,490 1,250 1,090 	2,590 2,330 2,380 5,040 6,440 4,580	887 731 578 550 513	890 849 797 908 790 907	308 399 356 324 296	963 865 987 786 686 611	206 394 403 513 912 1,100	1,790 4,530 7,830 7,350 4,110
TOTAL	8,251	17,721	24,015	48,868	29,205	126,127	30,555	124,193	21,220	191,373	22,036	174,408
MEAN	266	591	775	1,576	1,043	4,069	1,018	4,006	707	6,173	711	5,814
MAX	527	1,850	2,790	6,730	2,600	9,230	2,920	19,400	2,190	27,000	1,840	33,800
MIN	125	279	279	462	480	845	502	627	296	267	206	583
CFSM	0.16	0.36	0.47	0.96	0.64	2.49	0.62	2.45	0.43	3.78	0.43	3.56
IN.	0.19	0.40	0.55	1.11	0.66	2.87	0.70	2.83	0.48	4.35	0.50	3.97
STATIST	ICS OF MO	ONTHLY M	EAN DATA	FOR WATE	ER YEARS	1931 - 2003,	BY WATE	R YEAR (W	Y)			
MEAN	478	908	1,376	1,898	2,118	2,696	2,652	1,974	1,465	961	533	497
MAX	4,791	6,425	5,826	12,120	6,452	6,610	7,777	8,594	7,910	6,173	3,399	5,814
(WY)	(2002)	(1994)	(1991)	(1950)	(1950)	(1963)	(1964)	(1943)	(1958)	(2003)	(1979)	(2003)
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)

03353000 WHITE RIVER AT INDIANAPOLIS, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	ENDAR YEAR	FOR 2003 WA	ΓER YEAR	WATER YEARS 1931 - 2003		
ANNUAL TOTAL	666,481		817,972				
ANNUAL MEAN	1,826		2,241		1,459		
HIGHEST ANNUAL MEAN					2,698	1950	
LOWEST ANNUAL MEAN					233	1941	
HIGHEST DAILY MEAN	25,600	May 14	33,800	Sep 2	36,800	Dec 31, 1990	
LOWEST DAILY MEAN	99	Sep 10	125	Oct 18	8.0	Sep 29, 1941	
ANNUAL SEVEN-DAY MINIMUM	105	Sep 7	136	Oct 12	12	Sep 24, 1941	
MAXIMUM PEAK FLOW		•	42,500	Sep 1	42,500	Sep 1, 2003	
MAXIMUM PEAK STAGE			19.65	Sep 1	21.57	Jan 16, 1937	
ANNUAL RUNOFF (CFSM)	1.12		1.37	•	0.89		
ANNUAL RUNOFF (INCHES)	15.16		18.61		12.12		
10 PERCENT EXCEEDS	4,270		5,180		3,380		
50 PERCENT EXCEEDS	802		826		657		
90 PERCENT EXCEEDS	156		305		148		



WABASH RIVER BASIN 221

LOCATION.--Lat 39°46'33", long 86°03'50", in SW 1/4NW 1/4 sec.2, T.15 N., R.4 E., Marion County, Hydrologic Unit 05120201, (INDIANAPOLIS EAST, IN quadrangle), on right bank 46 ft upstream from Arlington Avenue bridge in Indianapolis, 0.5 mi downstream from small left-bank tributary, and at mile

03353120 PLEASANT RUN AT ARLINGTON AVENUE AT INDIANAPOLIS, IN

DRAINAGE AREA.--7.58 mi².

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

(2000)

(1964)

(1977)

(1964)

(WY)

REVISED RECORDS .-- WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 780.00 ft above National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources).

REMARKS.--Records fair 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 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES DAY OCT NOV DEC JAN **FEB** MAR APR MAY JUN JUL AUG SEP 792 1.3 e1.9 e1.0 36 e0.78 e3.2 3.9 6.9 1.8 0.46 0.71 1.4 e1.8 14 e3.1 3.1 4.8 1.2 0.48 51 e0.86 e3.0 1.6 3 8.7 1.3 e1.7 e0.75 7.3 13 e3.1 2.6 2.1 0.42 1.2 11 4 22 2.7 e0.65 4.8 14 e5.4 14 11 29 5.3 2.1 16 5 3.7 $1\overline{1}$ 6.5 28 13 253 9.7 3.2 76 1.4 e0.556.1 e2.2 6 1.7 4.3 e0.48 6.7 13 3.4 8.3 1.3 18 1.9 23 e1.7 e2.1 7.0 1.4 e0.47 4.3 9.1 20 1.6 4.7 1.0 1.6 8 5.7 23 1.2 e1.8 e0.46 5.6 e1.4 33 3.3 1.0 0.76 1.4 Q e1.1 13 e0.45 4.6 e1.3 24 2.5 8.2 0.95 58 0.60 1.3 10 131 0.42 2.8 e1.3 9.9 2.1 146 1.6 63 3.3 1.2 e1.1 11 e1.0 17 1.9 e1.7 e1.2 5.8 1.8 48 4.3 10 6.6 1.0 5.3 37 12 e0.90 1.2 e1.5 e1.1 6.3 1.5 10 5.0 1.7 1.0 e2.8 1.3 12 2.7 13 e0.85 0.85 e1.3 40 5.3 0.63 0.99 e1.1 e1.9 e1.2 1.2 19 15 1.7 14 e0.84 7.2 4.0 14 3.8 1.4 15 e0.86 4.2 2.3 e1.1 9.1 1.6 17 4.2 5.6 3.9 1.0 6.2 7.4 2.1 0.92 e0.823.8 1.2 e1.0 2.1 2.4 0.89 16 1.6 4.5 e2.3 e0.995.3 e1.6 6.0 2.1 33 1.3 0.93 17 e0.771.6 2.3 18 1.4 e1.8 6.9 e0.93e1.7 5.1 4.4 2.9 1.2 10 0.64 0.98 42 19 8.9 4.1 49 e0.886.9 13 29 22 1.7 0.46 0.9919 4.6 2.0 20 1.6 e2.3 e0.8312 10 1.5 1.1 0.46 1.0 21 e1.2 4.8 e0.80 e6.2 27 2.4 1.6 0.85 56 0.43 0.96 22 e1.1 7.9 2.9 e0.78 60 8.3 1.8 1.4 0.69 5.7 0.46 46 23 e1.0 3.2 2.0 e0.74 18 5.5 1.4 1.2 0.63 3.6 0.39 2.9 e2.3 1.3 1.2 0.29 1.3 1.6 e0.74 e6.4 4.3 0.57 1.6 1.4 25 30 e2.1 e0.74 e4.4 27 26 1.2 0.53 0.30 3.6 e1.6 0.93 26 4.7 e1.7 e1.8 e0.73 e3.5 13 6.7 1.2 1.3 0.39 37 2.7 e1.9 e1.5 e0.733.0 0.96 0.78 9.8 47 e2.0e3.3 6.1 12. 28 5.8 1.2 e0.72e3.2 31 0.44 4.1 e1.6 e1.3 e3.0 6.1 13 29 3.8 6.9 26 5.4 e0.7146 0.45 1.5 12. 2.8 e1.1 ---0.43 30 28 e0.699.0 2.0 1.8 0.94 5.1 1.5 5.1 e1.4 ---50 31 e2.3 60 e0.68---5.3 9.2 0.73 ---1,029.74 TOTAL 130.34 214.04 112.09 442.86 245.5 187.68 431.0 151.0 111.42 564.66 153.74 MEAN 4.20 8.18 6.90 3.62 6.70 13.9 5.03 14.3 3.71 18.2 4.96 34.3 37 50 MAX 30 131 60 36 60 46 26 146 253 792 0.78 1.2 0.29 MIN 0.77 1.1 0.42 0.68 3.1 0.96 0.43 0.42 0.89 1.88 CFSM 0.55 1.08 0.91 0.48 0.88 1.83 0.66 0.49 2.40 0.65 4.53 1.20 1.05 0.55 0.92 2.12 0.74 2.17 0.55 2.77 0.75 5.05 0.64 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2003, BY WATER YEAR (WY) MEAN 4.91 8.49 5.06 4.66 8.64 7.68 8.68 12.711.2 10.5 7.69 8.53 42.3 25.0 25.7 28.5 49 2 21.3 27.5 369 333 33.8 343 MAX 37.8 (1979) (1987)(1991)(1969)(1996)(1998)(1979)(1994)(1961)(2003)(WY) (1971)(1963)MIN 0.38 1.05 0.72 0.45 1.11 1.81 1.61 1.12 0.69 0.61 0.67 0.49

(2001)

(1978)

(1971)

(1964)

(1967)

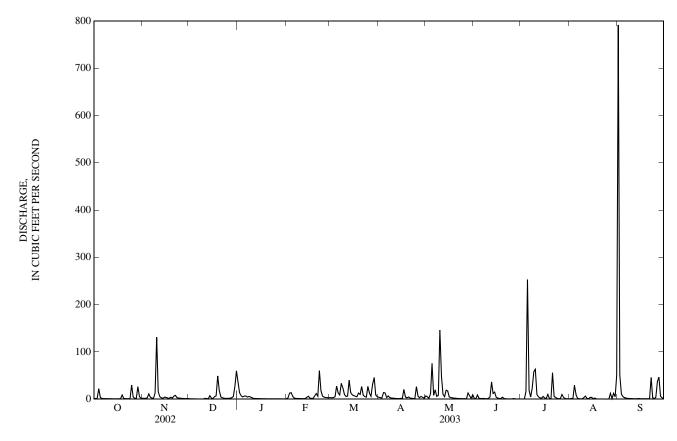
(1967)

(1967)

(1967)

03353120 PLEASANT RUN AT ARLINGTON AVENUE AT INDIANAPOLIS, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	NDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEARS 1960 - 2003		
ANNUAL TOTAL	3,352.46		3,774.07				
ANNUAL MEAN	9.18		10.3		8.24		
HIGHEST ANNUAL MEAN					11.6	1978	
LOWEST ANNUAL MEAN					3.25	1966	
HIGHEST DAILY MEAN	238	May 13	792	Sep 1	792	Sep 1, 2003	
LOWEST DAILY MEAN	0.42	Dec 10	0.29	Aug 24	0.00	Sep 11, 1960	
ANNUAL SEVEN-DAY MINIMUM	0.50	Dec 4	0.39	Aug 20	0.00	Oct 5, 1960	
MAXIMUM PEAK FLOW			1,940	Sep 1	2,600	Jun 25, 1978	
MAXIMUM PEAK STAGE			11.25	Sep 1	13.86	Jun 25, 1978	
ANNUAL RUNOFF (CFSM)	1.21		1.36	1	1.09		
ANNUAL RUNOFF (INCHES)	16.45		18.52		14.78		
10 PERCENT EXCEEDS	22		19		17		
50 PERCENT EXCEEDS	2.3		2.2		1.9		
90 PERCENT EXCEEDS	0.90		0.74		0.50		



03353200 EAGLE CREEK AT ZIONSVILLE, IN

LOCATION.--Lat 39°56'47", long 86°15'37", in NE ½4SE ½4 sec.2, T.17 N., R.2 E., Boone County, Hydrologic Unit 05120201, (ZIONSVILLE, IN quadrangle), on right upstream end of Zionsville Road bridge over Eagle Creek, 0.15 mi south of Highway 334, 1.0 mi downstream from Little Eagle Creek, 0.34 mi downstream from Long Branch Ditch, and at mile 24.4.

DRAINAGE AREA.--106 mi².

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

REVISED RECORDS.--WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 813.85 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 9, 1957, nonrecording gage, and prior to Oct. 1, 1999 a continuous water-stage recorder at site 0.4 mi upstream and at datum 816.85 ft.

REMARKS.--Records good except for estimated daily discharges, which are poor. Prior to 1989, low flow affected by the Zionsville well field located on the right bank downstream of the gage.

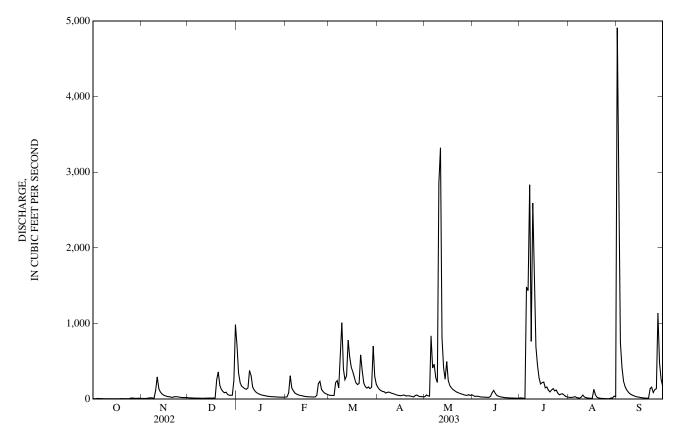
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 28, 1957, reached a stage of 19.20 ft. from floodmark (datum 816.85 ft).

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	11	19	703	e28	e52	157	33	48	18	e25	4,910
2	6.7	9.5	17	346	e30	e51	128	54	37	16	e23	2,600
3	6.0	9.4	16	218	82	e49	112	44	39	12	e24	746
4	10	10	15	171	309	e48	103	40	39	11	e26	418
5	8.7	13	14	155	e150	218	99	837	33	1,480	e34	240
6	7.7	17	14	137	e110	245	80	413	28	1,430	e22	166
7	7.0	19	14	131	e80	149	90	463	29	2,830	e17	124
8	6.6	16	13	150	e68	543	93	283	27	763	e15	96
9	6.0	14	12	381	e58	1,010	85	221	26	2,590	e27	74
10	5.8	118	12	311	e52	397	78	2,860	24	1,820	e54	60
11	5.6	294	12	e160	e47	256	71	3,320	24	694	e28	49
12	5.7	143	13	e120	e43	308	65	814	36	457	e20	41
13	5.9	96	14	e95	e38	780	56	414	83	283	e16	33
14	5.8	70	15	e80	e35	558	49	264	116	200	e13	30
15	5.9	54	15	e68	e33	422	48	498	78	218	e11	26
16	5.6	45	14	e60	e31	363	47	250	50	226	e10	21
17	5.7	38	13	e54	e30	286	53	180	39	e150	e130	19
18	5.5	33	17	e49	e29	217	53	149	32	e160	e59	16
19	7.8	31	258	e45	e28	193	42	128	28	e120	e25	15
20	7.4	25	360	e41	e30	209	45	113	25	e96	e17	14
21 22 23 24 25	7.0 6.8 6.4 6.3	24 32 32 31 28	183 131 100 85 92	e38 e36 e33 e32 e31	e50 207 237 e130 e100	586 374 215 165 147	44 40 33 31 50	99 87 79 72 65	21 19 18 17 15	e120 e140 e110 e120 e80	e12 e10 9.0 7.8 7.1	13 140 159 87 126
26 27 28 29 30 31	15 14 10 11 12 11	24 22 20 21 22	63 51 51 53 253 987	e29 e28 e27 e27 e26 e26	e80 e70 e60 	162 139 158 703 302 196	55 39 34 34 31	58 51 50 59 48 58	15 15 13 13 13	e58 e66 e72 e54 e36 e30	6.5 6.7 15 16 40 32	140 1,140 483 260 174
TOTAL	246.1	1,321.9	2,926	3,808	2,245	9,501	1,945	12,104	1,000	14,460	758.1	12,420
MEAN	7.94	44.1	94.4	123	80.2	306	64.8	390	33.3	466	24.5	414
MAX	15	294	987	703	309	1,010	157	3,320	116	2,830	130	4,910
MIN	5.5	9.4	12	26	28	48	31	33	13	11	6.5	13
CFSM	0.07	0.42	0.89	1.16	0.76	2.89	0.61	3.68	0.31	4.40	0.23	3.91
IN.	0.09	0.46	1.03	1.34	0.79	3.33	0.68	4.25	0.35	5.07	0.27	4.36
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1958 - 2003,	BY WATE	R YEAR (W	Y)			
MEAN	27.1	81.9	121	116	148	194	171	118	93.0	67.6	34.2	29.2
MAX	330	542	530	452	423	459	532	456	523	520	444	414
(WY)	(2002)	(1993)	(1991)	(1974)	(1976)	(1963)	(1964)	(1996)	(1958)	(1979)	(1958)	(2003)
MIN	0.000	0.80	1.65	1.23	9.05	23.9	24.6	12.0	1.55	1.52	0.000	0.000
(WY)	(1967)	(2000)	(1977)	(1977)	(1964)	(2000)	(2000)	(1988)	(1988)	(1966)	(1966)	(1966)

03353200 EAGLE CREEK AT ZIONSVILLE, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	NDAR YEAR	FOR 2003 WAT	ΓER YEAR	WATER YEARS 1958 - 2003		
ANNUAL TOTAL	48,335.4		62,735.1				
ANNUAL MEAN	132		172		99.8		
HIGHEST ANNUAL MEAN					188	1974	
LOWEST ANNUAL MEAN					15.9	2000	
HIGHEST DAILY MEAN	4,010	May 13	4,910	Sep 1	6,840	Dec 30, 1990	
LOWEST DAILY MEAN	2.0	Sep 15	5.5	Oct 18	0.00	Sep 9, 1959	
ANNUAL SEVEN-DAY MINIMUM	2.2	Sep 12	5.7	Oct 12	0.00	Sep 15, 1959	
MAXIMUM PEAK FLOW		*	7,470	Sep 1	12,400	Apr 20, 1964	
MAXIMUM PEAK STAGE			12.34	Sep 1	14.64	Apr 20, 1964	
ANNUAL RUNOFF (CFSM)	1.25		1.62	•	0.94	•	
ANNUAL RUNOFF (INCHES)	16.96		22.02		12.79		
10 PERCENT EXCEEDS	277		352		216		
50 PERCENT EXCEEDS	38		48		30		
90 PERCENT EXCEEDS	5.7		11		1.3		



03353450 EAGLE CREEK RESERVOIR NEAR INDIANAPOLIS, IN

LOCATION.--Lat $39^{\circ}49'20''$, long $86^{\circ}18'11''$, in $NW^{1}_{4}NW^{1}_{4}$ sec. 22, T.16 N., R.2 E., Marion County, Hydrologic Unit 05120201, (CLERMONT, IN quadrangle), 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 0.00 ft above National Geodetic Vertical Datum of 1929.

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 30,940 acre-ft May 11, 2003, elevation, 794.84 ft; minimum, 11,390 acre-ft Nov. 17-18, 1991, elevation, 778.70 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 30,940 acre-ft May 11, elevation, 794.84 ft; minimum, 21,910 acre-ft Oct. 25, elevation, 788.39 ft.

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	789.39 788.50 789.06 790.16	23,210 22,050 22,780 24,220	-1160 +730 +1440
CAL YR 2002			+1530
Jan. 31	789.02 788.99 790.37 790.97 790.95 790.72 791.28 790.81 790.51	22,730 22,690 24,520 25,360 25,330 25,010 25,790 25,130 24,710	-1490 -40 +1830 +840 -30 -320 +780 -660 -420
WTR YR 2003			+1500

03353451 EAGLE CREEK BELOW RESERVOIR AT INDIANAPOLIS, IN

LOCATION.--Lat 39°49'20", long 86°18'11", in $NW^{1}/_{4}NW^{1}/_{4}$ sec. 22, T.16 N., R.2 E., Marion County, Hydrologic Unit 05120201, (CLERMONT, IN quadrangle), 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 2.0 mi west of Indianapolis.

DRAINAGE AREA.--162 mi².

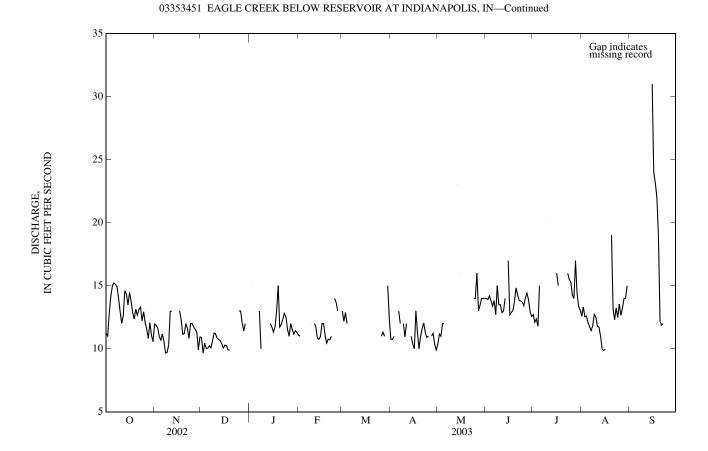
PERIOD OF RECORD.--October 1992 to current year. Published as "03353450 Eagle Creek Reservoir near Indianapolis" October 1992 to September 1994.

GAGE.--Water stage recorder located 100 ft downstream of outlet structure. Datum of gage is 741.15 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Mean daily discharges below 50 ft³/s published. Unit discharges below 50 ft³/s available in district office. For a complete record of Eagle Creek in this vicinity use records of Eagle Creek at Indianapolis, IN (station 03353500) about 4.9 mile downstream. Prior to Oct. 1993, this station was published under Eagle Creek Reservoir at Indianapolis (station 03353450).

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	11 11 13 14 15	12 12 12 11 11	11 9.7 10 10 10	15 	11 11 	13 12 13 12	11 11 11 	10 11 11 12 12	14 14 14 14 13	13 12 12 12 12	13 13 13 13 12	
6 7 8 9 10	15 15 15 14 13	11 11 9.7 9.7 10	10 10 11 11	e13 10	 12	 	13 12 12 11	 	14 13 15 13	 	12 11 12 13 13	
11 12 13 14 15	12 13 15 14 13	13 13 	11 11 11 10 10	11 12 12	12 12 11 11	 	12 11 10	23	13 13 14 17	20 	12 12 11 10 9.9	31
16 17 18 19 20	14 14 13 12 13	13 12 11	10 10 9.9 9.9	11 12 13 15 12	12 12 11 10 11	 	10 13 11 10 11	16 	13 13 13 14 15	16 15 	10 19	e24 23 22 19 12
21 22 23 24 25	13 13 13 12 13	12 12 11 12 12	13	12 12 13 13 12	11 11 14 14	 	12 12 11 11	 14 14	14 14 14 14 13	16 16 16	13 12 13 12 14	12 12
26 27 28 29 30 31	12 12 11 12 11 11	12 12 11 9.9 11	13 12 11 12 	11 e12 12 11 11	13 	11 11 11 15 12	11 11 10 9.9	16 13 13 14 14 14	14 14 14 13 13	14 14 17 14 13	13 13 14 14 15	
TOTAL MEAN MAX MIN CFSM IN.	402 13.0 15 11 0.08 0.09	297.3 11.4 13 9.7 0.07 0.07	257.5 10.7 13 9.7 0.07 0.06	266 12.1 15 10 0.07 0.06	210 11.7 14 10 0.07 0.05	110 12.2 15 11 0.08 0.03	267.9 11.2 13 9.9 0.07 0.06	207 13.8 23 10 0.09 0.05	399 13.8 17 13 0.08 0.09	247 14.5 20 12 0.09 0.06	341.9 12.7 19 9.9 0.08 0.08	155 19.4 31 12 0.12 0.04
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1992 - 2003,	BY WATE	R YEAR (W	YY)			
MEAN MAX (WY) MIN (WY)	9.03 13.0 (2003) 3.63 (1995)	9.08 12.6 (2001) 3.69 (1995)	9.00 12.0 (1997) 3.88 (1996)	9.55 13.3 (1997) 4.07 (1996)	9.73 12.0 (1997) 4.84 (1995)	11.0 16.0 (1997) 8.65 (1994)	13.9 24.2 (1996) 10.4 (2000)	12.5 23.0 (1996) 4.94 (1993)	11.4 14.4 (1997) 4.07 (1993)	10.8 14.5 (2003) 4.40 (1993)	9.16 13.0 (1999) 3.49 (1994)	9.21 19.4 (2003) 3.55 (1994)
SUMMAI	RY STATIS	STICS		FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	/EAR	WATER	YEARS 199	2 - 2003
LOWEST HIGHEST LOWEST ANNUAL ANNUAL ANNUAL 10 PERCI 50 PERCI	L MEAN I ANNUAL I ANNUAL I DAILY M I DAILY M	MEAN IEAN EAN OAY MINIM (CFSM) (INCHES) EDS EDS	UM	17 9 10	7 Jul 0.0 Jan 0 Dec 0.074 0.54	23	3 1 1	12.6 31 Sep 9.7 Nov	0 15 7 8 2 1		2.0 Se	1997 1993 or 5, 1996 p 14, 1994 p 8, 1994

e Estimated



03353500 EAGLE CREEK AT INDIANAPOLIS, IN

LOCATION.--Lat 39°46'33", long 86°15'01", in NW \(^{1}_{4}\text{NW}\(^{1}_{4}\text{ sec. 6, T.15 N., R.3 E., Marion County, Hydrologic Unit 05120201, (CLERMONT, IN quadrangle), on right bank at downstream side of bridge on Lynhurst Drive, approximately 600 ft south of intersection of West 10th Street and Lynhurst Drive, 0.5 mi downstream from West 10th Street bridge, 1.0 mi upstream from Vermont Street bridge, 3.0 mi upstream from Little Eagle Creek, and 7.1 mi upstream from mouth.

DRAINAGE AREA.--174 mi².

PERIOD OF RECORD.--November 1938 to current year.

REVISED RECORDS.--WSP 953: 1939. WSP 1625: 1958. WSP 2109: Drainage area. WDR IN-93-1: 1992.

GAGE.--Water-stage recorder. Datum of gage is 697.00 ft above National Geodetic Vertical Datum of 1929. Aug. 8, 1957 to June 30, 1958, temporary site during reconstruction of bridge on Lynhurst Drive, a nonrecording gage on downstream side of 10th Street bridge. Mar. 10, 1966 to Aug. 16, 1967, during channelization of Eagle Creek, a nonrecording gage on downstream side of Lynhurst Drive bridge. Prior to Oct. 1, 1967, at datum 9.21 ft higher, (erroneously published as 7.21 ft higher in 1992 report). Oct. 1, 1967 to Sept. 30, 1992 at datum 2 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated since November 1969 by Eagle Creek Reservoir, 4.7 mi upstream (see station 03353450).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 23.2 ft present datum, from information by local residents.

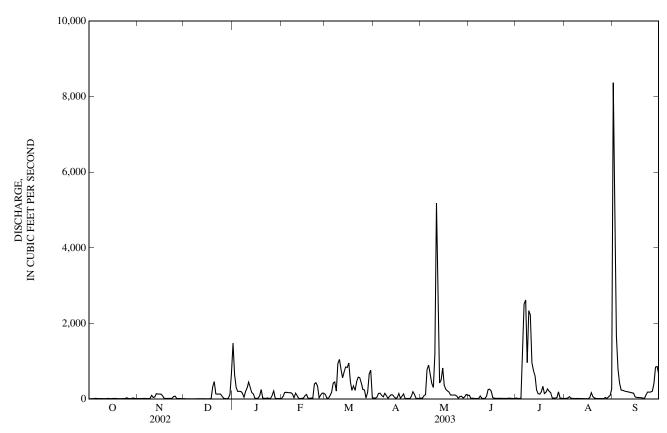
DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	e12 e13 e14 e15 e23	e17 e17 e16 e16 e20	e15 e11 e11 e11	e1,480 e655 e313 e207 e206	18 72 174 184 173	124 28 28 95 180	31 27 52 154 158	31 24 88 120 779	105 21 24 20 19	30 18 17 29 1,070	20 18 34 65 24	8,370 6,380 1,670 796 432
6	e18	e18	e11	e205	171	426	102	899	18	2,510	21	243
7	e17	e18	e11	e160	170	454	60	665	18	2,620	19	231
8	e17	e17	e11	e53	137	213	153	421	84	965	17	217
9	e16	e18	e12	e200	35	938	92	311	23	2,340	21	206
10	e15	e102	e12	e295	159	1,050	23	1,200	18	2,230	18	198
11 12 13 14 15	e14 e15 e20 e17 e15	e47 e56 e143 e136 e135	e12 e12 e12 e13 e11	453 313 170 139 26	88 21 19 21 29	795 566 723 850 838	71 117 113 64 18	5,180 1,960 427 505 825	17 81 252 264 212	964 757 622 247 145	16 16 15 13	188 177 167 158 59
16	e19	e133	e11	23	93	957	48	369	39	132	12	46
17	e19	e89	e12	23	125	461	149	261	24	190	45	43
18	e21	e23	e14	87	22	231	22	220	22	340	171	41
19	e14	e21	e328	253	24	352	76	188	21	147	65	39
20	e15	e19	e464	32	30	230	139	109	23	182	29	26
21	e15	e20	e137	22	30	460	19	110	23	271	20	24
22	e15	e21	e135	21	401	582	18	109	21	208	16	121
23	e17	e19	e135	32	436	568	18	110	20	171	17	190
24	e16	e70	e134	20	351	424	16	81	20	34	16	185
25	e35	e79	e80	19	35	255	80	22	18	29	15	189
26 27 28 29 30 31	e19 e16 e15 e32 e21 e17	e19 e17 e16 e15 e13	e27 e15 e14 e22 e118 e680	97 214 21 18 18	106 161 158 	243 30 174 664 766 41	196 123 21 20 17	68 78 30 60 125 100	26 24 21 19 18	27 43 193 28 24 22	15 44 21 61 98 272	215 412 846 864 672
TOTAL	547	1,350	2,502	5,793	3,443	13,746	2,197	15,475	1,515	16,605	1,247	23,405
MEAN	17.6	45.0	80.7	187	123	443	73.2	499	50.5	536	40.2	780
MAX	35	143	680	1,480	436	1,050	196	5,180	264	2,620	272	8,370
MIN	12	13	11	18	18	28	16	22	17	17	12	24
CFSM	0.10	0.26	0.46	1.07	0.71	2.55	0.42	2.87	0.29	3.08	0.23	4.48
IN.	0.12	0.29	0.53	1.24	0.74	2.94	0.47	3.31	0.32	3.55	0.27	5.00
STATIST	ICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1939 - 2003,	BY WATE	R YEAR (W	Y)			
MEAN	40.3	110	163	201	239	303	295	221	149	91.2	38.3	50.2
MAX	574	851	906	1,485	765	900	906	1,127	904	800	490	780
(WY)	(2002)	(1993)	(1991)	(1950)	(1976)	(1978)	(1964)	(1943)	(1957)	(1979)	(1958)	(2003)
MIN	1.52	3.05	3.48	4.06	10.8	16.5	25.4	14.3	4.66	3.69	0.19	0.40
(WY)	(1941)	(1941)	(1945)	(1945)	(1998)	(2000)	(2000)	(1976)	(1988)	(1968)	(1941)	(1941)

WABASH RIVER BASIN 229

03353500 EAGLE CREEK AT INDIANAPOLIS, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WA	TER YEAR	WATER YEARS 1939 - 2003		
ANNUAL TOTAL	78,705.5		87,825				
ANNUAL MEAN	216		241		158		
HIGHEST ANNUAL MEAN					316	1974	
LOWEST ANNUAL MEAN					18.8	1941	
HIGHEST DAILY MEAN	7,290	May 13	8,370	Sep 1	9,890	Dec 30, 1990	
LOWEST DAILY MEAN	9.7	Aug 31	11	Dec 2	0.00	Aug 7, 1941	
ANNUAL SEVEN-DAY MINIMUM	10	Aug 30	11	Dec 2	0.01	Aug 22, 1941	
MAXIMUM PEAK FLOW		-	15,900	Sep 1	28,800	Jun 28, 1957	
MAXIMUM PEAK STAGE			16.57	Sep 1	23.59	Jun 28, 1957	
ANNUAL RUNOFF (CFSM)	1.24		1.38	_	0.91		
ANNUAL RUNOFF (INCHES)	16.83		18.78		12.34		
10 PERCENT EXCEEDS	522		574		358		
50 PERCENT EXCEEDS	35		46		38		
90 PERCENT EXCEEDS	13		15		6.1		



03353600 LITTLE EAGLE CREEK AT SPEEDWAY, IN

 $LOCATION.--Lat\ 39^{\circ}47'15'',\ long\ 86^{\circ}13'41'',\ in\ NE^{1}_{4}SW^{1}_{4}\ sec. 32,\ T.16\ N.,\ R.3\ E.,\ Marion\ County,\ Hydrologic\ Unit\ 05120201,\ (INDIANAPOLIS\ WEST,\ IN\ quadrangle),\ on\ right\ bank\ at\ downstream\ side\ of\ 16th\ Street\ bridge\ in\ Speedway,\ 0.6\ mi\ upstream\ from\ Dry\ Run,\ and\ 2.3\ mi\ upstream\ from\ mouth.$

DRAINAGE AREA.--24.3 mi² including 5.57 mi² from Dry Run basin. Since June 1964 part of the flow from the 5.57 mi² of Dry Run basin has been diverted into Little Eagle Creek above gage.

PERIOD OF RECORD.--October 1959 to current year. Figures of runoff for June 1964 to September 1966 have been found to be in error and should not be used.

REVISED RECORDS.--WDR IN-95-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 707.82 ft above National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to June 13, 1975, at datum 3.00 ft higher.

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

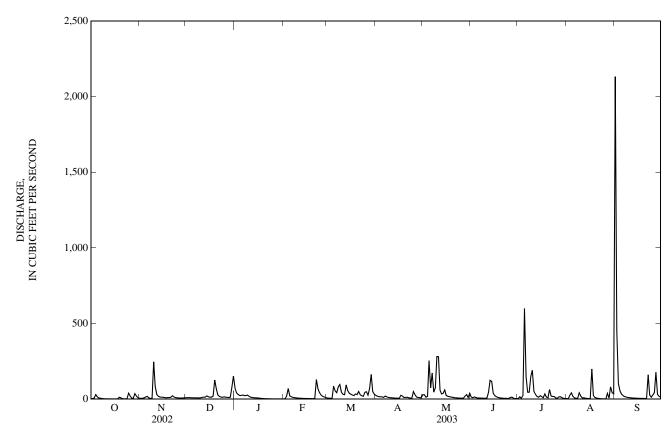
DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

					Dill	DI MILITIN V	ALCES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	4.1 3.9 6.7 30 15	6.0 5.4 6.6 8.1	10 9.8 9.8 9.2 9.1	74 42 31 24 25	e2.1 e2.7 e21 70 e22	e7.4 e6.7 e6.2 e5.8	25 20 16 16 15	29 30 12 18 255	13 9.4 15 11 8.0	4.3 16 5.9 24 599	4.1 3.8 26 42 18	2,130 450 103 55 34
6 7 8 9 10	7.9 6.2 4.6 3.1 2.4	18 7.7 5.4 6.3 247	9.0 8.7 8.8 8.4 8.2	27 23 24 27 19	e15 e12 e10 e8.6 e7.3	55 43 82 97 46	12 20 15 12 10	76 173 46 74 282	7.2 7.2 6.6 5.6 6.4	148 45 46 151 191	8.4 6.1 5.0 42 19	23 17 14 11 9.7
11 12 13 14 15	2.3 2.2 2.3 2.2 2.0	85 31 20 14 13	12 14 13 22 16	e13 e11 e9.4 e8.6 e9.0	e6.5 e6.0 e5.4 e5.0 e4.7	32 29 95 57 39	9.1 8.3 7.5 7.0 6.7	280 61 34 38 61	8.6 47 125 118 39	51 32 18 13 23	8.4 8.8 6.0 4.9 4.1	8.7 7.8 7.0 6.8 6.1
16 17 18 19 20	1.8 1.8 1.8 13 9.6	13 11 8.8 11 10	13 13 20 126 71	e7.5 e6.2 e5.2 e4.3 e3.6	e4.4 e4.2 e3.9 e3.8 e3.8	33 27 24 34 30	6.3 25 20 11	24 19 17 14 13	23 16 12 9.5 7.7	16 9.7 35 14 8.8	3.7 200 25 11 7.7	5.7 5.3 5.1 5.0 4.8
21 22 23 24 25	3.0 2.5 2.3 2.3 40	13 23 14 10 8.7	28 19 13 e12 e15	e3.2 e2.8 e2.4 e2.3 e2.2	e5.0 130 70 43 e27	50 29 22 19 45	13 9.4 7.1 6.2 50	11 9.0 8.4 7.5 7.0	6.4 5.6 5.9 5.1 4.8	64 21 18 17 8.4	e5.4 e4.0 e3.0 e2.6 e2.3	4.5 161 27 13 27
26 27 28 29 30 31	21 7.4 4.8 37 20 9.2	7.9 7.7 7.7 7.8 9.3	e13 e12 e11 e13 e80 153	e2.1 e2.1 e2.0 e2.0 e1.9 e1.9	e19 e14 e11 	49 27 71 164 50 33	30 14 11 10 8.3	6.7 6.2 20 31 11 39	12 13 5.8 4.6 4.3	6.2 15 17 8.6 5.7 4.8	e2.0 39 7.0 81 43 35	43 178 32 19 13
TOTAL MEAN MAX MIN CFSM IN.	272.4 8.79 40 1.8 0.36 0.42	652.4 21.7 247 5.4 0.89 1.00	780.0 25.2 153 8.2 1.04 1.19	418.7 13.5 74 1.9 0.56 0.64	537.4 19.2 130 2.1 0.79 0.82	1,394.1 45.0 164 5.8 1.85 2.13	431.9 14.4 50 6.2 0.59 0.66	1,712.8 55.3 282 6.2 2.27 2.62	562.7 18.8 125 4.3 0.77 0.86	1,636.4 52.8 599 4.3 2.17 2.51	678.3 21.9 200 2.0 0.90 1.04	3,426.5 114 2,130 4.5 4.70 5.25
STATIS	TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1965 - 2003,	BY WATE	ER YEAR (W	Y)			
MEAN MAX (WY) MIN (WY)	12.7 88.9 (1987) 0.81 (1967)	24.7 115 (1994) 1.50 (1966)	28.5 111 (1991) 0.85 (1977)	25.7 78.3 (1969) 0.32 (1977)	31.0 77.1 (1997) 3.82 (1978)	37.3 87.8 (1978) 4.84 (1981)	36.2 84.4 (1996) 5.51 (1976)	34.3 140 (1996) 4.84 (1976)	21.6 112 (1998) 0.98 (1988)	19.7 92.3 (1979) 0.67 (1966)	11.8 44.7 (1979) 0.15 (1966)	14.2 114 (2003) 0.20 (1966)

WABASH RIVER BASIN 231

03353600 LITTLE EAGLE CREEK AT SPEEDWAY, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	NDAR YEAR	FOR 2003 WAT	TER YEAR	WATER YEARS 1965 - 2003		
ANNUAL TOTAL	10,980.7		12,503.6				
ANNUAL MEAN	30.1		34.3		24.8		
HIGHEST ANNUAL MEAN					43.6	1993	
LOWEST ANNUAL MEAN					4.86	1966	
HIGHEST DAILY MEAN	652	May 13	2,130	Sep 1	2,130	Sep 1, 2003	
LOWEST DAILY MEAN	1.1	Sep 15	1.8	Oct 16	0.00	Jul 8, 1966	
ANNUAL SEVEN-DAY MINIMUM	1.2	Sep 11	2.0	Jan 26	0.07	Aug 2, 1966	
MAXIMUM PEAK FLOW		•	3,870	Sep 1	3,870	Sep 1, 2003	
MAXIMUM PEAK STAGE			12.79	Sep 1	12.79	Sep 1, 2003	
ANNUAL RUNOFF (CFSM)	1.24		1.41	•	1.02		
ANNUAL RUNOFF (INCHES)	16.81		19.14		13.85		
10 PERCENT EXCEEDS	71		62		51		
50 PERCENT EXCEEDS	12		12		8.2		
90 PERCENT EXCEEDS	2.7		3.9		1.5		



232 WABASH RIVER BASIN

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

LOCATION.--Lat 39°42′52″, long 86°12′02″, in $SE^{1}_{4}NE^{1}_{4}$ sec.28, T.15N., R.3E., Marion County, Hydrologic Unit 05120201, (MAYWOOD, IN quadrangle), on right bank 0.34 mi above confluence with Lick Creek, 0.63 mi west of South Harding Street, 1.42 mi east of Lockburn Street and 1.46 mi south of Raymond Street, and at mile 226.3.

DRAINAGE AREA.--1,898 mi².

PERIOD OF RECORD.--Oct. 1, 1992 to current year.

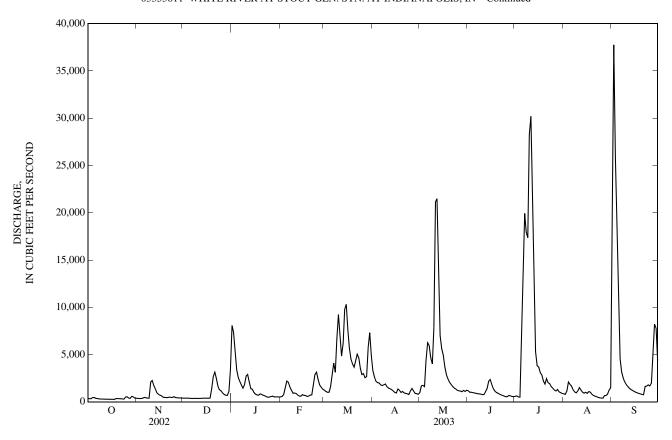
GAGE.--Water-stage recorder. Datum of gage is 663.40 above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Natural flow affected by regulation of Morse Reservoir and Geist Reservoir, and by diversion of municipal water supply by the Indianapolis Water Company.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	342	371	386	8,080	525	1,240	3,320	973	1,170	586	834	26,500
2	340	360	386	7,360	564	1,090	2,630	1,680	1,010	623	796	37,800
3	328	350	387	5,240	751	1,000	2,180	1,740	1,020	518	1,150	25,800
4	454	358	386	3,410	1,500	1,010	2,030	1,610	961	500	2,100	21,100
5	448	386	375	2,560	2,190	1,620	2,000	4,420	936	5,910	1,850	13,100
6	368	e462	366	2,150	2,070	2,870	1,780	6,250	899	14,400	1,670	4,540
7	347	e430	354	1,790	1,560	4,080	1,720	5,960	853	19,900	1,270	3,160
8	316	391	364	1,440	1,220	3,120	1,790	4,660	850	18,000	1,050	2,520
9	296	384	370	1,800	903	6,630	1,890	4,010	813	17,400	949	2,110
10	293	2,080	358	2,730	930	9,240	1,610	7,840	759	28,300	1,160	1,810
11	284	2,260	366	2,900	876	7,000	1,450	21,100	768	30,200	1,510	1,600
12	282	1,740	375	2,110	715	4,840	1,390	21,500	1,070	22,400	1,250	1,430
13	276	1,390	370	1,390	612	6,200	1,290	14,700	1,400	11,700	1,020	1,280
14	274	959	386	1,330	595	9,760	1,160	7,010	2,170	5,310	915	1,210
15	271	794	386	989	770	10,300	997	5,610	2,360	3,820	1,020	1,090
16	267	701	383	811	672	7,700	932	4,970	1,850	3,660	900	1,020
17	264	626	384	730	673	5,670	1,350	3,700	1,400	3,080	1,080	950
18	261	485	401	690	556	4,560	1,220	2,870	1,130	2,820	1,020	889
19	343	472	1,410	834	607	4,010	991	2,440	990	2,200	797	839
20	350	445	2,650	770	711	3,670	1,100	2,070	901	1,880	666	780
21	332	450	3,130	684	737	4,310	936	1,850	809	2,460	593	754
22	326	497	2,480	635	1,850	5,040	897	1,620	732	2,030	538	1,630
23	304	470	1,650	530	2,870	4,670	845	1,460	667	1,910	466	1,660
24	284	465	1,280	485	3,140	3,540	767	1,360	603	1,610	426	1,790
25	507	540	1,160	509	2,370	2,890	1,150	1,220	537	1,440	395	1,670
26 27 28 29 30 31	534 393 375 575 509 392	436 432 412 402 399	935 778 696 685 1,080 3,430	559 e600 e520 527 526 517	1,790 1,540 1,340 	2,980 2,560 2,670 5,780 7,310 4,900	1,410 1,150 894 860 795	1,160 1,140 1,070 1,210 1,090 1,230	554 681 616 573 543	1,240 1,150 1,310 1,070 961 888	388 654 665 812 1,240 1,500	1,970 4,760 8,230 7,790 4,330
TOTAL	10,935	19,947	28,147	55,206	34,637	142,260	42,534	139,523	29,625	209,276	30,684	184,112
MEAN	353	665	908	1,781	1,237	4,589	1,418	4,501	988	6,751	990	6,137
MAX	575	2,260	3,430	8,080	3,140	10,300	3,320	21,500	2,360	30,200	2,100	37,800
MIN	261	350	354	485	525	1,000	767	973	537	500	388	754
CFSM	0.19	0.35	0.48	0.94	0.65	2.42	0.75	2.37	0.52	3.56	0.52	3.23
IN.	0.21	0.39	0.55	1.08	0.68	2.79	0.83	2.73	0.58	4.10	0.60	3.61
STATIST	TICS OF MC		EAN DATA	A FOR WATE	R YEARS		BY WATE	R YEAR (W	· 1			
MEAN	974	2,008	1,584	2,299	2,073	2,927	2,844	3,275	2,336	1,777	624	1,105
MAX	5,339	7,366	4,215	4,949	4,000	5,526	5,334	7,735	6,924	6,751	1,360	6,137
(WY)	(2002)	(1994)	(1997)	(1999)	(1997)	(1997)	(2002)	(1996)	(1998)	(2003)	(1998)	(2003)
MIN	227	200	252	269	666	751	1,418	1,326	829	533	273	181
(WY)	(1995)	(2000)	(2000)	(2000)	(1995)	(2000)	(2003)	(2000)	(1994)	(1999)	(1999)	(1999)
SUMMA	RY STATIS	STICS		FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	EAR	WATER	YEARS 199	2 - 2003
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM		IUM	780,342 2,138 30,300 May 14 261 Oct 18 271 Oct 12			926,886 2,539 37,800 Sep 2 261 Oct 18 271 Oct 12			1,984 2,947 1993 770 2000 37,800 Sep 2, 2003 150 Oct 1, 1995 161 Sep 14, 1999			
MAXIMU ANNUAI ANNUAI 10 PERCI 50 PERCI	UM PEAK F UM PEAK S L RUNOFF L RUNOFF ENT EXCEI ENT EXCEI	STAGE (CFSM) (INCHES) EDS EDS						15.42 Sep 1.34 18.17 30		4,4 9	15.42 Se 1.05 14.20	p 1,2003 p 1,2003

e Estimated

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



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

WATER-QUALITY RECORDS

INSTRUMENTATION.--Temperature recorder.

PERIOD OF RECORD .--

WATER TEMPERATURE.-- September 1992 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 31.6°C, July 25, 1999; minimum, -0.1°C, Jan. 29, 1995.

EXTREMES FOR CURRENT YEAR.-- WATER TEMPERATURE: Maximum, 26.0°C, Oct. 3; minimum, 1.8°C, Feb. 8, and 16.

TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		ОСТОВЕР	₹	N	OVEMBE	ER	D	ECEMBE	ER	;	JANUAR	Y
1 2 3 4 5	25.0 25.6 26.0 25.5 23.9	22.9 23.8 24.3 23.5 22.7	23.8 24.6 25.2 25.0 23.3	15.1 15.1 16.1 15.7 17.4	13.5 13.4 13.3 13.8 13.6	14.3 14.3 14.7 14.8 15.2	10.2 10.0 9.5 9.0 9.3	8.3 7.5 8.3 6.0 7.0	9.4 9.3 9.0 7.9 8.7	5.4 6.5 6.3 5.8 7.2	4.7 4.3 4.6 4.6 5.2	5.0 5.4 5.5 5.4 6.2
6 7 8 9	23.3 22.9 22.1 21.8 21.9	22.6 21.4 20.8 20.3 20.3	23.0 22.1 21.4 21.2 21.1	15.0 16.2 16.6	12.6 13.8 14.4	13.7 14.9 15.4	9.3 9.6 9.2 9.4 9.5	6.9 6.0 6.3 6.2 7.4	8.7 8.4 8.6 8.5 9.0	7.6 7.3 8.6 8.6 7.4	6.1 5.0 6.0 6.9 5.6	6.8 6.1 7.0 7.8 6.5
11 12 13 14 15	22.4 22.6 22.0 21.5 20.7	20.2 21.3 20.6 19.2 19.0	21.4 21.9 21.3 20.4 19.8	14.5 14.1 13.6 13.1 12.9	13.7 13.1 11.5 12.1 11.5	14.2 13.7 12.6 12.6 12.3	10.6 10.8 10.4 10.4 10.0	9.0 9.4 9.3 9.4 8.1	9.6 10.0 9.8 9.9 9.3	5.6 5.1 5.1 5.0 3.8	4.2 2.6 2.9 3.3 2.4	4.9 3.8 4.0 4.1 3.1
16 17 18 19 20	20.2 19.5 19.4 20.7 18.4	18.4 17.8 17.1 17.3 16.5	19.1 18.5 18.4 18.8 17.5	11.6 11.7 13.0 12.8 12.9	10.5 9.9 11.5 10.8 11.3	10.9 10.7 12.2 11.9 12.2	9.8 10.6 12.2 13.3 8.1	8.2 7.3 9.2 8.1 6.8	9.1 9.1 10.4 10.9 7.5	3.3 3.1 4.0 3.3 4.2	1.9 2.3 2.2 2.4 2.6	2.6 2.7 2.8 2.9 3.4
21 22 23 24 25	18.5 19.1 18.5 19.2 19.6	16.4 17.2 16.7 17.0 13.8	17.6 17.9 17.5 17.8 17.2	14.0 13.2 11.5 12.0 11.3	11.7 10.8 10.4 10.4 9.4	12.6 11.7 11.1 11.1 10.3	8.2 8.2 8.3 7.8 7.3	6.5 7.1 6.2 6.2 5.5	7.5 7.7 7.3 7.1 6.4	3.6 4.2 4.6 4.7 4.8	2.1 2.0 2.5 2.7 2.7	2.8 3.0 3.4 3.6 3.6
26 27 28 29 30 31	15.1 15.9 16.8 17.8 13.9 14.8	13.5 14.3 14.8 12.5 11.8 13.4	14.2 14.9 15.8 15.7 12.7 14.1	10.9 10.7 10.4 10.9 10.3	9.7 9.6 9.6 9.2 9.1	10.3 10.2 9.9 10.0 9.8	6.3 6.1 9.1 8.8 9.2 9.4	4.6 3.9 4.0 4.2 7.7 5.0	5.3 4.8 5.9 6.3 8.3 7.9	4.0 4.0 4.3 4.3	2.3 2.0 2.5 2.8	3.3 3.1 3.3 3.5
MONTH	26.0	11.8	19.5				13.3	3.9	8.3			

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

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	F	EBRUAR	Y		MARCH			APRIL			MAY	
1 2 3 4 5	5.9 8.0 7.6 7.5 5.4	3.0 2.5 5.3 4.2 3.3	4.3 4.5 6.3 5.1 4.5	6.7 7.0 6.2 8.9 7.2	4.3 5.3 3.3 4.4 5.6	5.3 6.1 5.0 6.4 6.4	12.4 14.7 16.5 16.4 15.7	9.7 11.7 13.7 14.9 12.7	11.0 13.2 15.1 15.7 13.9	 	 	
6 7 8 9 10	4.5 5.3 4.2 4.7 6.2	3.2 3.1 1.8 2.4 3.5	3.9 4.1 3.0 3.5 4.7	5.7 5.9 7.7 6.8 4.2	4.1 3.4 4.5 3.1 2.4	5.1 4.6 6.0 4.5 3.1	12.8 12.2 11.1 10.6 12.0	11.2 11.1 10.3 9.1 8.9	11.9 11.7 10.7 9.8 10.5	 	 	
11 12 13 14 15	5.3 4.6 4.7 5.5 5.5	2.7 2.0 2.1 2.8 2.5	3.9 3.5 3.3 3.6 3.5	4.8 4.9 5.6 5.1 5.6	2.4 3.6 3.9 3.2 3.6	3.6 4.3 4.8 4.1 4.5	12.8 14.2 15.2 16.1 17.6	10.4 11.6 12.5 13.2 15.6	11.6 12.8 13.8 14.7 16.5	 	 	
16 17 18 19 20	3.2 4.2 3.9 6.0 6.7	1.8 2.0 2.2 3.0 2.4	2.4 2.9 3.2 3.9 4.2	6.5 8.2 9.6 9.9 11.0	3.9 5.5 7.6 8.4 8.9	5.1 6.9 8.6 9.1 9.9	18.6 17.8 	16.5 15.6 	17.6 16.4 	 	 	
21 22 23 24 25	5.7 7.8 4.7 5.3 4.0	3.3 3.0 3.1 3.2 2.5	4.4 5.4 3.7 4.0 3.4	10.5 8.9 9.6 11.2 12.4	7.6 6.9 6.9 7.4 10.2	9.1 8.0 8.3 9.4 11.4	 	 	 	 	 	
26 27 28 29 30 31	4.2 4.5 5.2 	2.6 3.0 3.3 	3.4 3.7 4.3 	13.2 13.7 14.1 11.0 9.3 10.7	9.4 12.1 11.0 9.1 8.3 8.1	11.3 12.8 13.0 9.8 8.8 9.4	 	 	 	 	 	
	0.0	1.8	4.0	14.1	2.4	7.2						
MONTH	8.0	1.0	4.0	14.1	2.4	1.2						
MONTH	8.0	JUNE	4.0	14.1	JULY	1.2		AUGUST			ЕРТЕМВЕ	
1 2 3 4 5	 		4.0			 			 			
1 2 3 4	 	JUNE 	 	 	JULY	 	 	AUGUST 		S:	EPTEMBE 	ER
1 2 3 4 5 6 7 8 9 10 11 12 13 14		JUNE	 	 	JULY		 	AUGUST	 	S:	EPTEMBE 	ER
1 2 3 4 5 6 7 8 9 10		JUNE	 	 	JULY			AUGUST		S:	EPTEMBE	ER
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19		JUNE			JULY			AUGUST		S:	EPTEMBE	ER
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24		JUNE			JULY			AUGUST		Si	EPTEMBE	ER

03353620 LICK CREEK AT INDIANAPOLIS, IN

LOCATION.--Lat 39°42'21", long 86°06'13", in $NE^{1}_{4}NE^{1}_{4}$ sec.32, T.15 N., R.4 E., Marion County, Hydrologic Unit 05120201, (BEECH GROVE, IN quadrangle), on left bank, at upstream side of Sherman Drive bridge, in Indianapolis, 0.35 mi downstream of Beach Creek mouth, 5.1 mi west of Wanamaker, IN., and at mile 6.2.

DRAINAGE AREA.--15.6 mi².

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

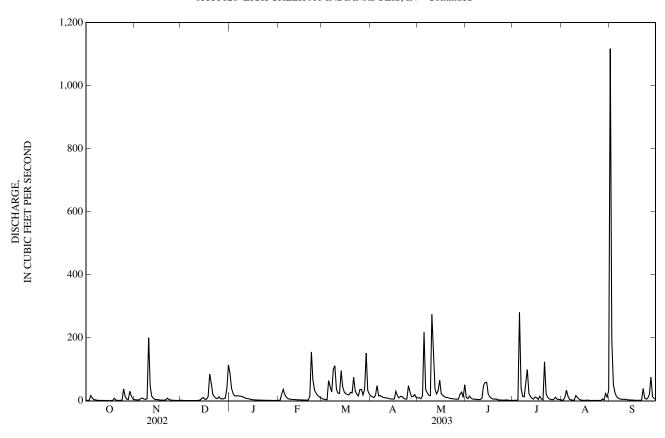
GAGE.--Water-stage recorder. Datum of gage is 742.00 ft above National Geodetic Vertical Datum of 1929 (Indiana Flood Control and Water Resources

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

					YEAR OCT	, CUBIC FER TOBER 2002 LY MEAN V	TO SEPTE					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1.8 1.5 1.4 17 8.6	3.7 3.1 2.9 3.0 7.3	1.7 1.3 1.1 0.95 0.94	86 40 23 16 16	e1.4 e2.0 e20 e36 e20	e6.4 e5.2 e4.4 e3.7	15 12 10 18 49	9.5 9.7 6.7 16 218	11 6.7 15 8.7 5.9	1.4 1.4 1.4 2.9 281	2.5 2.0 11 34 14	1,120 193 51 26 14
6 7 8 9 10	3.6 3.3 1.9 1.5 1.3	9.0 5.6 4.8 6.4 200	1.0 1.1 1.0 0.93 0.93	16 15 15 14 9.8	12 6.8 e5.6 e5.0 e4.4	45 28 99 111 37	16 17 13 11 9.6	37 26 18 16 275	5.0 5.1 4.3 3.9 4.5	40 14 12 59 99	4.6 2.8 2.2 1.7	9.0 6.2 4.7 4.8 5.1
11 12 13 14 15	1.2 1.2 1.2 1.1 1.1	46 14 8.3 4.2 3.9	0.93 1.7 2.6 8.0	e8.6 e7.0 e6.6 e4.7 e4.0	e4.0 e3.7 e3.4 e3.2 e3.0	24 24 96 45 28	9.1 8.0 6.5 5.9 5.7	163 38 22 32 65	7.8 49 58 59 22	24 14 7.8 5.3	11 5.5 2.7 1.9 1.5	4.4 3.7 2.8 2.8 2.6
16 17 18 19 20	1.2 1.1 1.1 8.0 2.8	3.9 2.7 2.1 2.4 2.3	4.9 5.3 13 85 56	e3.4 e3.0 e2.7 e2.4 e2.2	e2.8 e2.6 e2.4 e2.4 e2.8	23 20 19 27 25	5.8 31 16 9.3 14	23 17 13 11 10	13 8.1 5.8 5.0 5.9	9.8 4.5 14 5.5 3.3	1.5 2.4 1.9 1.3 1.2	2.1 1.9 1.8 1.8
21 22 23 24 25	1.5 1.3 1.9 2.1 38	3.1 8.5 4.0 2.6 2.0	20 13 8.1 6.7 13	e2.0 e1.9 e1.8 e1.7 e1.6	e14 155 66 33 e24	75 32 21 16 36	13 7.9 5.7 5.5 48	8.5 7.4 6.8 6.0 5.6	3.4 3.0 2.6 2.2 2.0	124 22 11 6.3 4.6	1.2 1.2 1.2 1.2 1.2	1.7 39 8.9 5.1 8.4
26 27 28 29 30 31	13 5.3 4.0 31 14 5.6	1.5 1.2 1.3 1.3 1.9	6.6 e6.4 6.3 9.0 41 114	e1.5 e1.4 e1.3 e1.3 e1.2 e1.2	e17 e13 e10	36 19 37 152 33 22	29 13 14 20 10	5.4 5.3 20 27 10 51	2.5 2.8 1.9 1.6 1.5	3.3 5.0 11 5.0 4.4 3.7	1.1 5.6 3.0 23 12 33	20 76 13 8.2 4.9
TOTAL MEAN MAX MIN CFSM IN.	179.6 5.79 38 1.1 0.37 0.43	363.0 12.1 200 1.2 0.78 0.87	442.48 14.3 114 0.93 0.91 1.06	312.3 10.1 86 1.2 0.65 0.74	475.5 17.0 155 1.4 1.09 1.13	1,213.7 39.2 152 3.7 2.51 2.89	448.0 14.9 49 5.5 0.96 1.07	1,178.9 38.0 275 5.3 2.44 2.81	327.2 10.9 59 1.5 0.70 0.78	812.6 26.2 281 1.4 1.68 1.94	206.4 6.66 34 1.1 0.43 0.49	1,644.7 54.8 1,120 1.7 3.51 3.92
STATIST				FOR WAT	ER YEARS	1971 - 2003,	BY WATE	ER YEAR (W	*			
MEAN MAX (WY) MIN (WY)	9.38 55.9 (2002) 1.03 (1983)	20.5 102 (1994) 0.71 (2000)	22.8 76.4 (1991) 2.14 (1981)	20.5 50.5 (1997) 1.00 (1981)	25.9 57.1 (1975) 4.67 (1978)	30.8 64.6 (1978) 5.46 (2001)	27.3 71.4 (1996) 3.92 (1971)	27.0 102 (1996) 1.87 (1988)	18.4 88.8 (1998) 0.39 (1988)	17.5 95.5 (1992) 2.55 (1991)	10.4 54.1 (1979) 1.28 (1986)	9.74 54.8 (2003) 0.17 (1999)
SUMMA	RY STATIS	STICS		FOR 2002 C	CALENDAR	YEAR	FOR 200	3 WATER Y	EAR	WATER	YEARS 197	71 - 2003
LOWEST HIGHEST LOWEST ANNUAI MAXIMU MAXIMU ANNUAI ANNUAI 10 PERCI 50 PERCI	L MEAN I ANNUAL I ANNUAL I DAILY M I DAILY M	MEAN IEAN EAN DAY MINIM FLOW STAGE (CFSM) (INCHES) EDS EDS	UM	72: ((20: 4'	2 May 0.71 Aug 0.71 Aug 1.53 0.78	30	1,12	0.93 Dec 0.98 Dec	9 5 1	ŕ	0.05 Se 0.07 Se 500 Ju	2002 2000 ov 14, 1993 ep 19, 1983 ep 22, 1999 in 25, 1978 in 25, 1978

e Estimated

03353620 LICK CREEK AT INDIANAPOLIS, IN—Continued



03353637 LITTLE BUCK CREEK NEAR INDIANAPOLIS, IN

LOCATION.--Lat 39°40'00", long 86°11'48", in $SW^1_4SW^1_4$ sec.10, T.14 N., R.3 E., Marion County, Hydrologic Unit 05120201, (MAYWOOD, IN quadrangle), on right bank, 10 ft upstream from bridge on South Belmont Street, 0.75 mi west of State Road 37, 1.5 mi south of Interstate 465, and 2.2 mi above mouth.

DRAINAGE AREA.--17.0 mi².

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

REVISED RECORDS.--WDR IN-95-1: Drainage area.

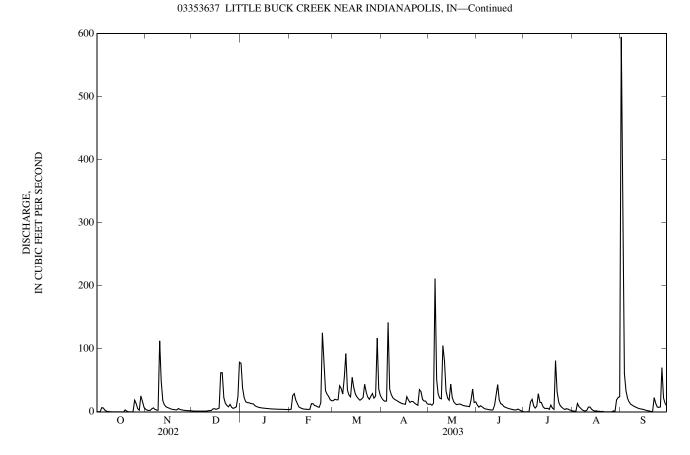
GAGE.--Water-stage recorder. Datum of gage is 666.20 above National Geodetic Vertical Datum of 1929.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

					DAII	LY MEAN V	ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.52 0.24 0.02 6.6 6.1	4.1 2.7 2.2 2.5 4.8	e1.4 e1.2 e1.2 e1.2 e1.2	77 38 23 16 15	e3.7 e4.0 25 29 19	18 20 19 19 41	22 18 17 17 142	12 12 10 13 211	7.3 9.6 8.1 6.1	0.03 0.04 0.09 0.00 15	1.4 1.1 0.91 13 8.3	595 183 61 33 22
6 7 8 9 10	2.5 1.2 0.55 0.23 0.10	6.2 3.8 2.8 2.6 113	e1.2 e1.1 e1.1 e1.2	15 13 13 12 9.5	13 7.7 e6.4 e5.1 e4.5	37 28 55 92 35	36 28 22 20 19	51 29 22 21 105	4.6 4.3 3.7 3.3 2.8	20 9.2 6.0 8.8 29	5.8 3.2 1.9 1.3 2.5	16 12 10 9.0 7.8
11 12 13 14 15	0.01 0.00 0.00 0.00 0.00	49 18 11 8.2 6.8	1.6 2.1 2.1 4.7 5.0	e8.2 e7.4 e6.7 e6.3 e6.0	e4.2 e4.0 e3.8 e3.9 e13	27 24 55 39 29	17 16 14 13 13	81 34 22 18 44	3.0 10 27 43 19	15 15 8.3 5.6 5.3	7.5 7.6 4.2 2.4 1.2	6.5 5.5 4.8 4.4 3.8
16 17 18 19 20	0.00 0.00 0.00 3.1 0.96	5.9 4.7 3.9 3.7 3.2	3.9 4.6 5.9 62 62	e5.7 e5.4 e5.2 e5.0 e4.7	e13 e10 e9.4 e7.9 e7.2	24 21 18 20 23	12 24 19 15 17	23 16 13 11 12	13 12 8.4 7.1 6.1	5.5 3.8 11 5.9 3.8	1.7 0.92 0.90 0.40 0.70	3.0 2.3 1.7 1.3 0.61
21 22 23 24 25	0.16 0.00 0.00 0.00 19	3.2 5.1 3.8 3.1 2.7	22 14 10 8.0 12	e4.6 e4.5 e4.3 e4.2 e4.1	14 125 81 33 28	44 31 23 20 25	16 14 12 10 35	12 11 10 9.6 9.2	5.2 4.6 4.0 3.4 2.9	81 31 15 9.9 7.1	0.01 0.00 0.00 0.00 0.00	0.19 22 14 7.6 7.1
26 27 28 29 30 31	13 4.9 2.7 25 16 7.2	2.3 2.0 1.9 1.8 1.8	7.2 5.4 6.5 8.0 24 79	e4.0 e3.9 e3.9 e3.8 e3.7 e3.7	24 19 18 	29 22 25 117 36 26	32 20 17 17 13	8.7 8.3 19 36 15	3.2 4.3 2.9 1.7 0.49	5.0 3.7 5.0 4.3 3.0 2.1	0.00 1.5 0.87 19 23 24	7.7 70 22 13 9.2
TOTAL MEAN MAX MIN CFSM IN.	110.09 3.55 25 0.00 0.21 0.24	286.8 9.56 113 1.8 0.56 0.63	361.9 11.7 79 1.1 0.69 0.79	336.8 10.9 77 3.7 0.64 0.74	535.8 19.1 125 3.7 1.13 1.17	1,042 33.6 117 18 1.98 2.28	687 22.9 142 10 1.35 1.50	914.8 29.5 211 8.3 1.74 2.00	242.09 8.07 43 0.49 0.47 0.53	334.46 10.8 81 0.00 0.63 0.73	135.31 4.36 24 0.00 0.26 0.30	1,155.50 38.5 595 0.19 2.27 2.53
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1990 - 2003	BY WATE	R YEAR (W	YY)			
MEAN MAX (WY) MIN (WY)	10.7 45.5 (2002) 0.058 (2000)	22.7 91.9 (1994) 0.000 (2000)	20.4 99.4 (1991) 1.02 (1998)	23.7 62.7 (1999) 1.42 (2000)	23.2 54.5 (1990) 6.39 (1998)	29.5 68.0 (1991) 5.82 (2001)	33.7 63.7 (1996) 5.39 (2001)	34.7 105 (1996) 4.60 (2001)	25.7 77.3 (1998) 4.99 (1991)	16.6 85.7 (1992) 2.67 (1991)	5.99 18.3 (1990) 0.43 (2002)	9.96 38.5 (2003) 0.000 (1999)
SUMMA	RY STATIS	STICS]	FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	YEAR	WATER	YEARS 199	90 - 2003
LOWEST HIGHES' LOWEST ANNUAI MAXIMU MAXIMU ANNUAI ANNUAI 10 PERCI 50 PERCI	. MEAN I ANNUAL I ANNUAL I DAILY M SEVEN-L JM PEAK RUNOFF ENT EXCE	MEAN MEAN MEAN DAY MINIM FLOW STAGE (CFSM) (INCHES) EEDS	UM	690 ((20 62	5.7) May 0.00 Aug 0.00 Aug 1.51 0.53 2 5.4	7	59	0.00 Oc 0.00 Oc 70 Sep 7.20 Sep 0.99 13.44 33 7.8	o 1 t 12 t 12 o 1	1,3 2,3	0.00 Se 0.00 Se 000 De 11.21 No 1.26 17.07 44 7.7	2002 2000 ec 30, 1990 ep 8, 1991 ep 8, 1991 ec 30, 1990 ev 14, 1993
	ENT EXCE				0.00			0.92			0.00	

e Estimated



[(National Water-Quality Assessment Program), White River Basin, Miami River Basin Study Unit]

WATER-QUALITY RECORDS

These data described in the following table were collected and analyzed as part of the National Water Quality Assessment Program (NAWQA) in the White River Basin, Miami River Basin (WHMI) study units. The objectives of the NAWQA program are to broadly characterize the water-quality of the Nation's streams and aquifers in relation to human and natural factors. This project is one of 42 river basin and aquifer assessment projects being implemented across the nation on a staggered timeline. During the second decade of sampling, 14 of these projects will be actively collecting data. The period of high-intensity data collection for the WHMI project is in water years 2001-2004.

Water quality data from four stream sites in Indiana and two stream sites in Ohio are being reported as part of the NAWQA study: Big Walnut Creek nr Roachdale, IN (03357330), Little Buck Creek nr Indianapolis, IN (03353637), Sugar Creek at Co. Rd. 400S at New Palestine, IN (394340085524601), White River at Hazleton, IN (03374100), Holes Creek at Huffman Park at Kettering, OH (393944084120700), Mad River at St. Paris Pike near Eagle City, OH (03267900). Additionally, continuous monitor data, water temperature, dissolved oxygen, specific conductance, and pH were collected for all sites except Sugar Creek at Co. Rd. 400S at New Palestine, IN (394340085524601), which were instead collected at Sugar Creek at New Palestine, IN (03361650).

These data can also be obtained electronically at http://in.water.usgs.gov or at http://oh.water.usgs.gov.

(---, no data: <, concentration or value reported is less than that indicated: E, estimated value: K, value is estimated from a non-ideal colony count: M, presence verified, not quantified).

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	8.0 8.0 7.9	8.1 8.1 7.8 7.9 7.7	 	7.9 8.0 8.0 7.8 7.9	8.0 8.0 8.0 7.9 7.6	 	8.0 8.1 8.1 8.0 8.3	8.0 8.0 8.1 8.1 7.7	8.1 8.1 8.0 8.1 8.1	 	8.1 8.1 8.1 8.0 8.1	7.9 7.8 7.7
6 7 8 9 10	8.0 8.1 8.2 8.3	8.1 8.2 8.2 8.3 8.0	 	7.9 8.0 8.0 8.0 8.0	7.6 7.6 7.7 7.6 7.6	 	7.9 7.9 7.9 8.1 8.1	7.7 7.7 7.7 7.7 	8.1 8.1 8.1 8.1 8.0	8.0 8.0	8.0 8.1 8.1 8.1 8.0	7.8 8.0 8.0 8.0 8.0
11 12 13 14 15	 	7.8 7.9 7.9	8.2 8.3	8.0 7.9 7.8 8.0 8.0	7.7 7.6 	 	 	 	7.9 7.8 7.8 7.8 7.9	8.0 8.0 8.0 8.1 8.0	8.0 8.1 8.1 8.1 8.0	8.1 8.1 8.1 8.0
16 17 18 19 20	 8.2	7.9 7.9 7.9 7.9 8.0	8.3 8.3 8.3 8.0	7.9 7.8 7.9 7.9 7.8	 	8.3 8.2 8.2	 	 	7.9 7.9 8.0 8.0 8.0	8.0 8.0 7.9 7.9 7.9	8.0 8.0 8.0 8.1	8.0 8.1 8.0 8.0 8.0
21 22 23 24 25	 	8.0 8.0 8.0	 	7.8 7.9 7.9 7.9 7.9	 	8.2 8.3 8.3 8.3 8.2	 	7.8 7.9 7.8 7.8	8.0 8.0 7.9 7.9 8.0	 	 	7.9 7.9 7.9
26 27 28 29 30 31	 8.1	 	 8.0	8.0 8.0 8.0 8.0 7.9 8.0	 	8.3 8.4 8.3 8.1 8.0 8.0	 	7.8 7.8 7.8 7.8 7.9 8.0	8.0 8.0 8.1 8.0	8.1 8.1	 	8.0 7.9 7.9 7.9 8.0
MED				7.9								

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	11.4						9.9	10.9			
2	8.0	e11.5						9.8	10.1			
3								11.2	9.0			
4								10.3	9.4			
5	8.0							e7.5	9.9		e7.8	
6	8.9	10.9							9.6		7.7	
7	9.3	11.4							9.9		7.1	
8	10.7	10.8							9.2		7.1	
9	10.9	9.6					e14.8		9.8	7.9	7.5	
10	e10.9	8.0					14.2		9.3	8.0	7.0	
11							e14.0		8.7	8.6	7.1	e9.1
12							e12.3		7.7	8.7	7.2	9.2
13							e13.5		8.2	9.1	7.7	9.1
14			16.7						7.6	9.4	7.3	8.9
15			17.1						7.9	9.0	7.5	9.1
16			17.3						8.2	9.5	7.5	9.5
17			16.6			e11.0	e11.2		8.1	9.6	7.6	9.4
18			15.8			11.2			8.3	9.2	8.4	9.5
19	e9.7		e13.0			11.1			8.4	9.5	8.4	9.5
20	10.4		14.8			10.8			8.9	9.9	e8.2	9.8
21						10.1			9.1			e10.3
22						11.3	e13.0	11.0	9.1			e8.3
23						11.3		11.2	8.9			9.1
24						10.8		11.3	8.8			9.7
25						10.1	e11.8	11.2	8.6			9.7
26						7.6	e11.3	11.6	8.0			10.4
27						10.6	e11.3	11.5	8.9			9.5
28						9.8	e10.8	11.0	8.9			10.3
29								9.6	8.5			10.9
30							e10.0	10.0	e7.0			11.3
31	10.9							9.6				

e Estimated

TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	20.6 21.8 18.1	7.6 5.8 6.2 7.7 7.9	0.0 0.0 0.0 0.0 0.0	5.2 3.7 2.9 2.2 3.4	0.0 0.1 1.1 1.3 0.0	e3.0	12.2 14.7 16.3 16.4 12.3	18.6 16.8 15.7 13.5 15.2	15.3 15.0 14.2 14.5 16.1	 	23.8 24.1 23.7 22.5 22.7	e21.0 21.4 20.7 19.2
6 7 8 9 10	16.2 14.4 12.9 13.5 e14.0	7.6 6.9 8.6 10.7 13.1	0.0 0.0 0.0 e0.0 0.0	3.7 2.7 4.1 4.9 3.3	0.7 0.8 0.0 0.5 1.1	 	8.8 8.7 9.0 7.9 9.5	17.5 17.7 16.8 18.2 e18.7	16.2 18.4 17.8 18.8 18.7	e24.0 23.5 23.0	22.8 23.4 23.0 22.6 21.1	19.0 19.1 19.7 20.4 20.9
11 12 13 14 15	 	8.6 9.6 9.2	0.0 0.0 1.0 2.8 3.3	0.1 0.0 0.0 0.1 0.0	0.1 0.0 0.0 0.0 0.0	 	e11.0 e12.0 e13.0 e13.0 e15.0	 	19.9 20.2 20.7 20.6 20.7	22.3 22.0 22.2 22.8 21.3	21.7 21.8 22.4 24.3 25.8	20.9 20.2 21.1 21.0 19.9
16 17 18 19 20	e12.2 10.0	6.6 5.8 5.0 7.6 7.8	3.6 3.2 6.2 e8.1 6.1	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	e13.0 12.8 12.4 13.1	e15.0 e15.0	 	20.7 21.4 21.8 21.1 20.2	22.7 23.3 23.4 23.8 23.1	25.7 25.0 23.3 23.4 e24.0	18.7 18.9 18.8 18.1 16.3
21 22 23 24 25	 	7.5 5.8 5.0	 	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 e0.0	12.0 10.5 11.6 13.0 12.8	e13.0 e12.0 e10.0 e11.6	e15.0 14.6 14.7 15.0 14.6	20.2 20.8 21.9 23.0 24.0	e23.0	 	e16.0 e18.7 17.4 17.1 16.8
26 27 28 29 30 31	 e9.2 9.1	 	 e6.5 6.8	0.0 0.0 0.0 0.0 0.0 0.0	e0.0 0.0 e0.0 	12.1 12.4 13.2 9.7 7.9 8.8	e13.5 e13.5 e15.0 e17.0 e18.0	14.9 15.5 15.2 16.5 16.2 16.4	23.1 21.6 21.6 23.4 e23.5	e22.5 22.4 23.1	 	14.7 16.9 14.9 13.3 12.3

e Estimated

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	661	637		524	1,270		860	804	721		826	
2	683	677		638	1,500		893	790	793		846	
3		717		754	1,230		912	809	760		861	
4		737		758	790		922	792	785		556	
5	471	709		1,070	742		587	423	844		597	
6	574	596		940	775		727	583	868		637	
7	607	674		814	973		799	644	878		680	
8	656	717		779	896		849	693	894		732	
9	702	747		762	841		862	720	899	654	781	
10	e723	409		764	890		881	e575	902	483	819	
11				792	1,150		e881		908	593	657	e837
12				808	1,380		e870		725	535	575	838
13		619		808			e860		644	684	611	838
14		668	1,600	821					530	745	684	838
15		707	1,230	861					654	792	721	838
16		724	1,060	862					725	784	761	838
17		743	907	1,250		e835	e725		781	820	786	842
18		770	892	1,100		848			827	612	793	846
19	e680	792	e550	962		874			854	680	783	840
20	674	808	511	838		857			878	786	e810	836
21		821		844		746		e915	896			e836
22		804		871		764	e868	923	909			e450
23		777		901		816		914	914			523
24				940		841		910	919			586
25				954		806	e750	910	920			591
26				916		773	e675	852	924			599
27				1,130		837	e760	792	879			317
28				921		836	e780	705	890			356
29				1,050		606		596	889			397
30	e500		e890	1,340		757	e783	770	e897	792		440
31	574		604	1,160		818		697		808		
				,								

e Estimated

03353637 LITTLE BUCK CREEK NR INDIANAPOLIS, IN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Alkalinity, wat flt fxd end field, mg/L as CaCO3 (39036)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)
OCT													
08	1130	0.49	753	10.1	8.5	662	18.0	13.0	200	203	E246	E1	57.6
NOV 06	1230	6.1	750	11.2	8.1	632	6.0	7.5	210	215	260	1	53.8
27	1330	1.8	764	16.2	8.1	870	3.0	3.5					
DEC	1000	2.0	7/7	15.2	0.2	1.000	1.0	0.0	200	202	F267	Г1	107
09 JAN	1230	3.9	767	15.3	8.3	1,000	1.0	0.0	300	303	E367	E1	107
15	1110	11	766	13.9	8.2	1,020	-2.0	0.0	260	264	317	E2	105
FEB 13	1130	13	759	15.1	8.2	1,320	8.0	0.0	290	286	E346	E1	214
MAR	1130	13	139	13.1	0.2	1,320	8.0	0.0	290	200	E340	EI	214
17	1040	17	737	12.9	8.2	865	26.0	11.0	260	261	314	2	79.9
APR 09	1150	21	757	13.2	8.2	889	8.0	8.0	280	279	339	<1	101
22	1210	14	749	10.2	8.1	887	7.0	12.0					
MAY	1120	227	725	10.0		421	240	14.5	120	126	150	4	40.0
05 20	1120 1040	337 15	725 744	10.0 8.9	7.7 7.8	421 890	24.0 19.0	14.5 16.5	130	126	152	<1 	40.0
JUN	1040	13	7-1-1	0.7			17.0						
02	1330	9.6	744	9.4	8.3	790	19.0	16.0	250	249	304	<1	83.3
25 JUL	1110	3.1	743	11.6	8.1	913	32.0	24.5					
08	1040	6.4	739	8.7	8.2	692	32.0	26.5	200	192	E234	<1	77.4
21 AUG	1210	158	728	6.7	7.8	251	36.0	22.0					
05	1300	8.1	735	9.4	8.2	600	27.0	23.5	170	168	204	<1	66.5
SEP													
02	1130	144	741	7.6	7.8	427	22.0	21.5	130	133	162	<1	35.6

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

					 ,			DI 2002 I	J DEI 12	2000			
Date	Sulfate water, fltrd, mg/L (00945)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Particulate nitrogen, susp, water, mg/L (49570)	Phosphorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	1,4- Naphth- oquin- one, water, fltrd, ug/L (61611)
OCT													
08	39.3	0.29	< 0.04	0.21	0.035	< 0.02	0.03	0.029	0.2	< 0.1	0.2	3.9	< 0.05
NOV													
06	41.4	0.35	< 0.04	0.33	0.016	< 0.02	0.03	0.031	0.2	< 0.1	0.2	5.3	M
27		0.19	< 0.04	0.34	E0.006	< 0.02		0.019					< 0.05
DEC	57.6	0.00	-0.04	0.20	0.000	-0.00	.0.00	0.016	0.2	.0.1	0.2	4.4	.0.05
09	57.6	0.22	< 0.04	0.39	0.008	< 0.02	< 0.02	0.016	0.2	< 0.1	0.2	4.4	< 0.05
JAN 15	56.7	0.24	< 0.04	0.94	0.016	< 0.02	0.06	0.015	0.2	< 0.1	0.2	3.4	< 0.05
FEB	30.7	0.24	<0.04	0.54	0.010	<0.02	0.00	0.013	0.2	<0.1	0.2	3.4	<0.03
13	57.5	< 0.50	< 0.04	0.87	0.012	< 0.09	< 0.02	0.017	0.3	< 0.1	0.3	3.0	< 0.05
MAR													
17	36.5	0.29	< 0.04	0.91	0.009	< 0.02	0.05	0.026	0.5	< 0.1	0.5	4.4	< 0.05
APR													
09	46.5	0.29	< 0.04	1.30	E0.007	< 0.02	0.07	0.067	1.9	< 0.1	1.9	3.0	< 0.05
22		0.32	< 0.04	0.86	0.009	< 0.02		0.017					< 0.05
MAY	10.7	2.5	< 0.04	0.71	0.030	< 0.02	0.07	0.46	0.6	0.2	0.2	(0	< 0.05
05 20	19.7	0.37	<0.04	0.71 0.98	0.030	<0.02	0.97	0.46	9.6 	0.3	9.3	6.8	<0.05
JUN		0.57	<0.04	0.96	0.027	<0.02		0.033					<0.03
02	38.9	0.35	< 0.04	0.47	0.029	< 0.02	0.07	0.032	0.6	< 0.1	0.5	3.2	< 0.05
25		0.30	< 0.04	0.33	0.032	< 0.02		0.028					< 0.05
JUL													
08	35.2	0.43	< 0.04	0.37	0.009	E0.01	0.05	0.047	0.4	< 0.1	0.4	4.7	
21		2.0	< 0.04	0.57	0.025	< 0.02		0.53					< 0.05
AUG													
05	31.0	0.42	< 0.04	0.30	0.013	E0.01	0.10	0.049	0.5	< 0.1	0.5	4.5	< 0.05
SEP	22.0	1.0	-0.04	0.50	0.047	0.02	0.60	0.22	5.0	0.2	<i>5</i> 1	<i>(</i> 1	.0.05
02	23.9	1.0	< 0.04	0.58	0.047	0.02	0.62	0.22	5.2	0.2	5.1	6.1	< 0.05

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	1-Naph- thol, water, fltrd 0.7u GF ug/L (49295)	2-(4-t- Butyl- phenoxy)cyclo- hexanol wat flt ug/L (61637)	2,5-Di- chloro- aniline water, fltrd, ug/L (61614)	2,6-Diethylaniline water fltrd 0.7u GF ug/L (82660)	2-[(2- Et-6-Me -Ph)- -amino] propan- 1-ol, ug/L (61615)	2Amino- N-iso- propyl- benz- amide, wat flt ug/L (61617)	2Chloro -2,6'-' diethyl acet- anilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)	2-Ethyl -6- methyl- aniline water, fltrd, ug/L (61620)	3-(Tri- fluoro- methyl) aniline water, fltrd, ug/L (61630)	3,4-Di- chloro- aniline water fltrd, ug/L (61625)	3,5-Di- chloro- aniline water, fltrd, ug/L (61627)	3-Phen- oxy- benzyl alcohol water, fltrd, ug/L (61629)
OCT 08	< 0.09	< 0.01	< 0.03	< 0.006	<0.1	< 0.005	< 0.005	E0.017	< 0.004	< 0.01	< 0.004	< 0.005	< 0.05
NOV 06 27	<0.09 <0.09	<0.01 <0.01	<0.03 <0.03	<0.006 <0.006	<0.1 <0.1	<0.005 <0.005	<0.005 <0.005	E0.011 E0.008	<0.004 <0.004	<0.01 <0.01	<0.004 <0.004	<0.005 <0.005	<0.05 <0.05
DEC 09	< 0.09	< 0.01	< 0.03	< 0.006	< 0.1	< 0.005	< 0.005	E0.006	< 0.004	< 0.01	< 0.004	< 0.005	< 0.05
JAN 15	< 0.09	< 0.01	< 0.03	< 0.006	< 0.1	< 0.005	< 0.005	E0.006	< 0.004	< 0.01	< 0.004	< 0.005	< 0.05
FEB 13 MAR	< 0.09	< 0.01	< 0.03	< 0.006	< 0.1	< 0.005	< 0.005	E0.008	< 0.004	< 0.01	< 0.004	< 0.005	< 0.05
17 APR	< 0.09	< 0.01	< 0.03	< 0.006	< 0.1	< 0.005	< 0.005	E0.006	< 0.004	< 0.01	< 0.004	< 0.005	< 0.05
09 22 MAY	<0.09 <0.09	<0.01 <0.01	<0.03 <0.03	<0.006 <0.006	<0.1 <0.1	<0.005 <0.005	<0.005 <0.005	E0.007 E0.010	<0.004 <0.004	<0.01 <0.01	<0.004 <0.004	<0.005 <0.005	<0.05
05 20 JUN	E0.03 <0.09	<0.01 <0.01	<0.03 <0.03	<0.006 <0.006	<0.1 <0.1	<0.005 <0.005	<0.005 <0.005	E0.023 E0.010	<0.004 <0.004	<0.01 <0.01	<0.004 <0.004	<0.005 <0.005	<0.05 <0.05
02 25 JUL	<0.09 <0.09	<0.01 <0.01	<0.03 <0.03	<0.006 <0.006	<0.1 <0.1	<0.005 <0.005	<0.005 <0.005	E0.067 E0.021	<0.004 <0.004	<0.01 <0.01	<0.004 <0.004	<0.005 <0.005	<0.05 <0.05
08 21 AUG	<0.09 E0.01	<0.01 <0.01	<0.03 <0.03	<0.006 <0.006	<0.1 <0.1	<0.005 <0.005	<0.005 <0.005	E0.043 E0.013	<0.004 <0.004	<0.01 <0.01	<0.004 <0.004	<0.005 <0.005	<0.05
05 SEP	< 0.09	< 0.01	< 0.03	< 0.006	< 0.1	< 0.005	< 0.005	E0.016	< 0.004	< 0.01	< 0.004	< 0.005	
02	< 0.09	< 0.01	< 0.03	< 0.006	< 0.1	< 0.005	< 0.005	E0.012	< 0.004	< 0.01	< 0.004	< 0.005	
Date	4- (MeOH)- pendi- meth- alin, wat flt ug/L (61665)	4,4-Di' chloro- benzo- phen- one, wat flt ug/L (61631)	WATER-0 4Chloro 2methyl phenol, water, fltrd, ug/L (61633)	4Chloro phenyl- methyl sulfone water, fltrd, ug/L (61634)	Aceto- chlor, water, fltrd, ug/L (49260)	Ala- chlor, water, fltrd, ug/L (46342)	alpha- Endo- sulfan, water, fltrd, ug/L (34362)	alpha- HCH, water, fltrd, ug/L (34253)	Aminomethyl-phos-phonic acid, wat flt ug/L (62649)	Atra- zine, water, fltrd, ug/L (39632)	Azin-phos-methyl oxon, water, fltrd, ug/L (61635)	Azin-phos-methyl, water, fltrd 0.7u GF ug/L (82686)	Ben- flur- alin, water, fltrd 0.7u GF ug/L (82673)
OCT 08	(MeOH)- pendi- meth- alin, wat flt ug/L	chloro- benzo- phen- one, wat flt ug/L	4Chloro 2methyl phenol, water, fltrd, ug/L	4Chloro phenyl- methyl sulfone water, fltrd, ug/L	Aceto- chlor, water, fltrd, ug/L	Ala- chlor, water, fltrd, ug/L	alpha- Endo- sulfan, water, fltrd, ug/L	alpha- HCH, water, fltrd, ug/L	Amino- methyl- phos- phonic acid, wat flt ug/L	Atra- zine, water, fltrd, ug/L	phos- methyl oxon, water, fltrd, ug/L	phos- methyl, water, fltrd 0.7u GF ug/L	flur- alin, water, fltrd 0.7u GF ug/L
OCT 08 NOV 06 27	(MeOH)- pendi- meth- alin, wat flt ug/L (61665)	chloro- benzo- phen- one, wat flt ug/L (61631)	4Chloro 2methyl phenol, water, fltrd, ug/L (61633)	4Chloro phenyl- methyl sulfone water, fltrd, ug/L (61634)	Aceto- chlor, water, fltrd, ug/L (49260)	Ala- chlor, water, fltrd, ug/L (46342)	alpha- Endo- sulfan, water, fltrd, ug/L (34362)	alpha- HCH, water, fltrd, ug/L (34253)	Aminomethyl-phos-phonic acid, wat flt ug/L (62649)	Atrazine, water, fltrd, ug/L (39632)	phos- methyl oxon, water, fltrd, ug/L (61635)	phos- methyl, water, fltrd 0.7u GF ug/L (82686)	flur- alin, water, fltrd 0.7u GF ug/L (82673)
OCT 08 NOV 06 27 DEC 09	(MeOH)- pendi- meth- alin, wat flt ug/L (61665) <0.1	chloro- benzo- phen- one, wat flt ug/L (61631) <0.003	4Chloro 2methyl phenol, water, fltrd, ug/L (61633) <0.006	4Chloro phenyl-methyl sulfone water, fltrd, ug/L (61634) <0.03	Aceto- chlor, water, fltrd, ug/L (49260) <0.006	Ala- chlor, water, fltrd, ug/L (46342) <0.004	alpha- Endo- sulfan, water, fltrd, ug/L (34362) <0.005	alpha- HCH, water, fltrd, ug/L (34253) <0.005	Aminomethyl-phosphonic acid, wat flt ug/L (62649) 0.3	Atrazine, water, fltrd, ug/L (39632) 0.121 0.041	phosmethyl oxon, water, fltrd, ug/L (61635)	phos- methyl, water, fltrd 0.7u GF ug/L (82686) <0.050	fluralin, water, fltrd 0.7u GF ug/L (82673) <0.010
OCT 08 NOV 06 27 DEC 09 JAN 15	(MeOH)-pendi- meth- alin, wat flt ug/L (61665)	chloro- benzo- phen- one, wat flt ug/L (61631) <0.003 <0.003	4Chloro 2methyl phenol, water, fltrd, ug/L (61633) <0.006 <0.006	4Chloro phenyl-methyl sulfone water, fltrd, ug/L (61634) <0.03 <0.03	Aceto- chlor, water, fltrd, ug/L (49260) <0.006 <0.006	Ala- chlor, water, fltrd, ug/L (46342) <0.004 <0.004	alpha- Endo- sulfan, water, fltrd, ug/L (34362) <0.005 <0.005	alpha- HCH, water, fltrd, ug/L (34253) <0.005 <0.005	Aminomethyl-phosphonic acid, wat flt ug/L (62649) 0.3 <0.1 <0.1	Atrazine, water, fltrd, ug/L (39632) 0.121 0.041 0.025	phosmethyl oxon, water, fltrd, ug/L (61635) <0.02 <0.02	phosmethyl, water, fltrd 0.7u GF ug/L (82686) <0.050 <0.050	fluralin, water, flird 0.7u GF ug/L (82673) <0.010 <0.010
OCT 08 NOV 06 27 DEC 09 JAN 15 FEB 13	(MeOH)- pendi- meth- alin, wat flt ug/L (61665) <0.1 <0.1	chloro- benzo- phen- one, wat flt ug/L (61631) <0.003 <0.003 <0.003	4Chloro 2methyl phenol, water, fltrd, ug/L (61633) <0.006 <0.006 <0.006	4Chloro phenyl-methyl sulfone water, fltrd, ug/L (61634) <0.03 <0.03 <0.03	Aceto- chlor, water, fltrd, ug/L (49260) <0.006 <0.006 <0.006	Ala- chlor, water, fltrd, ug/L (46342) <0.004 <0.004 <0.004	alpha- Endo- sulfan, water, fltrd, ug/L (34362) <0.005 <0.005 <0.005	alpha- HCH, water, fltrd, ug/L (34253) <0.005 <0.005 <0.005	Aminomethyl-phosphonic acid, wat fit ug/L (62649) 0.3 <0.1 <0.1	Atrazine, water, fltrd, ug/L (39632) 0.121 0.041 0.025 0.019	phosmethyl oxon, water, fltrd, ug/L (61635) <0.02 <0.02 <0.02 <0.02	phosmethyl, water, fltrd 0.7u GF ug/L (82686) <0.050 <0.050 <0.050	fluralin, water, fltrd 0.7u GF ug/L (82673) <0.010 <0.010 <0.010
OCT 08 NOV 06 27 DEC 09 JAN 15 FEB 13 MAR 17	(MeOH)- pendi- meth- alin, wat flt ug/L (61665) <0.1 <0.1 <0.1	chloro- benzo- phen- one, wat flt ug/L (61631) <0.003 <0.003 <0.003 <0.003	4Chloro 2methyl phenol, water, fltrd, ug/L (61633) <0.006 <0.006 <0.006 <0.006	4Chloro phenylmethyl sulfone water, fltrd, ug/L (61634) <0.03 <0.03 <0.03 <0.03	Aceto-chlor, water, fltrd, ug/L (49260) <0.006 <0.006 <0.006 <0.006 <0.006	Ala- chlor, water, fltrd, ug/L (46342) <0.004 <0.004 <0.004 <0.004	alpha- Endo- sulfan, water, fltrd, ug/L (34362) <0.005 <0.005 <0.005 <0.005	alpha-HCH, water, fltrd, ug/L (34253) <0.005 <0.005 <0.005 <0.005	Aminomethyl-phosphonic acid, wat flt ug/L (62649) 0.3 <0.1 <0.1 <0.1	Atrazine, water, fltrd, ug/L (39632) 0.121 0.041 0.025 0.019	phosmethyl oxon, water, fltrd, ug/L (61635) <0.02 <0.02 <0.02 <0.02 <0.02	phosmethyl, water, fltrd 0.7u GF ug/L (82686) <0.050 <0.050 <0.050 <0.050 <0.050	fluralin, water, fltrd 0.7u GF ug/L (82673) <0.010 <0.010 <0.010 <0.010
OCT 08 NOV 06 27 DEC 09 JAN 15 FEB 13 MAR 17 APR 09 22	(MeOH)- pendi- meth- alin, wat flt ug/L (61665) <0.1 <0.1 <0.1 <0.1	chloro- benzo- phen- one, wat flt ug/L (61631) <0.003 <0.003 <0.003 <0.003	4Chloro 2methyl phenol, water, fltrd, ug/L (61633) <0.006 <0.006 <0.006 <0.006 <0.006	4Chloro phenyl-methyl sulfone water, fltrd, ug/L (61634) <0.03 <0.03 <0.03 <0.03 <0.03	Aceto-chlor, water, fltrd, ug/L (49260) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006	Ala- chlor, water, fltrd, ug/L (46342) <0.004 <0.004 <0.004 <0.004 <0.004	alpha- Endo- sulfan, water, fltrd, ug/L (34362) <0.005 <0.005 <0.005 <0.005	alpha-HCH, water, fltrd, ug/L (34253) <0.005 <0.005 <0.005 <0.005 <0.005	Aminomethyl-phosphonic acid, wat flt ug/L (62649) 0.3 <0.1 <0.1 <0.1 <0.1	Atrazine, water, fltrd, ug/L (39632) 0.121 0.041 0.025 0.019 0.018	phosmethyl oxon, water, fltrd, ug/L (61635) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	phosmethyl, water, fltrd 0.7u GF ug/L (82686) <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	fluralin, water, fltrd 0.7u GF ug/L (82673) <0.010 <0.010 <0.010 <0.010 <0.010
OCT 08 NOV 06 27 DEC 09 JAN 15 FEB 13 MAR 17 APR 09 22 MAY 05 20	(MeOH)- pendi- meth- alin, wat flt ug/L (61665) <0.1 <0.1 <0.1 <0.1	chloro- benzo- phen- one, wat flt ug/L (61631) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	4Chloro 2methyl phenol, water, fltrd, ug/L (61633) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006	4Chloro phenyl-methyl sulfone water, fltrd, ug/L (61634) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	Aceto-chlor, water, fltrd, ug/L (49260) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 E0.005	Ala-chlor, water, fltrd, ug/L (46342) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	alpha- Endo- sulfan, water, fltrd, ug/L (34362) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	alpha-HCH, water, fltrd, ug/L (34253) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Aminomethyl-phosphonic acid, wat flt ug/L (62649) 0.3 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	Atrazine, water, fltrd, ug/L (39632) 0.121 0.041 0.025 0.019 0.018 0.017 0.011	phosmethyl oxon, water, fltrd, ug/L (61635) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	phosmethyl, water, fltrd 0.7u GF ug/L (82686) <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	fluralin, water, fltrd 0.7u GF ug/L (82673) <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010
OCT 08 NOV 06 27 DEC 09 JAN 15 FEB 13 MAR 17 APR 09 22 MAY 05 20 JUN 02	(MeOH)- pendi- meth- alin, wat flt ug/L (61665) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	chloro- benzo- phen- one, wat flt ug/L (61631) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	4Chloro 2methyl phenol, water, fltrd, ug/L (61633) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 E0.005 E0.023	4Chloro phenyl-methyl sulfone water, fltrd, ug/L (61634) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.	Aceto-chlor, water, fltrd, ug/L (49260) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 0.006 0.006 0.006 0.006 0.006	Ala- chlor, water, fltrd, ug/L (46342) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	alpha- Endo- sulfan, water, fltrd, ug/L (34362) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	alpha-HCH, water, fltrd, ug/L (34253) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Aminomethyl-phosphonic acid, wat fit ug/L (62649) 0.3 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	Atrazine, water, fltrd, ug/L (39632) 0.121 0.041 0.025 0.019 0.018 0.017 0.011 0.018 0.038	phosmethyl oxon, water, fltrd, ug/L (61635) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	phosmethyl, water, fltrd 0.7u GF ug/L (82686) <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	fluralin, water, fltrd 0.7u GF ug/L (82673) <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010
OCT 08 NOV 06 27 DEC 09 JAN 15 FEB 13 MAR 17 APR 09 22 MAY 05 20 JUN 02 25 JUL 08 21	(MeOH)- pendi- meth- alin, wat flt ug/L (61665) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <	chlorobenzo- phen- one, wat flt ug/L (61631) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	4Chloro 2methyl phenol, water, fltrd, ug/L (61633) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 E0.005 E0.023 <0.006 E0.004	4Chloro phenyl-methyl sulfone water, fltrd, ug/L (61634) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.	Aceto-chlor, water, fltrd, ug/L (49260) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 10.005	Ala- chlor, water, fltrd, ug/L (46342) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 0.004 <0.004 <0.005	alpha- Endo- sulfan, water, fltrd, ug/L (34362) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	alpha-HCH, water, fltrd, ug/L (34253) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Aminomethyl-phosphonic acid, wat flt ug/L (62649) 0.3 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	Atrazine, water, fltrd, ug/L (39632) 0.121 0.041 0.025 0.019 0.018 0.017 0.011 0.018 0.038 0.092 0.036 0.542	phosmethyl oxon, water, fltrd, ug/L (61635) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.03 <0.02 <0.03 <0.03	phosmethyl, water, fltrd 0.7u GF ug/L (82686) <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	fluralin, water, fltrd 0.7u GF ug/L (82673) <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010
OCT 08 NOV 06 27 DEC 09 JAN 15 FEB 13 MAR 17 APR 09 22 MAY 05 20	(MeOH)- pendi- meth- alin, wat flt ug/L (61665) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	chloro- benzo- phen- one, wat flt ug/L (61631) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	4Chloro 2methyl phenol, water, fltrd, ug/L (61633) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 E0.005 E0.023	4Chloro phenyl-methyl sulfone water, fltrd, ug/L (61634) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.	Aceto-chlor, water, fltrd, ug/L (49260) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 0.006 0.006 0.006 0.006 0.006	Ala- chlor, water, fltrd, ug/L (46342) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	alpha- Endo- sulfan, water, fltrd, ug/L (34362) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	alpha-HCH, water, fltrd, ug/L (34253) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Aminomethyl-phosphonic acid, wat fit ug/L (62649) 0.3 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	Atrazine, water, fltrd, ug/L (39632) 0.121 0.041 0.025 0.019 0.018 0.017 0.011 0.018 0.038	phosmethyl oxon, water, fltrd, ug/L (61635) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	phosmethyl, water, fltrd 0.7u GF ug/L (82686) <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	fluralin, water, fltrd 0.7u GF ug/L (82673) <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010
OCT 08 NOV 06 27 DEC 09 JAN 15 FEB 13 MAR 17 APR 09 22 MAY 05 20 JUN 02 JUN 02 JUL 08	(MeOH)- pendi- meth- alin, wat flt ug/L (61665) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	chloro-benzo-phenzo-phenzo-one, wat flt ug/L (61631) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	4Chloro 2methyl phenol, water, fltrd, ug/L (61633) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 E0.005 E0.023 <0.006 E0.004 <0.006 <0.006 <0.006	4Chloro phenyl-methyl sulfone water, fltrd, ug/L (61634) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	Aceto-chlor, water, fltrd, ug/L (49260) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 0.006 0.006 0.006 0.008 0.018	Ala- chlor, water, fltrd, ug/L (46342) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	alpha- Endo- sulfan, water, fltrd, ug/L (34362) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.	alpha-HCH, water, fltrd, ug/L (34253) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Aminomethyl-phosphonic acid, wat flt ug/L (62649) 0.3 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	Atrazine, water, fltrd, ug/L (39632) 0.121 0.041 0.025 0.019 0.018 0.017 0.011 0.018 0.038 0.092 0.036 0.542 0.119 0.348	phosmethyl oxon, water, fltrd, ug/L (61635) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.03	phosmethyl, water, fltrd 0.7u GF ug/L (82686) <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	fluralin, water, fltrd 0.7u GF ug/L (82673) <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010

03353637 LITTLE BUCK CREEK NR INDIANAPOLIS, IN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

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Date	beta- Endo- sulfan, water, fltrd, ug/L (34357)	Bifenthrin, water, fltrd, ug/L (61580)	Butylate, water, fltrd, ug/L (04028)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Carbo- furan, water, fltrd 0.7u GF ug/L (82674)	Chlor- pyrifos oxon, water, fltrd, ug/L (61636)	Chlor- pyrifos water, fltrd, ug/L (38933)	cis- Per- methrin water fltrd 0.7u GF ug/L (82687)	cis- Propi- cona- zole, water, fltrd, ug/L (79846)	Cyana- zine, water, fltrd, ug/L (04041)	Cyclo- ate, water, fltrd, ug/L (04031)	Cyflu- thrin, water, fltrd, ug/L (61585)	Cyhalo- thrin, water, fltrd, ug/L (61595)
OCT 08	< 0.01	< 0.005	< 0.002	< 0.041	< 0.020	< 0.06	< 0.005	< 0.006	< 0.008	< 0.018	< 0.005	< 0.008	< 0.009
NOV 06 27	<0.01 <0.01	<0.005 <0.005	<0.002 <0.002	E0.005 <0.041	<0.020 <0.020	<0.06 <0.06	<0.005 <0.005	<0.006 <0.006	<0.008 <0.008	<0.018 <0.018	<0.005 <0.005	<0.008 <0.008	<0.009 <0.009
DEC 09	< 0.01	< 0.005	< 0.002	< 0.041	< 0.020	< 0.06	< 0.005	< 0.006	< 0.008	< 0.018	< 0.005	< 0.008	< 0.009
JAN 15	< 0.01	< 0.005	< 0.002	< 0.041	< 0.020	< 0.06	< 0.005	< 0.006	< 0.008	< 0.018	< 0.005	< 0.008	< 0.009
FEB 13	< 0.01	< 0.005	< 0.002	< 0.041	< 0.020	< 0.06	< 0.005	< 0.006	< 0.008	< 0.018	< 0.005	< 0.008	< 0.009
MAR 17	< 0.01	< 0.005	< 0.002	< 0.041	< 0.020	< 0.06	< 0.005	< 0.006	< 0.008	< 0.018	< 0.005	< 0.008	< 0.009
APR 09 22	<0.01 <0.01	<0.005 <0.005	<0.002 <0.002	E0.011 E0.011	<0.020 <0.020	<0.06 <0.06	<0.005 <0.005	<0.006 <0.006	<0.008 <0.008	<0.018 <0.018	<0.005 <0.005	<0.008 <0.008	<0.009 <0.009
MAY 05 20	<0.01 <0.01	<0.005 <0.005	<0.002 <0.002	E0.298 E0.009	<0.020 <0.020	<0.06 <0.06	<0.005 <0.005	<0.006 <0.006	<0.008 <0.008	<0.018 <0.018	<0.005 <0.005	<0.008 <0.008	<0.009 <0.009
JUN 02 25	<0.01 <0.01	<0.005 <0.005	<0.002 <0.002	E0.015 <0.041	<0.020 <0.020	<0.06 <0.02	<0.005 <0.005	<0.006 <0.006	<0.008 <0.008	<0.018 <0.018	<0.005 <0.005	<0.008 <0.016	<0.009 <0.009
JUL 08 21	<0.01 <0.01	<0.005 <0.005	<0.002 <0.002	E0.004 E0.388	<0.020 <0.020	<0.06 <0.06	<0.005 <0.005	<0.006 <0.006	<0.008 0.019	<0.018 <0.018	<0.005 <0.005	<0.008 <0.008	<0.009 <0.009
AUG 05 SEP	< 0.01	< 0.005	< 0.002	E0.017	< 0.020	< 0.06	< 0.005	< 0.006	< 0.008	< 0.018	< 0.005	< 0.008	< 0.009
02	< 0.01	< 0.005	< 0.002	E0.052	< 0.020	< 0.06	< 0.005	< 0.006	< 0.008	< 0.018	< 0.005	< 0.008	< 0.009
	Cyper-	DCPA,	Desulf- inyl fipro-	Diazi-	Dicro-	Diel-	Dimethoate,	Disulf- oton	Disulf- oton sulf-	Disul- foton,	e-Di- metho-	Endo- sulfan	Endo- sulfan
Date	Cyper- methrin water, fltrd, ug/L (61586)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulf- inyl				Dimeth-	Disulf-	Disulf- oton	Disul-			
OCT 08	methrin water, fltrd, ug/L	water fltrd 0.7u GF ug/L	Desulf- inyl fipro- nil, water, fltrd, ug/L	Diazi- non, water, fltrd, ug/L	Dicro- tophos, water fltrd, ug/L	Diel- drin, water, fltrd, ug/L	Dimethoate, water, fltrd 0.7u GF ug/L	Disulf- oton sulfone water, fltrd, ug/L	Disulf- oton sulf- oxide, water, fltrd, ug/L	Disul- foton, water, fltrd 0.7u GF ug/L	metho- morph, water, fltrd, ug/L	sulfan ether, water, fltrd, ug/L	sulfan sulfate water, fltrd, ug/L
OCT 08 NOV 06 27	methrin water, fltrd, ug/L (61586)	water fltrd 0.7u GF ug/L (82682)	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170)	Diazi- non, water, fltrd, ug/L (39572)	Dicrotophos, water fltrd, ug/L (38454)	Dieldrin, water, fltrd, ug/L (39381)	Dimethoate, water, fltrd 0.7u GF ug/L (82662)	Disulf- oton sulfone water, fltrd, ug/L (61640)	Disulf- oton sulf- oxide, water, fltrd, ug/L (61641)	Disul- foton, water, fltrd 0.7u GF ug/L (82677)	metho- morph, water, fltrd, ug/L (79844)	sulfan ether, water, fltrd, ug/L (61642)	sulfan sulfate water, fltrd, ug/L (61590)
OCT 08 NOV 06 27 DEC 09	methrin water, fltrd, ug/L (61586) <0.009	water fltrd 0.7u GF ug/L (82682) <0.003	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170) <0.004	Diazinon, water, fltrd, ug/L (39572) 0.035 0.101	Dicrotophos, water fltrd, ug/L (38454) <0.08	Diel- drin, water, fltrd, ug/L (39381) <0.005	Dimethoate, water, fltrd 0.7u GF ug/L (82662) <0.006	Disulf- oton sulfone water, fltrd, ug/L (61640) <0.02	Disulf- oton sulf- oxide, water, fltrd, ug/L (61641) <0.002	Disulfoton, water, fltrd 0.7u GF ug/L (82677) <0.02	metho- morph, water, fltrd, ug/L (79844) <0.02	sulfan ether, water, fltrd, ug/L (61642) <0.004	sulfan sulfate water, fltrd, ug/L (61590) <0.006
OCT 08 NOV 06 27 DEC 09 JAN 15	methrin water, fltrd, ug/L (61586) <0.009 <0.009	water fltrd 0.7u GF ug/L (82682) <0.003 <0.003	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170) <0.004 <0.004	Diazi- non, water, fltrd, ug/L (39572) 0.035 0.101 E0.025	Dicrotophos, water fltrd, ug/L (38454) <0.08 <0.08	Diel-drin, water, fltrd, ug/L (39381) <0.005 <0.005	Dimethoate, water, flbrd 0.7u GF ug/L (82662) <0.006 <0.006	Disulf- oton sulfone water, fltrd, ug/L (61640) <0.02 <0.02	Disulf- oton sulf- oxide, water, fltrd, ug/L (61641) <0.002 <0.002	Disulfoton, water, fltrd 0.7u GF ug/L (82677) <0.02 <0.02	metho- morph, water, fltrd, ug/L (79844) <0.02 <0.02	sulfan ether, water, fltrd, ug/L (61642) <0.004 <0.004	sulfan sulfate water, fltrd, ug/L (61590) <0.006 <0.006
OCT 08 NOV 06 27 DEC 09 JAN 15 FEB 13	methrin water, fltrd, ug/L (61586) <0.009 <0.009 <0.009	water fltrd 0.7u GF ug/L (82682) <0.003 <0.003 <0.003	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170) <0.004 <0.004 <0.004	Diazinon, water, fltrd, ug/L (39572) 0.035 0.101 E0.025	Dicrotophos, water fltrd, ug/L (38454) <0.08 <0.08 <0.08 <0.08	Diel-drin, water, fltrd, ug/L (39381) <0.005 <0.005 <0.005	Dimethoate, water, fltrd 0.7u GF ug/L (82662) <0.006 <0.006 <0.006	Disulfoton sulfone water, fltrd, ug/L (61640) <0.02 <0.02 <0.02 <0.02	Disulf- oton sulf- oxide, water, fltrd, ug/L (61641) <0.002 <0.002 <0.002 <0.002	Disul- foton, water, fltrd 0.7u GF ug/L (82677) <0.02 <0.02 <0.02 <0.02	metho- morph, water, fltrd, ug/L (79844) <0.02 <0.02 <0.02	sulfan ether, water, fltrd, ug/L (61642) <0.004 <0.004 <0.004	sulfan sulfate water, fltrd, ug/L (61590) <0.006 <0.006 <0.006
OCT 08 NOV 06 27 DEC 09 JAN 15 FEB 13 MAR 17	methrin water, fltrd, ug/L (61586) <0.009 <0.009 <0.009 <0.009	water fltrd 0.7u GF ug/L (82682) <0.003 <0.003 <0.003 <0.003 <0.003	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170) <0.004 <0.004 <0.004 <0.004	Diazi- non, water, fltrd, ug/L (39572) 0.035 0.101 E0.025 0.012	Dicrotophos, water fltrd, ug/L (38454) <0.08 <0.08 <0.08 <0.08 <0.08	Dieldrin, water, fltrd, ug/L (39381) <0.005 <0.005 <0.005 <0.005	Dimethoate, water, fltrd 0.7u GF ug/L (82662) <0.006 <0.006 <0.006 <0.006	Disulf- oton sulfone water, fltrd, ug/L (61640) <0.02 <0.02 <0.02 <0.02	Disulf- oton sulf- oxide, water, fltrd, ug/L (61641) <0.002 <0.002 <0.002 <0.002 <0.002	Disulfoton, water, fltrd 0.7u GF ug/L (82677) <0.02 <0.02 <0.02 <0.02 <0.02	methomorph, water, fltrd, ug/L (79844) <0.02 <0.02 <0.02 <0.02 <0.02	sulfan ether, water, fltrd, ug/L (61642) <0.004 <0.004 <0.004 <0.004	sulfan sulfate water, fltrd, ug/L (61590) <0.006 <0.006 <0.006 <0.006
OCT 08 NOV 06 27 DEC 09 JAN 15 FEB 13 MAR 17 APR 09 22	methrin water, fltrd, ug/L (61586) <0.009 <0.009 <0.009 <0.009 <0.009	water fltrd 0.7u GF ug/L (82682) <0.003 <0.003 <0.003 <0.003 <0.003	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170) <0.004 <0.004 <0.004 <0.004 <0.004	Diazinon, water, fltrd, ug/L (39572) 0.035 0.101 E0.025 0.012 0.012	Dicrotophos, water fltrd, ug/L (38454) <0.08 <0.08 <0.08 <0.08 <0.08	Dieldrin, water, fltrd, ug/L (39381) <0.005 <0.005 <0.005 <0.005 <0.005	Dimethoate, water, fltrd 0.7u GF ug/L (82662) <0.006 <0.006 <0.006 <0.006 <0.006	Disulf- oton sulfone water, fltrd, ug/L (61640) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	Disulf- oton sulf- oxide, water, fltrd, ug/L (61641) <0.002 <0.002 <0.002 <0.002 <0.002 <0.002	Disulfoton, water, fltrd 0.7u GF ug/L (82677) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	methomorph, water, fltrd, ug/L (79844) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	sulfan ether, water, fltrd, ug/L (61642) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	sulfan sulfate water, fltrd, ug/L (61590) <0.006 <0.006 <0.006 <0.006 <0.006
OCT 08 NOV 06 27 DEC 09 JAN 15 FEB 13 MAR 17 APR 09 22 MAY 05 20	methrin water, fltrd, ug/L (61586) <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009	water fltrd 0.7u GF ug/L (82682) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Diazinon, water, fltrd, ug/L (39572) 0.035 0.101 E0.025 0.012 0.012 0.009 0.007	Dicrotophos, water fltrd, ug/L (38454) <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08	Dieldrin, water, fltrd, ug/L (39381) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Dimethoate, water, fltrd 0.7u GF ug/L (82662) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006	Disulf- oton sulfone water, fltrd, ug/L (61640) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	Disulf- oton sulf- oxide, water, fltrd, ug/L (61641) <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002	Disulfoton, water, fltrd 0.7u GF ug/L (82677) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0	methomorph, water, fltrd, ug/L (79844) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	sulfan ether, water, fltrd, ug/L (61642) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	sulfan sulfate water, fltrd, ug/L (61590) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006
OCT 08 NOV 06 27 DEC 09 JAN 15 FEB 13 MAR 17 APR 09 22 MAY 05 20 JUN 02 25	methrin water, fltrd, ug/L (61586) <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009	water fltrd 0.7u GF ug/L (82682) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Diazinon, water, fltrd, ug/L (39572) 0.035 0.101 E0.025 0.012 0.012 0.009 0.007 0.013 0.012 0.145	Dicrotophos, water fltrd, ug/L (38454) <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08	Dieldrin, water, fltrd, ug/L (39381) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Dimethoate, water, fltrd 0.7u GF ug/L (82662) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006	Disulf- oton sulfone water, fltrd, ug/L (61640) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	Disulf- oton sulf- oxide, water, fltrd, ug/L (61641) <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002	Disulfoton, water, fltrd 0.7u GF ug/L (82677) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	methomorph, water, fltrd, ug/L (79844) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	sulfan ether, water, fltrd, ug/L (61642) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	sulfan sulfate water, fltrd, ug/L (61590) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006
OCT 08 NOV 06 27 DEC 09 JAN 15 FEB 13 MAR 17 APR 09 22 MAY 05 20 JUN 02 25 JUN 02 25 JUL 08 21	methrin water, fltrd, ug/L (61586) <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009	water fltrd 0.7u GF ug/L (82682) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Diazinon, water, fltrd, ug/L (39572) 0.035 0.101 E0.025 0.012 0.009 0.007 0.013 0.012 0.145 0.018 0.037	Dicrotophos, water fltrd, ug/L (38454) <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08	Dieldrin, water, fltrd, ug/L (39381) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Dimethoate, water, fltrd 0.7u GF ug/L (82662) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.00	Disulf- oton sulfone water, fltrd, ug/L (61640) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	Disulf- oton sulf- oxide, water, fltrd, ug/L (61641) <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002	Disulfoton, water, fltrd 0.7u GF ug/L (82677) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	methomorph, water, fltrd, ug/L (79844) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	sulfan ether, water, fltrd, ug/L (61642) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	sulfan sulfate water, fltrd, ug/L (61590) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006
OCT 08 NOV 06 27 DEC 09 JAN 15 FEB 13 MAR 17 APR 09 22 MAY 05 20 JUN 02 JUN 02 JUL 08	methrin water, fltrd, ug/L (61586) <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009	water fltrd 0.7u GF ug/L (82682) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Diazinon, water, fltrd, ug/L (39572) 0.035 0.101 E0.025 0.012 0.012 0.009 0.007 0.013 0.012 0.145 0.018 0.037 E0.011 0.040	Dicrotophos, water fltrd, ug/L (38454) <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08	Dieldrin, water, fltrd, ug/L (39381) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Dimethoate, water, fltrd 0.7u GF ug/L (82662) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.00	Disulf- oton sulfone water, fltrd, ug/L (61640) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	Disulf- oton sulf- oxide, water, fltrd, ug/L (61641) <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002	Disulfoton, water, fltrd 0.7u GF ug/L (82677) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	methomorph, water, fltrd, ug/L (79844) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	sulfan ether, water, fltrd, ug/L (61642) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	sulfan sulfate water, fltrd, ug/L (61590) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

				•				LIC 2002 IV					
Date	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethal- flur- alin, water, fltrd 0.7u GF ug/L (82663)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Etho- prop, water, fltrd 0.7u GF ug/L (82672)	Fenami- phos sulfone water, fltrd, ug/L (61645)	Fenami- phos sulf- oxide, water, fltrd, ug/L (61646)	Fenamiphos, water, fltrd, ug/L (61591)	Fen- thion sulf- oxide, water, fltrd, ug/L (61647)	Fen- thion, water, fltrd, ug/L (38801)	Desulf- inyl- fipro- nil amide, wat flt ug/L (62169)	Fipronil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)
OCT 08	< 0.002	< 0.009	< 0.03	< 0.004	< 0.005	< 0.008	< 0.03	< 0.03	< 0.008	< 0.02	< 0.009	< 0.005	< 0.005
NOV 06	< 0.002	< 0.009	< 0.03	< 0.004	< 0.005	< 0.008	< 0.03	< 0.03	< 0.008	< 0.02	< 0.009	< 0.005	< 0.005
27 DEC	< 0.002	< 0.009	< 0.03	< 0.004	< 0.005	<0.008	< 0.03	< 0.03	< 0.008	< 0.02	< 0.009	< 0.005	< 0.005
09 JAN	< 0.002	< 0.009	< 0.03	< 0.004	< 0.005	<0.008	< 0.03	< 0.03	< 0.008	< 0.02	< 0.009	< 0.005	< 0.005
15 FEB	< 0.002	< 0.009	< 0.03	< 0.004	< 0.005	< 0.008	< 0.03	< 0.03	< 0.008	< 0.02	< 0.009	< 0.005	< 0.005
13 MAR	< 0.002	< 0.009	< 0.03	< 0.004	< 0.005	< 0.008		< 0.03	< 0.008	< 0.02	< 0.009	< 0.005	< 0.005
17 APR	< 0.002	< 0.009	< 0.03	< 0.004	< 0.005	<0.008	< 0.03	< 0.03	< 0.008	< 0.02	< 0.009	< 0.005	< 0.005
09 22 MAY	<0.002 <0.002	<0.009 <0.009	<0.03 <0.03	<0.004 <0.004	<0.005 <0.005	<0.008 <0.008	<0.03 <0.03	<0.03 <0.03	<0.008 <0.008	<0.02 <0.02	<0.009 <0.009	<0.005 <0.005	<0.005 <0.005
05 20 JUN	<0.002 <0.002	<0.009 <0.009	<0.03 <0.03	<0.004 <0.004	<0.005 <0.005	<0.008 <0.031	<0.03 <0.03	<0.03 <0.03	<0.008 <0.008	<0.02 <0.02	<0.009 <0.009	<0.005 <0.005	<0.005 <0.005
02 25	<0.002 <0.002	<0.009 <0.009	<0.03 <0.03	<0.004 <0.004	<0.005 <0.005	<0.008 <0.008	<0.03 <0.03	<0.03 <0.03	<0.008 <0.008	<0.02 <0.02	<0.009 <0.009	<0.005 <0.005	<0.005 <0.005
JUL 08 21	<0.002 <0.002	<0.009 <0.009	<0.03 <0.03	<0.004 <0.004	<0.005 <0.005	<0.008 <0.008	<0.03 <0.03	<0.03 <0.03	<0.008 <0.008	<0.02 <0.02	<0.009 <0.009	<0.005 <0.005	<0.005 <0.005
AUG 05	< 0.002	< 0.009	< 0.03	< 0.004	< 0.005	< 0.008	< 0.03	< 0.03	< 0.008	< 0.02	< 0.009	< 0.005	< 0.005
SEP 02	< 0.002	< 0.009	< 0.03	< 0.004	< 0.005	< 0.008	< 0.03	< 0.03	< 0.008	< 0.02	< 0.009	< 0.005	< 0.005
Date	Fipro- nil, water, fltrd, ug/L	Flume- tralin, water, fltrd, ug/L	Fonofos oxon, water, fltrd,	Fonofos water, fltrd,	DATA, WAGILIFON Glufo- sinate, water, fltrd 0.7u GF ug/L	Glypho- sate, water, fltrd 0.7u GF	Hexa- zinone, water, fltrd,	Ipro- dione, water, fltrd,	Isofen- phos, water, fltrd,	Lindane water, fltrd,	Linuron water fltrd 0.7u GF ug/L	Mala- oxon, water, fltrd, ug/L	Mala- thion, water, fltrd, ug/L
Date	nil, water,	tralin, water,	Fonofos oxon, water,	Fonofos water,	Glufo- sinate, water, fltrd	Glypho- sate, water, fltrd	Hexa- zinone, water,	Ipro- dione, water,	Isofen- phos, water,	Lindane water,	water fltrd	oxon, water,	thion, water,
Date OCT 08 NOV	nil, water, fltrd, ug/L	tralin, water, fltrd, ug/L	Fonofos oxon, water, fltrd, ug/L	Fonofos water, fltrd, ug/L	Glufo- sinate, water, fltrd 0.7u GF ug/L	Glypho- sate, water, fltrd 0.7u GF ug/L	Hexa- zinone, water, fltrd, ug/L	Ipro- dione, water, fltrd, ug/L	Isofen- phos, water, fltrd, ug/L	Lindane water, fltrd, ug/L	water fltrd 0.7u GF ug/L	oxon, water, fltrd, ug/L	thion, water, fltrd, ug/L
OCT 08 NOV 06 27	nil, water, fltrd, ug/L (62166)	tralin, water, fltrd, ug/L (61592)	Fonofos oxon, water, fltrd, ug/L (61649)	Fonofos water, fltrd, ug/L (04095)	Glufo- sinate, water, fltrd 0.7u GF ug/L (62721)	Glyphosate, water, fltrd 0.7u GF ug/L (62722)	Hexa- zinone, water, fltrd, ug/L (04025)	Iprodione, water, fltrd, ug/L (61593)	Isofen- phos, water, fltrd, ug/L (61594)	Lindane water, fltrd, ug/L (39341)	water fltrd 0.7u GF ug/L (82666)	oxon, water, fltrd, ug/L (61652)	thion, water, fltrd, ug/L (39532)
OCT 08 NOV 06 27 DEC 09	nil, water, fltrd, ug/L (62166) <0.007	tralin, water, fltrd, ug/L (61592) <0.004	Fonofos oxon, water, fltrd, ug/L (61649) <0.002	Fonofos water, fltrd, ug/L (04095) <0.003	Glufo- sinate, water, fltrd 0.7u GF ug/L (62721) <0.1	Glyphosate, water, fltrd 0.7u GF ug/L (62722)	Hexa- zinone, water, fltrd, ug/L (04025) <0.013	Iprodione, water, fltrd, ug/L (61593)	Isofen- phos, water, fltrd, ug/L (61594) <0.003	Lindane water, fltrd, ug/L (39341) <0.004	water fltrd 0.7u GF ug/L (82666) <0.035	oxon, water, fltrd, ug/L (61652) <0.008	thion, water, fltrd, ug/L (39532) E0.005 <0.027
OCT 08 NOV 06 27 DEC 09 JAN 15	nil, water, fltrd, ug/L (62166) <0.007 <0.007	tralin, water, fltrd, ug/L (61592) <0.004 <0.004	Fonofos oxon, water, fltrd, ug/L (61649) <0.002 <0.002	Fonofos water, fltrd, ug/L (04095) <0.003 <0.003	Glufo- sinate, water, fltrd 0.7u GF ug/L (62721) <0.1 <0.1	Glypho- sate, water, fltrd 0.7u GF ug/L (62722) <0.1 <0.1	Hexa- zinone, water, fltrd, ug/L (04025) <0.013 <0.013	Iprodione, water, fltrd, ug/L (61593)	Isofen- phos, water, fltrd, ug/L (61594) <0.003 <0.003	Lindane water, fltrd, ug/L (39341) <0.004 <0.004	water fltrd 0.7u GF ug/L (82666) <0.035 <0.035	oxon, water, fltrd, ug/L (61652) <0.008 <0.008	thion, water, fltrd, ug/L (39532) E0.005 <0.027 <0.027
OCT 08 NOV 06 27 DEC 09 JAN 15 FEB 13	nil, water, fltrd, ug/L (62166) <0.007 <0.007 <0.007	tralin, water, fltrd, ug/L (61592) <0.004 <0.004 <0.004	Fonofos oxon, water, fltrd, ug/L (61649) <0.002 <0.002 <0.002	Fonofos water, fltrd, ug/L (04095) <0.003 <0.003 <0.003	Glufo- sinate, water, fltrd 0.7u GF ug/L (62721) <0.1 <0.1 <0.1	Glypho- sate, water, fltrd 0.7u GF ug/L (62722) <0.1 <0.1 <0.1	Hexa-zinone, water, fltrd, ug/L (04025) <0.013 <0.013 <0.013	Iprodione, water, fltrd, ug/L (61593)	Isofen-phos, water, fltrd, ug/L (61594) <0.003 <0.003 <0.003	Lindane water, fltrd, ug/L (39341) <0.004 <0.004 <0.004	water fltrd 0.7u GF ug/L (82666) <0.035 <0.035 <0.035	oxon, water, fltrd, ug/L (61652) <0.008 <0.008 <0.008	thion, water, fltrd, ug/L (39532) E0.005 <0.027 <0.027 <0.027
OCT 08 NOV 06 27 DEC 09 JAN 15 FEB 13 MAR 17	nil, water, fltrd, ug/L (62166) <0.007 <0.007 <0.007 <0.007	tralin, water, fltrd, ug/L (61592) <0.004 <0.004 <0.004 <0.004	Fonofos oxon, water, fltrd, ug/L (61649) <0.002 <0.002 <0.002 <0.002	Fonofos water, fltrd, ug/L (04095) <0.003 <0.003 <0.003 <0.003	Glufo- sinate, water, fltrd 0.7u GF ug/L (62721) <0.1 <0.1 <0.1 <0.1	Glyphosate, water, fltrd 0.7u GF ug/L (62722) <0.1 <0.1 <0.1 <0.1	Hexa-zinone, water, fltrd, ug/L (04025) <0.013 <0.013 <0.013 <0.013	Iprodione, water, fltrd, ug/L (61593) <1 <1 <1 <1	Isofen-phos, water, fltrd, ug/L (61594) <0.003 <0.003 <0.003 <0.003	Lindane water, fltrd, ug/L (39341) <0.004 <0.004 <0.004 <0.004 <0.004	water fltrd 0.7u GF ug/L (82666) <0.035 <0.035 <0.035 <0.035 <0.035	oxon, water, fltrd, ug/L (61652) <0.008 <0.008 <0.008 <0.008	thion, water, fltrd, ug/L (39532) E0.005 <0.027 <0.027 <0.027
OCT 08 NOV 06 27 DEC 09 JAN 15 FEB 13 MAR 17 APR 09 22	nil, water, fltrd, ug/L (62166) <0.007 <0.007 <0.007 <0.007 <0.007 <0.007	tralin, water, fltrd, ug/L (61592) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Fonofos oxon, water, fltrd, ug/L (61649) <0.002 <0.002 <0.002 <0.002 <0.002	Fonofos water, fltrd, ug/L (04095) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	Glufosinate, water, fltrd 0.7u GF ug/L (62721) <0.1 <0.1 <0.1 <0.1 <0.1	Glypho-sate, water, fltrd 0.7u GF ug/L (62722) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	Hexa-zinone, water, fltrd, ug/L (04025) <0.013 <0.013 <0.013 <0.013 <0.013	Iprodione, water, fltrd, ug/L (61593) <1 <1 <1 <1 <1 <1	Isofen-phos, water, fltrd, ug/L (61594) <0.003 <0.003 <0.003 <0.003 <0.003	Lindane water, fltrd, ug/L (39341) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	water fltrd 0.7u GF ug/L (82666) <0.035 <0.035 <0.035 <0.035 <0.035 <0.035	oxon, water, fltrd, ug/L (61652) <0.008 <0.008 <0.008 <0.008 <0.008	thion, water, fltrd, ug/L (39532) E0.005 <0.027 <0.027 <0.027 <0.027
OCT 08 NOV 06 27 DEC 09 JAN 15 FEB 13 MAR 17 APR 09 22 MAY 05 20	nil, water, fltrd, ug/L (62166) <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007	tralin, water, fltrd, ug/L (61592) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Fonofos oxon, water, fltrd, ug/L (61649) <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002	Fonofos water, fltrd, ug/L (04095) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	Glufo- sinate, water, fltrd 0.7u GF ug/L (62721) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	Glyphosate, water, fltrd 0.7u GF ug/L (62722) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	Hexa-zinone, water, fltrd, ug/L (04025) <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013	Iprodione, water, fltrd, ug/L (61593) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	Isofen-phos, water, fltrd, ug/L (61594) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	Lindane water, fltrd, ug/L (39341) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	water fltrd 0.7u GF ug/L (82666) <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035	oxon, water, fltrd, ug/L (61652) <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008	thion, water, fltrd, ug/L (39532) E0.005 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027
OCT 08 NOV 06 27 DEC 09 JAN 15 FEB 13 MAR 17 APR 09 22 MAY 05 JUN 02 JUN 02	nil, water, fltrd, ug/L (62166) <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 E0.006 <0.007 E0.007	tralin, water, fltrd, ug/L (61592) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Fonofos oxon, water, fltrd, ug/L (61649) <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002	Fonofos water, fltrd, ug/L (04095) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	Glufo- sinate, water, fltrd 0.7u GF ug/L (62721) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	Glyphosate, water, fltrd 0.7u GF ug/L (62722) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 0.1 <0.1 0.1 <0.1 0.1 <0.1 0.1 <0.1 0.1 <0.1 <	Hexa-zinone, water, fltrd, ug/L (04025) <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013	Iprodione, water, fltrd, ug/L (61593) <1	Isofen-phos, water, fltrd, ug/L (61594) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	Lindane water, fltrd, ug/L (39341) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	water fltrd 0.7u GF ug/L (82666) <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035	oxon, water, fltrd, ug/L (61652) <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008	thion, water, fltrd, ug/L (39532) E0.005 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 E0.011
OCT 08 NOV 06 27 DEC 09 JAN 15 FEB 13 MAR 17 APR 09 22 MAY 05 20 JUN 02 25 JUL 08 21	nil, water, fltrd, ug/L (62166) <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 E0.006 <0.007 E0.006 E0.006 E0.003	tralin, water, fltrd, ug/L (61592) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Fonofos oxon, water, fltrd, ug/L (61649) <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002	Fonofos water, fltrd, ug/L (04095) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	Glufosinate, water, fltrd 0.7u GF ug/L (62721) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	Glyphosate, water, fltrd 0.7u GF ug/L (62722) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	Hexa-zinone, water, fltrd, ug/L (04025) <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013	Iprodione, water, fltrd, ug/L (61593) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	Isofen-phos, water, fltrd, ug/L (61594) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	Lindane water, fltrd, ug/L (39341) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0	water fltrd 0.7u GF ug/L (82666) <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035	oxon, water, fltrd, ug/L (61652) <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008	thion, water, fltrd, ug/L (39532) E0.005 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 =0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027
OCT 08 NOV 06 27 DEC 09 JAN 15 FEB 13 MAR 17 APR 09 22 MAY 05 20 JUN 02 JUN 02 25 JUL 08	nil, water, fltrd, ug/L (62166) <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 E0.006 <0.007 E0.006 E0.003 <0.007 <0.007	tralin, water, fltrd, ug/L (61592) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Fonofos oxon, water, fltrd, ug/L (61649) <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002	Fonofos water, fltrd, ug/L (04095) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	Glufosinate, water, fltrd 0.7u GF ug/L (62721) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	Glyphosate, water, fltrd 0.7u GF ug/L (62722) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	Hexa-zinone, water, fltrd, ug/L (04025) <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013	Iprodione, water, fltrd, ug/L (61593) <1	Isofen-phos, water, fltrd, ug/L (61594) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	Lindane water, fltrd, ug/L (39341) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	water fltrd 0.7u GF ug/L (82666) <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035 <0.035	oxon, water, fltrd, ug/L (61652) <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008	thion, water, fltrd, ug/L (39532) E0.005 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027 <0.027

03353637 LITTLE BUCK CREEK NR INDIANAPOLIS, IN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

			WAILK-(ZUALITI	DAIA, WE	ILK ILA	IK OCTOB	LIX 2002 IV	O SEI TEN	DLK 2003			
Date	Meta- laxyl, water, fltrd, ug/L (61596)	Methi- althion water, fltrd, ug/L (61598)	c-Permethric acid methyl ester, wat flt ug/L (79842)	Methyl para- oxon, water, fltrd, ug/L (61664)	Methyl para- thion, water, fltrd 0.7u GF ug/L (82667)	t-Permethric acid methyl ester, wat flt ug/L (79843)	Metola- chlor, water, fltrd, ug/L (39415)	Metri- buzin, water, fltrd, ug/L (82630)	Molinate, water, fltrd 0.7u GF ug/L (82671)	Myclo- butanil water, fltrd, ug/L (61599)	Napropamide, water, fltrd 0.7u GF ug/L (82684)	O-Et-O- Me-S-Pr -phos- phoro- thioate wat flt ug/L (61660)	Oxy- fluor- fen, water, fltrd, ug/L (61600)
OCT													
08 NOV	< 0.005	< 0.006	< 0.04	< 0.03	< 0.006	< 0.03	E0.012	< 0.006	< 0.002	< 0.008	< 0.007	< 0.008	< 0.007
06	< 0.005	< 0.006	< 0.04	< 0.03	< 0.006	< 0.03	E0.011	< 0.006	< 0.002	< 0.008	< 0.007	< 0.008	< 0.007
27	< 0.005	< 0.006	< 0.04	< 0.03	< 0.006	< 0.03	E0.009	< 0.006	< 0.002	< 0.008	E0.004	< 0.008	< 0.007
DEC													
09	< 0.005	< 0.006	< 0.04	< 0.03	< 0.006	< 0.03	E0.003	< 0.006	< 0.002	< 0.008	< 0.007	< 0.008	< 0.007
JAN	0.005	0.006	0.04	0.00	0.006	0.00	E0.010	0.006	0.002	0.000	0.007	0.000	0.007
15 FEB	< 0.005	< 0.006	< 0.04	< 0.03	< 0.006	< 0.03	E0.010	< 0.006	< 0.002	< 0.008	< 0.007	< 0.008	< 0.007
13	< 0.005	< 0.006	< 0.04	< 0.03	< 0.006	< 0.03	E0.012	< 0.006	< 0.002	< 0.008	< 0.007	< 0.008	< 0.007
MAR	νο.σσο	νο.σσο	νο.ο ι	10.05	νο.σσο	10.05	20.012	νο.σσο	10.002	νο.σσσ	νο.σογ	νο.σσσ	10.007
17	< 0.005	< 0.006	< 0.04	< 0.03	< 0.006	< 0.03	E0.008	< 0.006	< 0.002	< 0.008	< 0.007	< 0.008	< 0.007
APR													
09	< 0.005	< 0.006	< 0.04	< 0.03	< 0.006	< 0.03	E0.012	< 0.006	< 0.002	< 0.008	< 0.007	< 0.008	< 0.007
22	< 0.005	< 0.006	< 0.04	< 0.03	< 0.006	< 0.03	0.017	< 0.006	< 0.002	< 0.008	< 0.007	< 0.008	< 0.007
MAY 05	< 0.005	< 0.006	< 0.04	< 0.03	< 0.006	< 0.03	0.039	0.192	< 0.002	< 0.008	< 0.007	< 0.008	< 0.007
20	< 0.005	< 0.006	< 0.04	< 0.03	< 0.006	< 0.03	0.039	< 0.192	< 0.002	< 0.008	< 0.007	< 0.008	< 0.007
JUN	νο.σσο	νο.σσο	νο.οι	10.05	νο.σσσ	10.05	0.011	νο.σσο	V0.002	10.000	10.007	νο.σσο	10.007
02	< 0.005	< 0.006	< 0.04	< 0.03	< 0.006	< 0.03	0.054	< 0.006	< 0.002	< 0.008	< 0.007	< 0.008	< 0.007
25	< 0.005	< 0.006	< 0.04	< 0.03	< 0.006	< 0.03	E0.011	< 0.006	< 0.002	< 0.008	< 0.007	< 0.008	< 0.007
JUL	0.005	0.006	0.04	0.02	0.007	0.02	0.024	0.007	0.000	0.000	0.00=	0.000	0.00=
08 21	< 0.005	< 0.006	< 0.04	< 0.03	< 0.006	< 0.03	0.021	< 0.006	< 0.002	< 0.008	< 0.007	< 0.008	<0.007 <0.007
AUG	< 0.005	< 0.006	< 0.04	< 0.03	< 0.006	< 0.03	0.015	< 0.006	< 0.002	< 0.008	< 0.007	< 0.008	<0.007
05	< 0.005	< 0.006	< 0.04	< 0.03	< 0.006	< 0.03	E0.008	< 0.006	< 0.002	< 0.008	< 0.007	< 0.008	< 0.007
SEP	νο.σσο	νο.σσο	νο.οι	10.05	νο.σσσ	10.05	E0.000	νο.σσο	V0.002	10.000	10.007	νο.σσο	10.007
02	< 0.005	< 0.006	< 0.04	< 0.03	< 0.006	< 0.03	E0.008	< 0.006	< 0.002	0.010	< 0.007	< 0.008	< 0.007

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	p,p-' DDE, water, fltrd, ug/L (34653)	Para- oxon, water, fltrd, ug/L (61663)	Parathion, water, fltrd, ug/L (39542)	Peb- ulate, water, fltrd 0.7u GF ug/L (82669)	Pendimethalin, water, fltrd 0.7u GF ug/L (82683)	Phorate oxon, water, fltrd, ug/L (61666)	Phorate water fltrd 0.7u GF ug/L (82664)	Phosmet oxon, water, fltrd, ug/L (61668)	Phosmet water, fltrd, ug/L (61601)	Phoste- bupirim water, fltrd, ug/L (61602)	Profenofos water, fltrd, ug/L (61603)	Prometon, water, fltrd, ug/L (04037)	Prometryn, water, fltrd, ug/L (04036)
OCT													
08	< 0.003	< 0.008	< 0.010	< 0.004	< 0.022	< 0.10	< 0.011	< 0.06	< 0.008	< 0.005	< 0.006	0.04	< 0.005
NOV 06	< 0.003	< 0.008	< 0.010	< 0.004	< 0.022	< 0.10	< 0.011	< 0.06	< 0.008	< 0.005	< 0.006	0.05	< 0.005
27	< 0.003	< 0.008	< 0.010	< 0.004	< 0.022	<0.10	< 0.011	< 0.06	< 0.008	< 0.005	< 0.006	0.03	< 0.005
DEC													
09 JAN	< 0.003	< 0.008	< 0.010	< 0.004	< 0.022	< 0.10	< 0.011	< 0.06	< 0.008	< 0.005	< 0.006	0.02	< 0.005
15	< 0.003	< 0.008	< 0.010	< 0.004	< 0.022	< 0.10	< 0.011	< 0.06	< 0.008	< 0.005	< 0.006	0.02	< 0.005
FEB													
13	< 0.003	< 0.008	< 0.010	< 0.004	< 0.022	< 0.10	< 0.011	< 0.06	< 0.008	< 0.005	< 0.006	0.02	< 0.005
MAR 17	< 0.003	< 0.008	< 0.010	< 0.004	< 0.022	< 0.10	< 0.011	< 0.06	< 0.008	< 0.005	< 0.006	0.02	< 0.005
APR	VO.003	νο.σσσ	10.010	10.00 i	VO.022	VO.10	10.011	νο.σο	νο.σσσ	10.005	νο.σσσ	0.02	VO.005
09	< 0.003	< 0.008	< 0.010	< 0.004	< 0.022	< 0.10	< 0.011	< 0.06	< 0.008	< 0.005	< 0.006	E0.01	< 0.005
22 MAY	< 0.003	< 0.008	< 0.010	< 0.004	E0.014	< 0.10	< 0.011	< 0.06	< 0.008	< 0.005	< 0.006	0.02	< 0.005
05	< 0.003	< 0.008	< 0.010	< 0.004	< 0.022	< 0.10	< 0.011	< 0.06	< 0.008	< 0.005	< 0.006	0.10	< 0.005
20	< 0.003	< 0.008	< 0.010	< 0.004	< 0.022	< 0.10	< 0.011	< 0.06	< 0.008	< 0.005	< 0.006	0.02	< 0.005
JUN	.0.002	-0.000	-0.010	-0.004	E0 007	-0.10	-0.011	-0.06	-0.000	.0.005	-0.006	0.07	-0.005
02 25	<0.003 <0.003	<0.008 <0.016	<0.010 <0.010	<0.004 <0.004	E0.007 <0.022	<0.10 <0.10	<0.011 <0.011	<0.06 <0.06	<0.008 <0.008	<0.005 <0.005	<0.006 <0.006	$0.07 \\ 0.08$	<0.005 <0.005
JUL	VO.003	<0.010	<0.010	₹0.00+	V0.022	VO.10	VO.011	VO.00	<0.000	CO.003	<0.000	0.00	VO.003
08	< 0.003	< 0.008	< 0.010	< 0.004	< 0.022	< 0.10	< 0.011	< 0.06	< 0.008	< 0.005	< 0.006	0.07	< 0.005
21 AUG	< 0.003	< 0.008	< 0.010	< 0.004	< 0.022	< 0.10	< 0.011	< 0.06	< 0.008	< 0.005	< 0.006	0.31	< 0.005
05	< 0.003	< 0.008	< 0.010	< 0.004	< 0.022	< 0.10	< 0.011	< 0.06	< 0.008	< 0.005	< 0.006	0.06	< 0.005
SEP	10.000	10.000	10.010	10.001	10.022	10.10	10.011	10.00	10.000	10.000	10.000	0.00	10.000
02	< 0.003	< 0.008	< 0.010	< 0.004	< 0.022	< 0.10	< 0.011	< 0.06	< 0.008	< 0.005	< 0.006	0.06	< 0.005

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03353637 LITTLE BUCK CREEK NR INDIANAPOLIS, IN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Pronamide, water, fltrd 0.7u GF ug/L (82676)	Propa- chlor, water, fltrd, ug/L (04024)	Propanil, water, fltrd 0.7u GF ug/L (82679)	Propargite, water, fltrd 0.7u GF ug/L (82685)	Propet- amphos, water, fltrd, ug/L (61604)	Sima- zine, water, fltrd, ug/L (04035)	Sulfo- tepp, water, fltrd, ug/L (61605)	Sulprofos, water, fltrd, ug/L (38716)	Tebu- pirim- phos oxon, water, fltrd, ug/L (61669)	Tebu- thiuron water fltrd 0.7u GF ug/L (82670)	Tefluthrin metabolite R119365 wat flt ug/L (61671)	Tefluthrin metabolite R152913 wat flt ug/L (61672)	Tefluthrin, water, fltrd, ug/L (61606)
OCT 08	< 0.004	< 0.010	< 0.011	< 0.02	< 0.004	0.006	< 0.003	< 0.02	< 0.006	< 0.02	< 0.02	< 0.01	< 0.008
NOV 06 27	<0.004 <0.004	<0.010 <0.010	<0.011 <0.011	<0.02 <0.02	<0.004 <0.004	0.007 0.007	<0.003 <0.003	<0.02 <0.02	<0.006 <0.006	<0.02 <0.02	<0.02 <0.02	<0.01 <0.01	<0.008 <0.008
DEC 09	<0.004	<0.010	<0.011	<0.02	<0.004	0.006	<0.003	<0.02	< 0.006	<0.02	<0.02	<0.01	< 0.008
JAN 15	< 0.004	< 0.010	< 0.011	< 0.02	< 0.004	0.008	< 0.003	< 0.02	< 0.006	< 0.02	< 0.02	< 0.01	< 0.008
FEB 13	< 0.004	< 0.010	< 0.011	< 0.02	< 0.004	< 0.005	< 0.003	< 0.02	< 0.006	< 0.02	< 0.02	< 0.01	<0.008
MAR 17	< 0.004	< 0.010	< 0.011	< 0.02	< 0.004	E0.003	< 0.003	< 0.02	< 0.006	< 0.02	< 0.02	< 0.01	< 0.008
APR 09 22	<0.004 <0.004	<0.010 <0.010	<0.011 <0.011	<0.02 <0.02	<0.004 <0.004	<0.005 0.008	<0.003 <0.003	<0.02 <0.02	<0.006 <0.006	<0.02 <0.02			<0.008 <0.008
MAY 05 20 JUN	<0.004 <0.004	<0.010 <0.010	<0.011 <0.011	<0.02 <0.02	<0.004 <0.004	<0.005 E0.004	<0.003 <0.003	<0.02 <0.02	<0.006 <0.006	<0.02 E0.01			<0.008 <0.008
02 25 JUL	<0.004 <0.004	<0.010 <0.010	<0.011 <0.011	<0.02 <0.02	<0.004 <0.004	0.255 0.108	<0.003 <0.003	<0.02 <0.02	<0.006 <0.006	<0.02 <0.02			<0.008 <0.008
08 21 AUG	<0.004 <0.004	<0.010 <0.010	<0.011 <0.011	<0.02 <0.02	<0.004 <0.004	0.089 0.016	<0.003 <0.003	<0.02 <0.02	<0.006 <0.006	<0.02 <0.02			<0.008 <0.008
05 SEP	< 0.004	< 0.010	< 0.011	< 0.02	< 0.004	0.017	< 0.003	< 0.02	< 0.006	< 0.02			<0.008
02	< 0.004	< 0.010	< 0.011	< 0.02	< 0.004	0.010	< 0.003	< 0.02	< 0.006	< 0.02			<0.008
Date	Temephos, water, fltrd, ug/L	Terbacil, water, fltrd 0.7u GF	Ter- bufos oxon sulfone water, fltrd, ug/L	Terbu- fos, water, fltrd 0.7u GF ug/L	Ter- buthyl- azine, water, fltrd, ug/L	Thio- bencarb water fltrd 0.7u GF ug/L	trans- Propi- cona- zole, water, fltrd, ug/L	Tri- allate, water, fltrd 0.7u GF ug/L	Tribu- phos, water, fltrd, ug/L	Tri- flur- alin, water, fltrd 0.7u GF ug/L	z-Di- metho- morph, water, fltrd, ug/L	Di- chlor- vos, water fltrd, ug/L	Suspnd. sedi- ment, sieve diametr percent <.063mm
OCT	phos, water, fltrd, ug/L (61607)	cil, water, fltrd 0.7u GF ug/L (82665)	Ter- bufos oxon sulfone water, fltrd, ug/L (61674)	Terbu- fos, water, fltrd 0.7u GF ug/L (82675)	Ter- buthyl- azine, water, fltrd, ug/L (04022)	Thio- bencarb water fltrd 0.7u GF ug/L (82681)	trans- Propi- cona- zole, water, fltrd, ug/L (79847)	Tri- allate, water, fltrd 0.7u GF ug/L (82678)	Tribu- phos, water, fltrd, ug/L (61610)	Tri- flur- alin, water, fltrd 0.7u GF ug/L (82661)	metho- morph, water, fltrd, ug/L (79845)	chlorvos, water fltrd, ug/L (38775)	sedi- ment, sieve diametr percent <.063mm (70331)
OCT 08 NOV	phos, water, fltrd, ug/L (61607)	cil, water, fltrd 0.7u GF ug/L (82665) <0.034	Terbufos oxon sulfone water, fltrd, ug/L (61674)	Terbu- fos, water, fltrd 0.7u GF ug/L (82675)	Ter-buthyl-azine, water, fltrd, ug/L (04022)	Thiobencarb water fltrd 0.7u GF ug/L (82681)	trans- Propi- cona- zole, water, fltrd, ug/L (79847)	Tri- allate, water, fltrd 0.7u GF ug/L (82678) <0.002	Tribuphos, water, fltrd, ug/L (61610)	Tri- flur- alin, water, fltrd 0.7u GF ug/L (82661) <0.009	metho- morph, water, fltrd, ug/L (79845)	chlorvos, water fltrd, ug/L (38775)	sedi- ment, sieve diametr percent <.063mm (70331)
OCT 08 NOV 06 27	phos, water, fltrd, ug/L (61607)	cil, water, fltrd 0.7u GF ug/L (82665)	Ter- bufos oxon sulfone water, fltrd, ug/L (61674)	Terbu- fos, water, fltrd 0.7u GF ug/L (82675)	Ter- buthyl- azine, water, fltrd, ug/L (04022)	Thio- bencarb water fltrd 0.7u GF ug/L (82681)	trans- Propi- cona- zole, water, fltrd, ug/L (79847)	Tri- allate, water, fltrd 0.7u GF ug/L (82678)	Tribu- phos, water, fltrd, ug/L (61610)	Tri- flur- alin, water, fltrd 0.7u GF ug/L (82661)	metho- morph, water, fltrd, ug/L (79845)	chlorvos, water fltrd, ug/L (38775)	sedi- ment, sieve diametr percent <.063mm (70331)
OCT 08 NOV 06 27 DEC 09	phos, water, fltrd, ug/L (61607) <0.3 <0.3	cil, water, fltrd 0.7u GF ug/L (82665) <0.034 <0.140	Terbufos oxon sulfone water, fltrd, ug/L (61674)	Terbu- fos, water, fltrd 0.7u GF ug/L (82675) <0.02	Ter-buthyl-azine, water, fltrd, ug/L (04022)	Thiobencarb water fltrd 0.7u GF ug/L (82681) <0.005	trans- Propi- cona- zole, water, fltrd, ug/L (79847) <0.01	Tri-allate, water, fltrd 0.7u GF ug/L (82678) <0.002	Tribuphos, water, fltrd, ug/L (61610) <0.004	Tri-fluralin, water, fltrd 0.7u GF ug/L (82661)	metho- morph, water, fltrd, ug/L (79845) <0.05	chlor- vos, water fltrd, ug/L (38775) <0.01	sediment, sieve diametr percent <.063mm (70331)
OCT 08 NOV 06 27 DEC 09 JAN 15	phos, water, fltrd, ug/L (61607) <0.3 <0.3	cil, water, fltrd 0.7u GF ug/L (82665) <0.034 <0.140 <0.034	Terbufos oxon sulfone water, fltrd, ug/L (61674) <0.07 <0.07	Terbu- fos, water, fltrd 0.7u GF ug/L (82675) <0.02 <0.02	Ter-buthyl-azine, water, fltrd, ug/L (04022) <0.01 <0.01	Thiobencarb water fltrd 0.7u GF ug/L (82681) <0.005 <0.005	trans- Propi- cona- zole, water, fltrd, ug/L (79847) <0.01 <0.01	Tri-allate, water, fltrd 0.7u GF ug/L (82678) <0.002 <0.002	Tribu- phos, water, fltrd, ug/L (61610) <0.004 <0.004	Tri- flur- alin, water, fltrd 0.7u GF ug/L (82661) <0.009 <0.009	metho- morph, water, fltrd, ug/L (79845) <0.05 <0.05	chlor- vos, water fltrd, ug/L (38775) <0.01 <0.01	sediment, sieve diametr percent <.063mm (70331) 40 56 69
OCT 08 NOV 06 27 DEC 09 JAN 15 FEB 13	phos, water, fltrd, ug/L (61607) <0.3 <0.3 <0.3 <0.3	cil, water, fltrd 0.7u GF ug/L (82665) <0.034 <0.034 <0.034	Ter-bufos oxon sulfone water, fltrd, ug/L (61674) <0.07 <0.07 <0.07	Terbu- fos, water, fltrd 0.7u GF ug/L (82675) <0.02 <0.02 <0.02 <0.02	Ter-buthyl-azine, water, fltrd, ug/L (04022) <0.01 <0.01 <0.01	Thiobencarb water fltrd 0.7u GF ug/L (82681) <0.005 <0.005 <0.005	trans- Propi- cona- zole, water, fltrd, ug/L (79847) <0.01 <0.01 <0.01	Tri-allate, water, fltrd 0.7u GF ug/L (82678) <0.002 <0.002 <0.002 <0.002	Tribuphos, water, fltrd, ug/L (61610) <0.004 <0.004 <0.004	Tri- flur- alin, water, fltrd 0.7u GF ug/L (82661) <0.009 <0.009 <0.009	methomorph, water, fltrd, ug/L (79845) <0.05 <0.05 <0.05 <0.05	chlor- vos, water fltrd, ug/L (38775) <0.01 <0.01 <0.01	sediment, sieve diametr percent <.063mm (70331) 40 56 69 32
OCT 08 NOV 06 27 DEC 09 JAN 15 FEB 13 MAR 17	phos, water, fltrd, ug/L (61607) <0.3 <0.3 <0.3 <0.3 <0.3	cil, water, fltrd 0.7u GF ug/L (82665) <0.034 <0.034 <0.034 <0.034	Terbufos oxon sulfone water, fltrd, ug/L (61674) <0.07 <0.07 <0.07 <0.07	Terbufos, water, fltrd 0.7u GF ug/L (82675) <0.02 <0.02 <0.02 <0.02 <0.02	Ter-buthyl-azine, water, fltrd, ug/L (04022) <0.01 <0.01 <0.01 <0.01 <0.01	Thiobencarb water fltrd 0.7u GF ug/L (82681) <0.005 <0.005 <0.005 <0.005	trans- Propi- cona- zole, water, fltrd, ug/L (79847) <0.01 <0.01 <0.01 <0.01	Tri- allate, water, fltrd 0.7u GF ug/L (82678) <0.002 <0.002 <0.002 <0.002 <0.002	Tribu-phos, water, fltrd, ug/L (61610) <0.004 <0.004 <0.004 <0.004 <0.004	Tri- flur- alin, water, fltrd 0.7u GF ug/L (82661) <0.009 <0.009 <0.009 <0.009	methomorph, water, fltrd, ug/L (79845) <0.05 <0.05 <0.05 <0.05 <0.05	chlor- vos, water fltrd, ug/L (38775) <0.01 <0.01 <0.01 <0.01	sediment, sieve diametr percent <.063mm (70331) 40 56 69 32
OCT 08 NOV 06 27 DEC 09 JAN 15 FEB 13 MAR 17 APR 09 22	phos, water, fltrd, ug/L (61607) <0.3 <0.3 <0.3 <0.3 <0.3	cil, water, fltrd 0.7u GF ug/L (82665) <0.034 <0.034 <0.034 <0.034 <0.034	Terbufos oxon sulfone water, fltrd, ug/L (61674) <0.07 <0.07 <0.07 <0.07 <0.07 <0.07	Terbu- fos, water, fltrd 0.7u GF ug/L (82675) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	Ter-buthyl-azine, water, fltrd, ug/L (04022) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	Thiobencarb water fltrd 0.7u GF ug/L (82681) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	trans- Propi- cona- zole, water, fltrd, ug/L (79847) <0.01 <0.01 <0.01 <0.01	Tri- allate, water, fltrd 0.7u GF ug/L (82678) <0.002 <0.002 <0.002 <0.002 <0.002 <0.002	Tribu- phos, water, fltrd, ug/L (61610) <0.004 <0.004 <0.004 <0.004 <0.004	Tri- flur- alin, water, fltrd 0.7u GF ug/L (82661) <0.009 <0.009 <0.009 <0.009 <0.009	methomorph, water, fltrd, ug/L (79845) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	chlor- vos, water fltrd, ug/L (38775) <0.01 <0.01 <0.01 <0.01 <0.01	sediment, sieve diametr percent <.063mm (70331) 40 56 69 32 24 70
OCT 08 NOV 06 27 DEC 09 JAN 15 FEB 13 MAR 17 APR 09 22 MAY 05 20	phos, water, fltrd, ug/L (61607) <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.	cil, water, fltrd 0.7u GF ug/L (82665) <0.034 <0.140 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034	Terbufos oxon sulfone water, fltrd, ug/L (61674) <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07	Terbu- fos, water, fltrd 0.7u GF ug/L (82675) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	Ter-buthyl-azine, water, fltrd, ug/L (04022) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	Thiobencarb water fltrd 0.7u GF ug/L (82681) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	trans- Propi- cona- zole, water, fltrd, ug/L (79847) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	Tri- allate, water, fltrd 0.7u GF ug/L (82678) <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002	Tribuphos, water, fltrd, ug/L (61610) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Tri-fluralin, water, fltrd 0.7u GF ug/L (82661) <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009	methomorph, water, fltrd, ug/L (79845) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	chlor- vos, water fltrd, ug/L (38775) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	sediment, sieve diametr percent <.063mm (70331) 40 56 69 32 24 70 90 98
OCT 08 NOV 06 27 DEC 09 JAN 15 FEB 13 MAR 17 APR 09 22 MAY 05 20 JUN 02 25	phos, water, fltrd, ug/L (61607) <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.	cil, water, fltrd 0.7u GF ug/L (82665) <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034	Terbufos oxon sulfone water, fltrd, ug/L (61674) <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07	Terbu- fos, water, fltrd 0.7u GF ug/L (82675) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	Ter-buthyl-azine, water, fltrd, ug/L (04022) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	Thiobencarb water fltrd 0.7u GF ug/L (82681) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	trans-Propi- cona- zole, water, fltrd, ug/L (79847) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	Tri-allate, water, fltrd 0.7u GF ug/L (82678) <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002	Tribuphos, water, fltrd, ug/L (61610) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Tri-fluralin, water, fltrd 0.7u GF ug/L (82661) <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009	methomorph, water, fltrd, ug/L (79845) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	chlor- vos, water fltrd, ug/L (38775) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 E0.01 CO.01	sediment, sieve diametr percent <.063mm (70331) 40 56 69 32 24 70 90 98 85
OCT 08 NOV 06 27 DEC 09 JAN 15 FEB 13 MAR 17 APR 09 22 MAY 05 20 JUN 02 25 JUL 08 21	phos, water, fltrd, ug/L (61607) <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.	cil, water, fltrd 0.7u GF ug/L (82665) <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.03	Terbufos oxon sulfone water, fltrd, ug/L (61674) <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07	Terbu- fos, water, fltrd 0.7u GF ug/L (82675) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	Ter-buthyl-azine, water, fltrd, ug/L (04022) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	Thiobencarb water fltrd 0.7u GF ug/L (82681) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	trans-Propicona- zole, water, fltrd, ug/L (79847) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	Tri- allate, water, fltrd 0.7u GF ug/L (82678) <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002	Tribuphos, water, flurd, ug/L (61610) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Tri-fluralin, water, fltrd 0.7u GF ug/L (82661) <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009	methomorph, water, fltrd, ug/L (79845) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	chlor- vos, water fltrd, ug/L (38775) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	sediment, sieve diametr percent <.063mm (70331) 40 56 69 32 24 70 90 98 85 81 75 34
OCT 08 NOV 06 27 DEC 09 JAN 15 FEB 13 MAR 17 APR 09 22 MAY 05 20 JUN 02 JUN 02 JUL 08	phos, water, fltrd, ug/L (61607) <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.	cil, water, fltrd 0.7u GF ug/L (82665) <0.034 <0.140 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.03	Terbufos oxon sulfone water, fltrd, ug/L (61674) <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07	Terbufos, water, fltrd 0.7u GF ug/L (82675) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.	Ter-buthyl-azine, water, fltrd, ug/L (04022) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	Thiobencarb water fltrd 0.7u GF ug/L (82681) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	trans-Propicona- zole, water, fltrd, ug/L (79847) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	Triallate, water, fltrd 0.7u GF ug/L (82678) <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002	Tribuphos, water, fltrd, ug/L (61610) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Tri-fluralin, water, fltrd 0.7u GF ug/L (82661) <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009	methomorph, water, fltrd, ug/L (79845) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	chlor- vos, water fltrd, ug/L (38775) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	sediment, sieve diametr percent <.063mm (70331) 40 56 69 32 24 70 90 98 85 81 75 34 73

03353637 LITTLE BUCK CREEK NR INDIANAPOLIS, IN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

	Sus-
	pended
	sedi-
	ment
	concen-
	tration
Date	mg/L
Date	(80154)
	(80134)
OCT	
08	17
NOV	- ,
06	5
27	5 17
DEC	1 /
09	19
JAN	19
15	32
FEB	32
13	44
MAR	
17	11
APR	11
09	101
22	101
MAY	10
05	389
20	53
JUN	33
02	5 0
02 25	58 22
	22
JUL	~
08	5
21	401
AUG	
05	4
SEP	
02	138

251

03353700 WEST FORK WHITE LICK CREEK AT DANVILLE, IN

 $LOCATION.--Lat\ 39^{\circ}45'39",\ long\ 86^{\circ}30'54",\ in\ SE^{1}_{4}SW^{1}_{/4}\ sec. 3,\ T.15\ N.,\ R.1\ W.,\ Hendricks\ County,\ Hydrologic\ Unit\ 05120201,\ (DANVILLE,\ IN\ quadrangle),\ at\ Danville\ Filtration\ Plant,\ 600\ ft\ upstream\ of\ U.S.\ Highway\ 36\ bridge,\ 0.6\ mi\ upstream\ from\ small\ left\ bank\ tributary,\ and\ 7\ mi\ west\ of\ Avon.$

DRAINAGE AREA.--28.8 mi².

PERIOD OF RECORD .-- May 1958 to October 2003 (discontinued).

REVISED RECORDS.--WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 828.83 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 23, 1968, nonrecording gage and crest-stage gage on upstream side of bridge at same datum. Oct. 23, 1968, to Aug. 6, 1970, water-stage recorder on upstream side of bridge at same datum. Aug. 7, 1970 to Nov. 14, 1994, water-stage recorder on downstream side of bridge at same datum.

REMARKS.--Records fair except those for Oct. 1 - Dec. 9; Mar. 9 - Apr. 14; May 10 - June 9; Sept. 3-21, and estimated daily discharges, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 28, 1957, reached a stage of 16.0 ft, from floodmarks, discharge, 6,660 ft³/s, from contracted-opening measurement.

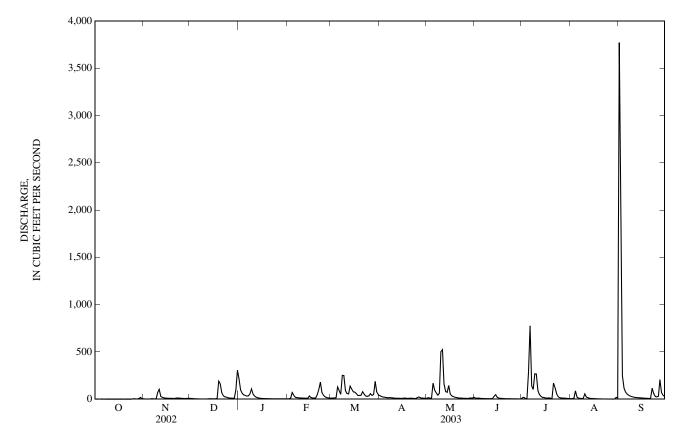
DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	3.9	8.0	213	e3.7	e11	37	9.3	12	13	6.1	3,770
2	0.77	2.1	7.0	99	e3.8	e12	28	16	10	20	5.3	1,270
3	0.75	1.6	e5.6	63	e10	e13	23	11	11	7.2	11	248
4	2.2	1.6	e4.4	46	e70	e15	21	10	9.6	5.3	88	119
5	0.15	2.2	e3.6	39	e40	e130	19	170	7.8	280	21	77
6	0.21	4.7	e3.0	33	e20	e90	14	95	7.3	775	12	54
7	0.26	4.8	e2.6	34	e17	52	16	68	6.9	142	8.5	42
8	0.09	3.4	e2.3	56	e14	252	15	42	5.6	103	7.0	33
9	0.08	3.1	e2.1	109	e13	251	14	62	5.6	268	9.4	27
10	0.08	69	e2.1	53	e12	91	12	501	5.2	266	56	22
11	0.11	104	e2.4	e32	e12	60	10	524	5.6	91	22	19
12	0.15	30	e3.4	e20	e11	55	10	162	7.2	50	15	16
13	0.18	19	4.4	e15	e10	138	9.7	82	30	29	10	16
14	0.19	14	4.9	e11	10	107	8.3	72	48	19	7.6	14
15	0.14	12	4.3	e9.0	33	78	8.8	144	19	17	6.2	14
16 17 18 19 20	0.14 0.11 0.13 1.0 0.14	10 9.4 8.7 8.8 7.8	3.9 3.7 7.2 190 162	e7.6 e6.6 e5.8 e5.4 e5.0	e16 e13 11 11 47	75 58 39 39 41	8.8 12 9.4 8.3 10	55 35 26 20 18	9.0 7.9 6.8 5.8	13 9.8 14 9.9 8.1	5.5 4.9 3.9 3.4 2.9	11 11 9.5 8.9 7.8
21 22 23 24 25	0.09 0.07 0.09 0.13 2.8	8.0 11 12 11 9.4	65 36 25 21 e15	e4.7 e4.4 e4.3 e4.2 e4.1	102 e180 e70 e40 e24	79 52 34 29 35	11 8.9 7.4 7.3	14 12 12 9.9 9.2	5.3 4.9 4.6 4.1 3.8	171 120 54 25 16	2.6 2.3 1.9 1.5 1.3	8.3 115 61 28 25
26 27 28 29 30 31	4.6 3.0 1.5 7.5 18 6.2	8.5 7.8 7.3 8.4 10	e12 e11 e10 e10 103 306	e4.0 e3.9 e3.8 e3.8 e3.7	e17 e14 e12 	58 40 49 187 77 47	24 14 12 11 9.6	9.1 7.8 9.5 14 9.5 21	4.2 4.1 3.4 3.2 2.7	12 11 11 9.5 7.7 6.8	1.2 1.4 1.0 2.6 19	30 205 70 40 27
TOTAL	51.86	413.5	1,040.9	907.0	836.5	2,294	416.5	2,250.3	271.6	2,584.3	352.5	6,398.5
MEAN	1.67	13.8	33.6	29.3	29.9	74.0	13.9	72.6	9.05	83.4	11.4	213
MAX	18	104	306	213	180	252	37	524	48	775	88	3,770
MIN	0.07	1.6	2.1	3.7	3.7	11	7.3	7.8	2.7	5.3	1.0	7.8
CFSM	0.06	0.48	1.17	1.02	1.04	2.57	0.48	2.52	0.31	2.89	0.39	7.41
IN.	0.07	0.53	1.34	1.17	1.08	2.96	0.54	2.91	0.35	3.34	0.46	8.26
STATIST	TICS OF MO	ONTHLY M	IEAN DATA	FOR WAT	ER YEARS	1959 - 2003,	BY WATE	ER YEAR (W	Y)			
MEAN	11.4	27.2	37.8	37.5	48.3	59.7	51.4	41.6	23.4	19.9	8.32	10.9
MAX	119	156	154	134	151	145	123	178	174	134	69.4	213
(WY)	(2002)	(1986)	(1991)	(1999)	(1990)	(1978)	(1996)	(1996)	(1998)	(1979)	(1979)	(2003)
MIN	0.000	0.041	0.035	0.062	2.82	8.86	9.14	3.87	0.51	0.14	0.026	0.000
(WY)	(1965)	(2000)	(1964)	(1977)	(1964)	(1994)	(1971)	(1976)	(1988)	(1991)	(1964)	(1999)

03353700 WEST FORK WHITE LICK CREEK AT DANVILLE, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	NDAR YEAR	FOR 2003 WA	ΓER YEAR	WATER YEARS	3 1959 - 2003
ANNUAL TOTAL	14,375.29		17,817.46			
ANNUAL MEAN	39.4		48.8		31.4	
HIGHEST ANNUAL MEAN					55.7	1973
LOWEST ANNUAL MEAN					6.35	1966
HIGHEST DAILY MEAN	1,430	May 13	3,770	Sep 1	3,770	Sep 1, 2003
LOWEST DAILY MEAN	0.07	Oct 22	0.07	Oct 22	0.00	Oct 3, 1960
ANNUAL SEVEN-DAY MINIMUM	0.13	Oct 8	0.13	Oct 8	0.00	Oct 3, 1960
MAXIMUM PEAK FLOW			7,090	Sep 1	7,090	Sep 1, 2003
MAXIMUM PEAK STAGE			13.79	Sep 1	13.79	Sep 1, 2003
ANNUAL RUNOFF (CFSM)	1.37		1.69	1	1.09	• .
ANNUAL RUNOFF (INCHES)	18.57		23.01		14.83	
10 PERCENT EXCEEDS	99		93		72	
50 PERCENT EXCEEDS	8.7		11		8.4	
90 PERCENT EXCEEDS	0.44		2.2		0.19	

e Estimated



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03353800 WHITE LICK CREEK AT MOORESVILLE, IN

LOCATION.--Lat 39°36'28", long 86°22'56", in $NE^{1}_{4}SE^{1}_{4}$ sec. 35, T.14 N., R.1 E., Morgan County, Hydrologic Unit 05120201, (MOORESVILLE WEST, IN quadrangle), 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 National Geodetic Vertical Datum of 1929. Dec. 10, 1963 to Sept. 30, 1964, nonrecording gage at bridge 1,950 ft upstream at datum 1.39 ft higher.

REMARKS.--Records fair 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.

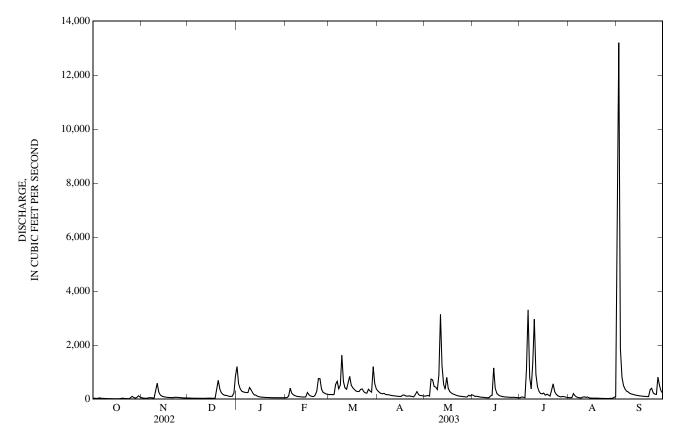
DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	56	45	1,210	e56	165	305	111	145	53	59	4,870
2	35	42	40	580	e62	178	251	124	103	81	54	13,200
3	29	36	38	390	112	166	214	134	108	70	57	1,860
4	30	34	36	299	407	174	198	112	99	60	206	801
5	50	38	35	267	e220	537	216	744	85	1,110	128	506
6	35	56	33	254	e160	660	170	714	73	3,300	79	369
7	28	56	33	244	e130	385	169	466	70	809	63	296
8	28	48	33	245	e110	518	163	446	65	384	52	265
9	24	41	31	426	e97	1,620	145	359	60	1,360	46	217
10	22	322	31	342	e90	653	135	896	54	2,960	79	193
11	21	589	32	235	e85	421	128	3,140	54	913	85	179
12	20	254	34	e160	e80	365	120	1,240	118	472	68	160
13	19	154	35	e150	e78	605	112	557	140	291	81	147
14	18	111	37	e110	e84	843	105	367	1,160	210	50	135
15	18	92	36	e90	248	514	101	805	411	197	42	126
16	18	82	34	e80	e160	423	106	401	221	225	38	119
17	17	71	33	e74	e120	362	153	278	159	146	39	111
18	17	65	38	e69	e100	302	149	228	122	183	39	106
19	29	61	377	e65	e96	283	116	192	107	157	37	102
20	37	58	694	e62	152	282	111	168	94	114	33	97
21	27	54	373	e60	294	363	124	145	85	322	31	93
22	22	68	240	e58	757	379	110	127	79	569	29	353
23	20	71	177	e56	764	278	97	115	75	275	28	402
24	19	69	144	e54	373	234	88	106	71	181	27	226
25	52	63	143	e52	252	223	175	99	68	127	25	186
26 27 28 29 30 31	102 61 42 65 126 79	56 51 48 45 45	123 103 102 109 227 851	e54 e52 e52 e54 e52 e52	223 192 180 	366 305 259 1,200 586 381	279 174 136 133 116	92 86 83 145 115 161	66 70 64 59 55	101 86 101 94 76 67	25 25 30 31 72 90	176 816 507 302 223
TOTAL	1,144	2,836	4,297	5,948	5,682	14,030	4,599	12,756	4,140	15,094	1,748	27,143
MEAN	36.9	94.5	139	192	203	453	153	411	138	487	56.4	905
MAX	126	589	851	1,210	764	1,620	305	3,140	1,160	3,300	206	13,200
MIN	17	34	31	52	56	165	88	83	54	53	25	93
CFSM	0.17	0.45	0.65	0.91	0.96	2.13	0.72	1.94	0.65	2.30	0.27	4.27
IN.	0.20	0.50	0.75	1.04	1.00	2.46	0.81	2.24	0.73	2.65	0.31	4.76
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1957 - 2003,	BY WATE	R YEAR (W	Y)			
MEAN	78.7	191	261	257	323	418	371	306	177	148	77.4	74.4
MAX	592	1,193	975	845	942	1,154	1,328	1,062	936	764	567	905
(WY)	(2002)	(1994)	(1991)	(1969)	(1971)	(1963)	(1964)	(1996)	(1998)	(1979)	(1979)	(2003)
MIN	5.47	9.86	8.83	9.60	35.7	86.8	83.1	46.3	12.9	11.7	5.10	3.51
(WY)	(1998)	(1968)	(1964)	(1977)	(1964)	(2000)	(1971)	(1976)	(1988)	(1966)	(1966)	(1991)

03353800 WHITE LICK CREEK AT MOORESVILLE, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	NDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEARS	S 1957 - 2003
ANNUAL TOTAL	98,810.7		99,417			
ANNUAL MEAN	271		272		224	
HIGHEST ANNUAL MEAN					372	1974
LOWEST ANNUAL MEAN					51.1	1966
HIGHEST DAILY MEAN	7,880	May 13	13,200	Sep 2	13,200	Sep 2, 2003
LOWEST DAILY MEAN	8.6	Sep 13	17	Oct 17	0.68	Aug 27, 1988
ANNUAL SEVEN-DAY MINIMUM	9.5	Sep 8	18	Oct 12	1.8	Sep 24, 1988
MAXIMUM PEAK FLOW		-	19,900	Sep 2	19,900	Sep 2, 2003
MAXIMUM PEAK STAGE			23.28	Sep 2	23.31	Jul 13, 1979
ANNUAL RUNOFF (CFSM)	1.28		1.28	_	1.06	
ANNUAL RUNOFF (INCHES)	17.34		17.44		14.34	
10 PERCENT EXCEEDS	593		516		473	
50 PERCENT EXCEEDS	102		111		90	
90 PERCENT EXCEEDS	20		34		13	

e Estimated



03354000 WHITE RIVER NEAR CENTERTON, IN

(Former National stream-quality accounting network station)

LOCATION.--Lat 39°29'51", long 86°24'02", in NE ¼NE ¼ sec.10, T.12 N., R.1 E., Morgan County, Hydrologic Unit 05120201, (MOORESVILLE WEST, IN quadrangle), on right bank at upstream side of bridge on Blue Bluff Road, 0.8 mi downstream from White Lick Creek, 1 mi south of Centerton, and at mile 199.3

DRAINAGE AREA.--2,444 mi².

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PERIOD OF RECORD.—July 1925 to September 1930 (gage heights only), October 1930 to March 1932, October 1946 to current year. Monthly discharge only for October and November 1946, published in WSP 1305. Published as West Fork White River at Martinsville prior to March 1932, and as West Fork White River near Centerton October 1946 to September 1948.

REVISED RECORDS.--WSP 1335: 1948-49. WSP 1909: 1931(M). WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 595.44 ft above National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark), levels by Indianapolis Power and Light Co. See WSP 1725 for history of changes prior to July 1953. July 1953 to Aug. 7, 1975, water-stage recorder at site 0.4 mi downstream at same datum.

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

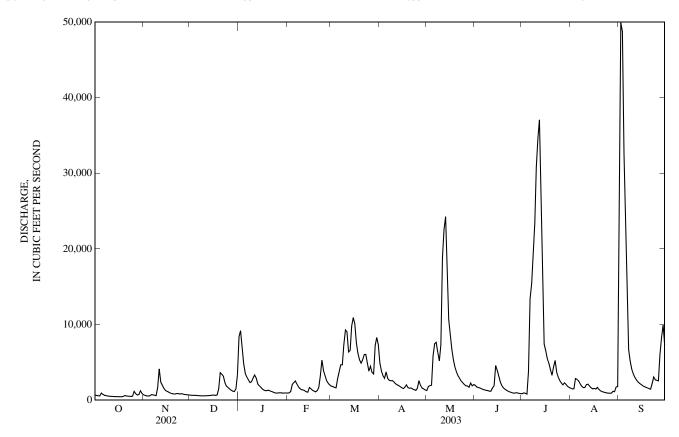
EXTREMES OUTSIDE PERIOD OF RECORD.—Flood in March 1913 reached a stage of 22.8 ft at Martinsville site (from information by Indiana State Highway Commission) and 21.9 ft at site 0.4 mi downstream (from information by Corps of Engineers), discharge, 90,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	677	708	667	8,420	936	1,850	4,950	1,270	1,960	850	1,580	13,600
2	616	620	644	9,180	956	1,800	3,850	1,810	1,730	960	1,490	49,900
3	579	573	637	6,930	1,120	1,690	3,250	1,910	1,660	905	1,500	48,700
4	572	551	643	4,820	2,060	1,630	2,890	1,980	1,620	800	2,860	32,600
5	939	563	626	3,540	2,320	2,840	3,740	5,820	1,500	3,800	2,750	26,200
6	769	729	603	3,040	2,530	3,780	2,880	7,470	1,420	13,400	2,540	16,300
7	648	708	585	2,690	2,120	4,670	2,620	7,660	1,360	15,400	2,170	6,690
8	602	652	567	2,330	1,750	4,680	2,560	6,340	1,290	19,300	1,850	5,110
9	554	600	578	2,430	1,520	7,340	2,590	5,200	1,270	23,400	1,650	4,100
10	523	1,680	579	2,930	1,380	9,280	2,420	7,330	1,180	30,900	1,680	3,460
11	510	4,130	578	3,320	1,360	9,050	2,180	18,900	1,190	34,700	2,050	3,000
12	494	2,370	601	2,910	1,240	6,370	2,040	22,500	1,620	37,100	2,110	2,680
13	484	1,990	608	2,120	1,110	6,600	1,930	24,300	1,890	29,700	1,870	2,400
14	466	1,560	628	1,900	1,060	9,810	1,800	18,500	4,580	16,000	1,630	2,220
15	470	1,290	669	1,690	1,670	10,900	1,650	10,600	3,970	7,430	1,500	2,070
16	462	1,170	660	1,470	1,500	10,100	1,530	8,640	3,170	6,540	1,550	1,910
17	455	1,070	645	1,320	1,290	7,560	1,730	6,720	2,410	5,500	1,470	1,790
18	456	952	682	1,250	1,200	6,190	2,020	5,320	1,910	4,880	1,680	1,700
19	491	873	1,540	1,280	1,100	5,340	1,640	4,360	1,620	4,060	1,420	1,620
20	608	837	3,640	1,320	1,260	4,890	1,580	3,710	1,440	3,290	1,240	1,520
21	562	811	3,430	1,200	1,690	5,320	1,610	3,230	1,290	4,360	1,130	1,440
22	539	869	3,170	1,130	3,280	6,020	1,460	2,860	1,180	5,260	1,070	2,200
23	515	878	2,300	1,050	5,300	6,060	1,380	2,530	1,080	3,660	1,020	3,070
24	493	818	1,850	953	3,910	4,910	1,290	2,300	1,020	3,050	964	2,690
25	535	852	1,680	933	3,220	3,830	1,610	2,080	952	2,580	932	2,630
26 27 28 29 30 31	1,160 858 683 737 1,230 889	827 761 742 701 694	1,480 1,320 1,190 1,150 1,490 3,370	944 981 972 933 950 944	2,580 2,230 2,000 	4,490 3,680 3,470 7,220 8,280 7,340	2,590 1,950 1,590 1,490 1,350	1,900 1,870 1,700 2,270 1,890 2,060	914 982 958 900 867	2,270 2,010 2,290 2,080 1,830 1,680	914 926 1,170 1,110 1,730 1,790	2,540 5,970 8,250 9,970 7,300
TOTAL	19,576	31,579	38,810	75,880	53,692	176,990	66,170	195,030	48,933	289,985	49,346	273,630
MEAN	631	1,053	1,252	2,448	1,918	5,709	2,206	6,291	1,631	9,354	1,592	9,121
MAX	1,230	4,130	3,640	9,180	5,300	10,900	4,950	24,300	4,580	37,100	2,860	49,900
MIN	455	551	567	933	936	1,630	1,290	1,270	867	800	914	1,440
CFSM	0.26	0.43	0.51	1.00	0.78	2.34	0.90	2.57	0.67	3.83	0.65	3.73
IN.	0.30	0.48	0.59	1.15	0.82	2.69	1.01	2.97	0.74	4.41	0.75	4.16
STATIST	ICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1948 - 2003,	BY WATE	R YEAR (W	Y)			
MEAN	943	1,815	2,549	3,221	3,732	4,534	4,304	3,244	2,483	1,946	1,120	1,047
MAX	6,725	11,760	8,248	17,760	10,430	10,390	11,530	11,280	10,310	9,354	6,001	9,121
(WY)	(2002)	(1994)	(1958)	(1950)	(1950)	(1963)	(1964)	(1996)	(1998)	(2003)	(1979)	(2003)
MIN	281	320	305	302	460	1,083	1,097	799	419	344	338	213
(WY)	(1964)	(1954)	(1964)	(1977)	(1964)	(2000)	(1971)	(1976)	(1988)	(1954)	(1966)	(1954)

03354000 WHITE RIVER NEAR CENTERTON, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS	S 1948 - 2003
ANNUAL TOTAL	1,121,144		1,319,621			
ANNUAL MEAN	3,072		3,615		2,571	
HIGHEST ANNUAL MEAN					4,115	1950
LOWEST ANNUAL MEAN					812	1954
HIGHEST DAILY MEAN	37,800	May 14	49,900	Sep 2	49,900	Sep 2, 2003
LOWEST DAILY MEAN	455	Oct 17	455	Oct 17	138	Sep 27, 1954
ANNUAL SEVEN-DAY MINIMUM	469	Oct 13	469	Oct 13	157	Sep 27, 1954
MAXIMUM PEAK FLOW			65,700	Sep 2	65,700	Sep 2, 2003
MAXIMUM PEAK STAGE			20.04	Sep 2	20.04	Sep 2, 2003
ANNUAL RUNOFF (CFSM)	1.26		1.48	•	1.05	•
ANNUAL RUNOFF (INCHES)	17.06		20.09		14.29	
10 PERCENT EXCEEDS	6,830		7,340		5,760	
50 PERCENT EXCEEDS	1,400		1,700		1,360	
90 PERCENT EXCEEDS	554		633		410	



03354000 WHITE RIVER NEAR CENTERTON, IN-Continued

WATER-QUALITY RECORDS

INSTRUMENTATION.--Temperature recorder.

PERIOD OF RECORD .--

WATER TEMPERATURE.--October 1955 to April 1956; October 1966 to September 1967; January 1970 to September 1972; August 1975 to December 1977; June 1978 to December 1978; March 1980 to October 1984; and December 1988 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--WATER TEMPERATURE: Maximum, 33.1°C, Sept. 7, 1977; minimum, -0.6°C, on a few days during 1976, 1977, 1999, and 2001.

EXTREMES FOR CURRENT YEAR.--WATER TEMPERATURE: No records.

NO DATA AVAILABLE FOR WATER YEAR 2003

03357000 WHITE RIVER AT SPENCER, IN

LOCATION.--Lat 39°16'51", long 86°45'44", in NE¹/4NE¹/4 sec.29, T.10 N., R. 3 W., Owen County, Hydrologic Unit 05120202, (SPENCER, IN quadrangle), on right bank at upstream side of county road bridge at the south edge of Spencer, 3.3 mi upstream from McBrides Creek, 14 mi northwest of Bloomington, and at mile 165.9.

DRAINAGE AREA.--2,988 mi².

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

REVISED RECORDS .-- WDR IN-95-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 526.04 ft above National Geodetic Vertical Datum of 1929. 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, 23.30 ft, Sept. 4; minimum gage height, 2.96 ft, Oct. 18.

GAGE HEIGHT, FEET WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.53	3.72	3.59	11.96	4.06	5.86	9.36	5.03	5.64	3.76	5.16	13.14
2	3.38	3.54	3.53	12.90	4.11	5.82	8.16	5.54	5.40	3.83	4.99	17.56
3	3.30	3.47	3.50	11.30	4.37	5.67	7.45	5.63	5.24	3.87	4.87	23.11
4	3.34	3.41	3.50	9.25	5.68	5.70	7.02	5.84	5.24	3.69	6.23	22.64
5	3.70	3.42	3.51	7.91	5.88	7.76	8.44	11.79	5.05	3.66	6.32	21.15
6	3.66	3.51	3.46	7.29	6.23	8.91	7.17	12.63	4.91	12.22	6.12	19.94
7	3.41	3.63	3.43	6.86	5.82	9.35	6.75	12.52	4.81	14.09	5.75	14.72
8	3.32	3.57	3.40	6.45	5.37	9.47	6.58	11.49	4.68	15.37	5.32	9.62
9	3.24	3.54	3.39	6.30	5.15	11.41	6.52	9.96	4.63	17.20	5.03	8.50
10	3.17	6.00	3.41	6.69	4.87	12.46	6.35	12.50	4.58	19.55	4.91	7.79
11	3.13	8.32	3.44	7.11	4.81	12.83	6.02	15.76	4.61	21.06	5.32	7.22
12	3.10	6.33	3.43	6.78	4.66	10.67	5.80	18.35	4.97	21.38	5.60	6.79
13	3.05	5.76	3.52	5.99	4.46	10.17	5.62	19.58	5.75	21.50	5.26	6.42
14	3.02	5.23	3.61	5.63	4.45	12.80	5.43	19.82	8.74	20.61	4.91	6.12
15	3.00	4.81	3.72	5.43	5.94	13.64	5.25	17.87	8.42	17.01	4.72	5.90
16	2.99	4.57	3.73	5.12	5.69	13.94	5.06	13.99	7.82	12.78	4.86	5.66
17	2.98	4.37	3.71	4.87	5.19	11.98	5.16	11.37	7.35	10.49	4.55	5.49
18	2.96	4.21	3.83	4.73	4.94	10.28	5.72	9.81	6.40	9.52	4.94	5.33
19	3.03	4.01	5.68	4.66	4.69	9.38	5.30	8.82	5.68	8.71	4.62	5.19
20	3.20	3.93	8.22	4.76	5.13	8.91	5.23	8.10	5.26	7.84	4.38	5.04
21	3.20	3.89	7.44	4.58	5.87	9.22	5.45	7.51	4.91	7.88	4.18	4.96
22	3.14	3.87	7.13	4.44	8.88	9.67	5.20	7.07	4.64	9.71	4.06	5.21
23	3.10	3.93	6.22	4.30	11.41	9.82	5.02	6.64	4.42	8.14	3.96	6.69
24	3.05	3.86	5.68	4.14	8.77	8.87	4.86	6.31	4.27	7.41	3.86	6.30
25	3.46	3.80	5.38	4.07	7.74	7.89	6.47	6.01	4.10	6.79	3.78	6.21
26 27 28 29 30 31	4.21 3.89 3.55 3.94 4.62 4.08	3.89 3.76 3.72 3.67 3.62	5.14 4.89 4.66 4.60 5.20 7.81	4.06 4.06 4.16 4.04 4.08 4.08	6.95 6.43 6.10 	8.43 7.64 7.80 11.78 12.35 11.83	7.81 6.62 5.88 5.60 5.25	5.75 5.64 5.50 6.18 5.62 5.62	4.00 3.99 4.00 3.87 3.80	6.37 5.97 6.27 6.01 5.62 5.36	3.74 3.68 4.11 4.21 4.77 5.31	6.44 9.61 10.85 12.24 11.22
MEAN	3.38	4.25	4.57	6.06	5.84	9.75	6.22	9.81	5.24	10.44	4.82	9.90
MAX	4.62	8.32	8.22	12.90	11.41	13.94	9.36	19.82	8.74	21.50	6.32	23.11
MIN	2.96	3.41	3.39	4.04	4.06	5.67	4.86	5.03	3.80	3.66	3.68	4.96

CAL YR 2002 MEAN 6.46 MAX 22.75 MIN 2.91 WTR YR 2003 MEAN 6.70 MAX 23.11 MIN 2.96

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03357330 BIG WALNUT CREEK NEAR ROACHDALE, IN

LOCATION.--Lat 39°48'58", long $86^{\circ}45'12$ ", in SE $^{1}_{4}$ NW $^{1}_{4}$ sec. 21, T.16 N., R.3 W., Putnam County, Hydrologic Unit 05120203, (ROACHDALE, IN quadrangle), on right upstream bank at County Road 1100 South bridge, 3.4 mi southeast of Roachdale, 9.06 mi upstream from confluence with Plum Creek, and at mile 29.16.

DRAINAGE AREA.--131 mi².

PERIOD OF RECORD .-- October 2001 to current year.

GAGE.--Water-stage recorder. Datum of gage is 800 ft above National Geodetic Vertical Datum of 1929.

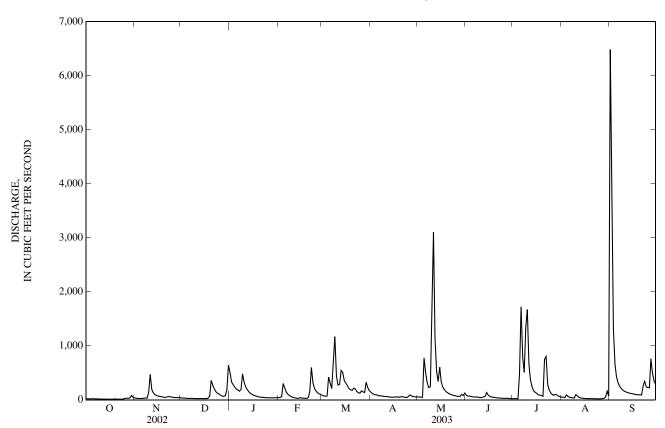
REMARKS .-- Records poor.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

					DAII	LY MEAN V	ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	22 e19 e18 e18 e20	e36 e30 e26 e24 e25	e36 e33 e32 e28 e27	e500 e330 e280 e240 e200	e40 e44 e60 e300 e220	e78 e72 e68 69 e420	143 117 101 94 92	53 55 50 47 777	88 70 70 64 56	21 23 22 19 472	51 47 45 90 63	6,490 3,980 1,310 653 423
6 7 8 9 10	e19 e18 e17 e16 e15	e27 e30 e34 e31 e140	e26 e27 e26 e24 e23	e180 e160 e190 e480 e330	e140 e100 e80 e60 e47	e310 e210 736 1,170 443	74 77 71 65 62	500 322 225 244 1,260	52 53 52 46 42	1,720 793 506 1,350 1,670	47 41 36 35 96	312 253 210 181 160
11 12 13 14 15	e14 e14 e13 e12 e12	e470 e190 e130 e94 e80	e22 e22 e23 e23 e22	e240 e190 e150 e120 e100	e39 e34 e28 e30 e40	272 284 543 508 356	61 57 52 49	3,110 1,150 527 339 602	44 54 63 135 88	667 370 244 171 139	73 46 36 e31 e27	146 135 126 119 114
16 17 18 19 20	e13 e11 e11 e17 e14	e70 e64 e58 e52 e46	e22 e24 e29 e70 e360	e84 e74 e66 e58 e52	e33 e30 e28 e27 e40	312 261 209 185 174	49 57 54 48 54	334 234 186 153 131	65 55 49 45 40	120 90 89 78 65	e25 e23 e21 21 23	106 100 95 93 93
21 22 23 24 25	e13 e12 e12 e11 e16	e46 e56 e60 e55 e50	e270 e200 e150 e120 e110	e48 e46 e42 e40 e39	e160 e600 e320 e210 e160	213 204 156 130 122	58 51 47 43 64	112 99 89 81 75	35 33 32 29 27	745 802 282 180 126	20 19 19 19	91 256 344 242 224
26 27 28 29 30 31	e27 e29 e28 e35 e80 e49	e44 e42 e40 e40 e42	e86 e70 e64 e74 e190 e640	e39 e38 e38 e39 e38 e39	e130 e110 e100	166 147 135 324 228 169	91 71 61 57 53	e67 e63 62 100 79 126	28 29 25 24 23	97 83 103 88 68 58	19 23 26 54 162 71	225 759 491 346 285
TOTAL MEAN MAX MIN CFSM IN.	625 20.2 80 11 0.15 0.18	2,132 71.1 470 24 0.54 0.61	2,873 92.7 640 22 0.71 0.82	4,470 144 500 38 1.10 1.27	3,210 115 600 27 0.88 0.91	8,674 280 1,170 68 2.14 2.46	2,022 67.4 143 43 0.51 0.57	11,252 363 3,110 47 2.77 3.20	1,516 50.5 135 23 0.39 0.43	11,261 363 1,720 19 2.77 3.20	1,328 42.8 162 19 0.33 0.38	18,362 612 6,490 91 4.67 5.21
STATIST	TICS OF M	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	2002 - 2003	BY WATE	R YEAR (W	Y)			
MEAN MAX (WY) MIN (WY)	20.2 20.2 (2003) 20.2 (2003)	86.1 101 (2002) 71.1 (2003)	204 315 (2002) 92.7 (2003)	95.8 144 (2003) 47.4 (2002)	177 239 (2002) 115 (2003)	321 363 (2002) 280 (2003)	236 406 (2002) 67.4 (2003)	526 688 (2002) 363 (2003)	129 207 (2002) 50.5 (2003)	206 363 (2003) 48.5 (2002)	41.5 42.8 (2003) 40.2 (2002)	320 612 (2003) 28.0 (2002)
SUMMA	RY STATI	STICS	1	FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	EAR	WATER	YEARS 200	2 - 2003
ANNUAI HIGHES' LOWEST HIGHES' LOWEST ANNUAI MAXIMU MAXIMU ANNUAI ANNUAI 10 PERC' 50 PERC'	ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				May Sep	12	6,49	90 Sep 11 Oct 12 Oct	17 12 1	1 6,4 11,3	5.2 Se 5.5 Se 00 Se	2003 2003 p 1, 2003 p 12, 2002 p 12, 2002 p 1, 2003 p 1, 2003
70 I LIKE	LIVI LACE			13	,		-					

e Estimated

03357330 BIG WALNUT CREEK NEAR ROACHDALE, IN—Continued



03357330 BIG WALNUT CREEK NR ROACHDALE, IN-Continued

[(National Water-Quality Assessment Program), White River Basin, Miami River Basin Study Unit]

WATER-QUALITY RECORDS

These data described in the following table were collected and analyzed as part of the National Water Quality Assessment Program (NAWQA) in the White River Basin, Miami River Basin (WHMI) study units. The objectives of the NAWQA program are to broadly characterize the water-quality of the Nation's streams and aquifers in relation to human and natural factors. This project is one of 42 river basin and aquifer assessment projects being implemented across the nation on a staggered timeline. During the second decade of sampling, 14 of these projects will be actively collecting data. The period of high-intensity data collection for the WHMI project is in water years 2001-2004.

Water quality data from four stream sites in Indiana and two stream sites in Ohio are being reported as part of the NAWQA study: Big Walnut Creek nr Roachdale, IN (03357330), Little Buck Creek nr Indianapolis, IN (03353637), Sugar Creek at Co. Rd. 400S at New Palestine, IN (394340085524601), White River at Hazleton, IN (03374100), Holes Creek at Huffman Park at Kettering, OH (393944084120700), Mad River at St. Paris Pike near Eagle City, OH (03267900). Additionally, continuous monitor data, water temperature, dissolved oxygen, specific conductance, and pH were collected for all sites except Sugar Creek at Co. Rd. 400S at New Palestine, IN (394340085524601), which were instead collected at Sugar Creek at New Palestine, IN (03361650).

These data can also be obtained electronically at http://in.water.usgs.gov or at http://oh.water.usgs.gov.

(---, no data: <, concentration or value reported is less than that indicated: E, estimated value: K, value is estimated from a non-ideal colony count: M, presence verified, not quantified).

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	8.4 8.2 8.2 8.1 8.5	8.4 8.4 8.4 8.3	 	 	 	 	 	 	 	 	7.9 7.9 7.9 8.0 7.9	7.7 7.5 7.6 7.8 7.9
6 7 8 9 10	8.6 8.6 8.5 8.4	8.3 	 	 	 	 	 	 	 	 	7.9 7.9 7.8 7.9 7.9	8.0 8.0 8.0
11 12 13 14 15	8.3 8.3 8.4 8.4	7.6 7.7 7.8 	 	 	 	 	 	 	 	 	7.9 8.1 8.1 8.0 7.9	
16 17 18 19 20	8.4 8.4 8.4 8.4 8.4	8.1 8.2 	 	 	 	 	 	 	 	 	7.9 7.9 8.0 8.0 8.0	
21 22 23 24 25	8.4 8.4 8.4 8.4 8.3	 	 	 	 	 	 	 	 	 	8.0 8.0 8.0 8.0	
26 27 28 29 30 31	8.4 8.4 8.3 8.3 8.3	 	 	 	 	 	 	 	 	 	8.0 8.0 8.0 7.9 7.8 7.8	
MED												

03357330 BIG WALNUT CREEK NR ROACHDALE, IN—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	12.0										e7.5
2	8.3	12.9										6.9
3	7.4	12.8										7.9
4	6.0	12.7										8.5
5		11.9										9.0
6		11.9										9.0
7												9.1
8		e15.5										9.0
9		e13.0										e8.8
10	e11.0	e10.2										
11	10.0	8.0										
12	8.9										e9.5	
13	9.5										8.7	
14	10.5										8.2	
15	11.1										7.7	
16	11.0										7.4	
17	11.2										7.4	
18	11.6										7.6	
19	10.6										7.9	
20	11.0										7.9	
21	11.5										7.8	
22	11.8										7.2	
23	12.1										7.5	
24	11.8										7.9	
25	10.9										7.2	
26	e10.7										6.7	
27	11.3										5.8	
28	11.3										5.9	
29	10.9										e5.1	
30	11.2											
31	11.5											

e Estimated

263 03357330 BIG WALNUT CREEK NR ROACHDALE, IN—Continued

TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	22.3 23.6 23.9 23.2 20.0	9.1 7.2 6.9 7.8 8.3	2.5 2.6 2.5 1.8 1.9	6.4 5.1 4.4 3.5 4.3	1.8 1.6 1.6	3.9 4.3 3.4 4.6 4.2	12.5 15.6 17.4 17.8 13.1	20.8 18.2 17.1 15.5 14.8	16.4 16.2 e15.4 15.8 18.0	26.8 27.3 27.9 28.9 25.1	25.2 25.1 24.9 24.6 24.2	22.1 22.0 21.5 21.3 20.4
6 7 8 9 10	18.0 16.7 15.0 15.5 16.0	8.1 e10.2 e11.5 e14.0	1.8 1.8 1.9 1.8 1.8	5.1 e4.0 	1.6 1.7 1.7 1.7	3.1 4.0 4.8 2.9 2.6	8.8 8.3 8.6 8.2 10.2	16.2 16.7 e16.9 18.7 19.5	18.0 20.5 20.1 e21.0 20.8	23.3 24.1 25.1 23.0 22.3	24.5 25.3 25.2 24.5 23.6	20.3 20.4 21.1 e21.0
11 12 13 14 15	17.2 17.9 16.2 12.8 12.4	12.6 10.8 9.7 e10.5 e10.6	1.9 2.0 2.0 2.3 3.2	 	1.7 1.7 1.7 1.7	4.0 5.8 5.9 5.5 7.6	12.7 14.4 14.7 16.1 18.5	18.1 15.3 16.2 16.6 15.7	22.0 22.8 22.2 21.0 22.6	22.0 22.0 22.4 23.2 22.5	23.8 23.8 24.4 26.1 27.2	
16 17 18 19 20	12.3 11.5 11.7 13.5 11.5	8.1 6.9 e5.6 8.7	3.8 3.8 6.5 9.2 7.7	 	1.6 1.7 1.7 1.7 1.8	9.7 11.0 12.0 12.1 13.0	19.0 17.7 16.6 17.7 19.1	16.8 17.3 17.9 18.8 18.1	23.1 24.0 24.5 24.0 22.8	23.4 24.3 24.4 25.0 24.9	27.7 27.3 26.0 25.3 25.8	
21 22 23 24 25	11.0 11.1 10.9 11.2 10.6	8.6 7.1 6.1 6.2 6.3	6.1 6.1 4.3 3.7 2.0	 	1.7 1.7 2.0 2.2 2.2	12.5 10.6 11.0 12.9 13.2	16.1 13.6 13.8 13.7 12.8	16.8 16.9 16.8 17.1 17.0	22.9 23.7 24.5 25.8 26.8	23.5 22.1 21.6 21.9 22.4	26.7 28.2 26.5 25.5 26.2	
26 27 28 29 30 31	e11.0 11.7 11.9 10.5 9.6 10.2	4.9 4.6 3.8 4.2 5.0	2.2 2.2 3.1 3.5 6.2 8.2	 	2.2 2.3 2.7 	11.9 12.4 13.3 10.0 7.8 8.8	14.3 16.4 17.5 19.4 20.8	e17.0 17.9 17.8 17.0 17.0	25.9 24.2 23.7 24.9 26.2	23.1 24.1 23.3 e23.1 23.8 24.4	27.1 28.3 28.0 26.8 24.6 23.0	

e Estimated

03357330 BIG WALNUT CREEK NR ROACHDALE, IN—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	658	671							592	e625	557	191
2	650	681							608	619	540	202
3	641	685							e640	616	553	300
4	635	690							619	604	514	376
5	640	688							605	403	512	416
	0.10									103	312	110
6	655	686							606	290	512	445
7	663								598	355	502	466
8	661	e673							596	391	500	488
9	654	e680						578	e589	315	494	e498
10	644	e615						447	590	331	512	
1.1	(20	475						246	501	421	406	
11	628	475						246	591	431	496	
12	618	554						331	584	491	552	
13	631	607						405	580	527	591	
14	653	e640						448	521	553	608	
15	661	e660						400	558	569	619	
16	657	671						472	583	568	626	
17	654	682						512	583	574	629	
18	650	e685						536	581	568	632	
19	615							552	584	585	638	
20	627							565	586	582	641	
21	637							576	589	386	642	
22	650							584	592	331	637	
23	648							589	596	406	636	
24	666							591	599	456	634	
25	643							587	599	571	634	
26	e645							e585	e598	569	633	
27	665									510	625	
28	659							566		505	613	
29	647							569		e560	600	
30	630							583		572	423	
31	647							589		561	454	
J 1	07/							567		501	サン サ	

e Estimated

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Alkalinity, wat flt fxd end field, mg/L as CaCO3 (39036)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)
OCT													
10 NOV	1430	29	744	14.3	8.5	630	21.0	15.0	230	228	275	1	34.0
07	1240	173	751	15.9	8.1	698	14.0	5.5	270	269	E324	E2	30.2
DEC 10	1430	87	750	15.8	8.1	728	3.0	0.5	270	268	E324	E1	31.0
JAN 22	1100	89	758		8.0	731	<-5.0	0.0	280	275	332	2	27.7
FEB 10	1240	74	739		8.2	688	0.0	0.0					29.0
MAR 04	1130	62	740	15.2	8.3	603	8.0	3.0	280	272	E330	E1	37.4
APR 02	1220	117	736	13.9	8.5	608	29.0	13.5	240	239	E285	E3	27.0
MAY 08	1320	222	738	10.3	8.2	623	21.0	15.0	230	224	E273	E1	26.5
JUN 03	1430	71	732	9.1	8.3	634	14.0	14.0	250	250	E305	<1	26.7
JUL 01	1230	21	731	10.7	8.3	652	30.0	25.5	250	253	E308	<1	31.4
AUG 12	1100	46	736	9.6	8.2	573	29.0	21.5	230	233	284	<1	24.2
SEP 09	1000	184	739	9.0	8.0	570	26.0	19.5	240	246	300	<1	19.1

03357330 BIG WALNUT CREEK NR ROACHDALE, IN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Sulfate water, fltrd, mg/L (00945)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Particulate nitrogen, susp, water, mg/L (49570)	Phosphorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)
OCT													
10 NOV	49.9	0.43	< 0.04	0.59	0.010	< 0.02	0.19	0.034	1.7	< 0.1	1.6	4.0	38
07	46.9	0.48	< 0.04	2.25	0.012	< 0.02	0.17	0.051	0.8	< 0.1	0.8	3.7	36
DEC													_
10 JAN	55.8	0.18	< 0.04	1.95	0.008	< 0.02	< 0.02	0.014	0.1	< 0.1	0.1	3.2	7
22	50.4	0.21	< 0.04	3.82	0.009	E0.01	0.07	0.012	0.1	< 0.1	< 0.1	2.7	38
FEB													
10 MAR	46.1	< 0.50	< 0.04	3.46	0.021	< 0.09	0.03	0.029	0.3	< 0.1	0.3	3.4	15
04	45.3	0.25	< 0.04	2.57	0.095	< 0.02	0.03	0.043	0.2	< 0.1	0.2	4.2	71
APR													
02 MAY	37.9	0.27	< 0.04	3.89	0.023	< 0.02	0.12	0.024	0.6	< 0.1	0.6	2.5	70
08	32.5	0.63	< 0.04	7.21	0.126	< 0.02	0.16	0.088	1.3	< 0.1	1.3	3.2	83
JUN	20.4		0.04		0.000	0.00	0.00	0.005		0.4			
03 JUL	39.1	0.35	< 0.04	4.26	0.032	< 0.02	0.08	0.025	0.7	< 0.1	0.7	2.3	61
01	44.9	0.37	< 0.04	1.20	0.025	< 0.02	0.09	0.058	0.6	< 0.1	0.6	3.5	69
AUG													
12 SEP	29.4	0.84	< 0.04	1.92	0.052	< 0.02	0.09	0.068	0.6	< 0.1	0.6	3.7	61
09	30.6	0.44	< 0.04	1.51	0.052	< 0.02	0.06	0.117	0.4	< 0.1	0.3	3.6	

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Suspended sediment concentration mg/L (80154)
OCT	
10 NOV	3
07	10
DEC 10	22
JAN	22
22	14
FEB 10	38
MAR	
04 APR	3
02	17
MAY 08	49
JUN	7/
03	22
JUL 01	12
AUG	20
12 SEP	20
09	9

03357350 PLUM CREEK NEAR BAINBRIDGE, IN

 $LOCATION.--Lat\ 39^{\circ}45'42'',\ long\ 86^{\circ}43'46'',\ in\ SW^{1}{}_{4}'SE^{1}{}_{4}'\ sec.3,\ T.15\ N.,\ R.3\ W.,\ Putnam\ County,\ Hydrologic\ Unit\ 05120203,\ (NORTH\ SALEM,\ IN\ quadrangle),\ on\ right\ upstream\ wingwall\ of\ bridge\ on\ U.S.\ Highway\ 36,\ 0.5\ mi\ west\ of\ Groveland,\ and\ 4.5\ mi\ east\ of\ Bainbridge.$

DRAINAGE AREA.--3.00 mi².

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

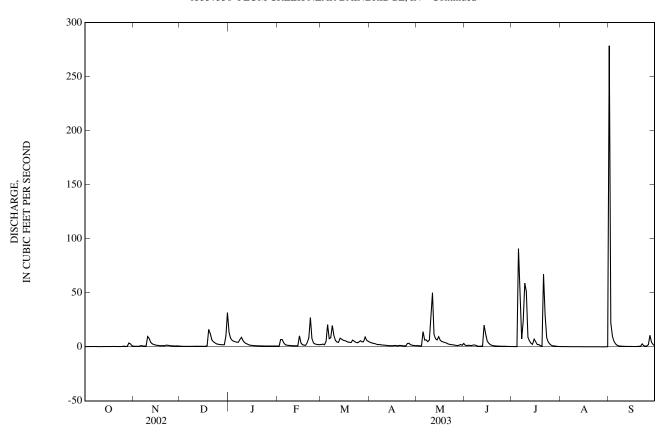
GAGE.--Water-stage recorder. Datum of gage is 828.44 ft above National Geodetic Vertical Datum of 1929 (Indiana Department of Highways bench mark). REMARKS.--Records poor.

					YEAR OCT		ET PER SEC 2 TO SEPTE / ALUES		i			
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.21 0.20 0.20 0.26 0.27	0.60 0.48 0.46 0.46 0.61	0.56 e0.49 e0.45 e0.44 e0.44	13 8.0 6.0 5.1 4.7	e0.71 e0.73 6.8 6.7 3.7	2.1 2.5 1.9 5.0 21	4.3 3.7 3.3 3.0 2.5	1.1 1.0 0.90 0.97 14	1.5 1.2 1.4 1.2 1.2	0.29 0.28 0.24 0.23 91	0.26 0.24 0.22 0.21 0.18	279 22 10 5.1 2.7
6 7 8 9 10	0.26 0.24 0.24 0.24 0.23	1.1 0.75 0.65 0.62 9.6	e0.43 e0.43 e0.42 e0.42 0.49	4.2 4.3 6.9 8.7 5.6	e1.9 e1.5 e1.3 e1.2 e1.0	7.5 8.3 20 11 6.0	2.0 2.2 1.8 1.7 1.5	6.3 6.5 4.8 6.2 30	1.6 1.7 1.2 0.52 0.48	51 7.3 24 59 51	0.17 0.15 0.14 0.13 0.13	1.4 0.87 0.68 0.57 0.48
11 12 13 14 15	0.23 0.24 0.25 0.25 0.25	7.8 3.9 2.7 2.1 1.7	0.49 0.49 0.49 0.49 0.47	3.9 e3.0 e2.3 e1.7 e1.4	e0.98 e0.94 e0.91 e0.99	4.5 4.1 8.0 7.0 6.0	1.5 1.3 1.1 1.0 0.99	50 12 7.4 6.3 9.3	0.54 0.80 20 12 5.4	9.0 5.6 3.3 2.2 7.1	0.13 0.13 0.11 0.10 0.09	0.42 0.38 0.35 0.35 0.32
16 17 18 19 20	0.25 0.25 0.24 0.32 0.26	1.4 1.2 0.98 1.1 0.99	0.44 0.41 0.98 16 12	e1.2 e1.1 e1.0 e0.94 e0.90	3.5 e1.9 e1.5 e1.4 e4.0	5.7 5.1 4.3 4.2 4.0	0.99 1.3 1.1 0.95 1.3	6.1 4.9 4.4 3.9 3.4	3.3 2.0 1.3 1.0 0.80	4.5 2.1 2.1 1.0 0.61	0.07 0.07 0.07 0.07 0.07	0.28 0.26 0.26 0.37 0.48
21 22 23 24 25	0.25 0.25 0.25 0.25 0.41	1.1 1.5 1.4 1.2 0.96	6.4 4.7 3.7 e2.7 e2.4	e0.84 e0.81 e0.79 e0.75 e0.75	8.1 27 7.8 e3.5 e2.6	6.2 5.2 4.2 3.7 4.4	1.1 0.97 0.84 0.83 3.1	2.7 2.3 2.0 1.8 1.6	0.72 0.64 0.58 0.53 0.48	67 29 8.4 4.6 2.6	0.07 0.07 0.07 0.07 0.06	0.49 2.7 1.1 0.68 0.72
26 27 28 29 30 31	0.60 0.34 0.31 3.4 2.7 0.97	0.88 0.81 0.80 0.86 0.74	e2.1 e2.0 e1.9 e1.9 10 32	e0.74 e0.73 e0.73 e0.72 e0.72 e0.71	e2.3 e2.0 2.0	5.6 4.6 4.8 9.1 6.1 5.0	3.2 1.9 1.5 1.3 1.1	1.4 1.2 1.4 2.2 1.4 3.1	0.48 0.45 0.38 0.34 0.31	1.4 0.83 0.81 0.60 0.37 0.31	0.02 0.00 0.00 0.06 0.02 0.11	1.9 11 4.2 2.1 1.1
TOTAL MEAN MAX MIN CFSM IN.	14.62 0.47 3.4 0.20 0.16 0.18	49.45 1.65 9.6 0.46 0.55 0.61	106.63 3.44 32 0.41 1.15 1.32	92.23 2.98 13 0.71 0.99 1.14	106.96 3.82 27 0.71 1.27 1.33	197.1 6.36 21 1.9 2.12 2.44	53.37 1.78 4.3 0.83 0.59 0.66	200.57 6.47 50 0.90 2.16 2.49	64.05 2.13 20 0.31 0.71 0.79	437.77 14.1 91 0.23 4.71 5.43	3.29 0.11 0.26 0.00 0.04 0.04	352.26 11.7 279 0.26 3.91 4.37
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1969 - 2003	, BY WATE	R YEAR (W	YY)			
MEAN MAX (WY) MIN (WY)	1.44 12.5 (2002) 0.000 (1997)	3.59 20.6 (1986) 0.000 (1998)	4.52 18.4 (1991) 0.000 (1998)	3.72 13.5 (1974) 0.000 (1977)	5.57 17.1 (1971) 0.55 (1998)	6.49 19.1 (1978) 1.46 (1981)	5.46 12.7 (1996) 0.92 (1971)	4.43 16.7 (2002) 0.14 (1976)	2.80 13.7 (1998) 0.007 (1988)	2.48 14.1 (2003) 0.019 (1988)	1.08 7.90 (1979) 0.001 (1991)	1.35 12.8 (1989) 0.000 (1988)
SUMMA	RY STATIS	STICS	1	FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	/EAR	WATER	YEARS 1	969 - 2003
ANNUAI HIGHES' LOWEST HIGHES' LOWEST ANNUAI MAXIMU MAXIMU ANNUAI ANNUAI 10 PERC 50 PERC	Γ ANNUAL Γ ANNUAL Γ DAILY M Γ DAILY M	MEAN IEAN EAN AY MINIM FLOW STAGE (CFSM) (INCHES) EDS EDS	UM	190 ((19	1.42	11	27 45	0.00 Aug 0.03 Aug 66 Ju	0 1 g 27 g 24 1 5		0.00 A 0.00 A	2002 2000 Sep 1, 2003 Aug 18, 1970 Aug 26, 1970 Sep 14, 1989 Sep 14, 1989

e Estimated

267

03357350 PLUM CREEK NEAR BAINBRIDGE, IN—Continued



03357500 BIG WALNUT CREEK NEAR REELSVILLE, IN

LOCATION.--Lat 39°32'11", long 86°58'35", in NW¹/₄SW¹/₄ sec.28, T.13 N., R.5 W., Putnam County, Hydrologic Unit 05120203, (REELSVILLE, IN quadrangle), on left bank at downstream side of county highway bridge, 1.5 mi southwest of Reelsville, 3.8 mi southwest of Manhattan, and 4.1 mi upstream from Mill Creek.

DRAINAGE AREA.--326 mi².

PERIOD OF RECORD.--July 1949 to September 2002 (discharge). October 2002 to current year (stage only). Published as Eel River near Reelsville, October 1952 to September 1956.

REVISED RECORDS.--WSP 1335: 1950. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 588.24 ft above National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to Dec. 10, 1949, nonrecording gage at same site and datum.

REMARKS.--Flow partly regulated by Soil Conservation Service control structures on tributaries to Little Walnut Creek beginning in 1971.

EXTREMES FOR PERIOD OF RECORD.--(October 2002 to current year) maximum gage height, 18.63 ft, June 28, 1957; mimimum gage height unknown prior to 1988; (since 1988), minimum gage height, 1.62 ft, Oct. 5, 1991. (July 1949 to September 2002) maximum discharge, 30,700 ft³/s, June 28, 1957, gage height, 18.63 ft; minimum discharge, 1.4 ft³/s, Sept. 8, 1954.

EXTREMES FOR CURRENT YEAR .-- Maximum gage height, 16.63 ft, Sept. 3; minimum gage height, 2.87 ft, Aug. 28.

GAGE HEIGHT, FEET WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.10	3.42	3.34	6.78	3.67	4.09	4.55	3.80	3.98	3.06	3.68	15.14
2	3.04	3.31	3.28	5.71	3.70	4.12	4.38	3.76	3.80	3.04	3.62	16.58
3	3.01	3.25	3.26	5.15	4.83	4.06	4.25	3.67	3.80	3.04	3.58	9.00
4	3.04	3.22	3.18	4.86	4.89	4.45	4.22	3.70	3.74	3.01	3.56	6.89
5	3.03	3.26	3.25	4.73	4.65	6.38	4.14	7.45	3.65	5.76	3.64	6.02
6	3.02	3.30	3.23	4.61	4.20	5.51	4.02	5.79	3.58	9.42	3.51	5.51
7	3.01	3.46	3.22	4.51	4.02	4.95	4.02	5.61	3.54	6.67	3.45	5.18
8	2.98	3.39	3.20	4.56	4.07	5.48	3.95	5.06	3.50	5.83	3.40	4.94
9	2.97	3.34	3.10	5.42	3.85	6.74	3.88	5.11	3.46	12.38	3.34	4.75
10	2.95	5.98	3.13	5.01	3.72	5.54	3.82	12.03	3.42	11.44	3.30	4.60
11	2.94	5.53	3.18	4.50	3.80	5.04	3.78	13.44	3.41	8.00	3.54	4.48
12	2.92	4.65	3.18	4.52	3.80	4.97	3.73	8.34	3.82	6.35	3.42	4.38
13	2.90	4.25	3.19	4.30	3.82	5.71	3.67	6.62	6.17	5.55	3.34	4.30
14	2.89	4.02	3.18	4.09	3.70	5.66	3.63	5.86	5.42	5.10	3.28	4.25
15	2.89	3.89	3.17	4.24	4.88	5.28	3.59	6.26	4.70	8.38	3.22	4.18
16	2.90	3.76	3.16	4.16	4.40	5.11	3.56	5.46	4.25	5.63	3.18	4.11
17	2.88	3.66	3.15	4.25	4.09	4.93	3.72	5.08	4.00	4.98	3.14	4.06
18	2.89	3.61	3.66	4.02	3.89	4.71	3.62	4.84	3.82	4.88	3.09	4.01
19	3.08	3.56	6.31	4.00	3.83	4.66	3.56	4.62	3.70	4.58	3.06	3.95
20	3.00	3.52	6.22	3.92	4.48	4.55	4.05	4.46	3.59	4.37	3.04	3.92
21	2.99	3.52	5.19	3.82	4.88	5.18	3.81	4.29	3.50	6.61	3.02	3.93
22	2.98	3.54	4.71	3.92	7.92	4.88	3.68	4.16	3.43	6.99	2.99	4.30
23	2.94	3.60	4.38	3.72	5.66	4.61	3.58	4.06	3.38	5.58	2.95	4.80
24	2.92	3.58	4.25	3.70	4.95	4.43	3.54	3.97	3.33	4.96	2.93	4.47
25	3.29	3.52	4.23	3.65	4.60	4.78	5.48	3.89	3.28	4.57	2.91	4.32
26 27 28 29 30 31	3.21 3.35 3.23 3.51 3.72 3.57	3.46 3.42 3.39 3.37 3.36	4.01 3.86 3.84 3.84 4.85 8.67	3.64 3.70 3.66 3.67 3.65 3.65	4.36 4.19 4.12 	4.79 4.58 5.06 5.65 5.05 4.74	4.62 4.24 4.05 3.92 3.83	3.83 3.75 3.78 3.95 3.88 4.16	3.25 3.23 3.18 3.14 3.10	4.31 4.14 4.09 4.03 3.87 3.76	2.90 2.89 2.87 3.10 3.66 3.85	4.94 6.41 5.46 4.94 4.65
MEAN	3.07	3.70	3.95	4.33	4.39	5.02	3.96	5.31	3.74	5.63	3.27	5.62
MAX	3.72	5.98	8.67	6.78	7.92	6.74	5.48	13.44	6.17	12.38	3.85	16.58
MIN	2.88	3.22	3.10	3.64	3.67	4.06	3.54	3.67	3.10	3.01	2.87	3.92

WTR YR 2003 MEAN 4.33 MAX 16.58 MIN 2.87

03358000 MILL CREEK NEAR CATARACT, IN

 $LOCATION.--Lat~39^{\circ}26'00", long~86^{\circ}45'48", in~NE^{1}_{4}SE^{1}_{4}~sec. 32, T.12~N., R.3~W., Owen~County, Hydrologic~Unit~05120203, (CATARACT, IN~quadrangle), on right bank at downstream side of bridge on U.S. Highway 231, 3 mi east of Cataract, 5.7 mi south of Cloverdale, and at mile 17.5.$

DRAINAGE AREA.--245 mi².

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

REVISED RECORDS.--WSP 1505: 1956(P). WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 706.40 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 8, 1949, nonrecording gage, and Nov. 8, 1949, to Sept. 22, 1968, water-stage recorder at site 100 ft upstream at same datum.

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

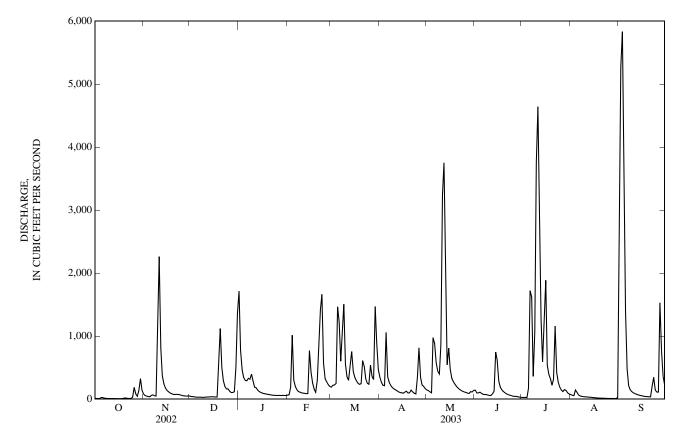
EXTREMES FOR PERIOD OF RECORD.--Maximum instantaneous gage height may have occurred Dec. 30, 1990, during period of no gage height record.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	14	82	44	1,710	e62	191	350	146	143	27	70	2,610	
2	12	57	40	774	e70	221	267	135	98	27	62	5,270	
3	10	48	40	465	190	225	220	116	100	29	57	5,830	
4	11	42	e31	342	1,010	250	214	101	110	24	146	4,250	
5	27	38	e33	297	e300	1,460	1,060	976	91	171	108	1,400	
6	23	59	e32	292	e200	1,220	356	882	76	1,720	66	478	
7	17	68	e31	331	e150	602	262	579	74	1,620	52	217	
8	13	55	e31	316	e120	1,020	218	444	72	362	45	150	
9	11	50	e28	397	e110	1,510	184	399	65	1,070	40	120	
10	10	1,450	31	284	e100	554	163	861	58	3,760	38	101	
11	10	2,260	34	188	e96	359	149	3,240	59	4,640	36	87	
12	10	814	35	e180	e92	299	134	3,750	86	3,470	33	77	
13	9.5	370	35	e140	e87	551	115	1,650	126	1,280	31	69	
14	9.2	243	39	e120	e90	756	105	544	745	590	30	62	
15	8.7	179	38	e105	769	439	101	808	618	1,360	26	56	
16	9.0	138	36	e95	e430	346	95	473	282	1,890	23	50	
17	8.9	116	33	e88	e260	293	113	328	189	537	22	45	
18	8.8	97	34	e84	e160	254	127	277	146	392	19	41	
19	12	86	687	e78	e110	235	97	237	120	328	17	40	
20	18	76	1,120	e74	296	245	102	201	101	220	16	38	
21	16	74	500	e69	817	611	144	176	82	319	15	36	
22	13	77	294	e66	1,410	523	115	154	72	1,160	14	208	
23	11	75	200	e62	1,660	321	93	138	63	422	13	347	
24	11	70	163	e60	573	253	82	124	55	270	12	146	
25	31	63	163	e58	325	237	351	114	48	189	12	113	
26 27 28 29 30 31	188 84 46 139 325 141	56 52 50 49 53	127 105 107 116 505 1,360	e60 e58 e58 e60 e58 e58	276 231 205 	540 365 311 1,470 892 471	814 345 225 203 168	106 96 88 119 114 141	44 44 39 34 30	143 121 151 139 102 82	11 11 11 9.7 10 28	113 1,530 768 357 226	
TOTAL	1,257.1	6,947	6,072	7,027	10,199	17,024	6,972	17,517	3,870	26,615	1,083.7	24,835	
MEAN	40.6	232	196	227	364	549	232	565	129	859	35.0	828	
MAX	325	2,260	1,360	1,710	1,660	1,510	1,060	3,750	745	4,640	146	5,830	
MIN	8.7	38	28	58	62	191	82	88	30	24	9.7	36	
CFSM	0.17	0.95	0.80	0.93	1.49	2.24	0.95	2.31	0.53	3.50	0.14	3.38	
IN.	0.19	1.05	0.92	1.07	1.55	2.58	1.06	2.66	0.59	4.04	0.16	3.77	
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1950 - 2003,	BY WATE	R YEAR (W	Y)				
MEAN	80.6	228	308	342	409	493	420	351	241	194	102	94.5	
MAX	878	1,576	1,135	2,214	1,088	1,425	1,064	1,522	1,120	1,694	1,092	918	
(WY)	(2002)	(1994)	(1958)	(1950)	(1971)	(1963)	(1964)	(1981)	(1957)	(1979)	(1993)	(1989)	
MIN	2.88	4.19	4.05	6.55	41.1	108	74.5	35.1	11.2	6.84	3.72	0.91	
(WY)	(1965)	(2000)	(1964)	(1977)	(1954)	(1994)	(1971)	(1954)	(1988)	(1954)	(1954)	(1954)	

03358000 MILL CREEK NEAR CATARACT, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALENI	OAR YEAR	FOR 2003 WAT	ΓER YEAR	WATER YEARS 1950 - 200		
ANNUAL TOTAL	118,162.5		129,418.8				
ANNUAL MEAN	324		355		271		
HIGHEST ANNUAL MEAN					528	1979	
LOWEST ANNUAL MEAN					37.3	1954	
HIGHEST DAILY MEAN	6,050	May 14	5,830	Sep 3	11,500	Dec 30, 1990	
LOWEST DAILY MEAN	3.8	Sep 12	8.7	Oct 15	0.10	Sep 7, 1954	
ANNUAL SEVEN-DAY MINIMUM	4.1	Sep 9	9.2	Oct 12	0.20	Sep 2, 1954	
MAXIMUM PEAK FLOW		1	5,950	Sep 3	12,200	Dec 30, 1990	
MAXIMUM PEAK STAGE			17.62	Sep 3	22.58	Jun 24, 1960	
ANNUAL RUNOFF (CFSM)	1.32		1.45	•	1.11		
ANNUAL RUNOFF (INCHES)	17.94		19.65		15.04		
10 PERCENT EXCEEDS	760		869		587		
50 PERCENT EXCEEDS	85		115		82		
90 PERCENT EXCEEDS	10		23		8.0		

e Estimated



03359000 MILL CREEK NEAR MANHATTAN, IN

LOCATION.--Lat 39°29'16", long 86°55'30", in SE\frac{1}{4}SE\frac{1}{4}Se\frac{11}{4}Se\frac{12}{1}N., R.5 W., Putnam County, Hydrologic Unit 05120203, (POLAND, IN quadrangle), 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 September 1976 (discharge). October 1976 to September 2001 (discharge provided by U.S. Army Corps of Engineers). October 2001 to current year (stage-only). 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 National Geodetic Vertical Datum of 1929. May 12, 1941 to Sept. 30, 1974, water-stage recorder at site 0.3 mi downstream. See WSP 1725 for history of changes prior to May 12, 1941.

REMARKS.--Flow regulated by U.S. Army Corps of Engineers from Cagles Mill Lake since July 1953.

COOPERATION.--Records of daily discharge provided by U.S. Army Corps of Engineers September 1976 to September 2001.

EXTREMES FOR PERIOD OF RECORD.--(October 2001 to current year) maximum gage height, 14.30 ft, Sept. 2, 2003, minimum gage height, 8.14 ft, Oct. 30, 2001. (October 1938 to September 1976) maximum discharge, 8,960 ft³/s, Jan. 5, 1950, gage height 18.38 ft; no flow Aug. 7, 1953.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 14.30 ft, Sept. 2; minimum gage height, 8.20 ft, Oct. 4.

GAGE HEIGHT, FEET WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.42	8.39	8.41	8.70	8.61	10.14	9.43	8.94	10.79	8.32	11.02	13.98
2	8.42	8.40	8.42	8.70	8.42	10.13	10.45	8.94	10.76	8.32	11.00	10.71
3	8.42	8.40	8.42	8.71	8.46	10.12	10.70	8.65	10.73	8.32	10.98	8.38
4	8.42	8.73	8.42	9.48	8.91	10.11	10.11	8.66	9.40	8.31	10.96	8.38
5	8.42	8.74	8.42	9.48	10.14	9.41	10.12	8.67	8.93	8.33	10.94	8.52
6	8.90	8.43	8.42	9.90	10.13	9.43	10.12	8.67	8.64	8.32	10.92	8.52
7	8.90	8.69	8.35	10.21	9.79	10.17	10.10	8.68	8.65	8.32	11.14	8.52
8	8.90	8.69	8.35	10.47	8.31	10.17	10.09	8.69	8.38	8.33	11.11	9.02
9	8.60	8.68	8.35	10.46	8.31	10.19	8.92	8.69	8.39	8.52	11.08	9.02
10	8.60	8.67	8.35	10.44	8.71	10.19	8.92	9.38	8.39	9.78	11.05	10.06
11	8.38	8.68	8.35	10.42	8.76	10.18	8.92	9.46	8.69	8.37	11.02	10.72
12	8.38	9.92	8.41	9.80	8.76	10.17	8.76	8.70	8.69	8.36	10.99	11.01
13	8.30	10.23	8.41	9.79	8.76	10.17	8.75	8.71	8.69	8.36	10.70	10.99
14	8.31	10.22	8.71	8.90	8.76	10.17	8.75	8.71	8.69	8.36	9.38	10.98
15	8.31	10.21	8.37	8.42	8.77	10.17	8.75	8.71	8.95	8.41	9.37	10.96
16	8.30	10.19	8.37	8.42	9.00	10.16	8.75	8.71	9.85	8.37	8.32	10.94
17	8.30	10.18	8.37	8.75	9.00	10.15	8.75	8.71	9.84	8.39	8.21	10.92
18	8.30	10.16	8.41	8.75	9.84	8.93	8.76	8.71	9.83	8.38	8.33	10.90
19	8.37	9.81	8.92	8.75	9.83	8.93	8.76	9.65	8.93	9.14	8.33	10.88
20	8.37	9.41	8.93	8.41	9.82	8.93	8.76	9.64	8.40	9.65	8.36	10.85
21	8.37	8.41	9.44	8.41	9.83	8.94	8.76	10.40	8.40	9.65	8.36	10.84
22	8.37	8.73	10.17	8.46	9.86	9.46	8.76	10.68	8.40	8.73	8.35	10.82
23	8.37	8.73	10.15	8.46	8.96	10.17	8.76	10.66	8.45	9.05	8.35	10.80
24	8.30	8.73	10.13	8.46	9.45	10.43	8.77	10.96	8.45	10.11	8.36	10.78
25	8.31	8.73	9.79	8.46	10.20	10.42	8.78	10.93	8.45	10.79	8.36	10.76
26 27 28 29 30 31	9.13 8.60 8.60 8.61 9.42 9.41	8.73 8.73 8.65 8.34 8.35	8.89 8.67 8.67 8.67 8.89 9.43	8.46 8.46 8.46 8.46 8.90 8.90	10.19 10.17 10.16 	10.40 9.77 9.40 9.41 9.42 9.43	8.78 9.46 10.13 9.42 8.94	10.91 10.89 10.87 10.84 10.83 10.81	8.45 8.45 8.32 8.32 8.32	10.77 10.05 10.05 10.76 11.05 11.04	8.36 8.36 8.36 8.36 8.36 8.36	10.76 10.75 10.74 10.15 10.13
MEAN	8.54	9.03	8.78	9.06	9.28	9.85	9.24	9.56	8.92	9.12	9.52	10.36
MAX	9.42	10.23	10.17	10.47	10.20	10.43	10.70	10.96	10.79	11.05	11.14	13.98
MIN	8.30	8.34	8.35	8.41	8.31	8.93	8.75	8.65	8.32	8.31	8.21	8.38

CAL YR 2002 MEAN 9.25 MAX 11.63 MIN 8.23 WTR YR 2003 MEAN 9.27 MAX 13.98 MIN 8.21

03359000 MILL CREEK NEAR MANHATTAN, IN-Continued

WATER-QUALITY RECORDS

INSTRUMENTATION.--Temperature recorder.

PERIOD OF RECORD .--

WATER TEMPERATURE.--May 1993 to February 1996, July 1999 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 30.1°C, July 31, 1999; minimum, 1.1°C, Feb. 1-10, 12-14, 1994 and Dec. 10, 1995.

EXTREMES FOR CURRENT YEAR.-- WATER TEMPERATURE: Maximum, 27.8°C, Aug. 28, minimum, 2.0°C, Feb. 26-28, Mar. 2-3.

TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	(ОСТОВЕР	₹	N	OVEMBE	ER	D	ECEMBE	R	J	ANUARY	
1	23.4	22.0	22.5	13.7	12.7	13.3	6.5	5.9	6.2	4.0	3.7	3.8
2	23.5	22.7	22.9	13.0	12.3	12.6	6.5	5.9	6.1	3.7	3.2	3.5
3	23.2	22.7	22.9	12.4	12.1	12.3	6.1	5.2	5.5	3.9	3.5	3.7
4	23.6	22.7	23.2	12.4	12.2	12.3	5.2	4.8	5.0	3.7	3.4	3.6
5	22.7	21.5	22.0	12.3	12.0	12.1	5.2	4.6	4.8	3.6	3.5	3.5
6	22.2	21.6	21.9	12.0	11.5	11.7	4.8	4.3	4.5	3.8	3.5	3.6
7	21.9	21.3	21.5	11.8	11.1	11.4	4.8	4.1	4.4	3.7	3.5	3.6
8	21.3	20.9	21.1	11.8	11.3	11.5	4.6	4.2	4.3	3.5	3.4	3.4
9	20.9	20.6	20.8	11.8	11.4	11.6	4.2	3.8	4.0	3.6	3.5	3.6
10	20.7	20.4	20.6	12.1	11.8	11.9	4.2	3.9	4.1	3.6	3.4	3.6
11	21.1	20.2	20.6	11.9	11.3	11.6	4.3	3.9	4.1	3.4	3.1	3.3
12	20.6	20.2	20.5	11.3	11.0	11.2	4.4	3.9	4.1	3.1	3.0	3.1
13	20.2	18.9	19.6	11.0	10.8	10.9	4.2	4.0	4.1	3.1	3.0	3.1
14	19.1	18.1	18.6	11.0	10.8	10.9	4.2	3.9	4.0	3.0	2.7	2.9
15	19.2	18.3	18.7	10.8	10.6	10.8	4.2	3.8	4.0	3.1	2.7	2.8
16	18.5	17.8	18.2	10.6	10.2	10.4	4.0	3.7	3.9	2.9	2.7	2.8
17	18.0	17.5	17.7	10.2	9.8	10.0	4.0	3.6	3.8	2.9	2.5	2.7
18	18.0	17.1	17.5	9.8	9.6	9.7	5.1	4.0	4.6	2.9	2.6	2.7
19	17.9	17.2	17.5	9.7	9.5	9.6	5.6	4.5	5.0	3.0	2.7	2.8
20	17.4	16.6	17.0	9.7	9.5	9.6	4.7	4.5	4.6	3.4	2.8	3.0
21	17.2	16.4	16.8	9.7	9.2	9.5	4.6	4.4	4.5	3.2	2.7	2.9
22	17.1	16.3	16.6	9.3	8.9	9.1	4.6	4.4	4.5	3.1	2.7	2.8
23	16.6	15.8	16.2	9.0	8.7	8.9	4.4	4.3	4.3	3.0	2.6	2.7
24	16.2	15.9	16.0	9.1	8.5	8.7	4.3	3.8	4.1	3.0	2.6	2.7
25	15.9	15.0	15.2	8.8	8.3	8.6	4.0	3.6	3.8	3.0	2.6	2.8
26 27 28 29 30 31	15.6 15.5 15.6 15.2 14.4 14.2	15.1 15.2 15.2 14.4 14.1 13.7	15.4 15.3 15.3 14.7 14.2 14.0	8.3 8.0 7.7 7.7 7.3	8.0 7.7 7.3 7.1 6.3	8.2 7.9 7.5 7.3 6.8	3.6 3.6 3.5 3.9 4.1	3.4 3.3 3.3 3.1 3.3 3.8	3.5 3.4 3.4 3.3 3.7 3.9	3.0 2.8 3.1 3.2 3.1 3.1	2.6 2.4 2.6 2.9 2.8 2.8	2.8 2.6 2.8 3.0 2.9 2.9
MONTH	23.6	13.7	18.5	13.7	6.3	10.3	6.5	3.1	4.3	4.0	2.4	3.1

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03359000 MILL CREEK NEAR MANHATTAN, IN—Continued TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		EBRUAR			MARCH			APRIL			MAY	
1 2 3 4 5	3.2 3.7 3.7 3.5 3.2	2.9 2.8 3.1 2.8 2.8	3.0 3.2 3.4 3.0 3.0	2.1 2.1 2.2 2.3 2.3	MARCH 2.1 2.0 2.0 2.1 2.2	2.1 2.1 2.1 2.2 2.2	11.3 12.1 12.8 13.2 13.1	10.5 11.2 11.9 12.5 11.1	10.8 11.5 12.2 12.7 11.6	14.7 14.2 14.4 14.4 15.9	13.6 13.5 13.3 13.2 13.7	14.0 13.8 13.8 13.8 14.7
6 7 8 9 10	3.1 3.0 3.3 3.4 3.1	3.0 2.9 2.7 2.6 2.4	3.1 3.0 2.9 3.0 2.8	2.5 2.6 2.7 2.8 3.0	2.1 2.2 2.4 2.5 2.6	2.3 2.4 2.5 2.6 2.8	11.8 11.7 11.3 11.2 11.7	11.7 11.3 11.0 10.7 10.5	11.8 11.5 11.2 10.9 11.0	15.0 14.7 14.9 15.8 15.9	13.7 13.6 13.7 13.7 14.0	14.2 14.1 14.3 14.6 14.7
11 12 13 14 15	3.2 3.2 3.3 3.0 2.9	2.6 2.7 2.7 2.7 2.7	2.9 2.9 2.9 2.8 2.8	3.2 3.4 3.6 3.9 4.0	2.9 3.1 3.3 3.4 3.6	3.0 3.3 3.4 3.6 3.8	11.7 12.3 12.4 12.5 13.7	10.4 10.6 10.5 10.9 11.2	10.9 11.2 11.4 11.8 12.2	15.4 15.4 15.8 15.9 15.5	14.1 14.0 14.4 14.7 15.0	14.7 14.8 15.3 15.2 15.3
16 17 18 19 20	2.8 3.0 2.8 2.8 2.8	2.5 2.7 2.7 2.6 2.5	2.7 2.8 2.7 2.7 2.6	4.9 5.8 7.5 7.6 7.8	3.9 4.5 5.7 6.1 6.2	4.1 5.1 6.4 6.7 7.2	14.9 14.9 13.1 14.5 15.2	11.9 12.4 12.2 12.2 12.5	13.3 13.0 12.8 13.1 13.6	16.3 15.7 15.8 17.2 17.2	14.6 15.0 15.2 15.2 16.6	15.4 15.3 15.5 16.4 16.9
21 22 23 24 25	2.9 2.7 3.0 2.7 2.3	2.7 2.6 2.6 2.1 2.1	2.8 2.7 2.7 2.4 2.1	7.9 7.4 8.6 10.1 10.2	5.3 5.5 7.0 8.3 8.7	6.6 6.6 7.9 8.9 9.4	13.8 12.7 13.5 14.6 13.7	12.3 12.4 12.6 12.7 12.9	12.8 12.6 13.0 13.4 13.2	18.0 18.0 18.0 18.3 18.4	16.6 17.6 17.8 17.9 18.1	17.4 17.8 18.0 18.1 18.2
26 27 28 29 30 31	2.2 2.2 2.2 	2.0 2.0 2.0 	2.1 2.1 2.1 		8.9 9.8 10.8 9.8 9.8 9.7	9.4 10.7 11.5 10.4 10.0 10.0	13.9 14.7 15.4 15.4 15.2	12.7 13.1 13.9 13.9 13.8	13.3 14.0 14.6 14.7 14.4	18.4 18.7 18.7 18.9 19.7	18.2 18.2 18.5 18.2 18.7 18.3	18.3 18.4 18.6 18.4 19.0 18.7
MONTH	3.7	2.0	2.8	11.9	2.0	5.5	15.4	10.4	12.5	19.7	13.2	16.1
		JUNE			JULY			AUGUST			EPTEMBI	
1	19.4	18.5	18.9	25.2	23.3	24.1	24.0	23.7	22.0	26.1	23.3	24.4
2 3 4 5	19.9 19.3 18.8 18.5	19.0 18.8 18.4 18.1	19.3 19.0 18.7 18.3	24.8 25.2 26.9 27.6	23.3 23.5 24.0 24.8	24.1 24.3 25.1 26.0	24.0 24.1 24.3 24.3 24.4	23.7 23.7 23.7 23.9 24.0	23.8 23.9 24.0 24.1 24.2	26.1 24.3 24.1 23.8 23.7	23.2 23.2 23.2 22.8 22.4	24.4 23.8 23.7 23.3 22.9
2 3 4	19.9 19.3 18.8	19.0 18.8 18.4	19.3 19.0 18.7	24.8 25.2 26.9	23.3 23.5 24.0	24.1 24.3 25.1	24.1 24.3 24.3	23.7 23.7 23.9	23.9 24.0 24.1	24.3 24.1	23.2 23.2 22.8	23.8 23.7 23.3
2 3 4 5 6 7 8 9 10	19.9 19.3 18.8 18.5 18.7 18.7 19.7 20.2 21.3	19.0 18.8 18.4 18.1 17.2 17.5 17.6 19.0 19.1 18.2	19.3 19.0 18.7 18.3 18.2 18.2 18.4 19.5 20.1	24.8 25.2 26.9 27.6 27.0 26.1 25.3	23.3 23.5 24.0 24.8 23.9 24.9 23.9 23.1 22.9	24.1 24.3 25.1 26.0 25.4 25.4 24.6 24.1 23.2 23.5	24.1 24.3 24.3 24.4 24.6 24.9 25.1 25.3 25.4	23.7 23.7 23.9 24.0 24.3 24.5 24.8	23.9 24.0 24.1 24.2 24.4 24.7 24.9 25.1 25.3 25.4	24.3 24.1 23.8 23.7 23.7 23.3 23.1 22.7 22.8 22.8	23.2 23.2 22.8 22.4 22.4 22.5 22.3	23.8 23.7 23.3 22.9 22.9 22.8 22.6 22.4 22.5
2 3 4 5 6 7 8 9 10 11 12 13 14	19.9 19.3 18.8 18.5 18.7 18.7 19.7 20.2 21.3 21.2 18.7 19.1 18.8	19.0 18.8 18.4 18.1 17.2 17.5 17.6 19.0 19.1 18.2 17.9 18.0 18.1	19.3 19.0 18.7 18.3 18.2 18.2 18.4 19.5 20.1 19.6 18.5 18.6	24.8 25.2 26.9 27.6 27.0 26.1 25.3 25.1 23.9 24.2 23.8 24.0 24.2	23.3 23.5 24.0 24.8 23.9 24.9 23.9 23.1 22.9 22.8 22.3 22.3 22.7	24.1 24.3 25.1 26.0 25.4 25.4 24.6 24.1 23.2 23.5 23.1 23.1	24.1 24.3 24.3 24.4 24.6 24.9 25.1 25.3 25.4 25.7 26.0 25.8	23.7 23.7 23.9 24.0 24.3 24.5 24.8 24.9 25.0 25.2 25.3 25.3	23.9 24.0 24.1 24.2 24.4 24.7 24.9 25.1 25.3 25.4 25.5 25.6 25.2	24.3 24.1 23.8 23.7 23.7 23.3 23.1 22.7 22.8 22.8 23.0 23.2 23.0	23.2 23.2 22.8 22.4 22.4 22.5 22.3 22.2 22.2 22.5 22.5 22.5 22.5	23.8 23.7 23.3 22.9 22.8 22.6 22.4 22.5 22.7 22.7 22.7 22.9 22.8
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	19.9 19.3 18.8 18.5 18.7 19.7 20.2 21.3 21.2 18.7 19.1 18.8 19.7 20.3 20.6 20.7 20.7	19.0 18.8 18.4 18.1 17.2 17.5 17.6 19.0 19.1 18.2 17.9 18.0 18.1 18.3 18.8 20.0 20.1 19.2	19.3 19.0 18.7 18.3 18.2 18.2 18.4 19.5 20.1 19.6 18.5 18.6 18.8 19.5 20.2 20.4 19.9	24.8 25.2 26.9 27.6 27.0 26.1 25.3 25.1 23.9 24.2 23.8 24.0 24.2 23.0 24.1 24.2 23.8 24.1	23.3 23.5 24.0 24.8 23.9 24.9 23.1 22.9 22.8 22.3 22.7 21.7 22.4 22.5 22.8 20.5	24.1 24.3 25.1 26.0 25.4 25.4 24.6 24.1 23.2 23.5 23.1 23.1 23.3 22.6 23.2 23.3 23.2 23.3	24.1 24.3 24.3 24.4 24.6 24.9 25.1 25.3 25.4 25.7 26.0 25.8 24.6 26.0 26.8 27.6 27.3	23.7 23.7 23.9 24.0 24.3 24.5 24.8 24.9 25.0 25.2 25.3 24.2 23.9 23.9 25.4 24.7 25.4	23.9 24.0 24.1 24.2 24.4 24.7 24.9 25.1 25.3 25.4 25.5 25.6 25.2 24.4 24.9 26.0 26.0 26.2	24.3 24.1 23.8 23.7 23.7 23.3 23.1 22.7 22.8 23.0 23.0 23.0 23.1 24.2 23.4 23.2	23.2 23.2 22.8 22.4 22.4 22.5 22.3 22.2 22.2 22.5 22.5 22.5 22.6 22.6 22.8 22.9 22.9	23.8 23.7 23.3 22.9 22.8 22.6 22.4 22.5 22.7 22.7 22.9 22.8 22.8 22.8 23.0 23.3 23.2 23.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	19.9 19.3 18.8 18.5 18.7 18.7 19.7 20.2 21.3 21.2 18.7 19.1 18.8 19.7 20.3 20.6 20.7 20.7 23.3 23.7 24.0 24.6	19.0 18.8 18.4 18.1 17.2 17.5 17.6 19.0 19.1 18.2 17.9 18.0 18.1 18.3 18.8 20.0 20.1 19.2 19.0 21.6 21.9 22.2 22.8	19.3 19.0 18.7 18.3 18.2 18.2 18.4 19.5 20.1 19.6 18.5 18.6 18.8 19.5 20.2 20.4 19.9 21.0 22.5 22.7 23.5	24.8 25.2 26.9 27.6 27.0 26.1 25.3 25.1 23.9 24.2 23.8 24.0 24.2 23.0 24.1 24.2 23.8 24.1 21.7	23.3 23.5 24.0 24.8 23.9 24.9 23.9 23.1 22.9 22.8 22.3 22.7 21.7 22.4 22.5 22.8 20.5 20.3 20.8 20.2 19.8 20.5	24.1 24.3 25.1 26.0 25.4 25.4 24.6 24.1 23.2 23.5 23.1 23.3 22.6 23.2 23.3 23.2 22.3 21.0 21.7 21.0 20.5 21.4	24.1 24.3 24.3 24.4 24.6 24.9 25.1 25.3 25.4 25.7 25.7 26.0 25.8 24.6 26.8 27.6 27.3 27.0 27.2 26.9 27.4 27.3	23.7 23.7 23.9 24.0 24.3 24.5 24.8 24.9 25.0 25.2 25.3 24.2 23.9 23.9 25.4 24.7 25.4 25.2 25.4 25.2	23.9 24.0 24.1 24.2 24.4 24.7 24.9 25.1 25.3 25.4 25.5 25.6 25.2 24.4 24.9 26.0 26.0 26.2 26.1 26.3 26.5 26.2 26.3	24.3 24.1 23.8 23.7 23.7 23.3 23.1 22.7 22.8 22.8 23.0 23.0 23.0 23.1 24.2 23.4 23.2 23.0 23.2 23.0 23.2 23.0 23.2 23.0 23.2 23.0 23.2 23.4 23.2 23.4 23.2 23.4 23.2 23.4 23.2 23.4 23.2 23.4 23.2 23.6 23.2 23.6 23.2 23.6 23.2 23.6 23.2 23.6 23.6	23.2 23.2 22.8 22.4 22.5 22.3 22.2 22.2 22.5 22.5 22.5 22.6 22.6 22.9 22.9 22.9 22.7 22.7 22.7	23.8 23.7 23.3 22.9 22.8 22.6 22.4 22.5 22.7 22.7 22.9 22.8 23.0 23.3 23.2 23.0 22.9 23.0 22.9
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	19.9 19.3 18.8 18.5 18.7 19.7 20.2 21.3 21.2 18.7 19.1 18.8 19.7 20.3 20.6 20.7 20.7 23.3 23.7 24.0 24.6 25.0 24.3 24.1 24.8 25.5 25.4	19.0 18.8 18.4 18.1 17.2 17.5 17.6 19.0 19.1 18.2 17.9 18.0 18.1 18.3 18.8 20.0 20.1 19.2 19.0 21.6 21.9 22.2 22.8 22.9 22.6 22.5 23.5 23.6	19.3 19.0 18.7 18.3 18.2 18.2 18.4 19.5 20.1 19.6 18.5 18.6 18.8 19.5 20.2 20.4 19.9 21.0 22.5 22.7 23.1 23.5 23.8 23.5 23.2 23.8 24.4 24.4	24.8 25.2 26.9 27.6 27.0 26.1 25.3 25.1 23.9 24.2 23.8 24.0 24.2 23.0 24.1 24.2 23.8 24.1 21.7 22.4 22.0 21.3 22.5 23.0 23.1 23.2 23.0 24.2 23.8 24.1 24.2 23.8 24.1 21.7	23.3 23.5 24.0 24.8 23.9 24.9 23.9 23.1 22.9 22.8 22.3 22.7 21.7 22.4 22.5 20.5 20.3 20.8 20.5 20.5 22.4 22.9 22.7 22.4 22.5 22.5 22.6 22.7 22.6 22.7 22.6 22.7 22.6 22.7 22.6 22.7 22.6 22.7 22.6 22.7 22.6 22.7 22.6 22.7 22.6 22.7 22.6 22.7 22.6 22.7 22.6 22.7 22.6 22.7 22.6 22.7 22.6 22.7 22.8 22.8 20.5 20.5 20.5 20.6 20.6 20.6 20.6 20.6 20.6 20.6 20.6	24.1 24.3 25.1 26.0 25.4 24.6 24.1 23.2 23.5 23.1 23.3 22.6 23.2 23.3 22.3 21.0 21.7 21.0 20.5 21.4 22.7 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.1 23.1 23.1 23.3 23.2 23.3 23.2 23.3 23.2 23.3 23.2 23.3 23.2 23.3 23.2 23.3 23.2 23.3 23.2 23.3 23.2 23.3 23.2 23.3 23.2 23.3 23.2 23.3 23.2 23.3 23.2 23.3 23.2 23.3 23.2 23.3 23.6 23.7 23.0 23.7 23.0 23.7 23.0 23.7 23.0	24.1 24.3 24.3 24.4 24.6 24.9 25.1 25.3 25.4 25.7 25.7 26.0 26.8 27.6 27.3 27.0 27.2 26.9 27.4 27.3 27.2 27.3 27.4 27.8 27.4 27.8 27.7 27.1	23.7 23.7 23.9 24.0 24.3 24.5 24.8 24.9 25.0 25.2 25.3 24.2 23.9 25.4 24.7 25.4 25.2 25.4 26.2 25.5 26.2 25.7 26.0 26.5 26.1 26.9 26.2	23.9 24.0 24.1 24.2 24.4 24.7 24.9 25.1 25.3 25.4 25.5 25.6 25.2 24.4 24.9 26.0 26.0 26.2 26.1 26.3 26.5 26.2 26.3 26.4 26.7 26.9 26.9 27.2 26.6	24.3 24.1 23.8 23.7 23.7 23.3 23.1 22.7 22.8 22.8 23.0 23.0 23.0 23.1 24.2 23.4 23.2 23.0 23.0 23.1 24.2 23.4 23.2 23.0 23.1 24.2 23.4 23.2 23.0 23.1 24.2 23.4 23.2 23.0 23.1 24.2 23.4 23.2 23.0 23.1 24.2 23.4 23.2 23.0 23.1 24.2 23.4 23.2 23.0 23.1 24.2 23.4 23.2 23.0 23.1 24.2 23.4 23.2 23.0 23.1 24.2 23.4 23.2 23.0 23.1 24.2 23.4 23.2 23.0 23.1 24.2 23.4 23.2 23.0 23.1 24.2 23.1 24.2 23.2 23.0 23.1 24.2 23.1 23.2 23.0 23.1 24.2 23.2 23.0 23.3 23.0 22.7 22.8 22.8 22.8 22.8 22.3 21.8 21.6 21.2 20.3	23.2 23.2 22.8 22.4 22.4 22.5 22.3 22.2 22.5 22.5 22.5 22.6 22.6 22.6 22.9 22.9 22.9 22.9 22.9	23.8 23.7 23.3 22.9 22.8 22.6 22.4 22.5 22.7 22.9 22.8 22.8 23.0 23.3 23.2 23.0 22.9 23.0 22.7 22.6 22.5 22.8 23.0 22.9 23.0 22.7 22.6 22.7 22.8 23.0 22.9

03360000 EEL RIVER AT BOWLING GREEN, IN

LOCATION.--Lat 39°22'58", long 87°01'14", in NE \(^1_4\)NE \(^1_4\) sec.24, T.11 N., R.6 W., Clay County, Hydrologic Unit 05120203, (CENTER POINT, IN quadrangle), on left bank 500 ft downstream from bridge on State Highway 46 at Bowling Green, 0.2 mi downstream from Jordan Creek, 15 mi northwest of Spencer, and at mile 38.4.

DRAINAGE AREA.--830 mi².

PERIOD OF RECORD.--January 1931 to current year. Prior to October 1934, published as "near Centerpoint".

REVISED RECORDS.--WSP 893: 1935, 1937-39. WSP 973: 1937-38, 1939(M). WSP 1335: 1931(M). WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 548.02 ft above National Geodetic Vertical Datum of 1929, (levels by U.S. Army Corps of Engineers). See WSP 1725 for history of changes prior to Dec. 1, 1949.

REMARKS.--Records fair. Flow regulated by Cagles Mill Lake.

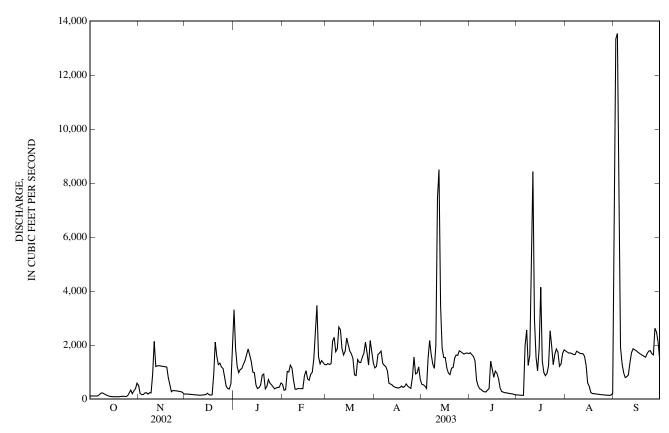
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage, about 30.0 ft in 1875, present datum, from information by U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	119	508	186	3,310	553	1,270	1,160	551	1,720	157	1,780	4,030	
2	117	206	191	1,880	328	1,320	1,210	533	1,650	153	1,740	13,300	
3	119	175	184	1,220	356	1,290	1,650	485	1,580	148	1,710	13,500	
4	117	169	179	984	1,020	1,310	1,710	399	1,420	145	1,710	7,180	
5	118	230	174	1,090	1,010	2,150	1,780	1,490	698	142	1,690	1,920	
6	120	240	169	1,140	1,260	2,290	1,340	2,170	488	1,980	1,650	1,300	
7	169	186	160	1,290	1,150	1,760	1,250	1,660	386	2,560	1,650	986	
8	225	239	159	1,430	713	1,870	1,210	1,300	358	1,250	1,780	798	
9	230	234	151	1,630	372	2,670	1,050	1,140	295	1,620	1,740	828	
10	198	939	147	1,860	367	2,570	593	2,020	272	5,460	1,700	898	
11	165	2,140	150	1,640	396	1,880	558	7,460	267	8,430	1,690	1,350	
12	139	1,210	152	1,400	394	1,630	533	8,500	335	2,960	1,680	1,710	
13	114	1,230	163	1,000	388	1,770	468	3,440	392	1,550	1,590	1,870	
14	100	e1,240	167	980	393	2,260	441	1,900	1,400	1,050	1,250	1,830	
15	93	e1,230	223	530	860	2,020	427	1,540	1,120	1,890	609	1,790	
16	92	e1,220	166	393	1,060	1,780	413	1,540	810	4,140	479	1,740	
17	91	e1,210	150	429	751	1,680	429	1,150	1,040	1,400	245	1,700	
18	90	e1,200	158	523	701	1,510	486	964	962	984	211	1,660	
19	89	e1,190	912	881	919	900	433	908	778	869	207	1,630	
20	95	e800	2,110	929	993	874	466	1,150	427	953	196	1,590	
21	103	520	1,580	381	1,490	1,470	566	1,170	288	1,230	188	1,550	
22	105	275	1,280	477	2,360	1,360	481	1,520	260	2,530	181	1,680	
23	102	320	1,330	727	3,470	1,360	432	1,630	240	1,950	172	1,780	
24	97	316	1,190	589	1,570	1,550	403	1,620	236	1,280	166	1,800	
25	123	308	1,130	531	1,310	1,700	807	1,790	223	1,660	159	1,680	
26 27 28 29 30 31	227 338 208 307 384 591	e300 286 278 254 195	824 480 389 377 568 1,770	453 381 420 432 446 597	1,430 1,350 1,280	2,120 1,730 1,260 2,170 1,760 1,350	1,560 935 973 1,200 747	1,760 1,710 1,670 1,700 1,710 1,690	211 203 195 171 162	1,860 1,740 1,220 1,300 1,690 1,820	154 150 146 142 154 215	1,640 2,630 2,490 2,100 1,490	
TOTAL	5,185	18,848	16,969	29,973	28,244	52,634	25,711	58,270	18,587	56,121	27,134	80,450	
MEAN	167	628	547	967	1,009	1,698	857	1,880	620	1,810	875	2,682	
MAX	591	2,140	2,110	3,310	3,470	2,670	1,780	8,500	1,720	8,430	1,780	13,500	
MIN	89	169	147	381	328	874	403	399	162	142	142	798	
CFSM	0.20	0.76	0.66	1.16	1.22	2.05	1.03	2.26	0.75	2.18	1.05	3.23	
IN.	0.23	0.84	0.76	1.34	1.27	2.36	1.15	2.61	0.83	2.52	1.22	3.61	
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1931 - 2003	BY WATE	R YEAR (W	YY)				
MEAN	302	588	894	1,213	1,299	1,547	1,597	1,250	889	611	328	330	
MAX	1,838	3,076	2,960	7,212	3,249	3,843	4,120	5,090	4,077	2,746	2,656	2,682	
(WY)	(2002)	(1986)	(1991)	(1950)	(1950)	(1938)	(1944)	(1943)	(1957)	(1987)	(1979)	(2003)	
MIN	22.5	29.7	29.0	27.5	107	125	285	129	66.9	39.4	24.1	13.9	
(WY)	(1941)	(1965)	(1964)	(1977)	(1934)	(1941)	(1971)	(1934)	(1988)	(1954)	(1936)	(1954)	

03360000 EEL RIVER AT BOWLING GREEN, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	ENDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEARS 1931 - 2003		
ANNUAL TOTAL	445,771		418,126				
ANNUAL MEAN	1,221		1,146		905		
HIGHEST ANNUAL MEAN					1,551	1950	
LOWEST ANNUAL MEAN					161	1954	
HIGHEST DAILY MEAN	12,600	May 14	13,500	Sep 3	28,700	Jun 29, 1957	
LOWEST DAILY MEAN	65	Sep 18	89	Oct 19	11	Oct 7, 1954	
ANNUAL SEVEN-DAY MINIMUM	67	Sep 13	93	Oct 14	12	Oct 2, 1954	
MAXIMUM PEAK FLOW		•	15,700	Sep 2	34,000	Jan 4, 1950	
MAXIMUM PEAK STAGE			20.77	Sep 2	23.53	Jan 4, 1950	
ANNUAL RUNOFF (CFSM)	1.47		1.38	•	1.09		
ANNUAL RUNOFF (INCHES)	19.98		18.74		14.81		
10 PERCENT EXCEEDS	2,290		1,880		2,190		
50 PERCENT EXCEEDS	1,130		964		374		
90 PERCENT EXCEEDS	105		159		57		

e Estimated



03360500 WHITE RIVER AT NEWBERRY, IN

 $LOCATION.--Lat~38^{\circ}55'39", long~87^{\circ}00'41", in~NE^{1}_{4}NW^{1}_{4}~sec. 30, T.6~N., R.5~W., Greene~County, Hydrologic~Unit~05120202, (LYONS, IN~quadrangle), on left bank, 0.4 mi upstream from bridge on State Highway 57 at Newberry, 2.0 mi downstream from Doans Creek, and at mile 112.4.$

DRAINAGE AREA.--4,688 mi².

PERIOD OF RECORD.--September 1928 to current year. Prior to October 1948, published as West Fork White River at Newberry.

REVISED RECORDS.--WSP 873: 1937(M). WSP 2109: Drainage area. WDR IN-02-1: 1998, 1999 (P).

GAGE.--Water-stage recorder. Datum of gage is 465.59 ft above National Geodetic Vertical Datum of 1929. Nonrecording gage prior to Oct. 21, 1928. Prior to Aug. 5, 1982, recording gage 0.3 mi downstream at same datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by upstream reservoirs.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1875, 27.5 ft Mar. 27, 1913, from floodmarks by Indiana Department of Highways, discharge, 130,000 ft³/s.

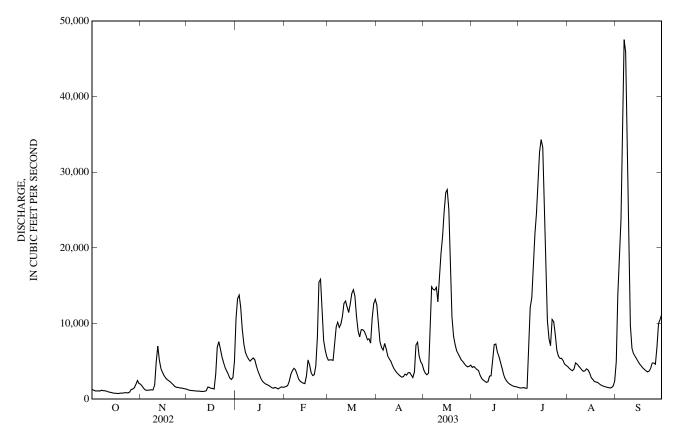
DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

					Dim	2 1 1VIL2/11 V	TECES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,310	1,980	1,260	10,700	1,610	5,160	12,400	3,850	4,200	1,510	4,300	4,980
2	1,190	1,730	1,200	13,300	1,680	5,190	9,900	3,410	4,320	1,480	4,070	13,700
3	1,100	1,420	1,160	13,800	1,780	5,210	7,590	3,220	4,130	1,500	3,890	18,900
4	1,090	1,220	1,130	12,200	2,350	5,130	6,840	3,460	3,910	1,530	3,770	23,800
5	1,110	1,160	1,120	9,240	3,230	7,160	6,490	9,020	3,780	1,430	4,000	35,500
6	1,060	1,190	1,100	7,270	3,750	9,540	7,370	14,900	3,160	1,460	4,800	47,500
7	1,180	1,220	1,060	6,220	4,080	10,200	6,610	14,500	2,750	7,060	4,630	45,900
8	1,120	1,250	1,070	5,670	3,880	9,490	5,690	14,400	2,520	12,100	4,370	36,800
9	1,120	1,210	1,050	5,310	3,310	9,900	5,290	14,800	2,360	13,400	4,140	22,800
10	1,070	1,870	1,020	5,020	2,680	11,000	5,000	12,900	2,220	17,800	3,870	9,790
11	998	4,910	1,030	5,250	2,360	12,700	4,470	16,300	2,290	21,800	3,680	6,730
12	926	7,030	1,040	5,450	2,230	13,000	4,030	19,300	3,040	24,500	3,750	6,030
13	896	5,190	1,110	5,200	2,120	12,200	3,710	21,600	3,080	28,500	4,000	5,670
14	835	4,040	1,610	4,400	2,060	11,500	3,450	24,700	5,040	32,700	3,860	5,340
15	806	3,580	1,550	3,740	3,060	12,600	3,230	27,300	7,200	34,300	3,470	4,950
16	782	3,130	1,440	3,220	5,190	14,000	3,040	27,700	7,300	33,300	2,860	4,650
17	762	2,810	1,420	2,690	4,560	14,500	2,910	25,100	6,260	28,000	2,610	4,370
18	747	2,590	1,340	2,340	3,490	13,600	2,990	17,700	5,650	18,500	2,350	4,130
19	796	2,440	3,320	e2,160	3,120	10,900	3,310	10,900	4,910	10,400	2,260	3,940
20	801	2,280	6,840	e2,000	3,240	9,010	3,180	8,320	4,110	8,000	2,230	3,750
21	799	2,080	7,590	e1,900	4,390	8,220	3,490	7,240	3,260	7,070	2,040	3,600
22	862	1,890	6,670	e1,800	8,240	9,200	3,520	6,390	2,710	10,500	1,900	3,720
23	856	1,660	5,610	e1,660	15,500	9,190	3,180	6,000	2,370	10,200	1,790	4,070
24	823	1,570	4,880	e1,500	15,900	8,970	2,870	5,590	2,150	8,580	1,700	4,780
25	928	1,550	4,210	e1,450	11,600	8,470	3,620	5,180	1,980	6,470	1,630	4,790
26 27 28 29 30 31	1,290 1,330 1,490 1,940 2,460 2,070	1,490 1,480 1,430 1,380 1,350	3,750 3,320 2,800 2,620 2,860 4,970	e1,550 e1,460 e1,350 e1,500 e1,630 1,570	7,780 6,480 5,630 	7,860 8,000 7,410 10,700 12,600 13,200	7,150 7,530 5,760 4,940 4,610	4,970 4,660 4,420 4,280 4,330 4,490	1,850 1,740 1,670 1,650 1,570	5,710 5,400 5,400 5,120 4,640 4,460	1,570 1,530 1,490 1,530 1,730 2,380	4,620 6,830 9,960 10,500 11,200
TOTAL	34,547	68,130	81,150	142,550	135,300	305,810	154,170	350,930	103,180	372,820	92,200	373,300
MEAN	1,114	2,271	2,618	4,598	4,832	9,865	5,139	11,320	3,439	12,030	2,974	12,440
MAX	2,460	7,030	7,590	13,800	15,900	14,500	12,400	27,700	7,300	34,300	4,800	47,500
MIN	747	1,160	1,020	1,350	1,610	5,130	2,870	3,220	1,570	1,430	1,490	3,600
CFSM	0.24	0.48	0.56	0.98	1.03	2.10	1.10	2.41	0.73	2.57	0.63	2.65
IN.	0.27	0.54	0.64	1.13	1.07	2.43	1.22	2.78	0.82	2.96	0.73	2.96
STATIST	TCS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1929 - 2003,	BY WATE	R YEAR (W	YY)			
MEAN	1,628	3,058	4,596	6,673	6,966	8,635	8,831	7,112	4,707	3,357	1,970	1,740
MAX	11,310	24,180	16,780	36,920	21,870	19,150	20,340	25,090	19,350	13,270	15,900	13,510
(WY)	(2002)	(1994)	(1958)	(1950)	(1950)	(1963)	(1944)	(1943)	(1998)	(1979)	(1979)	(1989)
MIN	259	408	386	405	705	686	1,539	677	771	536	308	317
(WY)	(1941)	(1945)	(1945)	(1945)	(1931)	(1941)	(1941)	(1941)	(1988)	(1936)	(1941)	(1940)

03360500 WHITE RIVER AT NEWBERRY, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	ENDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEARS	S 1929 - 2003
ANNUAL TOTAL	2,375,546		2,214,087			
ANNUAL MEAN	6,508		6,066		4,928	
HIGHEST ANNUAL MEAN					8,752	1950
LOWEST ANNUAL MEAN					958	1941
HIGHEST DAILY MEAN	58,600	May 17	47,500	Sep 6	103,000	Nov 18, 1993
LOWEST DAILY MEAN	537	Sep 14	747	Oct 18	200	Oct 1, 1941
ANNUAL SEVEN-DAY MINIMUM	574	Sep 8	785	Oct 15	211	Sep 26, 1941
MAXIMUM PEAK FLOW		•	49,400	Sep 6	105,000	Nov 18, 1993
MAXIMUM PEAK STAGE			22.93	Sep 6	25.87	Nov 18, 1993
ANNUAL RUNOFF (CFSM)	1.39		1.29	•	1.05	
ANNUAL RUNOFF (INCHES)	18.85		17.57		14.28	
10 PERCENT EXCEEDS	16,600		13,300		11,600	
50 PERCENT EXCEEDS	3,570		3,890		2,580	
90 PERCENT EXCEEDS	836		1,190		634	

e Estimated



03361000 BIG BLUE RIVER AT CARTHAGE, IN

 $LOCATION.--Lat~39^{\circ}44'38'', long~85^{\circ}34'33'', in~SW^{1}_{4}SW^{1}_{4}~sec. 18, T.15~N., R.9~E., Rush~County, Hydrologic~Unit~05120204, (CARTHAGE, IN~quadrangle), on right bank~300~ft~upstream from highway bridge, 0.5 mi northwest of Carthage, 2.2 mi downstream from Three Mile Creek, and at mile 50.7.$

DRAINAGE AREA.--184 mi².

PERIOD OF RECORD.--October 1950 to current year. Prior to October 1961, published as Blue River at Carthage.

REVISED RECORDS.--WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 859.33 ft above National Geodetic Vertical Datum of 1929. Prior to July 19, 1951, nonrecording gage at site 300 ft downstream at same datum.

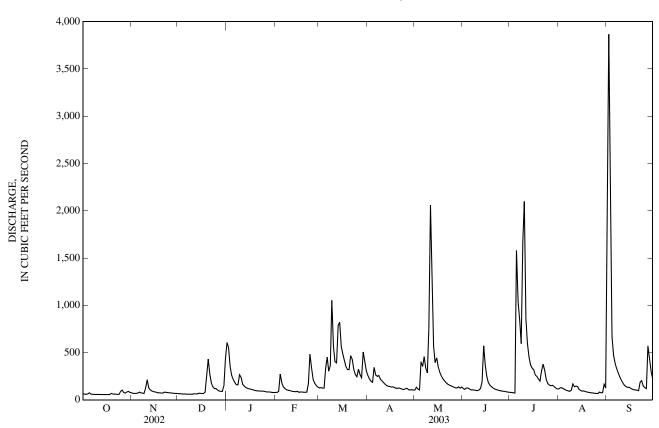
REMARKS.--Records good. Flow partly regulated by Big Blue River Conservancy District control structures on tributaries to Big Blue River beginning in 1969.

DISCHARGE CURIC FEET BED SECOND

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	64	74	65	607	78	126	260	102	120	78	114	1,550		
2	61	69	65	554	78	129	222	134	111	78	128	3,870		
3	58	68	62	349	89	124	197	114	125	75	128	1,740		
4	63	68	61	260	272	125	185	105	124	72	117	672		
5	74	71	62	215	183	329	344	404	113	1,580	109	475		
6	61	81	60	183	137	452	263	352	105	1,040	100	388		
7	59	72	59	160	119	303	248	456	105	845	94	332		
8	57	71	60	159	106	362	257	336	103	594	90	285		
9	57	68	59	266	101	1,050	219	285	101	1,660	101	245		
10	57	127	59	238	98	568	201	769	96	2,100	169	208		
11	56	211	64	165	93	404	183	2,060	102	859	139	177		
12	56	125	63	145	89	392	166	1,100	122	594	145	153		
13	56	105	63	130	e88	786	151	564	191	450	142	139		
14	55	93	70	122	85	820	144	392	571	369	109	131		
15	55	87	69	116	90	563	141	443	374	336	99	133		
16	56	84	67	e114	80	485	136	349	247	317	92	122		
17	56	79	67	e108	83	416	137	291	183	263	94	112		
18	55	75	81	e104	83	351	130	251	155	247	87	107		
19	68	73	249	e98	81	320	122	221	140	221	83	105		
20	62	71	430	e96	79	320	121	201	126	198	79	101		
21	60	72	270	94	81	468	125	181	115	306	76	97		
22	60	81	177	93	171	429	118	166	108	378	74	188		
23	57	79	136	93	483	322	111	156	104	310	72	203		
24	57	76	119	e92	340	267	108	148	98	216	68	147		
25	89	75	118	e90	217	244	117	141	95	172	67	129		
26 27 28 29 30 31	102 76 70 83 89 79	73 71 69 68 67	103 93 90 89 148 435	e84 e84 e83 e81 e78	177 152 137 	324 267 233 506 406 309	122 107 104 108 103	134 127 126 137 122 136	92 91 86 84 81	156 149 154 141 126 116	66 81 75 75 165 124	120 571 426 300 225		
TOTAL	2,008	2,503	3,613	5,138	3,870	12,200	4,950	10,503	4,268	14,200	3,162	13,451		
MEAN	64.8	83.4	117	166	138	394	165	339	142	458	102	448		
MAX	102	211	435	607	483	1,050	344	2,060	571	2,100	169	3,870		
MIN	55	67	59	77	78	124	103	102	81	72	66	97		
CFSM	0.35	0.45	0.63	0.90	0.75	2.14	0.90	1.84	0.77	2.49	0.55	2.44		
IN.	0.41	0.51	0.73	1.04	0.78	2.47	1.00	2.12	0.86	2.87	0.64	2.72		
				A FOR WATE				`			400	0.4.0		
MEAN	98.2	162	211	227	282	326	326	265	213	157	102	84.0		
MAX	579	925	702	619	741	967	829	916	848	581	649	448		
(WY)	(1987)	(1994)	(1991)	(1959)	(1951)	(1963)	(1964)	(1996)	(1958)	(1979)	(1979)	(2003)		
MIN	34.2	38.6	33.2	27.9	59.6	84.2	97.8	81.5	48.1	32.5	30.5	24.4		
(WY)	(1964)	(1977)	(1977)	(1977)	(1964)	(1981)	(1971)	(1976)	(1988)	(1977)	(1988)	(1954)		
SUMMA	RY STATIS	TICS		FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	'EAR	WATER	YEARS 19	51 - 2003		
ANNUAL HIGHEST LOWEST HIGHEST LOWEST	NUAL TOTAL 81,731 NUAL MEAN 224 GHEST ANNUAL MEAN WEST ANNUAL MEAN GHEST DAILY MEAN 3,540 WEST DAILY MEAN 43 NUAL SEVEN-DAY MINIMUM 44					13 10 8	79,866 219 3,870 Sep 2 55 Oct 14 56 Oct 12			6,9	17 J	1973 1977 Iar 5, 1963 an 18, 1977 Jul 31, 1977		
MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (CFSM) 1.22 ANNUAL RUNOFF (INCHES) 16.52 10 PERCENT EXCEEDS 451 50 PERCENT EXCEEDS 127 90 PERCENT EXCEEDS 58							4,44 1 42 12		2	12,9 4 1	00 N	lar 4, 1963 Iar 4, 1963		

e Estimated

03361000 BIG BLUE RIVER AT CARTHAGE, IN—Continued



03361500 BIG BLUE RIVER AT SHELBYVILLE, IN

LOCATION.--Lat 39°31'45", long 85°46'55", in $SE^{1}_{4}SE^{1}_{4}$ sec. 31, T.13 N., R.7 E., Shelby County, Hydrologic Unit 05120204, (SHELBYVILLE, IN quadrangle), on left bank 0.2 mi downstream from bridge on State Highway 9 in Shelbyville, 0.6 mi downstream from Little Blue River, and at mile 23.9.

DRAINAGE AREA.--421 mi².

PERIOD OF RECORD.--September 1943 to current year. Prior to October 1961, published as Blue River at Shelbyville.

REVISED RECORDS.--WSP 1505: 1944. WSP 1909: 1959(M). WSP 2109: Drainage area. WDR IN-79-1: 1975.

GAGE.--Water-stage recorder. Datum of gage is 737.67 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1953, nonrecording gage at bridge 0.2 mi upstream at datum 3.5 ft higher.

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

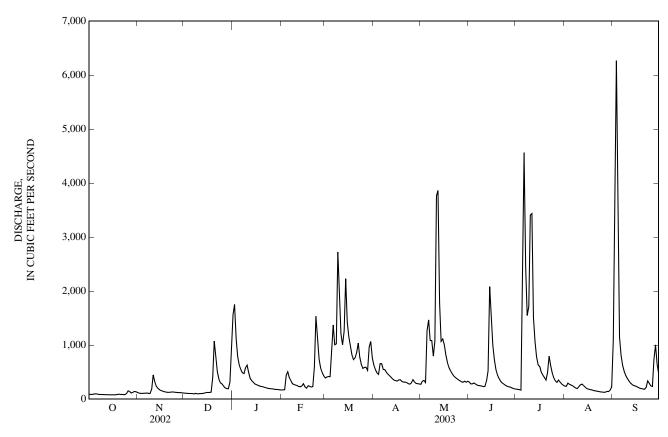
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of about 20.2 ft from floodmarks.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	90	122	113	1,560	e170	392	632	274	316	186	243	1,080	
2	89	113	109	1,750	e173	410	548	331	282	182	238	4,460	
3	87	108	108	1,120	e174	421	488	348	285	175	296	6,270	
4	94	106	105	787	444	416	459	308	298	167	274	3,220	
5	99	109	104	630	506	862	657	1,260	280	2,070	261	1,140	
6	98	110	105	546	395	1,370	657	1,470	259	4,570	248	803	
7	89	114	96	490	341	1,010	549	1,090	252	2,440	226	624	
8	86	108	107	473	285	1,020	547	1,090	249	1,550	206	514	
9	85	105	99	581	e270	2,720	499	798	243	1,710	195	439	
10	85	183	101	630	e260	1,930	463	1,080	232	3,410	230	384	
11	85	450	103	494	252	1,210	434	3,760	237	3,440	265	337	
12	83	323	105	382	235	1,010	407	3,860	338	1,520	278	299	
13	82	240	108	e340	230	1,260	374	1,780	524	1,060	252	272	
14	81	200	114	e312	244	2,230	351	1,070	2,080	785	224	252	
15	81	175	124	e281	286	1,420	342	1,110	1,640	634	198	246	
16	81	160	124	e268	227	1,160	335	1,010	1,000	605	186	233	
17	81	150	123	e256	204	985	356	820	737	499	177	217	
18	81	138	129	e243	248	821	359	678	549	444	174	203	
19	87	132	403	e236	237	731	326	586	451	402	162	195	
20	92	128	1,070	e230	224	766	316	526	383	353	156	190	
21	88	126	792	e220	232	857	317	475	333	488	151	183	
22	86	129	506	e212	598	1,040	306	433	301	797	146	217	
23	86	133	368	e203	1,540	779	288	405	279	615	141	339	
24	84	132	302	e197	1,130	643	276	380	259	487	135	292	
25	107	127	281	e193	736	570	301	360	241	392	131	247	
26 27 28 29 30 31	155 139 114 127 143 137	125 121 122 e120 115	242 209 195 192 314 880	e190 e187 e180 e180 e178 e173	577 492 432 	590 590 534 967 1,070 764	362 318 291 287 282	342 321 314 334 313 332	230 224 211 199 189	339 311 354 317 283 260	128 129 145 140 165 225	235 731 1,000 645 473	
TOTAL	3,002	4,524	7,731	13,722	11,142	30,548	12,127	27,258	13,101	30,845	6,125	25,740	
MEAN	96.8	151	249	443	398	985	404	879	437	995	198	858	
MAX	155	450	1,070	1,750	1,540	2,720	657	3,860	2,080	4,570	296	6,270	
MIN	81	105	96	173	170	392	276	274	189	167	128	183	
CFSM	0.23	0.36	0.59	1.05	0.95	2.34	0.96	2.09	1.04	2.36	0.47	2.04	
IN.	0.27	0.40	0.68	1.21	0.98	2.70	1.07	2.41	1.16	2.73	0.54	2.27	
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WATI	ER YEARS	1944 - 2003,	BY WATE	R YEAR (W	YY)				
MEAN	180	345	478	620	694	793	782	620	474	331	195	156	
MAX	1,199	2,114	1,575	4,319	2,208	1,970	1,973	2,605	1,729	1,363	1,404	953	
(WY)	(1987)	(1994)	(1967)	(1950)	(1950)	(1963)	(1964)	(1996)	(1998)	(1979)	(1979)	(1989)	
MIN	41.7	52.5	52.3	38.3	92.0	204	183	149	81.2	56.1	46.4	43.1	
(WY)	(1964)	(1954)	(1964)	(1977)	(1964)	(1957)	(1971)	(1976)	(1988)	(1954)	(1988)	(1999)	

$03361500\;\; BIG\; BLUE\; RIVER\; AT\; SHELBYVILLE, IN—Continued$

SUMMARY STATISTICS	FOR 2002 CALE	ENDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEARS	5 1944 - 2003
ANNUAL TOTAL	188,698		185,865			
ANNUAL MEAN	517		509		471	
HIGHEST ANNUAL MEAN					908	1950
LOWEST ANNUAL MEAN					166	1954
HIGHEST DAILY MEAN	8,320	May 14	6,270	Sep 3	13,800	Mar 5, 1963
LOWEST DAILY MEAN	67	Sep 14	81	Oct 14	27	Jan 18, 1977
ANNUAL SEVEN-DAY MINIMUM	69	Sep 12	81	Oct 12	32	Jan 16, 1977
MAXIMUM PEAK FLOW		•	6,590	Sep 3	13,800	Nov 15, 1993
MAXIMUM PEAK STAGE			13.77	Sep 3	18.41	Nov 15, 1993
ANNUAL RUNOFF (CFSM)	1.23		1.21	•	1.12	
ANNUAL RUNOFF (INCHES)	16.67		16.42		15.20	
10 PERCENT EXCEEDS	1,090		1,080		1,010	
50 PERCENT EXCEEDS	274		285		241	
90 PERCENT EXCEEDS	89		108		75	

e Estimated



03361638 LEARY-WEBER DITCH AT MOHAWK, IN

 $LOCATION.--Lat\ 39^{\circ}50'33'', long\ 85^{\circ}49'30'', in\ NW^{1}\!\!/_{4}SE^{1}\!\!/_{4}\ sec.11, T.16\ N., R.6\ E., Hancock\ County, Hydrologic\ Unit\ 05120204, (ACTON, IN\ quadrangle),\\ 60\ ft\ upstream\ of\ bridge\ on\ County\ Road\ 400N,\ 0.33\ mi\ upstream\ of\ Sugar\ Creek,\ 0.70\ mi\ east\ of\ Mohawk,\ and\ 3.06\ mi\ southwest\ of\ Maxwell.$

DRAINAGE AREA.--2.4 mi².

PERIOD OF RECORD.--July 2002 to current year.

GAGE.--Water-stage recorder. Datum of gage is 850.00 ft from topographic map.

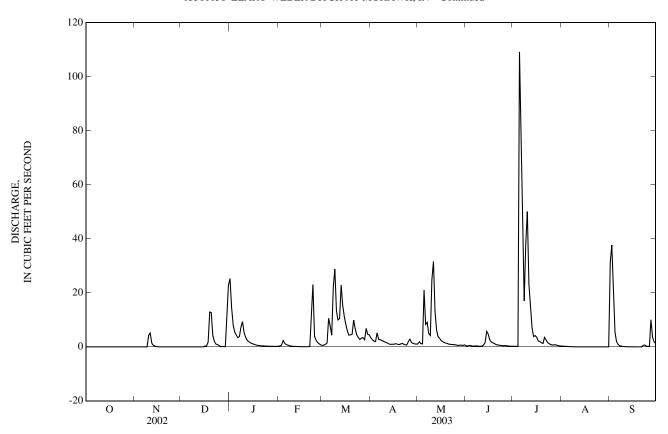
REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

				DAII	LY MEAN V	ALUES					
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	25 15 8.1 5.5 4.4	e0.21 e0.35 e0.70 e2.3 e1.3	e0.50 e0.60 e0.90 e1.4	e3.3 e2.6 2.1 1.9 5.2	1.1 1.8 1.2 1.1 21	0.33 0.32 0.53 0.41 0.27	0.21 0.20 0.17 0.14 109	0.27 0.23 0.19 0.17 0.13	31 38 19 5.4 1.9
0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 4.3	0.00 0.00 0.00 0.00 0.00	3.4 3.8 7.3 9.3 5.2	e0.80 e0.60 e0.40 e0.26 e0.21	7.6 4.3 22 29 13	2.8 2.6 2.3 2.0 1.8	8.3 9.0 4.9 4.2 25	0.26 0.32 0.31 0.21 0.20	62 37 17 38 50	0.06 0.04 0.02 0.01 0.00	0.87 0.42 0.25 0.14 0.08
0.00 0.00 0.00 0.00 0.00	5.1 1.3 0.54 0.25 0.11	0.00 0.00 0.00 0.00 0.00	3.6 e2.4 e1.9 e1.5 e1.2	e0.17 e0.13 e0.11 e0.09 e0.07	10 10 23 15	1.6 1.3 0.95 0.93 0.97	32 13 6.1 3.8 3.1	0.26 0.68 1.5 5.7 4.7	23 15 7.0 3.8 4.2	0.00 0.00 0.00 0.00 0.00	0.04 0.02 0.01 0.02 0.02
0.00 0.00 0.00 0.00 0.00	0.02 0.00 0.00 0.00 0.00	0.31 0.27 1.7 13	e1.0 e0.78 e0.60 e0.50 e0.44	e0.06 e0.06 e0.06 e0.05 e0.05	8.4 5.9 4.3 4.4 e4.6	0.98 1.1 0.95 0.84 0.99	2.2 1.9 1.6 1.3 1.2	2.5 1.8 1.4 1.2 0.83	3.5 2.2 1.9 1.5 1.2	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	4.0 2.0 0.99 0.79 0.49	e0.38 e0.33 e0.29 e0.26 e0.23	e0.10 e13 e23 e4.0 e2.4	e9.9 e6.6 e4.4 e3.4 e2.7	1.3 0.96 0.72 0.71 2.0	0.95 0.90 0.84 0.82 0.72	0.69 0.60 0.53 0.42 0.39	3.5 2.6 1.6 1.1 0.83	0.00 0.00 0.00 0.00 0.00	0.00 0.51 0.68 0.27 0.18
0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.08 0.09 0.11 0.06 10 23	e0.21 e0.19 e0.17 e0.16 e0.16 e0.18	e1.6 e1.1 e0.70	e3.3 e3.4 e2.6 e6.8 e4.6 e4.4	2.8 1.6 1.3 1.1 0.99	0.58 0.51 0.61 0.62 0.49 0.69	0.47 0.35 0.28 0.23 0.19	0.68 0.72 0.75 0.52 0.38 0.32	0.00 0.00 0.00 0.00 0.00 0.00	0.15 10 3.7 1.8 1.2
0.00 0.000 0.00 0.00 0.00 0.00	11.62 0.39 5.1 0.00 0.14 0.15	69.89 2.25 23 0.00 0.81 0.93	103.48 3.34 25 0.16 1.20 1.38	53.88 1.92 23 0.05 0.69 0.72	239.00 7.71 29 0.50 2.76 3.19	50.69 1.69 5.2 0.71 0.61 0.68	151.53 4.89 32 0.49 1.75 2.02	27.88 0.93 5.7 0.19 0.33 0.37	390.02 12.6 109 0.14 4.51 5.20	1.12 0.036 0.27 0.00 0.01 0.01	115.66 3.86 38 0.00 1.38 1.54
ICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	2002 - 2003	BY WATE	R YEAR (W	YY)			
0.000 0.000 (2003) 0.000 (2003)	0.39 0.39 (2003) 0.39 (2003)	2.25 2.25 (2003) 2.25 (2003)	3.34 3.34 (2003) 3.34 (2003)	1.92 1.92 (2003) 1.92 (2003)	7.71 7.71 (2003) 7.71 (2003)	1.69 1.69 (2003) 1.69 (2003)	4.89 4.89 (2003) 4.89 (2003)	0.93 0.93 (2003) 0.93 (2003)	7.14 12.6 (2003) 1.69 (2002)	0.018 0.036 (2003) 0.001 (2002)	1.93 3.86 (2003) 0.000 (2002)
RY STATIS	STICS					FOR 200	3 WATER Y	YEAR	WATER	YEARS 200	02 - 2003
L TOTAL MEAN ANNUAL DAILY M SEVEN-L JM PEAK RUNOFF RUNOFF ENT EXCE	, MEAN MEAN IEAN EAN OAY MINIM FLOW STAGE (CFSM) (INCHES) EDS EDS	IUM				:	14.77 3.33 109 Jul 5 0.00 Oct 1 0.00 Oct 1 30 Jul 5	5 [[1	3.33 3.33 3.33 109 J 0.00 Au 0.00 Au 230 J	2003 2003 ul 5, 2003 ug 2, 2002 ug 2, 2002 ul 5, 2003 ul 5, 2003
	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 1.3 0.00 0.54 0.00 0.54 0.00 0.54 0.00 0.25 0.00 0.11 0.00 0.02 0.00 0.39 0.000 0.39	0.00	0.00	OCT NOV DEC JAN FEB 0.00 0.00 0.00 0.00 25 e0.21 0.00 0.00 0.00 15 e0.35 0.00 0.00 0.00 0.00 8.1 e0.70 0.00 0.00 0.00 0.00 8.5 e2.3 0.00 0.00 0.00 0.00 4.4 e1.3 0.00 0.00 0.00 0.00 3.4 e0.80 0.00 0.00 0.00 3.8 e0.60 0.00 0.00 0.00 3.8 e0.60 0.00 0.00 0.00 9.3 e0.26 0.00 0.00 0.00 9.3 e0.26 0.00 1.3 0.00 5.2 e0.21 0.00 5.1 0.00 3.6 e0.17 0.00 1.3 0.00 e2.4 e0.13 0.00 0.54 0.00 e1.9 e0.11 0.00 0.25 0.00 e1.5 e0.09 0.00 0.11 0.00 e1.2 e0.07 0.00 0.02 0.31 e1.0 e0.06 0.00 0.00 0.02 0.31 e1.0 e0.06 0.00 0.00 0.00 1.7 e0.60 e0.06 0.00 0.00 0.00 13 e0.50 e0.05 0.00 0.00 0.00 13 e0.64 e0.06 0.00 0.00 0.00 13 e0.50 e0.05 0.00 0.00 0.00 13 e0.60 e0.60 e0.06 0.00 0.00 0.00 13 e0.60 e0.60 e0.06 0.00 0.00 0.00 0.99 e0.29 e23 0.00 0.00 0.00 0.00 e0.16 e0.16 e 0.00 0.00 0.00 0.00 0.00 e0.16 e0.05 0.00 0.00 0.00 0.00 e0.00 e0	OCT NOV DEC JAN FEB MAR 0.00 0.00 0.00 0.00 25 e0.21 e0.50 0.00 0.00 0.00 0.00 15 e0.35 e0.60 0.00 0.00 0.00 0.00 8.1 e0.70 e0.90 0.00 0.00 0.00 0.00 8.1 e0.70 e0.90 0.00 0.00 0.00 0.00 4.4 e1.3 11 0.00 0.00 0.00 0.00 3.4 e0.80 7.6 0.00 0.00 0.00 0.00 3.8 e0.60 4.3 0.00 0.00 0.00 0.00 3.8 e0.60 4.3 0.00 0.00 0.00 0.00 7.3 e0.40 22 0.00 0.00 0.00 0.00 9.3 e0.26 29 0.00 4.3 0.00 5.2 e0.21 13 0.00 5.1 0.00 3.6 e0.17 10 0.00 0.54 0.00 e2.4 e0.13 10 0.00 0.54 0.00 e1.5 e0.09 15 0.00 0.25 0.00 e1.5 e0.09 15 0.00 0.11 0.00 e1.2 e0.07 11 0.00 0.22 0.31 e1.0 e0.06 8.4 0.00 0.00 0.00 1.7 e0.60 e0.06 4.3 0.00 0.00 1.3 e0.44 e0.05 e4.6 0.00 0.00 1.3 e0.44 e0.05 e4.6 0.00 0.00 0.00 13 e0.50 e0.05 4.4 0.00 0.00 13 e0.50 e0.05 4.4 0.00 0.00 13 e0.50 e0.05 4.4 0.00 0.00 0.00 2.0 e0.33 e13 e0.66 0.00 0.00 0.00 2.0 e0.33 e13 e0.66 0.00 0.00 0.00 0.99 e0.29 e23 e24 e2.7 0.00 0.00 0.00 0.49 e0.23 e2.4 e2.7 0.00 0.00 0.00 0.49 e0.23 e2.4 e2.7 0.00 0.00 0.00 0.49 e0.23 e2.4 e2.7 0.00 0.00 0.00 0.00 0.00 e0.00 0.00 0.0	0.00 0.00 0.00 0.00 15 e0.31 e0.60 e2.6 0.00 0.00 0.00 0.00 15 e0.35 e0.60 e2.6 0.00 0.00 0.00 0.00 8.1 e0.70 e0.90 2.1 0.00 0.00 0.00 0.00 8.1 e0.70 e0.90 2.1 0.00 0.00 0.00 0.00 4.4 e1.3 11 5.2 0.00 0.00 0.00 0.00 3.4 e0.80 7.6 2.8 0.00 0.00 0.00 0.00 3.8 e0.60 4.3 2.6 0.00 0.00 0.00 0.00 3.8 e0.60 4.3 2.6 0.00 0.00 0.00 0.00 7.3 e0.40 22 2.3 0.00 0.00 0.00 0.00 9.3 e0.26 29 2.0 0.00 4.3 0.00 5.2 e0.21 13 1.8 0.00 6.2 e0.21 13 1.3 1.8 0.00 6.2 e0.21 13 1.8 0.00 6.2 e0.21 13 1.8 0.00 6.2 e0.21 6.0 6.00 1.3 0.00 0.25 0.00 6.1 6.00 15. 60.09 15 0.93 0.00 0.11 0.00 6.2 e0.07 11 0.97 0.00 0.25 0.00 6.1 6.00 6.1 6.00 15. 60.09 15 0.93 0.00 0.11 0.00 0.27 60.78 60.06 5.9 1.1 0.97 0.00 0.00 0.00 0.27 60.78 60.06 5.9 1.1 0.00 0.00 0.00 0.27 60.78 60.05 64.6 0.99 0.00 0.00 0.00 13 60.50 60.05 4.4 0.84 0.00 0.00 0.00 13 60.50 60.05 4.4 0.84 0.00 0.00 0.00 13 60.50 60.05 64.6 0.99 0.00 0.00 0.00 13 60.50 60.05 64.6 0.99 0.00 0.00 0.00 0.00 0.00 0.00 0.	OCT NOV DEC JAN FEB MAR APR MAY 0.00 0.00 0.00 0.00 25 e0.21 e0.50 e3.3 1.1 0.00 0.00 0.00 0.00 15 e0.35 e6.60 e2.6 1.8 0.00 0.00 0.00 0.00 8.1 e0.70 e0.90 2.1 1.2 0.00 0.00 0.00 0.00 8.1 e0.70 e0.90 2.1 1.2 0.00 0.00 0.00 0.00 4.4 e1.3 11 52 21 0.00 0.00 0.00 0.00 3.4 e0.80 7.6 2.8 8.3 0.00 0.00 0.00 0.00 3.8 e0.60 4.3 2.6 9.0 0.00 0.00 0.00 0.00 3.8 e0.60 4.3 2.6 9.0 0.00 0.00 0.00 0.00 3.8 e0.60 4.3 2.6 9.0 0.00 0.00 0.00 0.00 7.3 e0.40 22 2.3 4.9 0.00 0.00 0.00 0.00 3.8 e0.60 1.3 18 25 0.00 0.00 0.00 0.00 9.3 e0.26 29 2.0 4.2 0.00 1.3 0.00 e2.4 e0.13 10 1.6 32 0.00 0.54 0.00 e1.9 e0.11 23 0.95 6.1 0.00 0.54 0.00 e1.5 e0.09 15 0.93 3.8 0.00 0.11 0.00 e1.2 e0.07 11 0.97 3.1 0.00 0.25 0.00 e1.5 e0.09 15 0.93 3.8 0.00 0.01 0.00 0.27 e0.78 e0.06 5.9 1.1 1.9 0.00 0.02 0.31 e1.0 e0.66 8.4 0.98 2.2 0.00 0.00 0.00 1.7 e0.60 e0.06 8.4 0.98 2.2 0.00 0.00 1.3 e0.30 e0.31 e1.0 e0.66 8.4 0.98 1.1 1.9 0.00 0.00 0.00 1.7 e0.60 e0.06 4.3 0.95 1.6 0.00 0.00 1.7 e0.60 e0.05 4.4 0.84 1.3 0.00 0.00 1.7 e0.60 e0.06 4.3 0.95 1.6 0.00 0.00 1.7 e0.60 e0.06 4.3 0.95 1.6 0.00 0.00 0.00 1.7 e0.60 e0.06 4.3 0.95 1.6 0.00 0.00 0.00 1.7 e0.60 e0.06 4.3 0.95 1.6 0.00 0.00 0.00 1.7 e0.60 e0.06 6.9 1.1 1.9 0.00 0.00 0.00 1.7 e0.60 e0.06 4.3 0.95 1.6 0.00 0.00 0.00 1.8 e0.21 e1.6 e3.3 2.8 6.9 0.00 0.00 0.00 1.8 e0.22 e2.3 e4.4 0.72 0.84 1.3 0.00 0.00 0.00 1.9 e0.23 e2.4 e2.7 2.0 0.72 0.00 0.00 0.00 0.99 e0.29 e2.3 e4.4 0.72 0.84 1.3 0.00 0.00 0.00 0.09 e0.29 e0.33 e1.3 e6.6 0.96 0.90 1.2 0.00 0.00 0.00 0.09 e0.29 e0.30 e1.4 e2.7 2.0 0.72 0.00 0.00 0.00 0.00 0.99 e0.29 e2.3 e4.4 0.72 0.84 1.3 0.00 0.00 0.00 0.00 0.99 e0.29 e2.3 e4.4 0.72 0.84 1.3 0.00 0.00 0.00 0.00 0.99 e0.29 e2.3 e4.4 0.72 0.84 1.3 0.00 0.00 0.00 0.00 0.99 e0.29 e2.3 e4.4 0.72 0.84 1.3 0.00 0.00 0.00 0.00 0.99 e0.29 e2.3 e4.4 0.72 0.84 1.3 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	OCT NOV DEC JAN FEB MAR APR MAY JUN 0.00 0.00 0.00 0.00 25 e0.21 e0.50 e3.3 1.1 0.33 0.00 0.00 0.00 0.00 15 e0.55 e0.56 e0.60 e2.6 1.8 0.33 0.00 0.00 0.00 0.00 8.1 e0.70 e0.90 2.1 1.2 0.53 0.00 0.00 0.00 0.00 4.4 e1.3 11 5.2 21 0.27 0.00 0.00 0.00 0.00 4.4 e1.3 11 5.2 21 0.27 0.00 0.00 0.00 0.00 3.4 e0.80 7.6 2.8 8.3 0.26 0.00 0.00 0.00 0.00 3.8 e0.60 4.3 2.6 9.0 0.32 0.00 0.00 0.00 0.00 3.8 e0.60 22 2.3 4.9 0.31 0.00 0.00 0.00 0.00 7.3 e0.40 22 2.3 4.9 0.31 0.00 0.00 0.00 0.00 5.2 e0.21 13 1.8 25 0.20 0.00 0.00 0.00 0.5 2 e0.21 13 1.8 25 0.20 0.00 1.3 0.00 5.2 e0.21 13 1.8 25 0.20 0.00 1.3 0.00 2.24 e0.13 10 1.3 15 0.68 0.00 0.51 0.00 0.25 0.00 e1.5 e0.90 15 0.93 3.8 5.7 0.00 0.51 0.00 e1.5 e0.00 15 0.93 3.8 5.7 0.00 0.11 0.00 e1.2 e0.07 11 0.97 3.1 4.7 0.00 0.01 17 e0.60 e0.66 8.4 0.98 2.2 2.5 0.00 0.01 13 e0.00 e1.2 e0.07 11 0.97 3.1 4.7 0.00 0.00 0.00 13 e0.44 e0.05 4.4 0.84 1.3 1.2 0.00 0.00 0.00 13 e0.50 e0.66 5.9 1.1 1.9 1.8 0.00 0.02 0.31 e1.0 e0.66 8.4 0.84 1.3 1.2 0.00 0.00 0.00 13 e0.50 e0.05 4.4 0.84 1.3 1.2 0.00 0.00 0.00 13 e0.50 e0.05 4.4 0.84 1.3 1.2 0.00 0.00 0.00 13 e0.50 e0.05 4.4 0.84 1.3 1.2 0.00 0.00 0.00 13 e0.50 e0.05 4.4 0.84 1.3 1.2 0.00 0.00 0.00 13 e0.50 e0.05 4.4 0.84 1.3 1.2 0.00 0.00 0.00 13 e0.50 e0.05 4.4 0.84 1.3 1.2 0.00 0.00 0.00 13 e0.44 e0.05 e4.6 0.99 1.2 0.83 0.00 0.00 0.00 13 e0.44 e0.55 e4.6 0.99 1.2 0.83 0.00 0.00 0.00 13 e0.44 e0.55 e4.6 0.99 1.2 0.83 0.00 0.00 0.00 13 e0.44 e0.55 e4.6 0.99 1.2 0.83 0.00 0.00 0.00 1.3 e0.44 e0.55 e4.6 0.99 1.2 0.83 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	OCT	OCT NOV DEC JAN FEB MAR APR MAY JUN JUI. AUG 0.00 0.00 0.00 0.00 25 e0.21 e0.50 e3.3 1.1 0.33 0.21 0.27 0.00 0.00 0.00 0.00 15 e0.35 e0.60 e2.6 1.8 0.32 0.20 0.22 0.00 0.00 0.00 0.00 15 e0.05 e0.55 e0.21 1.1 0.53 0.17 0.19 0.00 0.00 0.00 0.00 5.5 e2.3 e1.4 1.9 1.1 0.53 0.17 0.19 0.00 0.00 0.00 0.00 4.4 e1.3 11 52 21 0.27 109 0.13 0.00 0.00 0.00 0.00 3.8 e0.60 4.4 e1.3 11 52 21 0.27 109 0.13 0.00 0.00 0.00 0.00 3.8 e0.60 4.3 2.6 9.0 0.32 37 0.04 0.00 0.00 0.00 0.00 3.8 e0.60 4.3 2.6 9.0 0.32 37 0.04 0.00 0.00 0.00 0.00 3.8 e0.60 4.3 2.6 9.0 0.32 37 0.04 0.00 0.00 0.00 0.00 3.8 e0.60 4.3 2.6 9.0 0.32 37 0.04 0.00 0.00 0.00 0.00 3.8 e0.60 4.3 2.6 9.0 0.32 37 0.04 0.00 0.00 0.00 0.00 3.8 e0.60 4.3 2.6 9.0 0.32 37 0.04 0.00 0.00 0.00 0.00 3.8 e0.60 4.3 2.6 9.0 0.32 37 0.04 0.00 0.00 0.00 0.00 3.8 e0.26 29 2.0 4.2 0.21 38 0.01 0.00 0.00 0.00 0.00 0.00 3.8 e0.26 29 2.0 4.2 0.21 38 0.00 0.00 0.00 0.00 3.2 e0.26 29 2.0 4.2 0.21 38 0.00 0.00 0.00 0.00 0.51 0.00 0.52 e0.21 13 1.8 25 0.20 50 0.00 0.00 0.00 0.00 0.00 0.2 0.00 0

e Estimated

03361638 LEARY-WEBER DITCH AT MOHAWK, IN—Continued



[(National Water-Quality Assessment Program), White River Basin, Miami River Basin Study Unit]

WATER-QUALITY RECORDS

These data described in the following table were collected and analyzed as part of the National Water Quality Assessment Program (NAWQA) in the White River Basin, Miami River Basin (WHMI) study units. The objectives of the NAWQA program are to broadly characterize the water-quality of the Nation's streams and aquifers in relation to human and natural factors. This project is one of 42 river basin and aquifer assessment projects being implemented across the nation on a staggered timeline. During the second decade of sampling, 14 of these projects will be actively collecting data. The period of high-intensity data collection for the WHMI project is in water years 2001-2004.

Water quality data from Leary Weber Ditch at Mohawk, IN are being reported as part of the NAWQA Agricultural Chemical Transport topical study. The key aspect of this study is the investigation of the sources, transport, and fate of selected agricultural chemicals in a variety of agricultural settings across the Nation. The final objective is to interpret study results as to the implications for managing the water and water-quality impacts of agricultural systems. Beginning in October 2002, the WHMI is one of five NAWQA study units engaged in research of selected agricultural settings.

(- -, no data: <, concentration or value reported is less than that indicated: E, estimated value: K, value is estimated from a non-ideal colony count: M, presence verified, not quantified)

Date	Time	Instantaneous discharge, cfs (00061)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti- tuents mg/L (70301)
APR													
17	1045	1.2	8.1	524	69.5	22.8	0.84	6.91	26.7	0.15	1.39	16.3	299
25 MAY	1000	0.95											
05-06	0145		7.9	460	57.1	17.7	1.19	4.07	18.2	0.24	7.67	13.1	258
05	0245	19	7.7	503	61.5	19.4	1.37	6.79			7.01		
05	0445	26	7.9	464	55.3	16.6	1.22	3.51	18.8	0.17	7.19	13.3	262
05	0645	33	8.9	425	52.5	16.0	1.43	3.49	18.2	0.23	7.42	12.5	239
06	0145	12	7.8	496	56.4	17.5	0.88	4.21	21.2	0.24	7.11	14.4	312
06	1345	7.4 0.81	8.2 8.0	517	65.3 62.5	20.1 20.8	0.82	4.28 6.01	19.8 24.0	<0.17 <0.17	7.35 3.81	13.9	281 290
28 JUN	2100	0.81	6.0	542	02.3	20.8	1.01	0.01	24.0	<0.17	3.61	15.6	290
12	1230	0.69	8.0	545	64.5	21.9	0.96	7.19	25.3	< 0.17	7.28	14.6	295
JUN	1200	0.07	0.0	0.0	0.10	21.7	0.70	7117	20.0	10117	7.20	1	2,0
14-15	0645		8.0	545	69.0	22.4	0.95	4.48	21.2	0.22	9.05	14.4	312
14	1220	7.0	7.8	522	61.9	19.2	1.02	3.94	17.7	0.23	8.90	13.7	291
14	1620	6.3	7.9	542	69.5	21.8	1.01	4.55	19.4	0.23	9.07	14.3	309
14 15	2320 1730	7.4 3.7	7.5 8.1	550 569	65.9 71.4	20.9 22.8	$0.80 \\ 0.80$	3.98 4.33	20.4 21.6	0.26 0.20	8.46 8.56	14.4 15.0	308 322
24	1010	0.46	8.1	588	74.9	24.9	0.69	5.87	24.2	0.20	7.63	15.6	330
JUL	1010	0.10	0.1	200	7 1.2	21.7	0.07	3.07	21.2	0.10	7.05	15.0	330
05-08	0115		7.4	222	27.4	7.21	3.88	2.03	4.78	0.18	6.77	6.1	124
05	0215	5.4	7.7	266	31.2	9.84	3.31	3.14	10.3	< 0.17	5.65	8.1	144
05	0515	144	7.4	166	17.9	5.02	4.32	1.41	3.74	< 0.17	4.02	5.1	94
05	0715 0915	215 171	7.2 7.5	154 166	15.7 16.7	4.33 4.69	4.85	2.65 1.28	3.30 3.37	0.19 <0.17	4.00 5.64	4.7 4.9	86 91
05 05	1715	77	7.5 7.5	210	22.9	6.35	4.32 3.90	2.29	5.04	0.17	6.07	5.8	118
05	2115	136	7.3	173			3.90	2.29	J.0 4	0.23		J.0 	
07	0115	44	7.7	287	36.1	10.6	2.85	2.41	7.78	0.19	8.55	8.3	160
08	1040	17	7.5 7.9	386	47.8	14.7	2.59	3.26	11.4	0.17	9.69	10.4	211
15	0810	2.6	7.9	538	71.1	21.9	1.21	5.82	17.7	< 0.17	8.70	13.8	340
SEP	1120	1.5	7.0	266	20.4	0.04	2.46	2.00	0.57	0.20	7.74	67	120
01 SEP	1130	15	7.6	266	30.4	8.04	2.46	3.90	8.57	0.20	7.74	6.7	139
01-04	1130		7.9	266	35.2	11.0	2.65	2.81	7.65	0.17	8.86	6.6	153
01	1330	29	7.7	280	31.7	10.2	2.48	3.94	9.51	0.26	7.28	7.5	152
01	1630												
01	1830	71	7.6	200	21.8	5.90	2.76	2.09	4.95	< 0.17	6.89	4.4	101
01	2030	65	7.6	196	22.8	5.86	3.11	1.97	4.64	< 0.17	7.89	4.2	103
01	2245	52	7.6	201	25.4	7.29	3.10	2.04	5.16	< 0.17	8.12	4.6	114
02 02	0845 1800	36 37	7.5 7.4	244 295	32.1 41.3	9.50 12.6	2.68 2.31	2.29 2.87	6.55 8.44	0.17 <0.17	8.72 9.65	5.7 7.4	142 173
04	0645	6.6	7.4	397	54.2	16.7	1.62	4.02	12.3	0.17	9.81	10.9	236
· ····	00.0	0.0		27.	· ··-	10.,			12.0	V	,.o.		

 $[(National\ Water-Quality\ Assessment\ Program),\ White\ River\ Basin,\ Miami\ River\ Basin\ Study\ Unit] \\ -- Continued$

	Residue on	Ammonia +		Nitrite +		Ortho- phos-	Partic- ulate		Total	Inor- ganic	Organic		
	evap.	org-N,	Ammonia	nitrate	Nitrite	phate,	nitro-	Phos-	carbon,	carbon,	carbon,	-	Mangan-
	at	water,	water,	water	water,	water,	gen,	phorus,	suspnd	suspnd	suspnd	Iron,	ese,
	180degC wat flt	unfltrd mg/L	fltrd, mg/L	fltrd, mg/L	fltrd, mg/L	fltrd, mg/L	susp, water,	water, unfltrd	sedimnt total,	sedimnt total,	sedimnt total,	water, fltrd,	water, fltrd,
Date	mg/L	as N	as N	as N	as N	as P	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L
	(70300)	(00625)	(00608)	(00631)	(00613)	(00671)	(49570)	(00665)	(00694)	(00688)	(00689)	(01046)	(01056)
APR													
17	292	0.57	< 0.04	7.83	0.049	< 0.02	0.12	0.021	0.3	< 0.1	0.3	E5	16.3
25		0.46	0.04	8.79	0.057	E0.01		0.028					
MAY	251	1.4	-0.04	10.4	0.102	.0.00	0.60	0.177	2.4	.0.1	2.4	47	0.2
05-06	251	1.4 2.3	<0.04 0.13	12.4 9.43	0.103 0.107	<0.02 E0.01	0.60 1.16	0.177 0.47	2.4 9.4	<0.1 <0.1	2.4 9.3	47 36	8.2 13.7
05 05	262	0.70	< 0.13	9.43 12.7	0.107	< 0.02	0.53	0.47	9.4 1.1	<0.1	9.3 1.0	36 45	18.4
05	249	2.3	< 0.04	11.1	0.120	< 0.02	0.95	0.30	5.1	<0.1	5.1	47	10.0
06	281	0.65	< 0.04	11.8	0.114	< 0.02	0.14	0.081	0.6	<0.1	0.6	25	4.2
06	263	0.47	< 0.04	11.8	0.089	< 0.02	0.13	0.042	0.3	<0.1	0.3	E7	4.5
	319	0.55	< 0.04	7.90	0.094	< 0.02	0.09	0.039	0.4	< 0.1	0.4	- 9	10.3
28 JUN 12 JUN													
12	316	0.46	E0.04	5.69	0.119	< 0.02	< 0.02	0.050	0.6	0.1	0.5	26	15.7
14-15	345	0.67	< 0.04	11.7	0.098	< 0.02	0.18	0.06	0.4	< 0.1	0.4	19	3.3
14	323	1.1	< 0.04	12.6	0.068	< 0.02	< 0.02	0.141	1.9	0.3	1.6	48	11.1
14	318	0.74	< 0.04	12.8	0.039	E0.01	0.21	0.09	0.8	< 0.1	0.8	12	4.4
14 15	319 340	0.65 0.38	<0.04 <0.04	12.7 11.7	0.138 0.041	<0.02 <0.02	0.31 0.16	0.07 0.05	1.4 0.7	<0.1 <0.1	1.4 0.7	13 E5	8.9 7.9
24	336	0.38	<0.04	8.78	0.041	<0.02	0.16	0.03	0.7	<0.1	0.7	E5 E5	5.1
JUL	330	0.54	<0.04	0.70	0.000	<0.02	0.00	0.020	0.5	₹0.1	0.5	153	3.1
05-08	141	1.3	< 0.04	5.68	0.120	0.06	0.29	0.31	1.8	< 0.1	1.8	116	4.3
05	153	3.5	E0.02	4.87	0.065	E0.02	2.52	0.94	25.8	0.4	25.4	115	5.9
05	108	2.0	0.19	6.49	0.048	0.15	1.29	0.51	6.8	0.2	6.6	23	9.3
05	103	1.7	< 0.04	5.89	0.064	< 0.02	0.53	0.38	2.5	< 0.1	2.4	72	10.9
05	132	1.5	E0.02	6.20	0.104	0.06	0.29	0.36	1.9	1.3	0.6	205	6.4
05	151	1.3	< 0.04	6.70	0.210	0.03	0.25	0.28	1.2	< 0.1	1.2	39	2.5
05		1.5	0.26	3.27	E0.007	0.03		0.31	 .				
07	173	1.3	0.13	4.96	0.130	0.08	0.28	0.22	1.4	< 0.1	1.4	69	6.2
08	227	1.3	< 0.04	4.96	0.188	0.03	0.18	0.196	1.1	<0.1	1.1	31	17.2
15 SEP	304	0.46	< 0.04	14.9	0.080	0.12	0.06	0.047	0.5	< 0.1	0.5	19	26.2
01	154	0.88	< 0.04	1.74	0.097	< 0.02	0.51	0.22	1.5	0.2	1.3	116	12.6
SEP	134	0.88	<0.04	1.74	0.097	<0.02	0.51	0.22	1.5	0.2	1.5	110	12.0
01-04	165	0.81	< 0.04	1.86	0.027	< 0.18	0.17	0.174	1.0	< 0.1	1.0	126	3.2
01	167	0.89	< 0.04	1.73	0.077	< 0.02	0.38	0.24	2.9	<0.1	2.9	99	7.0
01													
01	122	0.82	< 0.04	0.62	0.016	< 0.02	0.23	0.20	1.4	< 0.1	1.4	114	6.8
01	123	0.96	< 0.04	0.65	0.065	< 0.02	0.28	0.22	1.3	< 0.1	1.3	211	6.2
01	143	1.0	< 0.04	0.87	0.064	< 0.02	0.20	0.21	1.0	< 0.1	1.0	183	7.5
02	155	0.86	< 0.04	1.32	0.050	< 0.18	0.15	0.176	0.9	< 0.1	0.9	142	3.5
02	187	0.87	< 0.04	1.88	0.059	< 0.02	0.11	0.148	0.7	< 0.1	0.7	109	2.6
04	246	0.69	< 0.04	2.92	0.013	0.04	0.12	0.096	0.5	< 0.1	0.5	43	12.1

[(National Water-Quality Assessment Program), White River Basin, Miami River Basin Study Unit]—Continued

Date	1-Naph- thol, water, fltrd 0.7u GF ug/L (49295)	2,6-Di- ethyl- aniline water fltrd 0.7u GF ug/L (82660)	2-[(2- Et-6-Me -Ph)- -amino] propan- 1-ol, ug/L (61615)	2Chloro -2,6'-' diethyl acet- anilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)	2-Ethyl -6- methyl- aniline water, fltrd, ug/L (61620)	3,4-Di- chloro- aniline water fltrd, ug/L (61625)	4Chloro 2methyl phenol, water, fltrd, ug/L (61633)	Aceto- chlor ESA, water, fltrd 0.7u GF ug/L (61029)	Aceto- chlor OA, water, fltrd 0.7u GF ug/L (61030)	Aceto- chlor, water, fltrd, ug/L (49260)	Ala- chlor ESA, water, fltrd 0.7u GF ug/L (50009)	Ala- chlor OA, water, fltrd 0.7u GF ug/L (61031)
APR													
17	< 0.09	< 0.006	< 0.1	< 0.005	E0.045	< 0.004	0.005	E0.005			0.021		
25 MAY													
05-06	< 0.09	< 0.006	< 0.1	< 0.005	E0.085	< 0.004	< 0.004	< 0.006	0.23	0.10	0.023	0.10	< 0.05
05	< 0.09	< 0.006	< 0.1	< 0.005	E0.097	< 0.004	< 0.004	< 0.006	0.16	0.07	0.043	< 0.05	< 0.05
05	< 0.09	< 0.006	< 0.1	< 0.005	E0.095	< 0.004	< 0.004	< 0.006	0.15	0.08	0.028	0.07	< 0.05
05	< 0.09	< 0.006	< 0.1	< 0.005	E0.093	< 0.004	< 0.004	< 0.006	0.28	0.13	0.030	0.08	0.05
06	< 0.09	< 0.006	< 0.1	< 0.005	E0.079	< 0.004	< 0.004	< 0.006	0.22	0.07	0.007	0.08	< 0.05
06	< 0.09	< 0.006	< 0.1	< 0.005	E0.090	< 0.004	< 0.004	< 0.006	0.13	< 0.05	E0.005	0.06	< 0.05
28	< 0.09	< 0.006	< 0.1	< 0.005	E0.152	< 0.004	< 0.004	< 0.006	< 0.05	< 0.05	0.051	< 0.05	< 0.05
JUN													
12	< 0.09	< 0.006	< 0.1	< 0.005	E0.116	< 0.004	< 0.004	< 0.006	0.07	< 0.05	0.042	< 0.05	< 0.05
JUN													
14-15	< 0.09	< 0.006	< 0.1	< 0.005	E0.289	< 0.004	< 0.004	< 0.006	0.48	0.45	0.049	< 0.05	< 0.05
14	< 0.09	< 0.006	< 0.1	< 0.005	E0.450	< 0.004	< 0.004	< 0.006	0.86	0.71	E0.080	< 0.05	< 0.05
14	< 0.09	< 0.006	< 0.1	< 0.005	E0.281	< 0.004	< 0.004	< 0.006	0.43	0.42	0.048	< 0.05	< 0.05
14	< 0.09	< 0.006	< 0.1	< 0.005	E0.356	E0.002	< 0.004	< 0.006	0.84	0.66	0.062	0.05	< 0.05
15	< 0.09	< 0.006	< 0.1	< 0.005	E0.188	E0.002	< 0.004	< 0.006	0.42	0.23	0.020	< 0.05	< 0.05
24	< 0.09	< 0.006	< 0.1	< 0.005	E0.104	< 0.004	< 0.004	< 0.006	0.14	< 0.05	< 0.006	0.07	< 0.05
JUL													
05-08	< 0.09	< 0.006	< 0.1	< 0.005	E0.737	< 0.004	< 0.004	< 0.006	1.94	1.51	0.224	0.07	0.05
05	< 0.09	< 0.006	< 0.1	< 0.005	E0.517	< 0.004	< 0.004	< 0.006	< 0.05	< 0.05	0.017	< 0.05	< 0.05
05	< 0.09	< 0.006	< 0.1	< 0.005	E1.25	< 0.004	< 0.004	< 0.006	0.50	0.36	0.066	< 0.05	< 0.05
05	< 0.09	< 0.006	< 0.1	< 0.005	E1.19	< 0.004	< 0.004	< 0.006	1.79	1.34	0.226	< 0.05	< 0.05
05	< 0.09	< 0.006	< 0.1	< 0.005	E1.19	< 0.004	< 0.004	< 0.006	2.14	1.60	0.257	< 0.05	< 0.05
05	< 0.09	< 0.006	< 0.1	< 0.005	E0.789	< 0.004	< 0.004	< 0.006	2.55	2.36	0.317	< 0.05	0.06
05	< 0.09	< 0.006	< 0.1	< 0.005	E1.46	< 0.004	< 0.004	< 0.006	1.89	1.43	0.333	< 0.05	0.05
07	< 0.09	< 0.006	< 0.1	< 0.005	E0.914	< 0.004	< 0.004	< 0.006	1.45	1.02	0.166	< 0.05	0.05
08	< 0.09	< 0.006	< 0.1	< 0.005	E0.639	< 0.004	< 0.004	< 0.006	1.41	0.78	0.061	< 0.05	0.07
15	< 0.09	< 0.006	< 0.1	< 0.005	E0.204	E0.002	< 0.004	< 0.006	0.74	0.26	0.013	< 0.05	< 0.05
SEP													
01	< 0.09	< 0.006	< 0.1	< 0.005	E0.178	< 0.004	< 0.004	< 0.006	0.32	0.14	0.010	0.08	< 0.05
SEP	0.00	0.006	0.4	0.005	T0 151	0.004	0.004	0.006	0.50	0.21	0.000	0.05	0.05
01-04	< 0.09	< 0.006	< 0.1	< 0.005	E0.174	< 0.004	< 0.004	< 0.006	0.73	0.21	0.008	< 0.05	< 0.05
01	< 0.09	< 0.006	< 0.1	< 0.005	E0.149	< 0.004	< 0.004	< 0.006	0.22	0.09	E0.004	0.06	< 0.05
01													
01	< 0.09	< 0.006	< 0.1	< 0.005	E0.161	< 0.004	< 0.004	< 0.006	0.58	0.21	0.012	< 0.05	< 0.05
01	< 0.09	< 0.006	< 0.1	< 0.005	E0.152	< 0.004	< 0.004	< 0.006	0.65	0.26	0.010	< 0.05	< 0.05
01	< 0.09	< 0.006	< 0.1	< 0.005	E0.171	< 0.004	< 0.004	< 0.006	0.74	0.29	0.010	< 0.05	< 0.05
02	< 0.09	< 0.006	< 0.1	< 0.005	E0.147	< 0.004	< 0.004	< 0.006	0.89	0.30	0.011	< 0.05	< 0.05
02	< 0.09	< 0.006	< 0.1	< 0.005	E0.148	< 0.004	< 0.004	< 0.006	0.93	0.25	0.008	< 0.05	< 0.05
04	< 0.09	< 0.006	< 0.1	< 0.005	E0.135	< 0.004	< 0.004	< 0.006	0.45	0.05	E0.006	0.09	< 0.05

 $[(National\ Water-Quality\ Assessment\ Program),\ White\ River\ Basin,\ Miami\ River\ Basin\ Study\ Unit] \\ -- Continued$

	A.1-	A 4	Azin- phos-	Azin- phos-	Ben- flur-	Car-	Chlor-	Ch1	cis- Per-	Cfl	Commen	DCDA	Desulf- inyl
	Ala- chlor,	Atra- zine,	methyl oxon,	methyl, water,	alin, water,	baryl, water,	pyrifos oxon,	Chlor- pyrifos	methrin water	Cyflu- thrin,	Cyper- methrin	DCPA, water	fipro- nil,
	water,	water,	water,	fltrd	fltrd	fltrd	water,	water,	fltrd	water,	water,	fltrd	water,
	fltrd,	fltrd,	fltrd,	0.7u GF	0.7u GF	0.7u GF	fltrd,	fltrd,	0.7u GF	fltrd,	fltrd,	0.7u GF	fltrd,
Date	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
	(46342)	(39632)	(61635)	(82686)	(82673)	(82680)	(61636)	(38933)	(82687)	(61585)	(61586)	(82682)	(62170)
APR													
17	< 0.004	0.132	< 0.02	< 0.050	< 0.010	< 0.041	< 0.06	< 0.005	< 0.006	< 0.008	< 0.009	< 0.003	< 0.004
25													
MAY	0.004	0.225	0.02	0.050	0.040	0.044	0.06	E0.004	0.007	0.000	0.000	0.002	0.004
05-06	< 0.004	0.337	< 0.02	< 0.050	< 0.010	< 0.041	< 0.06	E0.004	< 0.006	< 0.008	< 0.009	< 0.003	< 0.004
05	E0.003	0.218	< 0.02	< 0.050	< 0.010	< 0.041	< 0.06	E0.004	< 0.006	<0.008	< 0.009	< 0.003	< 0.004
05	< 0.004	0.425	< 0.02	< 0.050	< 0.010	< 0.041	< 0.06	0.005	< 0.006	<0.008	< 0.009	< 0.003	< 0.004
05	< 0.004	0.319	< 0.02	< 0.050	< 0.010	<0.041 <0.041	< 0.06	0.007	<0.006	<0.008	< 0.009	< 0.003	< 0.004
06 06	<0.004 <0.004	0.464 0.328	<0.02 <0.02	<0.050 <0.050	<0.010 <0.010	<0.041	<0.06 <0.06	E0.002 E0.002	<0.006 <0.006	<0.008 <0.008	<0.009 <0.009	<0.003 <0.003	<0.004 <0.004
28	< 0.004	1.94	<0.02	< 0.050	< 0.010	<0.041	< 0.06	E0.002 E0.004	<0.006	<0.008	<0.009	< 0.003	< 0.004
JUN	<0.003	1.94	<0.02	<0.030	<0.010	<0.041	<0.00	E0.004	<0.000	<0.008	<0.009	<0.003	<0.004
12	< 0.007	0.587	< 0.02	< 0.050	< 0.010	< 0.041	< 0.06	< 0.005	< 0.006	< 0.008	< 0.009	< 0.003	< 0.004
JUN	10.007	0.007	10.02	10.000	10.010	10.0.1	10.00	10.002	10.000	10.000	10.007	10.002	10.00
14-15	< 0.004	0.978	< 0.02	< 0.050	< 0.010	< 0.041	< 0.06	< 0.005	< 0.006	< 0.008	< 0.009	< 0.003	< 0.004
14	< 0.004	1.21	< 0.02	< 0.050	< 0.010	E0.013	< 0.06	< 0.005	< 0.006	< 0.008	< 0.009	< 0.003	< 0.004
14	< 0.004	0.944	< 0.02	< 0.050	< 0.010	< 0.041	< 0.06	E0.003	< 0.006	< 0.008	< 0.009	< 0.003	< 0.004
14	< 0.004	0.982	< 0.02	< 0.050	< 0.010	< 0.041	< 0.06	< 0.005	< 0.006	< 0.008	< 0.009	< 0.003	< 0.004
15	< 0.004	0.561	< 0.02	< 0.050	< 0.010	< 0.041	< 0.06	< 0.005	< 0.006	< 0.008	< 0.009	< 0.003	< 0.004
24	< 0.004	0.314	< 0.02	< 0.050	< 0.010	< 0.041	< 0.06	< 0.005	< 0.006	< 0.008	< 0.009	< 0.003	< 0.004
JUL			0.00	0.050	0.040	T0 040	0.06	0.020	0.006			0.002	0.004
05-08	0.008	6.24	< 0.02	< 0.050	< 0.010	E0.010	< 0.06	0.030	< 0.006	< 0.008	< 0.009	< 0.003	< 0.004
05	0.009	14.4	< 0.02	< 0.050	< 0.010	< 0.041	< 0.06	< 0.005	< 0.006	<0.008	< 0.009	< 0.003	< 0.004
05	< 0.004	9.26 7.81	< 0.02	< 0.050	< 0.010	< 0.041	< 0.06	0.057	< 0.006	<0.008	< 0.009	< 0.003	< 0.004
05	<0.004 0.009	5.35	<0.02 <0.02	<0.050 <0.050	<0.010 <0.010	<0.041 <0.041	<0.06 <0.06	0.047 0.044	<0.006 <0.006	<0.008 <0.008	<0.009 <0.009	<0.003 <0.003	<0.004 <0.004
05 05	< 0.009	4.37	<0.02	< 0.050	< 0.010	<0.041	< 0.06	0.044	<0.006	<0.008	<0.009	<0.003	< 0.004
05	<0.008	7.48	<0.12	< 0.050	<0.010	E0.016	< 0.06	0.024	<0.006	<0.008	<0.009	< 0.003	< 0.004
07	< 0.004	7.15	< 0.02	< 0.050	< 0.010	E0.010	< 0.06	0.003	< 0.006	< 0.008	< 0.009	< 0.003	< 0.004
08	< 0.004	2.42	< 0.02	< 0.050	< 0.010	E0.008	< 0.06	0.007	< 0.006	< 0.008	< 0.009	< 0.003	< 0.004
15	< 0.004	0.613	< 0.02	< 0.050	< 0.010	< 0.041	< 0.06	< 0.005	< 0.006	< 0.008	< 0.009	< 0.003	< 0.004
SEP	10.00 i	0.015	V0.02	10.050	0.010	Q0.0 11	νο.σο	νο.σσο	νο.σσο	νο.σσο	(0.00)	10.00 5	νο.σοι
01	< 0.004	0.290	< 0.02	< 0.050	< 0.010	< 0.041	< 0.06	E0.003	< 0.006	< 0.008	< 0.009	< 0.003	< 0.004
SEP													
01-04	< 0.004	0.273	< 0.03	< 0.050	< 0.010	< 0.041	< 0.06	< 0.005	< 0.006	< 0.008	< 0.009	< 0.003	< 0.004
01	< 0.004	0.294	< 0.02	< 0.050	< 0.010	< 0.041	< 0.06	< 0.005	< 0.006	< 0.008	< 0.009	< 0.003	< 0.004
01						<1		< 0.5					
01	< 0.004	0.213	< 0.02	< 0.050	< 0.010	< 0.041	< 0.06	E0.004	< 0.006	< 0.008	< 0.009	< 0.003	< 0.004
01	< 0.004	0.197	< 0.03	< 0.050	< 0.010	< 0.041	< 0.06	0.006	< 0.006	< 0.008	< 0.009	< 0.003	< 0.004
01	< 0.004	0.209	< 0.03	< 0.050	< 0.010	< 0.041	< 0.06	E0.005	< 0.006	< 0.008	< 0.009	< 0.003	< 0.004
02	< 0.004	0.252	< 0.03	< 0.050	< 0.010	< 0.041	< 0.06	E0.004	< 0.006	< 0.008	< 0.009	< 0.003	< 0.004
02	< 0.004	0.298	< 0.03	< 0.050	< 0.010	< 0.041	< 0.06	E0.004	< 0.006	< 0.008	< 0.009	< 0.003	< 0.004
04	< 0.004	0.748	< 0.03	< 0.050	< 0.010	< 0.041	< 0.06	< 0.005	< 0.006	< 0.008	< 0.009	< 0.003	< 0.004

03361638 LEARY WEBER DITCH AT MOHAWK, IN--Continued

[(National Water-Quality Assessment Program), White River Basin, Miami River Basin Study Unit]—Continued

					,								
Date	Diazinon oxon, water, fltrd, ug/L (61638)	Diazi- non, water, fltrd, ug/L (39572)	Dieldrin, water, fltrd, ug/L (39381)	Dimethenamid ESA, water, fltrd, ug/L (61951)	Dimethenamid OA, water, fltrd, ug/L (62482)	Dimethoate, water, fltrd 0.7u GF ug/L (82662)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Fenami- phos sulfone water, fltrd, ug/L (61645)	Fenami- phos sulf- oxide, water, fltrd, ug/L (61646)	Fenamiphos, water, fltrd, ug/L (61591)	Desulf- inyl- fipro- nil amide, wat flt ug/L (62169)	Fipronil sulfide water, fltrd, ug/L (62167)
APR													
17	< 0.04	< 0.005	< 0.005			< 0.006	< 0.03	< 0.004	< 0.008	< 0.03	< 0.03	< 0.009	< 0.005
25													
MAY													
05-06	< 0.01	< 0.005	< 0.005	< 0.05	< 0.05	< 0.006	< 0.03	< 0.004	< 0.008	< 0.03	< 0.03	< 0.009	< 0.005
05	< 0.01	E0.002	< 0.005	< 0.05	< 0.05	< 0.006	< 0.03	< 0.004	< 0.008	< 0.03	< 0.03	< 0.009	< 0.005
05	< 0.01	< 0.005	< 0.005	< 0.05	< 0.05	< 0.006	< 0.03	< 0.004	< 0.008	< 0.03	< 0.03	< 0.009	< 0.005
05	< 0.01	< 0.005	< 0.005	< 0.05	< 0.05	< 0.006	< 0.03	< 0.004	< 0.008	< 0.03	< 0.03	< 0.009	< 0.005
06	< 0.01	< 0.005	< 0.005	< 0.05	< 0.05	< 0.006	< 0.03	< 0.004	< 0.008	< 0.03	< 0.03	< 0.009	< 0.005
06	< 0.01	< 0.005	< 0.005	< 0.05	< 0.05	< 0.006	< 0.03	< 0.004	< 0.008	< 0.03	< 0.03	< 0.009	< 0.005
28	< 0.01	< 0.005	< 0.005	< 0.05	< 0.05	< 0.006	< 0.03	< 0.004	< 0.008	< 0.03	< 0.03	< 0.009	< 0.005
JUN	٧٥.01	10.005	10.005	10.05	10.05	νο.σσο	40.05	VO.00 I	10.000	10.05	20.05	(0.00)	10.005
12	< 0.01	< 0.005	< 0.005	< 0.05	< 0.05	< 0.006	< 0.03	< 0.006	< 0.008	< 0.03	< 0.03	< 0.009	< 0.005
12	<0.01	<0.003	<0.003	<0.03	<0.03	<0.000	<0.03	<0.000	<0.008	<0.03	<0.03	<0.009	<0.003
JUN	0.01	0.005	0.005	0.05	0.05	0.006	0.02	0.004	0.000	0.02	0.02	0.000	0.005
14-15	< 0.01	< 0.005	< 0.005	< 0.05	< 0.05	< 0.006	< 0.03	< 0.004	< 0.008	< 0.03	< 0.03	< 0.009	< 0.005
14	< 0.01	< 0.005	< 0.005	< 0.05	< 0.05	< 0.006	< 0.03	< 0.004	< 0.008	< 0.03	< 0.03	< 0.009	< 0.005
14	< 0.01	< 0.005	< 0.005	< 0.05	< 0.05	< 0.006	< 0.03	< 0.004	< 0.008	< 0.03	< 0.03	< 0.009	< 0.005
14	< 0.01	< 0.005	< 0.005	0.05	< 0.05	< 0.006	< 0.03	< 0.004	< 0.008	< 0.03	< 0.03	< 0.009	< 0.005
15	< 0.01	< 0.005	< 0.005	< 0.05	< 0.05	< 0.006	< 0.03	< 0.004	< 0.008	< 0.03	< 0.03	< 0.009	< 0.005
24	< 0.01	< 0.005	< 0.005	< 0.05	< 0.05	< 0.006	< 0.03	< 0.004	< 0.031	< 0.03	< 0.03	< 0.031	< 0.005
JUL	\0.01	CO.003	CO.003	CO.03	<0.03	<0.000	VO.03	₹0.00+	Q0.031	VO.03	VO.03	Q0.031	CO.003
05-08	<0.01	<0.005	< 0.005	-0.05	< 0.05	< 0.006	<0.02	<0.004	<0.00e	<0.02	< 0.03	<0.000	< 0.005
	< 0.01	< 0.005		< 0.05			< 0.03	< 0.004	<0.008	< 0.03		< 0.009	
05	< 0.01	< 0.005	< 0.005	< 0.05	< 0.05	< 0.006	< 0.03	< 0.004	< 0.008	< 0.03	< 0.03	< 0.009	< 0.005
05	< 0.01	< 0.005	< 0.005	< 0.05	< 0.05	< 0.006	< 0.03	< 0.004	< 0.008	< 0.03	< 0.03	< 0.009	< 0.005
05	< 0.01	< 0.005	< 0.005	< 0.05	< 0.05	< 0.006	< 0.03	< 0.004	< 0.008	< 0.03	< 0.03	< 0.009	< 0.005
05	< 0.01	< 0.005	< 0.005	< 0.05	< 0.05	< 0.006	< 0.03	< 0.004	< 0.008	< 0.03	< 0.03	< 0.009	< 0.005
05	< 0.01	< 0.005	< 0.005	< 0.05	< 0.05	< 0.006	< 0.03	< 0.004	< 0.008	< 0.12	< 0.03	< 0.009	< 0.005
05	< 0.01	< 0.005	< 0.005	< 0.05	< 0.05	< 0.006	< 0.03	< 0.004	< 0.008	< 0.03	< 0.03	< 0.009	< 0.005
07	< 0.01	< 0.005	< 0.005	0.07	< 0.05	< 0.006	< 0.03	< 0.004	< 0.008	< 0.03	< 0.03	< 0.009	< 0.005
08	< 0.01	< 0.005	< 0.005	0.35	0.14	< 0.006	< 0.03	< 0.004	< 0.008	< 0.03	< 0.03	< 0.009	< 0.005
15	< 0.01	< 0.005	< 0.005	0.14	0.06	< 0.006	< 0.03	< 0.004	< 0.008	< 0.03	< 0.03	< 0.009	< 0.005
SEP													
01	< 0.01	0.006	< 0.005	< 0.05	< 0.05	< 0.006	< 0.03	< 0.004	< 0.008	< 0.03	< 0.03	< 0.009	< 0.005
SEP													
01-04	< 0.01	< 0.005	< 0.005	0.06	< 0.05	< 0.006	< 0.03	< 0.004	< 0.008	< 0.03	< 0.03	< 0.009	< 0.005
01	< 0.01	E0.004	< 0.005	0.05	< 0.05	< 0.006	< 0.03	< 0.004	< 0.008	< 0.03	< 0.03	< 0.009	< 0.005
01		< 0.5											
01	< 0.01	E0.004	< 0.005	< 0.05	< 0.05	< 0.006	< 0.03	< 0.004	< 0.008	< 0.03	< 0.03	< 0.009	< 0.005
		< 0.005	< 0.005								< 0.03		< 0.005
01	< 0.01			< 0.05	< 0.05	< 0.006	< 0.03	< 0.004	<0.008	< 0.03		< 0.009	
01	< 0.01	E0.004	< 0.005	< 0.05	< 0.05	< 0.006	< 0.03	< 0.004	<0.008	< 0.03	< 0.03	< 0.009	< 0.005
02	< 0.01	< 0.005	< 0.005	0.06	< 0.05	< 0.006	< 0.03	< 0.004	< 0.008	< 0.03	< 0.03	< 0.009	< 0.005
02	< 0.01	< 0.005	< 0.005	0.09	< 0.05	< 0.006	< 0.03	< 0.004	< 0.008	< 0.03	< 0.03	< 0.009	< 0.005
04	< 0.01	< 0.005	< 0.005	0.09	< 0.05	< 0.006	< 0.03	< 0.004	< 0.008	< 0.03	< 0.03	< 0.009	< 0.005

 $[(National\ Water-Quality\ Assessment\ Program),\ White\ River\ Basin,\ Miami\ River\ Basin\ Study\ Unit] \\ -- Continued$

Date	Fipro- nil sulfone water, fltrd, ug/L (62168)	Fipro- nil, water, fltrd, ug/L (62166)	Flufenacet ESA, water, fltrd, ug/L (61952)	Flufe- nacet OA, water, fltrd, ug/L (62483)	Fonofos oxon, water, fltrd, ug/L (61649)	Fonofos water, fltrd, ug/L (04095)	Hexa- zinone, water, fltrd, ug/L (04025)	Iprodione, water, fltrd, ug/L (61593)	Isofen- phos, water, fltrd, ug/L (61594)	Mala- oxon, water, fltrd, ug/L (61652)	Malathion, water, fltrd, ug/L (39532)	Meta- laxyl, water, fltrd, ug/L (61596)	Methialthion water, fltrd, ug/L (61598)
APR													
17	< 0.005	< 0.007			< 0.002	< 0.003		<1	< 0.003	< 0.008	< 0.027	< 0.011	< 0.006
25													
MAY 05-06	< 0.005	< 0.007	< 0.05	< 0.05	< 0.002	< 0.003		<1	< 0.003	< 0.008	< 0.027	< 0.005	< 0.006
05	< 0.005	< 0.007	< 0.05	< 0.05	< 0.002	< 0.003		<1	< 0.003	< 0.008	< 0.027	< 0.005	<0.006
05	< 0.005	< 0.007	< 0.05	< 0.05	< 0.002	< 0.003		<1	< 0.003	< 0.008	< 0.027	< 0.006	< 0.006
05	< 0.005	< 0.007	< 0.05	< 0.05	< 0.002	< 0.003		<1	< 0.003	< 0.008	< 0.027	< 0.009	< 0.006
06	< 0.005	< 0.007	< 0.05	< 0.05	< 0.002	< 0.003		<1	< 0.003	< 0.008	< 0.027	< 0.005	< 0.006
06	< 0.005	< 0.007	< 0.05	< 0.05	< 0.002	< 0.003		<1	< 0.003	< 0.008	< 0.027	< 0.005	< 0.006
28	< 0.005	< 0.007	< 0.05	< 0.05	< 0.002	< 0.003	< 0.013	<1	< 0.003	< 0.008	< 0.027	< 0.005	< 0.006
JUN													
12	< 0.005	< 0.007	< 0.05	< 0.05	< 0.002	< 0.003	< 0.013	<1	< 0.003	< 0.008	< 0.027	< 0.005	< 0.006
JUN													
14-15	< 0.005	< 0.007	< 0.05	< 0.05	< 0.002	< 0.003	< 0.013	<1	< 0.003	< 0.008	< 0.027	< 0.005	< 0.006
14	< 0.005	< 0.007	< 0.05	< 0.05	< 0.002	< 0.003	< 0.013	<1	< 0.003	< 0.008	< 0.027	< 0.005	< 0.006
14	< 0.005	< 0.007	< 0.05	< 0.05	< 0.002	< 0.003	< 0.013	<1	< 0.003	< 0.008	< 0.027	< 0.005	< 0.006
14	< 0.005	< 0.007	< 0.05	< 0.05	< 0.002	< 0.003	< 0.013	<1	< 0.003	< 0.008	< 0.027	< 0.005	< 0.006
15	< 0.005	< 0.007	< 0.05	< 0.05	< 0.002	< 0.003	< 0.013	<1	< 0.003	< 0.008	< 0.027	< 0.005	< 0.006
24	< 0.005	< 0.007	< 0.05	< 0.05	< 0.002	< 0.003	< 0.013	<1	< 0.003	< 0.008	< 0.027	< 0.005	< 0.006
JUL	0.005	0.007	0.05	0.05	0.002	0.002	0.012		0.002	0.000	0.007	0.005	0.006
05-08	< 0.005	< 0.007	< 0.05	< 0.05	< 0.002	< 0.003	< 0.013	<1	< 0.003	<0.008	< 0.027	< 0.005	<0.006
05	< 0.005	< 0.007	< 0.05	< 0.05	< 0.002	< 0.003	< 0.013	<1	< 0.003	< 0.008	< 0.027	< 0.005	< 0.006
05	< 0.005	< 0.007	< 0.05	< 0.05	< 0.002	< 0.003	< 0.013	<1	< 0.003	< 0.008	< 0.027	< 0.005	< 0.006
05	< 0.005	< 0.007	< 0.05	< 0.05	< 0.002	< 0.003	<0.013 <0.013	<1	< 0.003	<0.008	< 0.027	< 0.005	< 0.006
05	<0.005 <0.005	<0.007 <0.007	<0.05 <0.05	<0.05 <0.05	<0.002 <0.002	<0.003 <0.003	<0.013	<1	<0.003 <0.003	<0.008 <0.008	<0.027 <0.027	<0.005 <0.005	<0.006 <0.006
05 05	<0.005	<0.007	<0.05	<0.05	<0.002	<0.003	<0.013	<1	<0.003	<0.008	<0.027	<0.005	< 0.006
03 07	< 0.005	<0.007	<0.05	< 0.05	<0.002	<0.003	< 0.013	<1 <1	<0.003	<0.008	<0.027	<0.005	< 0.006
08	< 0.005	< 0.007	< 0.05	< 0.05	<0.002	< 0.003	< 0.013	<1	< 0.003	< 0.008	< 0.027	< 0.005	< 0.006
15	< 0.005	< 0.007	< 0.05	< 0.05	< 0.002	< 0.003	< 0.013	<1	< 0.003	< 0.008	< 0.027	< 0.005	< 0.006
SEP	<0.003	<0.007	<0.03	<0.03	<0.002	<0.003	<0.013	\1	<0.003	<0.008	<0.027	<0.003	<0.000
01	< 0.005	< 0.007	< 0.05	< 0.05	< 0.002	< 0.003	< 0.013	<1	< 0.003	< 0.008	< 0.027	< 0.005	< 0.006
SEP	10.00 5	νο.σογ	νο.ου	٧٥.٥٥	10.002	10.00 5	VO.01 5	~1	10.00 5	10.000	10.027	νο.σσο	νο.σσο
01-04	< 0.005	< 0.007	< 0.05	< 0.05	< 0.002	< 0.003	< 0.013	<1	< 0.003	< 0.008	< 0.027	< 0.005	< 0.006
01	< 0.005	< 0.007	< 0.05	< 0.05	< 0.002	< 0.003	< 0.013	<1	< 0.003	< 0.008	< 0.027	< 0.005	< 0.006
01													
01	< 0.005	< 0.007	< 0.05	< 0.05	< 0.002	< 0.003	< 0.013	<1	< 0.003	< 0.008	< 0.027	< 0.005	< 0.006
01	< 0.005	< 0.007	< 0.05	< 0.05	< 0.002	< 0.003	< 0.013	<1	< 0.003	< 0.008	< 0.027	< 0.005	< 0.006
01	< 0.005	< 0.007	< 0.05	< 0.05	< 0.002	< 0.003	< 0.013	<1	< 0.003	< 0.008	< 0.027	< 0.005	< 0.006
02	< 0.005	< 0.007	< 0.05	< 0.05	< 0.002	< 0.003	< 0.013	<1	< 0.003	< 0.008	< 0.027	< 0.005	< 0.006
02	< 0.005	< 0.007	< 0.05	< 0.05	< 0.002	< 0.003	< 0.013	<1	< 0.003	< 0.008	< 0.027	< 0.005	< 0.006
04	< 0.005	< 0.007	< 0.05	< 0.05	< 0.002	< 0.003	< 0.013	<1	< 0.003	< 0.008	< 0.027	< 0.005	< 0.006

[(National Water-Quality Assessment Program), White River Basin, Miami River Basin Study Unit]—Continued

Date	Methyl para- oxon, water, fltrd, ug/L (61664)	Methyl para- thion, water, fltrd 0.7u GF ug/L (82667)	Metola- chlor ESA, water, fltrd 0.7u GF ug/L (61043)	Metola- chlor OA, water, fltrd 0.7u GF ug/L (61044)	Metola- chlor, water, fltrd, ug/L (39415)	Metri- buzin, water, fltrd, ug/L (82630)	Myclo- butanil water, fltrd, ug/L (61599)	Pendi- meth- alin, water, fltrd 0.7u GF ug/L (82683)	Phorate oxon, water, fltrd, ug/L (61666)	Phorate water fltrd 0.7u GF ug/L (82664)	Phosmet oxon, water, fltrd, ug/L (61668)	Phosmet water, fltrd, ug/L (61601)	Prometon, water, fltrd, ug/L (04037)
APR													
17	< 0.03	< 0.006			0.029	< 0.006	< 0.008	< 0.022	< 0.10	< 0.011	< 0.06	< 0.008	E0.01
25													
MAY													
05-06	< 0.03	< 0.006	0.31	0.14	0.093	< 0.006	< 0.008	E0.019	< 0.10	< 0.011	< 0.06	< 0.008	M
05	< 0.03	< 0.006	0.17	0.06	0.023	< 0.006	< 0.008	< 0.022	< 0.10	< 0.011	< 0.06	< 0.008	E0.01
05	< 0.03	< 0.006	0.27	0.12	0.150	< 0.006	< 0.008	E0.016	< 0.10	< 0.011	< 0.06	< 0.008	M
05	< 0.03	< 0.006	0.29	0.15	0.093	< 0.006	< 0.008	E0.017	< 0.10	< 0.011	< 0.06	< 0.008	M
06	< 0.03	< 0.006	0.37	0.15	0.114	< 0.006	< 0.008	E0.015	< 0.10	< 0.011	< 0.06	< 0.008	< 0.01
06	< 0.03	< 0.006	0.31	0.10	0.074	< 0.006	< 0.008	E0.011	< 0.10	< 0.011	< 0.06	< 0.008	< 0.01
28	< 0.03	< 0.006	0.14	< 0.05	0.051	< 0.006	< 0.008	< 0.022	< 0.10	< 0.011	< 0.06	< 0.008	< 0.01
JUN	-0.02	-0.006	0.22	-0.05	0.035	-0.006	-0.000	-0.022	-0.10	-0.011	-0.06	40,000	E0.01
12 JUN	< 0.03	< 0.006	0.22	< 0.05	0.035	< 0.006	< 0.008	< 0.022	< 0.10	< 0.011	< 0.06	< 0.008	E0.01
14-15	< 0.03	< 0.006	0.51	0.26	0.081	< 0.006	< 0.008	< 0.022	< 0.10	< 0.011	< 0.06	< 0.008	< 0.01
14-13	< 0.03	< 0.006	0.31	0.20	0.081	< 0.006	< 0.008	<0.022	< 0.10	< 0.011	< 0.06	<0.008	< 0.01
14	< 0.03	< 0.006	0.49	0.23	0.146	< 0.006	< 0.008	< 0.022	< 0.10	< 0.011	< 0.06	< 0.008	E0.01
14	< 0.03	< 0.006	0.56	0.28	0.084	< 0.006	< 0.008	< 0.022	< 0.10	< 0.011	< 0.06	< 0.008	< 0.01
15	< 0.03	< 0.006	0.35	0.13	0.044	< 0.006	< 0.008	< 0.022	< 0.10	< 0.011	< 0.06	< 0.008	< 0.01
24	< 0.03	< 0.006	0.28	0.05	E0.013	< 0.006	< 0.008	< 0.022	< 0.10	< 0.011	< 0.06	< 0.008	< 0.01
JUL	10.02	10.000	0.20	0.02	20.015	10.000	10.000	10.1022	10.10	10.011	10.00	10.000	10101
05-08	< 0.03	< 0.006	0.73	0.73	0.702	< 0.006	< 0.008	< 0.022	< 0.10	< 0.011	< 0.06	< 0.008	< 0.01
05	< 0.03	< 0.006	0.24	0.18	0.298	< 0.006	< 0.008	< 0.022	< 0.10	< 0.011	< 0.06	< 0.008	< 0.01
05	< 0.03	< 0.006	1.21	1.66	2.32	< 0.006	< 0.008	< 0.022	< 0.10	< 0.011	< 0.06	< 0.008	< 0.01
05	< 0.03	< 0.006	0.88	1.07	1.22	< 0.006	< 0.008	< 0.022	< 0.10	< 0.011	< 0.06	< 0.008	< 0.01
05	< 0.03	< 0.006	0.93	1.08	1.01	< 0.006	< 0.008	< 0.022	< 0.10	< 0.011	< 0.06	< 0.008	< 0.01
05	< 0.03	< 0.006	0.65	0.64	0.366	< 0.006	< 0.008	< 0.022	< 0.10	< 0.011	< 0.06	< 0.008	< 0.01
05	< 0.03	< 0.006	0.78	0.81	0.969	< 0.006	< 0.008	< 0.022	< 0.10	< 0.011	< 0.06	< 0.008	< 0.01
07	< 0.03	< 0.006	0.49	0.43	0.558	< 0.006	< 0.008	< 0.022	< 0.10	< 0.011	< 0.06	< 0.008	< 0.01
08	< 0.03	< 0.006	0.55	0.37	0.217	0.010	< 0.008	< 0.022	< 0.10	< 0.011	< 0.06	< 0.008	< 0.01
15	< 0.03	< 0.006	0.52	0.27	0.047	< 0.006	< 0.008	< 0.022	< 0.10	< 0.011	< 0.06	< 0.008	M
SEP													
01	< 0.03	< 0.006	0.91	0.49	0.059	< 0.006	< 0.008	< 0.022	< 0.10	< 0.011	< 0.06	< 0.008	E0.02
SEP	.0.02	-0.006	0.51	0.26	0.022	.0.006	-0.000	.0.000	.0.10	.0.011	.0.06	-0.000	E0.01
01-04	< 0.03	<0.006	0.51	0.26	0.033	<0.006	<0.008	<0.022	< 0.10	< 0.011	< 0.06	<0.008	E0.01
01	< 0.03	< 0.006	0.69	0.35	0.047	<0.006	< 0.008	< 0.022	< 0.10	< 0.011	< 0.06	< 0.008	E0.02
01 01	<0.03	<0.006	0.57	0.31	E0.1 0.058	< 0.006	< 0.008	< 0.022	<0.10	< 0.011	<0.06	< 0.008	<0.5 E0.01
01	< 0.03	< 0.006	0.37	0.31	0.038	< 0.006	< 0.008	<0.022	< 0.10	< 0.011	< 0.06	< 0.008	E0.01 E0.01
01	< 0.03	<0.006	0.48	0.25	0.033	<0.006	<0.008	<0.022	<0.10	< 0.011	< 0.06	<0.008	E0.01 E0.01
02	< 0.03	< 0.006	0.31	0.20	0.029	< 0.006	< 0.008	< 0.022	< 0.10	< 0.011	< 0.06	< 0.008	E0.01
02	< 0.03	< 0.006	0.40	0.20	0.018	< 0.006	< 0.008	< 0.022	<0.10	< 0.011	< 0.06	< 0.008	M
04	< 0.03	< 0.006	0.54	0.24	0.013	< 0.006	< 0.008	< 0.022	<0.10	< 0.011	< 0.06	< 0.008	M
· · · · ·	10.00	.0.000	0.0.	· ·	0.000	.0.000	.0.000			.0.011	10.00	.0.000	

 $[(National\ Water-Quality\ Assessment\ Program),\ White\ River\ Basin,\ Miami\ River\ Basin\ Study\ Unit] \\ -- Continued$

					Ter-			Tri-	ъ.	Sus-
	ъ	Pron-	a.	Tebu-	bufos	Terbu-	Ter-	flur-	Di-	pended
	Prome-	amide,	Sima-	thiuron	oxon	fos,	buthyl-	alin,	chlor-	sedi-
	tryn,	water,	zine,	water	sulfone	water,	azine,	water,	vos,	ment
	water,	fltrd	water,	fltrd	water,	fltrd	water,	fltrd	water	concen-
Doto	fltrd,	0.7u GF	fltrd,	0.7u GF	fltrd,	0.7u GF	fltrd,	0.7u GF	fltrd,	tration
Date	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L
	(04036)	(82676)	(04035)	(82670)	(61674)	(82675)	(04022)	(82661)	(38775)	(80154)
APR										
17	< 0.005	< 0.004	0.006	< 0.02	< 0.07	< 0.02	< 0.01	< 0.009	< 0.01	23
25										
MAY										
05-06	< 0.005	< 0.004	E0.004	< 0.02	< 0.07	< 0.02	< 0.01	< 0.009	< 0.01	84
05	< 0.005	< 0.004	E0.004	< 0.02	< 0.07	< 0.02	< 0.01	< 0.009	< 0.01	256
05	< 0.005	< 0.004	E0.004	< 0.02	< 0.07	< 0.02	< 0.01	< 0.009	< 0.01	186
05	< 0.005	< 0.004	E0.004	< 0.03	< 0.07	< 0.02	< 0.01	< 0.009	< 0.01	234
06	< 0.005	< 0.004	E0.003	< 0.02	< 0.07	< 0.02	< 0.01	< 0.009	< 0.01	30
06	< 0.005	< 0.004	< 0.005	< 0.02	< 0.07	< 0.02	< 0.01	< 0.009	< 0.01	15
28	< 0.005	< 0.004	< 0.015	< 0.02	< 0.07	< 0.02	< 0.01	< 0.009	< 0.01	21
JUN	0.005	0.004	0.006	0.00		0.00	0.01	0.000	0.01	
12	< 0.005	< 0.004	0.006	< 0.02	< 0.07	< 0.02	< 0.01	< 0.009	< 0.01	17
JUN	0.005	0.004	0.007	0.02	0.07	0.00	0.01	0.000	0.01	1.7
14-15	< 0.005	< 0.004	0.007	< 0.02	< 0.07	< 0.02	< 0.01	< 0.009	< 0.01	17
14	< 0.005	< 0.004	0.007	<0.02	< 0.07	<0.02	< 0.01	<0.009	< 0.01	63
14	< 0.005	< 0.004	0.006	< 0.02	< 0.07	< 0.02	< 0.01	< 0.009	< 0.01	30
14	< 0.005	< 0.004	0.006	<0.02	< 0.07	<0.02	< 0.01	<0.009	< 0.01	30
15	< 0.005	< 0.004	< 0.005	< 0.03	< 0.07	< 0.02	< 0.01	< 0.009	< 0.01	26
24	< 0.005	< 0.004	< 0.005	< 0.02	< 0.07	< 0.02	< 0.01	< 0.009	< 0.01	16
JUL 05-08	<0.005	<0.004	0.022	E0.02	<0.07	<0.02	<0.01	<0.000	<0.01	95
05-08	<0.005 <0.005	<0.004 <0.004	0.023 0.043	E0.03 <0.02	<0.07 <0.07	<0.02 <0.02	<0.01 E0.01	<0.009 <0.009	<0.01 <0.01	758
05	< 0.005	<0.004	0.043	0.02	<0.07	<0.02	< 0.01	<0.009	< 0.01	283
05	< 0.005	<0.004	0.042	0.03	<0.07	<0.02	< 0.01	<0.009	< 0.01	263
05	< 0.005	< 0.004	0.040	0.03	< 0.07	<0.02	< 0.01	< 0.009	< 0.01	96
05	< 0.005	< 0.004	0.023	E0.03	< 0.07	< 0.02	< 0.01	< 0.009	< 0.01	37
05	< 0.005	< 0.004	0.021	0.04	< 0.07	<0.02	E0.01	< 0.009	< 0.01	
07	< 0.005	< 0.004	0.047	< 0.04	< 0.07	< 0.02	M	< 0.009	< 0.01	53
08	< 0.005	< 0.004	0.034	0.02	< 0.07	< 0.02	< 0.01	< 0.009	< 0.01	8
15	< 0.005	< 0.004	0.026	< 0.02	< 0.07	< 0.02	< 0.01	< 0.009	< 0.01	10
SEP	CO.003	₹0.00+	0.000	V0.02	Q0.07	V0.02	VO.01	<0.007	VO.01	10
01	< 0.005	< 0.004	0.005	E0.02	< 0.07	< 0.02	< 0.01	< 0.009	< 0.01	27
SEP	10.005	40.00 i	0.005	20.02	νο.σ /	Q0.02	Q0.01	(0.00)	Q0.01	
01-04	< 0.005	< 0.004	E0.004	0.02	< 0.07	< 0.02	< 0.01	E0.005	< 0.01	25
01	< 0.005	< 0.004	< 0.005	< 0.02	< 0.07	< 0.02	< 0.01	< 0.009	< 0.01	75
01									<1.00	
01	< 0.005	< 0.004	E0.005	E0.03	< 0.07	< 0.02	< 0.01	< 0.009	< 0.01	37
01	< 0.005	< 0.004	E0.004	0.03	< 0.07	< 0.02	< 0.01	< 0.009	< 0.01	27
01	< 0.005	< 0.004	E0.005	0.04	< 0.07	< 0.02	< 0.01	< 0.009	< 0.01	33
02	< 0.005	< 0.004	0.005	0.02	< 0.07	< 0.02	< 0.01	< 0.009	< 0.01	15
02	< 0.005	< 0.004	E0.004	< 0.03	< 0.07	< 0.02	< 0.01	< 0.009	< 0.01	13
04	< 0.005	< 0.004	0.006	< 0.02	< 0.07	< 0.02	< 0.01	< 0.009	< 0.01	15

03361650 SUGAR CREEK AT NEW PALESTINE, IN

LOCATION.--Lat 39°42'51", long 85°53'08", in SE 1 /₄SW 1 /₄ sec.29, T.15 N., R.6 E., Hancock County, Hydrologic Unit 05120204, (ACTON, IN quadrangle), 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 at mile 37.3 mi.

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 National Geodetic Vertical Datum of 1929.

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

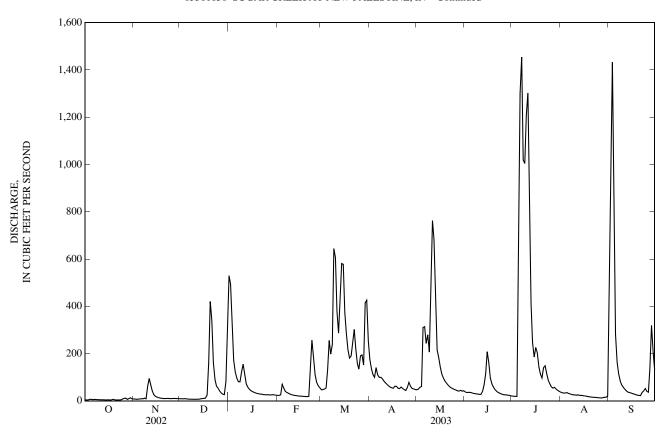
DISCHARGE, CUBIC FEET PER SECOND												
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES												
DAILY MEAN VALUES												
JAN	FEB	MAR	APR	MAY								
529	e23	e47	175	47								

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	7.9	8.8	529	e23	e47	175	47	38	20	37	540
2	3.8	7.4	8.8	494	e23	e47	136	50	35	20	34	1,090
3	3.8	6.5	8.3	316	e25	e50	111	57	36	19	33	1,430
4	6.0	7.1	9.3	171	e70	e54	99	60	36	19	34	895
5	6.8	8.1	7.7	122	e54	131	141	310	34	683	35	281
6	4.7	8.8	e7.4	96	e40	256	110	314	32	1,300	31	163
7	6.0	8.6	e7.2	81	e35	198	99	243	31	1,450	29	115
8	5.3	11	6.8	80	e32	238	100	279	30	1,020	27	84
9	4.9	8.4	e6.7	121	e28	644	93	206	29	1,000	25	67
10	4.7	62	6.6	155	e26	606	84	390	27	1,210	25	57
11	4.4	95	6.7	114	e24	380	76	763	27	1,300	24	49
12	4.4	66	6.9	e72	e23	287	70	682	40	915	25	42
13	4.6	41	7.1	e58	e22	434	63	415	67	412	23	37
14	3.8	26	8.7	e49	e21	581	58	216	114	247	23	35
15	4.1	19	9.4	e43	e20	577	55	183	208	185	22	33
16	4.0	16	11	e39	e20	374	54	144	161	226	21	30
17	3.8	14	12	e36	e19	283	62	113	97	204	20	28
18	4.0	12	24	e33	e19	217	62	96	71	144	19	26
19	6.1	11	163	e31	e18	181	54	84	58	114	17	24
20	4.2	9.9	420	e30	e18	189	52	75	48	97	16	23
21	3.7	9.5	339	e28	e19	242	58	67	41	140	16	22
22	3.8	10	164	e28	140	302	52	59	35	148	15	36
23	3.8	10	91	e26	257	221	47	55	32	115	14	42
24	3.9	9.6	62	e26	e190	158	44	51	29	87	14	52
25	7.4	9.5	53	e25	e110	134	57	48	27	72	13	40
26 27 28 29 30 31	10 12 6.2 9.1 13 9.0	9.6 10 9.8 9.6 9.2	42 33 28 26 81 300	e26 e25 e25 e26 e25 e24	e79 e64 e56 	190 194 151 415 426 254	78 62 53 50 48	46 42 41 44 41 43	25 25 24 23 21	59 54 57 50 45 40	12 12 14 15 15 20	37 141 319 208 131
TOTAL	175.4	542.5	1,965.4	2,954	1,475	8,461	2,303	5,264	1,501	11,452	680	6,077
MEAN	5.66	18.1	63.4	95.3	52.7	273	76.8	170	50.0	369	21.9	203
MAX	13	95	420	529	257	644	175	763	208	1,450	37	1,430
MIN	3.7	6.5	6.6	24	18	47	44	41	21	19	12	22
CFSM	0.06	0.19	0.68	1.01	0.56	2.91	0.82	1.81	0.53	3.93	0.23	2.16
IN.	0.07	0.21	0.78	1.17	0.58	3.35	0.91	2.09	0.59	4.54	0.27	2.41
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WATI	ER YEARS	1968 - 2003	, BY WATE	R YEAR (W	YY)			
MEAN	42.7	88.0	120	124	159	173	157	138	97.9	71.9	40.4	32.4
MAX	329	441	352	345	439	413	299	549	469	369	306	314
(WY)	(2002)	(1994)	(1991)	(1969)	(1982)	(1978)	(1996)	(1996)	(1998)	(2003)	(1979)	(1989)
MIN	2.36	3.88	8.95	5.35	35.7	35.0	30.0	23.4	8.47	9.21	3.72	0.65
(WY)	(2000)	(2000)	(2000)	(1977)	(1978)	(1981)	(1971)	(1976)	(1988)	(1977)	(1999)	(1999)
SUMMA	RY STATIS	STICS]	FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	YEAR	WATER Y	YEARS 19	68 - 2003
LOWEST HIGHES' LOWEST ANNUAI MAXIMU MAXIMU ANNUAI ANNUAI 10 PERC' 50 PERC'	L MEAN F ANNUAL F ANNUAL F DAILY M F DAILY M	MEAN IEAN EAN AY MINIM FLOW STAGE (CFSM) (INCHES) EDS EDS	IUM	1 15 276 41	May 3.7 Oct 1.1 Oct 1.12 5.15	21	1,59 1 29 4	7 50 Ju 3.7 Oc 4.1 Oc 90 Sep 8.82 Sep 1.25 6.98	1 7 t 21 t 12 o 3 o 3	1,9 2,3	0.11 S 0.26 S 40 N	2002 1977 ov 15, 1993 ep 19, 1999 ep 16, 1999 ov 14, 1993 eb 23, 1979

e Estimated

03361650 SUGAR CREEK AT NEW PALESTINE, IN-Continued

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03361650 SUGAR CREEK AT NEW PALESTINE, IN-Continued

[(National Water-Quality Assessment Program), White River Basin, Miami River Basin Study Unit]

WATER-QUALITY RECORDS

These data described in the following table were collected and analyzed as part of the National Water Quality Assessment Program (NAWQA) in the White River Basin, Miami River Basin (WHMI) study units. The objectives of the NAWQA program are to broadly characterize the water-quality of the Nation's streams and aquifers in relation to human and natural factors. This project is one of 42 river basin and aquifer assessment projects being implemented across the nation on a staggered timeline. During the second decade of sampling, 14 of these projects will be actively collecting data. The period of high-intensity data collection for the WHMI project is in water years 2001-2004.

Water quality data from four stream sites in Indiana and two stream sites in Ohio are being reported as part of the NAWQA study: Big Walnut Creek nr Roachdale, IN (03357330), Little Buck Creek nr Indianapolis, IN (03353637), Sugar Creek at Co. Rd. 400S at New Palestine, IN (394340085524601), White River at Hazleton, IN (03374100), Holes Creek at Huffman Park at Kettering, OH (393944084120700), Mad River at St. Paris Pike near Eagle City, OH (03267900). Additionally, continuous monitor data, water temperature, dissolved oxygen, specific conductance, and pH were collected for all sites except Sugar Creek at Co. Rd. 400S at New Palestine, IN (394340085524601), which were instead collected at Sugar Creek at New Palestine, IN (03361650).

These data can also be obtained electronically at http://in.water.usgs.gov or at http://oh.water.usgs.gov.

DAV

NOV

DEC

(- - -, no data).

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAILY MEDIAN VALUES

۸ DD

N / A N/

TTTT

MAD

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	8.0 8.0 8.0 7.9 7.9	7.3 7.3 7.3 7.3	8.2 8.2 8.2 8.1 8.1	 	7.2 7.2 7.1	6.6 	8.1 8.2 8.2 8.2 8.0	8.0 7.9 8.0 8.0 7.7	8.1 8.1 8.0 8.2 8.2	7.8 7.7 8.1 7.5	8.0 8.0 8.0 8.1 8.1	7.6 7.4 7.5 7.7 7.8
6 7 8 9 10	7.9 8.0 8.1 8.2 8.2	8.1 8.1 8.0 7.8	8.1 8.1 8.2 8.1	7.0 7.0 7.0 7.1 7.1	7.1 7.1 7.0 7.1 7.1	 	8.2 8.1 8.1 8.1 8.2	7.9 7.9 8.0 8.0	8.2 8.2 8.1 8.1	7.4 7.5 7.6 7.4 7.4	8.1 8.1 8.1 8.1 8.1	7.9 8.0 8.0 8.0 8.0
11 12 13 14 15	8.1 7.9 7.9 7.9 7.9	8.0 8.0 8.0	8.2 8.1 8.2 8.3 8.2	7.0 7.0 7.0 7.0 7.0	7.1 6.9 6.9 	 	8.2 8.2 8.1 8.1 8.2	 7.7	8.0 7.9 7.8 7.7 7.9	7.5 7.6 7.6 7.7 7.7	8.1 8.1 8.0 8.0 8.0	8.0 8.0 8.0 8.0 8.0
16 17 18 19 20	7.9 7.9 7.9 7.8 7.8	8.0 8.1 8.1 8.1 8.1	8.2 8.1 8.0 7.8	7.0 6.8 7.0 7.2 7.1	 6.9 6.9	 	8.2 8.1 8.1 8.1 8.1	7.7 7.8 7.8 7.8 7.8	7.8 7.8 7.8 7.8 7.8	7.8 7.8 7.8 7.8 7.8	7.9 8.0 8.0 8.1 8.1	8.1 8.1 8.1 8.1 8.1
21 22 23 24 25	7.8 7.7 7.7 7.7 7.6	8.1 8.1 8.2	 	7.0 7.0 	6.9 6.7 6.5 6.5 6.4	 8.0	8.1 8.2 8.2 8.2 8.0	8.0 8.1 8.1 8.1 8.1	8.0 8.0 8.0 8.1 8.0	7.8 7.9 8.0 8.0 8.0	8.1 8.1 8.1 8.1 8.1	8.1 8.0 8.0 8.1 8.0
26 27 28 29 30 31	7.5 7.5 7.5 7.4 	 	 	 7.1 7.2	6.3 6.6 6.5 	8.0 8.0 8.0 7.8 7.8 7.8	8.1 8.1 8.0 8.0	8.1 8.2 8.1 8.0 8.0 8.0	8.0 8.0 7.9 7.9 7.8	8.0 8.0 7.9 8.0 8.0 8.0	8.0 8.0 8.0 8.0 7.9 7.9	8.0 7.8 7.8 7.8 7.9
MED							8.1		8.0		8.1	8.0

03361650 SUGAR CREEK AT NEW PALESTINE, IN—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	11.7 10.6 9.9 7.9 9.3	10.2 10.6 10.5 10.8	14.8 15.2 15.4 15.7 15.9	 	 	 	12.2 11.4 11.2 10.5 10.4	9.7 8.8 10.6 10.9 9.7	10.1 10 9.0 9.5 9.8	8.9 9.2 e8.3 7.9 7.2	9.1 8.9 9.1 9.2 9.2	7.8 7.0 6.8 7.0 8.0
6 7 8 9 10	10.6 10.7 11.9 10.7 9.4	e13.8 14.7 13.9 11.7 9.1	16.0 16.1 16.3 16.2 e16.0	 	 	 	13.1 13.4 13.5 14.6 15.4	8.4 7.2 7.5 7.5	9.0 9.1 8.2 8.7 8.4	6.4 6.2 6.5 6.7 6.9	9.5 9.5 9.6 9.6 9.8	8.4 8.6 8.6 8.5 8.5
11 12 13 14 15	8.8 7.4 8.2 9.2 10.1	12.7 12.8 12.2	15.9 15.2 16.6 19.8 20.0	 	 	 	14.4 13.4 12.9 12.3 11.0	 8.1	8.0 7.1 7.5 7.3 7.9	7.0 7.4 7.8 7.9 7.8	10.2 9.9 9.8 9.3 8.9	8.6 8.9 8.8 8.5 8.8
16 17 18 19 20	10.0 10.4 10.4 9.3 9.8	13.3 14.8 15.5 14.9 14.9	19.4 17.6 17.0 13.9 e14.3	 	 	 	10.3 9.2 10.6 10.8 9.7	8.3 8.4 8.6 8.6 8.7	7.8 7.8 7.6 7.4 7.9	8.0 8.0 7.8 8.0 7.6	8.7 8.6 9.2 8.5 7.8	9.3 9.3 9.3 9.3 9.9
21 22 23 24 25	10.0 10.1 10.2 10.3 9.0	13.6 14.9 16.3	 	 	 	e11.5 10.7	9.8 12.2 13.3 13.0 11.3	9.3 9.1 9.2 9.4 9.3	8.4 8.5 8.4 8.0 7.9	7.4 7.7 8.0 8.2 8.3	7.7 7.2 7.4 7.9 8.0	10.2 9.0 9.2 9.8 9.7
26 27 28 29 30 31	9.2 10.1 9.5 8.7 e9.8	 	 	 	 	11.2 11.4 11.1 11.0 12.0 12.7	12.9 12.9 12.2 11.8 11.2	9.5 9.4 9.1 9.1 9.3 8.5	7.7 8.4 8.8 9.0 9.0	8.3 8.3 8.0 8.8 8.9	7.7 7.0 7.8 7.3 7.4 7.7	10.1 9.4 9.7 10.3 11.1

e Estimated

03361650 SUGAR CREEK AT NEW PALESTINE, IN—Continued

TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	19.7 20.7 21.2 20.9 18.2	7.1 5.8 5.9 7.2	1.2 1.7 0.8 0.1 0.3	 	0.0 0.1 e0.1 0.0	2.7 e3.0 	9.8 12.8 14.9 15.9 12.4	19.5 18.1 16.4 14.7 14.6	15.2 15.2 14.7 14.4 15.1	23.2 23.4 e24.0 24.8 22.1	22.7 23.3 23.0 22.4 21.8	20.8 20.7 21.0 21.0 19.7
6 7 8 9 10	16.4 15.0 13.3 13.4 13.9	e6.7 6.6 7.6 9.4 11.9	0.1 0.2 0.4 0.1 e0.4	3.4 2.5 3.4 4.5 3.8	0.2 0.5 0.0 0.3 0.6	 	8.5 8.0 8.0 6.6 7.2	16.2 16.6 16.3 16.8	16.1 17.3 17.9 18.1 18.6	22.9 24.3 24.7 23.5 22.3	21.9 22.5 22.5 22.1 21.5	19.2 19.2 19.5 20.2 20.6
11 12 13 14 15	15.3 16.1 14.4 11.3 11.1	8.7 8.8 8.8	0.7 1.2 1.5 1.5 2.4	1.1 0.0 0.1 0.3 0.0	0.1 0.1 0.1 e0.1	 	9.7 11.9 12.6 13.9 16.1	e15.3 15.3	19.4 19.9 19.8 19.3 19.5	22.1 21.3 21.1 21.5 21.3	21.5 21.6 22.2 23.5 24.5	20.7 20.1 20.6 20.7 19.8
16 17 18 19 20	10.7 9.6 10.2 11.6 9.9	6.7 5.7 4.9 6.7 7.0	2.7 2.6 4.5 7.0 e6.0	0.0 0.0 0.0 0.0 0.0	e0.1 0.2 0.3	 	17.1 15.9 15.2 16.5 17.4	16.0 16.5 16.9 17.6 17.5	19.6 20.2 21.1 21.2 19.9	21.1 21.5 22.0 22.1 22.0	24.8 24.4 22.8 22.2 22.5	18.7 18.8 18.8 18.3 16.7
21 22 23 24 25	9.7 9.7 9.5 9.8 9.2	7.0 5.8 5.0	 	0.0 0.0 	0.6 1.1 0.6 0.4 0.1	e11.8	15.0 12.5 11.9 12.2 11.5	15.8 15.5 15.5 15.4 15.6	19.7 20.2 21.2 22.0 22.9	21.9 21.1 20.9 20.9 21.1	23.5 24.5 23.4 22.2 22.6	16.5 17.8 17.1 16.7 16.8
26 27 28 29 30 31	9.7 10.0 10.2 8.8 e8.4	 	 	 0.0 0.0	0.4 0.8 1.8 	10.9 11.2 12.1 9.3 7.3 7.3	12.2 14.0 15.2 17.0 18.5	15.8 16.9 16.7 16.8 16.7 16.5	23.2 21.6 21.3 22.2 23.0	21.6 22.4 22.0 21.2 21.5 22.2	23.8 24.2 24.2 24.1 23.1 21.3	15.2 16.0 15.1 13.9 13.0

e Estimated

03361650 SUGAR CREEK AT NEW PALESTINE, IN—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		659	705		634	552	565	630	645	649	661	348
2		676	698		616	e571	583	635	646	646	662	247
3		680	699		e618		591	645	649	e645	663	213
4	624	674	703				600	636	661	648	650	293
5	631		704		592		584	537	662	355	640	412
6		e684	710	572	550		604	538	665	235	656	467
7	644	685	721	587	553		614	520	661	226	654	500
8	638	695	709	592	578		621	514	665	276	655	525
9	633	695	714	571	583		621	509	666	288	656	548
10	e635	607	e710	563	585		608		662	283	654	565
11			704	538	597		604		656	264	647	575
12	e632		695	556	608		600		636	340	651	603
13	e640	648	700	575	616		601		607	429	652	616
14		653	707	590	e612		603	e540	590	470	659	618
15		664	698	614			612	572	576	501	655	634
16		667	755	627			597	603	511	511	651	638
17		673	817	635			597	619	577	495	654	639
18		679	748	651	e629		616	622	601	534	652	639
19	e635	682	589	652	619		614	627	616	566	647	640
20		683	e535	648	616		615	641	627	586	644	646
21		688		641	682		620	648	635	569	639	652
22		685		645	658		624	652	643	577	640	611
23		691			485		611	650	653	620	638	617
24					479	e578	595	652	656	622	638	634
25	e630				477	578	594	652	655	631	635	627
26	627				493	581	605	655	656	640	633	623
27	630				512	583	612	656	654	643	622	536
28	640				532	587	615	648	649	635	606	491
29	614					520	622	644	651	646	596	485
30				640		504	626	649	651	653	595	545
31	e642			638		526		644		658	589	

e Estimated

394340085524601 SUGAR CREEK AT CO. RD. 400S AT NEW PALESTINE, IN-Continued

[(National Water-Quality Assessment Program), White River Basin, Miami River Basin Study Unit]

WATER-QUALITY RECORDS

These data described in the following table were collected and analyzed as part of the National Water Quality Assessment Program (NAWQA)in the White River Basin, Miami River Basin (WHMI) study units. The objectives of the NAWQA program are to broadly characterize the water-quality of the Nation's streams and aquifers in relation to human and natural factors. This project is one of 42 river basin and aquifer assessment projects being implemented across the nation on a staggered timeline. During the second decade of sampling, 14 of these projects will be actively collecting data. The period of high-intensity data collection for the WHMI project is in water years 2001-2004.

Water quality data from four stream sites in Indiana and two stream sites in Ohio are being reported as part of the NAWQA study: Big Walnut Creek nr Roachdale, IN (03357330), Little Buck Creek nr Indianapolis, IN (03353637), Sugar Creek at Co. Rd. 400S at New Palestine, IN (394340085524601), White River at Hazleton, IN (03374100), Holes Creek at Huffman Park at Kettering, OH (393944084120700), Mad River at St. Paris Pike near Eagle City, OH (03267900). Additionally, continuous monitor data, water temperature, dissolved oxygen, specific conductance, and pH were collected for all sites except Sugar Creek at Co. Rd. 400S at New Palestine, IN (394340085524601), which were instead collected at Sugar Creek at New Palestine, IN (03361650).

These data can also be obtained electronically at http://in.water.usgs.gov or at http://oh.water.usgs.gov.

(- - -, no data: <, concentration or value reported is less than that indicated: E, estimated value: K, value is estimated from a non-ideal colony count: M, presence verified, not quantified).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Alka-

Date	Time	Instantaneous discharge, cfs (00061)	Baro- metric pres- sure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	linity, wat flt fxd end field, mg/L as CaCO3 (39036)
OCT													
09	1310	4.9	747	11.6	8.2	640	18.0	14.0	79.1	29.1	2.24	15.7	230
NOV 05	1330	9.6	735	10.3	8.2	672	7.0	7.5	82.8	28.4	2.17	15.3	270
25	1330	9.6	755	14.8	7.5	701	2.0	5.0	85.0	29.4	2.16	17.1	
DEC													
16 JAN	1100	11	745	15.3	8.4	727	2.0	2.5	86.1	31.5	1.68	29.1	260
16	1100	70	752	14.0	8.2	713	-5.0	0.0	89.2	29.6	1.33	13.6	250
FEB													
18	1130	22	751	14.9	8.2	728	0.0	0.0	83.1	29.5	1.24	21.1	250
MAR 11	1200	347	750	14.0	7.8	426	9.0	2.0	51.3	15.6	1.46	7.44	140
APR	1200	341	730	14.0	7.0	420	9.0	2.0	31.3	13.0	1.40	7.44	140
01	1140	174	734	13.6	8.1	569	25.0	9.5	72.0	23.1	1.34	10.7	220
15	1130	55	736	9.3	8.3	627	28.0	16.0	78.4	29.2	1.40	13.7	
MAY 06	1340	336	728	8.8	7.9	546	25.0	16.5	66.8	22.5	1.82	10.2	170
21	1100	550 66	750	9.2	8.1	660	15.0	15.0	90.4	28.5	1.66	10.2	170
JUN	1100	00	750	7.2	0.1	000	15.0	13.0	70.1	20.5	1.00	11.7	
04	1400	36	733	9.4	8.2	670	14.5	14.5	90.7	30.9	1.84	15.2	280
24	1300	29	737	8.7	8.1	664	30.0	22.5	86.8	29.8	1.83	11.7	
JUL 09	1040	1,010	734	5.8	7.5	313	24.0	23.5	35.7	11.1	3.68	5.34	120
22	1400	139	728	6.0	7.3 7.7	478	22.0	26.0	75.5	23.1	2.17	12.1	120
AUG	1100	137	720	0.0	7.7	170	22.0	20.0	75.5	23.1	2.17	12.1	
04	1320	33	739	7.9	8.1	652	29.0	22.5	81.3	25.8	1.61	12.6	250
19	1150	17	739	8.1	8.1	650	28.0	22.0	84.8	30.2	2.01	12.6	
SEP 03	1240	1,590	734	7.0	7.5	201	25.0	21.0	24.4	6.39	4.18	2.66	80
05	1240	1,590	134	7.0	1.3	201	43.0	∠1.0	∠4.4	0.39	4.10	∠.00	30

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$394340085524601 \; SUGAR \; CREEK \; AT \; CO. \; RD. \; 400S \; AT \; NEW \; PALESTINE, IN \textcolor{red}{---} Continued$ WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)
OCT 09	228	275	1	33.0	0.28	10.0	42.4	388	0.24	< 0.04	< 0.06	< 0.008	< 0.02
NOV 05 25	274 	E331	E1 	33.0 37.8	0.23 0.24	6.53 5.52	45.7 49.9	403 423	0.27 0.21	<0.04 <0.04	<0.06 1.04	<0.008 0.010	<0.02 <0.02
DEC 16	255	E308	E1	60.3	0.26	0.85	47.4	444	0.20	< 0.04	0.34	E0.007	< 0.02
JAN 16	244	296	<1	34.6	0.21	7.02	43.7	408	0.26	< 0.04	4.42	0.011	< 0.02
FEB 18	257	312	<1	47.0	0.23	2.94	46.5	421	0.20	< 0.04	2.08	0.020	< 0.02
MAR 11	136	E166	E0.0	21.4	0.15	5.95	20.1	234	0.72	0.05	4.87	0.137	< 0.02
APR 01 15 MAY	216	261	1	29.3 33.9	0.19 0.19	6.00 0.52	30.5 40.4	327 363	0.41 0.32	<0.04 <0.04	5.06 2.32	0.012 0.024	<0.02 <0.02
06 21 JUN	172 	210	<1 	30.8 30.5	0.19 0.22	7.17 9.13	27.1 36.3	300 386	1.3 0.48	0.06 <0.04	7.91 4.06	0.100 0.082	<0.02 <0.02
04 24 JUL	279 	341	<1 	34.0 30.0	0.24 0.23	6.14 9.07	40.6 35.6	390 368	0.37 0.41	<0.04 <0.04	1.82 3.69	0.033 0.043	<0.02 <0.02
09 22 AUG	114 	E139	<1 	13.0 28.8	<0.17 0.20	9.04 10.7	11.4 28.1	194 347	0.85 0.70	<0.04 <0.04	2.80 3.23	0.060 0.023	0.06 0.03
04 19 SEP	253	308	<1 	30.3 29.3	0.23 0.28	9.19 8.68	39.8 41.8	385 389	0.38 0.29	<0.04 <0.04	1.26 0.47	E0.006 0.014	0.03 <0.18
03	78	95	<1	6.21	< 0.17	7.05	6.6	130	0.71	< 0.04	0.25	0.085	0.06
			WATER-0	QUALITY	DATA, WA	ATER YEA	R OCTOB	ER 2002 TO) SEPTEM	BER 2003			
Date	Particulate nitrogen, susp, water, mg/L (49570)	Phos- phorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Iron, water, fltrd, ug/L (01046)	Mangan- ese, water, fltrd, ug/L (01056)	1,4- Naphth- oquin- one, water, fltrd, ug/L (61611)	1-Naph- thol, water, fltrd 0.7u GF ug/L (49295)	2-(4-t- Butyl- phenoxy)cyclo- hexanol wat flt ug/L (61637)	2,5-Di- chloro- aniline water, fltrd, ug/L (61614)	2,6-Diethylaniline water fltrd 0.7u GF ug/L (82660)
OCT 09	ulate nitro- gen, susp, water, mg/L	phorus, water, unfltrd mg/L	Total carbon, suspnd sedimnt total, mg/L	Inorganic carbon, suspnd sedimnt total, mg/L	Organic carbon, suspnd sedimnt total, mg/L	Organic carbon, water, fltrd, mg/L	Iron, water, fltrd, ug/L	Mangan- ese, water, fltrd, ug/L	1,4- Naphth- oquin- one, water, fltrd, ug/L	1-Naph- thol, water, fltrd 0.7u GF ug/L	Butyl- phenoxy)cyclo- hexanol wat flt ug/L	chloro- aniline water, fltrd, ug/L	ethyl- aniline water fltrd 0.7u GF ug/L
OCT 09 NOV 05 25	ulate nitro- gen, susp, water, mg/L (49570)	phorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Iron, water, fltrd, ug/L (01046)	Mangan- ese, water, fltrd, ug/L (01056)	1,4- Naphth- oquin- one, water, fltrd, ug/L (61611)	1-Naph- thol, water, fltrd 0.7u GF ug/L (49295)	Butyl- phenoxy)cyclo- hexanol wat flt ug/L (61637)	chloro- aniline water, fltrd, ug/L (61614)	ethyl- aniline water fltrd 0.7u GF ug/L (82660)
OCT 09 NOV 05 25 DEC 16	ulate nitro- gen, susp, water, mg/L (49570) 0.04 0.10	phorus, water, unfltrd mg/L (00665) 0.066	Total carbon, suspnd sedimnt total, mg/L (00694) 0.3 0.6	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689) 0.3 0.6	Organic carbon, water, fltrd, mg/L (00681) 3.6 4.1	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056) 23.1 16.7	1,4- Naphth- oquin- one, water, fltrd, ug/L (61611) <0.05	1-Naph-thol, water, fltrd 0.7u GF ug/L (49295) <0.09	Butyl- phenoxy)cyclo- hexanol wat flt ug/L (61637) <0.01	chloro- aniline water, fltrd, ug/L (61614) <0.03	ethyl-aniline water fltrd 0.7u GF ug/L (82660) <0.006
OCT 09 NOV 05 25 DEC 16 JAN 16	ulate nitro- gen, susp, water, mg/L (49570) 0.04 0.10 0.12	phorus, water, unfltrd mg/L (00665) 0.066 0.049 0.038	Total carbon, suspnd sedimnt total, mg/L (00694) 0.3 0.6 0.9	Inorganic carbon, suspnd sedimnt total, mg/L (00688) <0.1 <0.1	Organic carbon, suspnd sedimnt total, mg/L (00689) 0.3 0.6 0.9	Organic carbon, water, fltrd, mg/L (00681) 3.6 4.1	Iron, water, fltrd, ug/L (01046) 15 41 17	Manganese, water, fltrd, ug/L (01056) 23.1 16.7 23.5	1,4- Naphth- oquin- one, water, fltrd, ug/L (61611) <0.05 M <0.05	1-Naph-thol, water, fltrd 0.7u GF ug/L (49295) <0.09 <0.09	Butyl-phenoxy)cyclo-hexanol wat flt ug/L (61637) <0.01 <0.01	chloro- aniline water, fltrd, ug/L (61614) <0.03 <0.03	ethyl-aniline water fltrd 0.7u GF ug/L (82660) <0.006 <0.006
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18	ulate nitro- gen, susp, water, mg/L (49570) 0.04 0.10 0.12	phorus, water, unfltrd mg/L (00665) 0.066 0.049 0.038 0.023	Total carbon, suspnd sedimnt total, mg/L (00694) 0.3 0.6 0.9 0.4	Inorganic carbon, suspnd sedimnt total, mg/L (00688) <0.1 <0.1 <0.1 <0.1	Organic carbon, suspnd sedimnt total, mg/L (00689) 0.3 0.6 0.9	Organic carbon, water, fltrd, mg/L (00681) 3.6 4.1 3.9	Iron, water, fltrd, ug/L (01046) 15 41 17	Manganese, water, fltrd, ug/L (01056) 23.1 16.7 23.5 26.1	1,4- Naphth- oquin- one, water, fltrd, ug/L (61611) <0.05 M <0.05 <0.05	1-Naph-thol, water, fltrd 0.7u GF ug/L (49295) <0.09 <0.09 <0.09 <0.09	Butyl-phenoxy)cyclo-hexanol wat flt ug/L (61637) <0.01 <0.01 <0.01	chloro-aniline water, fltrd, ug/L (61614) <0.03 <0.03 <0.03 <0.03	ethyl-aniline water fitrd 0.7u GF ug/L (82660) <0.006 <0.006 <0.006
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18 MAR 11	ulate nitro- gen, susp, water, mg/L (49570) 0.04 0.10 0.12 0.04 <0.02	phorus, water, unfltrd mg/L (00665) 0.066 0.049 0.038 0.023	Total carbon, suspnd sedimnt total, mg/L (00694) 0.3 0.6 0.9 0.4 0.2 1.8	Inorganic carbon, suspnd sedimnt total, mg/L (00688) <0.1 <0.1 <0.1 <0.1 <0.1	Organic carbon, suspnd sedimnt total, mg/L (00689) 0.3 0.6 0.9 0.4 0.1	Organic carbon, water, fltrd, mg/L (00681) 3.6 4.1 3.9 3.4	Iron, water, fltrd, ug/L (01046) 15 41 17 14 E5	Manganese, water, fltrd, ug/L (01056) 23.1 16.7 23.5 26.1 32.2	1,4- Naphthoquinone, water, fltrd, ug/L (61611) <0.05 M <0.05 <0.05	1-Naph-thol, water, fltrd 0.7u GF ug/L (49295) <0.09 <0.09 <0.09 <0.09	Butyl-phenoxy) cyclo-hexanol wat flt ug/L (61637) <0.01 <0.01 <0.01 <0.01	chloro- aniline water, fltrd, ug/L (61614) <0.03 <0.03 <0.03 <0.03	ethyl-aniline water fltrd 0.7u GF ug/L (82660) <0.006 <0.006 <0.006 <0.006
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18 MAR 11 APR 01	ulate nitro- gen, susp, water, mg/L (49570) 0.04 0.10 0.12 0.04 <0.02	phorus, water, unfltrd mg/L (00665) 0.066 0.049 0.038 0.023 0.025 0.016	Total carbon, suspnd sedimnt total, mg/L (00694) 0.3 0.6 0.9 0.4 0.2 0.2	Inorganic carbon, suspnd sedimnt total, mg/L (00688) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	Organic carbon, suspnd sedimnt total, mg/L (00689) 0.3 0.6 0.9 0.4 0.1	Organic carbon, water, fltrd, mg/L (00681) 3.6 4.1 3.9 3.4 2.5	Iron, water, fltrd, ug/L (01046) 15 41 17 14 E5 26	Manganese, water, fltrd, ug/L (01056) 23.1 16.7 23.5 26.1 32.2 38.7	1,4- Naphth- oquin- one, water, fltrd, ug/L (61611) <0.05 M <0.05 <0.05 <0.05	1-Naph-thol, water, fltrd 0.7u GF ug/L (49295) <0.09 <0.09 <0.09 <0.09 <0.09 <0.09	Butyl-phenoxy) cyclo-hexanol wat flt ug/L (61637) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	chloro-aniline water, fltrd, ug/L (61614) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	ethyl-aniline water fltrd 0.7u GF ug/L (82660) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18 MAR 11 APR 01 15 MAY 06 21	ulate nitrogen, susp, water, mg/L (49570) 0.04 0.10 0.12 0.04 <0.02 0.04 0.28 0.15	phorus, water, unfltrd mg/L (00665) 0.066 0.049 0.038 0.023 0.025 0.016 0.161	Total carbon, suspnd sedimnt total, mg/L (00694) 0.3 0.6 0.9 0.4 0.2 1.8 0.9	Inorganic carbon, suspnd sedimnt total, mg/L (00688) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	Organic carbon, suspnd sedimnt total, mg/L (00689) 0.3 0.6 0.9 0.4 0.1 0.2 1.8 0.9	Organic carbon, water, fltrd, mg/L (00681) 3.6 4.1 3.9 3.4 2.5 5.5 4.6	Iron, water, fltrd, ug/L (01046) 15 41 17 14 E5 26 73 21	Manganese, water, fltrd, ug/L (01056) 23.1 16.7 23.5 26.1 32.2 38.7 13.8 23.1	1,4- Naphthoquinone, water, fltrd, ug/L (61611) <0.05 M <0.05 <0.05 <0.05 <0.05 <0.05	1-Naph-thol, water, fltrd 0.7u GF ug/L (49295) <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09	Butyl-phenoxy) cyclo-hexanol wat flt ug/L (61637) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	chloro-aniline water, fltrd, ug/L (61614) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	ethyl-aniline water fltrd 0.7u GF ug/L (82660) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18 MAR 11 APR 01 15 MAY 06 21 JUN 04	ulate nitrogen, susp, water, mg/L (49570) 0.04 0.10 0.12 0.04 <0.02 0.04 0.18 0.19 0.19 0.19 0.19 0.19 0.19 0.19	phorus, water, unfltrd mg/L (00665) 0.066 0.049 0.038 0.023 0.025 0.016 0.161 0.060 0.038 0.138	Total carbon, suspnd sedimnt total, mg/L (00694) 0.3 0.6 0.9 0.4 0.2 1.8 0.9 0.9 3.0	Inorganic carbon, suspnd sedimnt total, mg/L (00688) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	Organic carbon, suspnd sedimnt total, mg/L (00689) 0.3 0.6 0.9 0.4 0.1 0.2 1.8 0.9 0.9 3.0	Organic carbon, water, fltrd, mg/L (00681) 3.6 4.1 3.9 3.4 2.5 5.5 4.6 4.8	Iron, water, fltrd, ug/L (01046) 15 41 17 14 E5 26 73 21 E5 17	Manganese, water, fltrd, ug/L (01056) 23.1 16.7 23.5 26.1 32.2 38.7 13.8 23.1 38.3 12.5	1,4- Naphth- oquin- one, water, fltrd, ug/L (61611) <0.05 M <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	1-Naph-thol, water, fltrd 0.7u GF ug/L (49295) <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09	Butyl-phenoxy) cyclo-hexanol wat flt ug/L (61637) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	chloro-aniline water, fltrd, ug/L (61614) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	ethyl-aniline water filtrd 0.7u GF ug/L (82660) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18 MAR 11 APR 01 15 MAY 06 21 JUN 04 24 JUL 09 22	ulate nitrogen, susp, water, mg/L (49570) 0.04 0.10 0.12 0.04 <0.02 0.04 0.28 0.15 0.14 0.49 0.16 0.10	phorus, water, unfltrd mg/L (00665) 0.066 0.049 0.038 0.023 0.025 0.016 0.161 0.060 0.038 0.138 0.081 0.052	Total carbon, suspnd sedimnt total, mg/L (00694) 0.3 0.6 0.9 0.4 0.2 1.8 0.9 0.9 3.0 1.5 0.6	Inorganic carbon, suspnd sedimnt total, mg/L (00688) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	Organic carbon, suspnd sedimnt total, mg/L (00689) 0.3 0.6 0.9 0.4 0.1 0.2 1.8 0.9 0.9 3.0 1.5 0.6	Organic carbon, water, fltrd, mg/L (00681) 3.6 4.1 3.9 3.4 2.5 5.5 4.6 4.8	Iron, water, fltrd, ug/L (01046) 15 41 17 14 E5 26 73 21 E5 17 <10 13	Manganese, water, fltrd, ug/L (01056) 23.1 16.7 23.5 26.1 32.2 38.7 13.8 23.1 38.3 12.5 17.5	1,4- Naphthoquinone, water, fltrd, ug/L (61611) <0.05 M <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	1-Naph-thol, water, fltrd 0.7u GF ug/L (49295) <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09	Butyl-phenoxy) cyclo-hexanol wat flt ug/L (61637) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	chloro-aniline water, fltrd, ug/L (61614) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	ethyl-aniline water fltrd 0.7u GF ug/L (82660) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18 MAR 11 APR 01 15 MAY 06 21 JUN 04 JUN 04 JUL 09	ulate nitrogen, susp, water, mg/L (49570) 0.04 0.10 0.12 0.04 <0.02 0.04 0.28 0.15 0.14 0.49 0.16 0.10 0.12 0.24	phorus, water, unfltrd mg/L (00665) 0.066 0.049 0.038 0.023 0.025 0.016 0.161 0.060 0.038 0.138 0.081 0.052 0.070 0.21	Total carbon, suspnd sedimnt total, mg/L (00694) 0.3 0.6 0.9 0.4 0.2 1.8 0.9 0.9 3.0 1.5 0.6 1.0	Inorganic carbon, suspnd sedimnt total, mg/L (00688) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	Organic carbon, suspnd sedimnt total, mg/L (00689) 0.3 0.6 0.9 0.4 0.1 0.2 1.8 0.9 0.9 3.0 1.5 0.6 1.0	Organic carbon, water, fltrd, mg/L (00681) 3.6 4.1 3.9 3.4 2.5 5.5 4.6 4.8 2.4 8.0	Iron, water, fltrd, ug/L (01046) 15 41 17 14 E5 26 73 21 E5 17 <10 13 E7	Manganese, water, fltrd, ug/L (01056) 23.1 16.7 23.5 26.1 32.2 38.7 13.8 23.1 38.3 12.5 17.5 18.4 12.8 4.7	1,4- Naphthoquinone, water, fltrd, ug/L (61611) <0.05 M <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <-0.05 <0.05 <-0.05 <-0.05 <-0.05 <-0.05 <-0.05	1-Naph-thol, water, fltrd 0.7u GF ug/L (49295) <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09	Butyl-phenoxy) cyclo-hexanol wat flt ug/L (61637) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	chloro-aniline water, fltrd, ug/L (61614) <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	ethyl-aniline water fltrd 0.7u GF ug/L (82660) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006

394340085524601 SUGAR CREEK AT CO. RD. 400S AT NEW PALESTINE, IN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	2-[(2- Et-6-Me -Ph)- -amino] propan- 1-ol, ug/L (61615)	2Amino- N-iso- propyl- benz- amide, wat flt ug/L (61617)	2Chloro -2,6'-' diethyl acet- anilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)	2-Ethyl -6- methyl- aniline water, fltrd, ug/L (61620)	3-(Tri- fluoro- methyl) aniline water, fltrd, ug/L (61630)	3,4-Di- chloro- aniline water fltrd, ug/L (61625)	3,5-Di- chloro- aniline water, fltrd, ug/L (61627)	3-Phenoxy- benzyl alcohol water, fltrd, ug/L (61629)	4- (MeOH)- pendi- meth- alin, wat flt ug/L (61665)	4,4-Di' chloro- benzo- phen- one, wat flt ug/L (61631)	4Chloro 2methyl phenol, water, fltrd, ug/L (61633)	4Chloro phenyl- methyl sulfone water, fltrd, ug/L (61634)
OCT 09	<0.1	< 0.005	< 0.005	E0.013	< 0.004	< 0.01	< 0.004	< 0.005	< 0.05	< 0.1	< 0.003	< 0.006	< 0.03
NOV 05 25	<0.1 <0.1	<0.005 <0.005	<0.005 <0.005	<0.006 E0.026	<0.004 <0.004	<0.01 <0.01	<0.004 <0.004	<0.005 <0.005	<0.05 <0.05	<0.1	<0.003 <0.003	<0.006 <0.006	<0.03 <0.03
DEC 16	< 0.1	< 0.005	< 0.005	E0.012	< 0.004	< 0.01	< 0.004	< 0.005	< 0.05	< 0.1	< 0.003	< 0.006	< 0.03
JAN 16	<0.1	< 0.005	< 0.005	E0.040	< 0.004	< 0.01	< 0.004	< 0.005	< 0.05	< 0.1	< 0.003	< 0.006	< 0.03
FEB 18	< 0.1	< 0.005	< 0.005	E0.020	< 0.004	< 0.01	< 0.004	< 0.005	< 0.05	< 0.1	< 0.003	< 0.006	< 0.03
MAR 11 APR	< 0.1	< 0.005	< 0.005	E0.047	< 0.004	< 0.01	< 0.004	< 0.005	< 0.05	< 0.1	< 0.003	< 0.006	< 0.03
01 15 MAY	<0.1	<0.005 <0.005	<0.005 <0.005	E0.034 E0.018	<0.004 <0.004	<0.01 <0.01	<0.004 <0.004	<0.005 <0.005	<0.05		<0.003 <0.003	<0.006 <0.006	<0.03 <0.03
06 21 JUN	<0.1 <0.1	<0.005 <0.005	<0.005 <0.005	E0.268 E0.136	<0.004 <0.004	<0.01 <0.01	<0.004 <0.004	<0.005 <0.005	<0.05 <0.05	<0.1 <0.1	<0.003 <0.003	<0.006 <0.006	<0.03 <0.03
04 24 JUL	<0.1 <0.1	<0.005 <0.005	<0.005 <0.005	E0.108 E0.160	<0.004 <0.004	<0.01 <0.01	<0.004 <0.004	<0.005 <0.005	<0.05 <0.05	<0.1	<0.003 <0.016	<0.006 <0.006	<0.03 <0.03
09 22 AUG	<0.1 <0.1	<0.005 <0.005	<0.005 <0.005	E0.323 E0.131	<0.004 <0.004	<0.01 <0.01	<0.004 <0.004	<0.005 <0.005	<0.05	<0.1	<0.003 <0.003	<0.006 <0.006	<0.03 <0.03
04 19	<0.1 <0.1	<0.005 <0.005	<0.005 <0.005	E0.041 E0.018	<0.004 <0.004	<0.01 <0.01	<0.004 <0.004	<0.005 <0.005			<0.003 <0.003	<0.006 <0.006	<0.03 <0.03
SEP 03	<0.1	< 0.005	< 0.005	E0.060	< 0.004	< 0.01	<0.004	< 0.005			< 0.003	< 0.006	< 0.03
Date	Aceto- chlor ESA, water, fltrd 0.7u GF ug/L	Aceto- chlor OA, water, fltrd 0.7u GF ug/L	Aceto- chlor, water, fltrd, ug/L	Ala- chlor ESA, water, fltrd 0.7u GF ug/L	Ala- chlor OA, water, fltrd 0.7u GF ug/L	Ala- chlor, water, fltrd, ug/L	alpha- HCH, water, fltrd, ug/L	Amino- methyl- phos- phonic acid, wat flt ug/L	Atra- zine, water, fltrd, ug/L	Azin- phos- methyl oxon, water, fltrd, ug/L	Azin- phos- methyl, water, fltrd 0.7u GF ug/L	Ben- flur- alin, water, fltrd 0.7u GF ug/L	beta- Endo- sulfan, water, fltrd, ug/L
OCT	chlor ESA, water, fltrd 0.7u GF ug/L (61029)	chlor OA, water, fltrd 0.7u GF ug/L (61030)	Aceto- chlor, water, fltrd, ug/L (49260)	Ala- chlor ESA, water, fltrd 0.7u GF ug/L (50009)	Ala- chlor OA, water, fltrd 0.7u GF ug/L (61031)	Ala- chlor, water, fltrd, ug/L (46342)	alpha- HCH, water, fltrd, ug/L (34253)	Aminomethyl- phos- phonic acid, wat flt ug/L (62649)	Atra- zine, water, fltrd, ug/L (39632)	Azin- phos- methyl oxon, water, fltrd, ug/L (61635)	phos- methyl, water, fltrd 0.7u GF ug/L (82686)	flur- alin, water, fltrd 0.7u GF ug/L (82673)	Endo- sulfan, water, fltrd, ug/L (34357)
OCT 09 NOV	chlor ESA, water, fltrd 0.7u GF ug/L (61029)	chlor OA, water, fltrd 0.7u GF ug/L (61030)	Aceto- chlor, water, fltrd, ug/L (49260)	Ala- chlor ESA, water, fltrd 0.7u GF ug/L (50009)	Ala- chlor OA, water, fltrd 0.7u GF ug/L (61031)	Ala- chlor, water, fltrd, ug/L (46342)	alpha- HCH, water, fltrd, ug/L (34253)	Aminomethyl-phos-phonic acid, wat flt ug/L (62649)	Atrazine, water, fltrd, ug/L (39632)	Azin-phos-methyl oxon, water, fltrd, ug/L (61635)	phos- methyl, water, fltrd 0.7u GF ug/L (82686)	fluralin, water, fltrd 0.7u GF ug/L (82673)	Endo- sulfan, water, fltrd, ug/L (34357)
OCT 09 NOV 05 25	chlor ESA, water, fltrd 0.7u GF ug/L (61029)	chlor OA, water, fltrd 0.7u GF ug/L (61030)	Aceto- chlor, water, fltrd, ug/L (49260)	Ala- chlor ESA, water, fltrd 0.7u GF ug/L (50009)	Ala- chlor OA, water, fltrd 0.7u GF ug/L (61031)	Ala- chlor, water, fltrd, ug/L (46342)	alpha- HCH, water, fltrd, ug/L (34253)	Aminomethyl- phos- phonic acid, wat flt ug/L (62649)	Atra- zine, water, fltrd, ug/L (39632)	Azin- phos- methyl oxon, water, fltrd, ug/L (61635)	phos- methyl, water, fltrd 0.7u GF ug/L (82686)	flur- alin, water, fltrd 0.7u GF ug/L (82673)	Endo- sulfan, water, fltrd, ug/L (34357)
OCT 09 NOV 05 25 DEC 16	chlor ESA, water, fltrd 0.7u GF ug/L (61029) 0.07	chlor OA, water, fltrd 0.7u GF ug/L (61030) 0.07	Aceto- chlor, water, fltrd, ug/L (49260) 0.009 <0.006	Ala- chlor ESA, water, fltrd 0.7u GF ug/L (50009) 0.10	Ala- chlor OA, water, fltrd 0.7u GF ug/L (61031) <0.05	Ala- chlor, water, fltrd, ug/L (46342) <0.004	alpha- HCH, water, fltrd, ug/L (34253) <0.005	Aminomethyl-phos-phonic acid, wat flt ug/L (62649) 0.4	Atrazine, water, fltrd, ug/L (39632) 0.275	Azin-phos-methyl oxon, water, fltrd, ug/L (61635)	phos- methyl, water, fltrd 0.7u GF ug/L (82686) <0.050	fluralin, water, fltrd 0.7u GF ug/L (82673) <0.010	Endo- sulfan, water, fltrd, ug/L (34357) <0.01
OCT 09 NOV 05 25 DEC	chlor ESA, water, fltrd 0.7u GF ug/L (61029) 0.07 <0.05 0.25	chlor OA, water, fltrd 0.7u GF ug/L (61030) 0.07 <0.05 0.27	Aceto- chlor, water, fltrd, ug/L (49260) 0.009 <0.006 0.021	Ala- chlor ESA, water, fltrd 0.7u GF ug/L (50009) 0.10	Ala- chlor OA, water, fltrd 0.7u GF ug/L (61031) <0.05 <0.05	Ala- chlor, water, fltrd, ug/L (46342) <0.004 <0.004	alpha- HCH, water, fltrd, ug/L (34253) <0.005 <0.005	Aminomethyl-phos-phonic acid, wat flt ug/L (62649) 0.4 <0.1	Atrazine, water, fltrd, ug/L (39632) 0.275 <0.007 0.101	Azin-phos-methyl oxon, water, fltrd, ug/L (61635) <0.02 <0.02	phosmethyl, water, fltrd 0.7u GF ug/L (82686) <0.050 <0.050	fluralin, water, fltrd 0.7u GF ug/L (82673) <0.010 <0.010	Endo- sulfan, water, fltrd, ug/L (34357) <0.01 <0.01
OCT 09 NOV 05 25 DEC 16 JAN 16	chlor ESA, water, fltrd 0.7u GF ug/L (61029) 0.07 <0.05 0.25	chlor OA, water, fltrd 0.7u GF ug/L (61030) 0.07 <0.05 0.27 0.06	Aceto-chlor, water, fltrd, ug/L (49260) 0.009 <0.006 0.021 <0.006	Ala- chlor ESA, water, fltrd 0.7u GF ug/L (50009) 0.10 0.09 0.10	Ala- chlor OA, water, fltrd 0.7u GF ug/L (61031) <0.05 <0.05 <0.05	Ala- chlor, water, fltrd, ug/L (46342) <0.004 <0.004 <0.004	alpha- HCH, water, fltrd, ug/L (34253) <0.005 <0.005 <0.005	Aminomethyl-phosphonic acid, wat flt ug/L (62649) 0.4 <0.1 <0.1	Atrazine, water, fltrd, ug/L (39632) 0.275 <0.007 0.101 0.043	Azin-phos-methyl oxon, water, fltrd, ug/L (61635) <0.02 <0.02 <0.02 <0.02	phosmethyl, water, fltrd 0.7u GF ug/L (82686) <0.050 <0.050 <0.050	fluralin, water, fltrd 0.7u GF ug/L (82673) <0.010 <0.010 <0.010	Endo-sulfan, water, fltrd, ug/L (34357) <0.01 <0.01 <0.01
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18	chlor ESA, water, fltrd 0.7u GF ug/L (61029) 0.07 <0.05 0.25 0.07	chlor OA, water, filtrd 0.7u GF ug/L (61030) 0.07 <0.05 0.27 0.06 0.11	Aceto- chlor, water, fltrd, ug/L (49260) 0.009 <0.006 0.021 <0.006 E0.005	Ala- chlor ESA, water, fltrd 0.7u GF ug/L (50009) 0.10 0.09 0.10 0.11	Ala- chlor OA, water, fltrd 0.7u GF ug/L (61031) <0.05 <0.05 <0.05 <0.05	Ala- chlor, water, fltrd, ug/L (46342) <0.004 <0.004 <0.004 <0.004	alpha-HCH, water, fltrd, ug/L (34253) <0.005 <0.005 <0.005 <0.005	Aminomethyl-phos-phonic acid, wat flt ug/L (62649) 0.4 <0.1 <0.1 <0.1	Atrazine, water, fltrd, ug/L (39632) 0.275 <0.007 0.101 0.043 0.108 0.055	Azin-phos-methyl oxon, water, fltrd, ug/L (61635) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	phosmethyl, water, fltrd 0.7u GF ug/L (82686) <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	fluralin, water, fltrd 0.7u GF ug/L (82673) <0.010 <0.010 <0.010 <0.010 <0.010	Endo-sulfan, water, fltrd, ug/L (34357) <0.01 <0.01 <0.01 <0.01 <0.01
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18 MAR 11	chlor ESA, water, fltrd 0.7u GF ug/L (61029) 0.07 <0.05 0.25 0.07 0.21 <0.05	chlor OA, water, fltrd 0.7u GF ug/L (61030) 0.07 <0.05 0.27 0.06 0.11 0.06	Aceto-chlor, water, fltrd, ug/L (49260) 0.009 <0.006 0.021 <0.006 E0.005	Ala- chlor ESA, water, fltrd 0.7u GF ug/L (50009) 0.10 0.09 0.10 0.11 0.05	Ala- chlor OA, water, fltrd 0.7u GF ug/L (61031) <0.05 <0.05 <0.05 <0.05 <0.05	Ala- chlor, water, fltrd, ug/L (46342) <0.004 <0.004 <0.004 <0.004 <0.004	alpha-HCH, water, fltrd, ug/L (34253) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Aminomethyl-phosphonic acid, wat fit ug/L (62649) 0.4 <0.1 <0.1 <0.1 <0.1	Atrazine, water, fltrd, ug/L (39632) 0.275 <0.007 0.101 0.043 0.108 0.055	Azin-phos-methyl oxon, water, fltrd, ug/L (61635) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	phosmethyl, water, fltrd 0.7u GF ug/L (82686) <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	fluralin, water, fltrd 0.7u GF ug/L (82673) <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	Endo-sulfan, water, fltrd, ug/L (34357) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18 MAR 11 APR 01	chlor ESA, water, fltrd 0.7u GF ug/L (61029) 0.07 <0.05 0.25 0.07 0.21 <0.05 0.19 0.17	chlor OA, water, filtrd 0.7u GF ug/L (61030) 0.07 <0.05 0.27 0.06 0.11 0.06 0.13 0.11	Aceto-chlor, water, fltrd, ug/L (49260) 0.009 <0.006 0.021 <0.006 E0.005 <0.006 0.010 E0.006	Ala- chlor ESA, water, fltrd 0.7u GF ug/L (50009) 0.10 0.09 0.10 0.11 0.05 0.05 0.06 <0.05	Ala- chlor OA, water, fltrd 0.7u GF ug/L (61031) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Ala-chlor, water, fltrd, ug/L (46342) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	alpha-HCH, water, fltrd, ug/L (34253) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Aminomethyl-phosphonic acid, wat flt ug/L (62649) 0.4 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	Atrazine, water, fltrd, ug/L (39632) 0.275 <0.007 0.101 0.043 0.108 0.055 0.152 0.096	Azin-phos-methyl oxon, water, fltrd, ug/L (61635) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.0	phosmethyl, water, fltrd 0.7u GF ug/L (82686) <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	fluralin, water, fltrd 0.7u GF ug/L (82673) <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	Endo-sulfan, water, fltrd, ug/L (34357) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18 MAR 11 APR 01 15 MAY 06 21	chlor ESA, water, fltrd 0.7u GF ug/L (61029) 0.07 <0.05 0.25 0.07 0.21 <0.05 0.19 0.17 0.06 0.33	chlor OA, water, filtrd 0.7u GF ug/L (61030) 0.07 <0.05 0.27 0.06 0.11 0.06 0.13 0.11 <0.05 0.32	Aceto-chlor, water, fltrd, ug/L (49260) 0.009 <0.006 0.021 <0.006 E0.005 <0.006 0.010 E0.006 0.760 0.084 0.063 0.063	Ala- chlor ESA, water, fltrd 0.7u GF ug/L (50009) 0.10 0.09 0.10 0.11 0.05 0.05 0.06 <0.05 0.05 0.08	Ala- chlor OA, water, fltrd 0.7u GF ug/L (61031) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Ala-chlor, water, fltrd, ug/L (46342) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.005 0.005 0.030	alpha-HCH, water, fltrd, ug/L (34253) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Aminomethyl-phosphonic acid, wat flt ug/L (62649) 0.4 <0.1 <0.1 <0.1 <0.1 0.3 <0.1 0.1	Atrazine, water, fltrd, ug/L (39632) 0.275 <0.007 0.101 0.043 0.108 0.055 0.152 0.096 0.064 8.98 1.74 1.63 1.01	Azin-phos-methyl oxon, water, fltrd, ug/L (61635) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	phosmethyl, water, fltrd 0.7u GF ug/L (82686) <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	fluralin, water, fltrd 0.7u GF ug/L (82673) <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	Endo-sulfan, water, fltrd, ug/L (34357) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18 MAR 11 APR 01 15 MAY 06 21 JUN 04 24 JUN 09 22	chlor ESA, water, fltrd 0.7u GF ug/L (61029) 0.07 <0.05 0.25 0.07 0.21 <0.05 0.19 0.17 0.06 0.33 0.16 0.10	chlor OA, water, fltrd 0.7u GF ug/L (61030) 0.07 <0.05 0.27 0.06 0.11 0.06 0.13 0.11 <0.05 0.32 0.22 0.06	Aceto-chlor, water, fltrd, ug/L (49260) 0.009 <0.006 0.021 <0.006 E0.005 <0.006 0.010 E0.006 <0.006 0.760 0.084 0.063	Ala-chlor ESA, water, fltrd 0.7u GF ug/L (50009) 0.10 0.09 0.10 0.11 0.05 0.05 0.06 <0.05 0.08 0.11 0.08	Ala- chlor OA, water, fltrd 0.7u GF ug/L (61031) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Ala-chlor, water, fltrd, ug/L (46342) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.005	alpha-HCH, water, fltrd, ug/L (34253) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Aminomethyl-phosphonic acid, wat fit ug/L (62649) 0.4 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	Atrazine, water, flurd, ug/L (39632) 0.275 <0.007 0.101 0.043 0.108 0.055 0.152 0.096 0.064 8.98 1.74 1.63	Azin-phos-methyl oxon, water, fltrd, ug/L (61635) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.03 <0.02 <0.03 <0.03	phosmethyl, water, fltrd 0.7u GF ug/L (82686) <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	fluralin, water, fltrd 0.7u GF ug/L (82673) <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	Endo-sulfan, water, fltrd, ug/L (34357) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18 MAR 11 APR 01 15 MAY 06 21 JUN 04 JUN 04 JUL 09	chlor ESA, water, fltrd 0.7u GF ug/L (61029) 0.07 <0.05 0.25 0.07 0.21 <0.05 0.19 0.17 0.06 0.33 0.16 0.10 0.51 1.01	chlor OA, water, filtrd 0.7u GF ug/L (61030) 0.07 <0.05 0.27 0.06 0.11 0.06 0.13 0.11 <0.05 0.32 0.22 0.06 0.44 1.25	Aceto-chlor, water, fltrd, ug/L (49260) 0.009 <0.006 0.021 <0.006 E0.005 <0.006 0.010 E0.006 <0.006 0.760 0.084 0.063 0.063 0.217	Ala- chlor ESA, water, fltrd 0.7u GF ug/L (50009) 0.10 0.09 0.10 0.11 0.05 0.05 0.06 <0.05 0.08 0.11 0.08 0.09 <0.05	Ala- chlor OA, water, fltrd 0.7u GF ug/L (61031) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Ala-chlor, water, fltrd, ug/L (46342) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.005 0.030 0.010	alpha-HCH, water, fltrd, ug/L (34253) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Aminomethyl-phosphonic acid, wat flt ug/L (62649) 0.4 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 0.3 <0.1 <0.1 <0.1 0.1 <0.1 0.5	Atrazine, water, fltrd, ug/L (39632) 0.275 <0.007 0.101 0.043 0.108 0.055 0.152 0.096 0.064 8.98 1.74 1.63 1.01 2.83	Azin-phos-methyl oxon, water, fltrd, ug/L (61635) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	phosmethyl, water, fltrd 0.7u GF ug/L (82686) <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	fluralin, water, fltrd 0.7u GF ug/L (82673) <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	Endo-sulfan, water, fltrd, ug/L (34357) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01

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394340085524601 SUGAR CREEK AT CO. RD. 400S AT NEW PALESTINE, IN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

			WAILK										
Date	Bifen- thrin, water, fltrd, ug/L (61580)	Butylate, water, fltrd, ug/L (04028)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Carbo- furan, water, fltrd 0.7u GF ug/L (82674)	Chlor- pyrifos oxon, water, fltrd, ug/L (61636)	Chlor- pyrifos water, fltrd, ug/L (38933)	cis- Per- methrin water fltrd 0.7u GF ug/L (82687)	ris- Propi- cona- zole, water, fltrd, ug/L (79846)	Cyana- zine, water, fltrd, ug/L (04041)	Cyclo- ate, water, fltrd, ug/L (04031)	Cyflu- thrin, water, fltrd, ug/L (61585)	Cyhalo- thrin, water, fltrd, ug/L (61595)	Cyper- methrin water, fltrd, ug/L (61586)
OCT 09	< 0.005	< 0.002	< 0.041	< 0.020	< 0.06	< 0.005	< 0.006	< 0.008	E0.011	< 0.005	< 0.008	< 0.009	< 0.009
NOV 05 25	<0.005 <0.005	<0.002 <0.002	<0.041 <0.041	<0.020 <0.020	<0.06 <0.06	<0.005 <0.005	<0.006 <0.006	<0.008 <0.008	<0.018 <0.018	<0.005 <0.005	<0.008 <0.008	<0.009 <0.009	<0.009 <0.009
DEC 16	< 0.005	< 0.002	< 0.041	< 0.020	< 0.06	< 0.005	< 0.006	< 0.008	< 0.018	< 0.005	< 0.008	< 0.009	< 0.009
JAN 16	< 0.005	< 0.002	< 0.041	< 0.020	< 0.06	< 0.005	< 0.006	< 0.008	< 0.018	< 0.005	< 0.008	< 0.009	< 0.009
FEB 18	< 0.005	< 0.002	< 0.041	< 0.020	< 0.06	< 0.005	< 0.006	< 0.008	< 0.018	< 0.005	< 0.008	< 0.009	< 0.009
MAR 11	< 0.005	< 0.002	< 0.041	< 0.020	< 0.06	< 0.005	< 0.006	< 0.008	< 0.018	< 0.005	< 0.008	< 0.009	< 0.009
APR 01 15	<0.005 <0.005	<0.002 <0.002	<0.041 <0.041	<0.020 <0.020	<0.06 <0.06	<0.005 <0.005	<0.006 <0.006	<0.008 <0.008	<0.018 <0.018	<0.005 <0.005	<0.008 <0.008	<0.009 <0.009	<0.009 <0.009
MAY 06 21	<0.005 <0.005	<0.002 <0.002	<0.041 <0.041	<0.020 <0.020	<0.06 <0.06	<0.005 <0.005	<0.006 <0.006	<0.008 <0.008	<0.018 <0.018	<0.005 <0.005	<0.008 <0.008	<0.009 <0.009	<0.009 <0.009
JUN 04 24 JUL	<0.005 <0.005	<0.002 <0.002	<0.041 <0.041	<0.020 <0.020	<0.06 <0.02	<0.005 <0.005	<0.006 <0.006	<0.008 <0.008	0.020 <0.018	<0.005 <0.005	<0.008 <0.016	<0.009 <0.009	<0.009 <0.016
09 22 AUG	<0.005 <0.005	<0.002 <0.002	E0.013 E0.081	<0.020 <0.020	<0.06 <0.06	0.007 <0.010	<0.006 <0.006	<0.008 <0.008	0.046 0.114	<0.005 <0.005	<0.008 <0.008	<0.009 <0.009	<0.009 <0.009
04 19 SEP	<0.005 <0.005	<0.002 <0.002	<0.041 <0.041	<0.020 <0.020	<0.06 <0.06	<0.005 <0.005	<0.006 <0.006	<0.008 <0.008	<0.018 <0.018	<0.005 <0.005	<0.008 <0.008	<0.009 <0.009	<0.009 <0.009
03	< 0.005	< 0.002	E0.019	< 0.020	< 0.06	< 0.005	< 0.006	< 0.008	E0.015	< 0.005	< 0.008	< 0.009	< 0.009
		Desulf-	WATER-0	QUALITY	DATA, WA					Disulf-	Digul	o Di	Endo
Date	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170)	Diazinon, water, fltrd, ug/L (39572)	Dicro- tophos, water fltrd, ug/L (38454)	Diel- drin, water, fltrd, ug/L (39381)	Dimethenamid ESA, water, fltrd, ug/L (61951)	Dimethenamid OA, water, fltrd, ug/L (62482)	Dimeth- oate, water, fltrd 0.7u GF ug/L (82662)	Disulf- oton sulfone water, fltrd, ug/L (61640)		Disul- foton, water, fltrd 0.7u GF ug/L (82677)	e-Di- metho- morph, water, fltrd, ug/L (79844)	Endo- sulfan ether, water, fltrd, ug/L (61642)
OCT 09	water fltrd 0.7u GF ug/L	inyl fipro- nil, water, fltrd, ug/L	Diazi- non, water, fltrd, ug/L	Dicro- tophos, water fltrd, ug/L	Diel- drin, water, fltrd, ug/L	Dimeth- enamid ESA, water, fltrd, ug/L	Dimeth- enamid OA, water, fltrd, ug/L	Dimethoate, water, fltrd 0.7u GF ug/L	Disulf- oton sulfone water, fltrd, ug/L	Disulf- oton sulf- oxide, water, fltrd, ug/L	foton, water, fltrd 0.7u GF ug/L	metho- morph, water, fltrd, ug/L	sulfan ether, water, fltrd, ug/L
OCT 09 NOV 05 25	water fltrd 0.7u GF ug/L (82682)	inyl fipro- nil, water, fltrd, ug/L (62170)	Diazi- non, water, fltrd, ug/L (39572)	Dicrotophos, water fltrd, ug/L (38454)	Diel- drin, water, fltrd, ug/L (39381)	Dimethenamid ESA, water, fltrd, ug/L (61951)	Dimethenamid OA, water, fltrd, ug/L (62482)	Dimethoate, water, fltrd 0.7u GF ug/L (82662)	Disulf- oton sulfone water, fltrd, ug/L (61640)	Disulf- oton sulf- oxide, water, fltrd, ug/L (61641)	foton, water, fltrd 0.7u GF ug/L (82677)	metho- morph, water, fltrd, ug/L (79844)	sulfan ether, water, fltrd, ug/L (61642)
OCT 09 NOV 05 25 DEC 16	water fltrd 0.7u GF ug/L (82682) <0.003	inyl fipro- nil, water, fltrd, ug/L (62170) <0.004	Diazinon, water, fltrd, ug/L (39572)	Dicrotophos, water fltrd, ug/L (38454)	Diel- drin, water, fltrd, ug/L (39381) <0.005	Dimethenamid ESA, water, fltrd, ug/L (61951) <0.05	Dimethenamid OA, water, fltrd, ug/L (62482)	Dimethoate, water, fltrd 0.7u GF ug/L (82662) <0.006	Disulf- oton sulfone water, fltrd, ug/L (61640) <0.02	Disulf- oton sulf- oxide, water, fltrd, ug/L (61641) <0.002	foton, water, fltrd 0.7u GF ug/L (82677) <0.02	metho- morph, water, fltrd, ug/L (79844) <0.02	sulfan ether, water, fltrd, ug/L (61642) <0.004
OCT 09 NOV 05 25 DEC 16 JAN 16	water fltrd 0.7u GF ug/L (82682) <0.003 <0.003	inyl fipronil, water, fltrd, ug/L (62170) <0.004 <0.004	Diazi- non, water, fltrd, ug/L (39572) <0.005 <0.005 E0.006	Dicrotophos, water fltrd, ug/L (38454) <0.08 <0.08	Dieldrin, water, fltrd, ug/L (39381) <0.005 <0.005	Dimethenamid ESA, water, fltrd, ug/L (61951) <0.05 <0.05	Dimethenamid OA, water, fltrd, ug/L (62482) <0.05 <0.05	Dimethoate, water, fltrd 0.7u GF ug/L (82662) <0.006 <0.006	Disulforon sulfone water, fltrd, ug/L (61640) <0.02 <0.02	Disulf- oton sulf- oxide, water, fltrd, ug/L (61641) <0.002 <0.002 <0.002	foton, water, fltrd 0.7u GF ug/L (82677) <0.02 <0.02	metho- morph, water, fltrd, ug/L (79844) <0.02 <0.02	sulfan ether, water, fltrd, ug/L (61642) <0.004 <0.004
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18	water fltrd 0.7u GF ug/L (82682) <0.003 <0.003 <0.003	inyl fipro- nil, water, fltrd, ug/L (62170) <0.004 <0.004 <0.004	Diazinon, water, fltrd, ug/L (39572) <0.005 <0.005 E0.006 <0.005	Dicrotophos, water fltrd, ug/L (38454) <0.08 <0.08 <0.08 <0.08	Dieldrin, water, fltrd, ug/L (39381) <0.005 <0.005 <0.005	Dimethenamid ESA, water, fltrd, ug/L (61951) <0.05 <0.05 <0.05	Dimethenamid OA, water, fltrd, ug/L (62482) <0.05 <0.05 <0.05	Dimethoate, water, fltrd 0.7u GF ug/L (82662) <0.006 <0.006 <0.006	Disulf- oton sulfone water, fltrd, ug/L (61640) <0.02 <0.02 <0.02 <0.02	Disulf- oton sulf- oxide, water, fltrd, ug/L (61641) <0.002 <0.002 <0.002 <0.002	foton, water, fltrd 0.7u GF ug/L (82677) <0.02 <0.02 <0.02	metho- morph, water, fltrd, ug/L (79844) <0.02 <0.02 <0.02 <0.02	sulfan ether, water, fltrd, ug/L (61642) <0.004 <0.004 <0.004
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18 MAR 11	water fltrd 0.7u GF ug/L (82682) <0.003 <0.003 <0.003 <0.003	inyl fipronil, water, fltrd, ug/L (62170) <0.004 <0.004 <0.004 <0.004	Diazinon, water, fltrd, ug/L (39572) <0.005 <0.005 <0.005 <0.005 <0.005	Dicrotophos, water fltrd, ug/L (38454) <0.08 <0.08 <0.08 <0.08 <0.08	Dieldrin, water, fltrd, ug/L (39381) <0.005 <0.005 <0.005 <0.005	Dimethenamid ESA, water, fltrd, ug/L (61951) <0.05 <0.05 <0.05 <0.05 <0.05	Dimethenamid OA, water, fltrd, ug/L (62482) <0.05 <0.05 <0.05 <0.05	Dimethoate, water, fltrd 0.7u GF ug/L (82662) <0.006 <0.006 <0.006 <0.006	Disulf- oton sulfone water, fltrd, ug/L (61640) <0.02 <0.02 <0.02 <0.02	Disulf- oton sulf- oxide, water, fltrd, ug/L (61641) <0.002 <0.002 <0.002 <0.002	foton, water, fltrd 0.7u GF ug/L (82677) <0.02 <0.02 <0.02 <0.02 <0.02	methomorph, water, fltrd, ug/L (79844) <0.02 <0.02 <0.02 <0.02 <0.02	sulfan ether, water, fltrd, ug/L (61642) <0.004 <0.004 <0.004 <0.004
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18 MAR 11 APR 01	water fltrd 0.7u GF ug/L (82682) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	inyl fipronil, water, fltrd, ug/L (62170) <0.004 <0.004 <0.004 <0.004 <0.004	Diazinon, water, fltrd, ug/L (39572) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Dicrotophos, water fltrd, ug/L (38454) <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08	Dieldrin, water, fltrd, ug/L (39381) <0.005 <0.005 <0.005 <0.005 <0.005	Dimethenamid ESA, water, fltrd, ug/L (61951) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Dimethenamid OA, water, fltrd, ug/L (62482) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Dimethoate, water, fltrd 0.7u GF ug/L (82662) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006	Disulf- oton sulfone water, fltrd, ug/L (61640) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	Disulf- oton sulf- oxide, water, fltrd, ug/L (61641) <0.002 <0.002 <0.002 <0.002 <0.002 <0.002	foton, water, fltrd 0.7u GF ug/L (82677) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	methomorph, water, fltrd, ug/L (79844) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	sulfan ether, water, fltrd, ug/L (61642) <0.004 <0.004 <0.004 <0.004 <0.004
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18 MAR 11 APR 01	water fltrd 0.7u GF ug/L (82682) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	inyl fipronil, water, fltrd, ug/L (62170) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Diazinon, water, fltrd, ug/L (39572) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Dicrotophos, water fltrd, ug/L (38454) <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08	Dieldrin, water, fltrd, ug/L (39381) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Dimethenamid ESA, water, fltrd, ug/L (61951) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Dimethenamid OA, water, fltrd, ug/L (62482) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Dimethoate, water, fltrd 0.7u GF ug/L (82662) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006	Disulf- oton sulfone water, fltrd, ug/L (61640) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	Disulf- oton sulf- oxide, water, fltrd, ug/L (61641) <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002	foton, water, fltrd 0.7u GF ug/L (82677) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	methomorph, water, fltrd, ug/L (79844) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	sulfan ether, water, fltrd, ug/L (61642) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18 MAR 11 APR 01 15 MAY 06 21	water fltrd 0.7u GF ug/L (82682) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	inyl fipronil, water, fltrd, ug/L (62170) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Diazinon, water, fltrd, ug/L (39572) <0.005 <0.005 E0.006 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Dicrotophos, water fltrd, ug/L (38454) <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08	Dieldrin, water, fltrd, ug/L (39381) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Dimethenamid ESA, water, fltrd, ug/L (61951) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Dimethenamid OA, water, fltrd, ug/L (62482) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Dimethoate, water, fltrd 0.7u GF ug/L (82662) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006	Disulf- oton sulfone water, fltrd, ug/L (61640) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	Disulf- oton sulf- oxide, water, fltrd, ug/L (61641) <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002	foton, water, fltrd 0.7u GF ug/L (82677) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	methomorph, water, fltrd, ug/L (79844) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	sulfan ether, water, fltrd, ug/L (61642) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18 MAR 11 APR 01 15 MAY 06 21 JUN 04	water fltrd 0.7u GF ug/L (82682) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	inyl fipronil, water, fltrd, ug/L (62170) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Diazinon, water, fltrd, ug/L (39572) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Dicrotophos, water fltrd, ug/L (38454) <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08	Dieldrin, water, fltrd, ug/L (39381) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Dimethenamid ESA, water, fltrd, ug/L (61951) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Dimethenamid OA, water, fltrd, ug/L (62482) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Dimethoate, water, fltrd 0.7u GF ug/L (82662) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006	Disulf- oton sulfone water, fltrd, ug/L (61640) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	Disulf- oton sulf- oxide, water, fltrd, ug/L (61641) <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002	foton, water, fltrd 0.7u GF ug/L (82677) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	methomorph, water, fltrd, ug/L (79844) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	sulfan ether, water, fltrd, ug/L (61642) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18 MAR 11 APR 01 15 MAY 06 21 JUN 04 24 JUL 09 22	water fltrd 0.7u GF ug/L (82682) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	inyl fipronil, water, fltrd, ug/L (62170) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Diazinon, water, fltrd, ug/L (39572) <0.005 <0.005 E0.006 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Dicrotophos, water fltrd, ug/L (38454) <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08 <0.08	Dieldrin, water, fltrd, ug/L (39381) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Dimethenamid ESA, water, fltrd, ug/L (61951) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Dimethenamid OA, water, fltrd, ug/L (62482) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Dimethoate, water, fltrd 0.7u GF ug/L (82662) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006	Disulf- oton sulfone water, fltrd, ug/L (61640) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	Disulf- oton sulf- oxide, water, fltrd, ug/L (61641) <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002	foton, water, fltrd 0.7u GF ug/L (82677) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	methomorph, water, fltrd, ug/L (79844) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	sulfan ether, water, fltrd, ug/L (61642) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004

394340085524601 SUGAR CREEK AT CO. RD. 400S AT NEW PALESTINE, IN—Continued

Date	Endo- sulfan sulfate water, fltrd, ug/L (61590)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethal- flur- alin, water, fltrd 0.7u GF ug/L (82663)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Etho- prop, water, fltrd 0.7u GF ug/L (82672)	Fenami- phos sulfone water, fltrd, ug/L (61645)	Fenamiphos sulfoxide, water, fltrd, ug/L (61646)	Fenamiphos, water, fltrd, ug/L (61591)	Fen- thion sulf- oxide, water, fltrd, ug/L (61647)	Fen- thion, water, fltrd, ug/L (38801)	Desulf- inyl- fipro- nil amide, wat flt ug/L (62169)	Fipro- nil sulfide water, fltrd, ug/L (62167)
OCT 09	< 0.006	< 0.002	< 0.009	< 0.03	< 0.004	< 0.005	< 0.008	< 0.03	< 0.03	< 0.008	< 0.02	< 0.009	< 0.005
NOV 05 25	<0.006 <0.006	<0.002 <0.002	<0.009 <0.009	<0.03 <0.03	<0.004 <0.004	<0.005 <0.005	<0.008 <0.008	<0.03 <0.03	<0.03 <0.03	<0.008 <0.008	<0.02 <0.02	<0.009 <0.009	<0.005 <0.005
DEC 16	<0.006	<0.002	<0.009	<0.03	<0.004	< 0.005	<0.008	<0.03	<0.03	< 0.008	<0.02	<0.009	< 0.005
JAN 16	< 0.006	< 0.002	< 0.009	< 0.03	< 0.004	< 0.005	< 0.008	< 0.03	< 0.03	< 0.008	< 0.02	< 0.009	< 0.005
FEB 18	< 0.006	< 0.002	< 0.009	< 0.03	< 0.004	< 0.005	< 0.008	< 0.03	< 0.03	< 0.008	< 0.02	< 0.009	< 0.005
MAR 11	< 0.006	< 0.002	< 0.009	< 0.03	< 0.004	< 0.005	<0.008	< 0.03	< 0.03	< 0.008	< 0.02	< 0.009	< 0.005
APR 01 15	<0.006 <0.006	<0.002 <0.002	<0.009 <0.009	<0.03 <0.03	<0.004 <0.004	<0.005 <0.005	<0.008 <0.008	<0.03 <0.03	<0.03 <0.03	<0.008 <0.008	<0.02 <0.02	<0.009 <0.009	<0.005 <0.005
MAY 06 21	<0.006 <0.006	<0.002 <0.002	<0.009 <0.009	<0.03 <0.03	<0.004 <0.004	<0.005 <0.005	<0.008 <0.031	<0.03 <0.03	<0.03 <0.03	<0.008 <0.008	<0.02 <0.02	<0.009 <0.009	<0.005 <0.005
JUN 04	< 0.006	< 0.002	< 0.009	<0.03	<0.004	< 0.005	< 0.008	<0.03	<0.03	< 0.008	<0.02	< 0.009	< 0.005
24 JUL	< 0.006	< 0.002	< 0.009	< 0.03	< 0.004	< 0.005	< 0.008	< 0.03	< 0.03	< 0.008	< 0.02	< 0.009	< 0.005
09 22 AUG	<0.006 <0.006	<0.002 <0.002	<0.009 <0.009	<0.03 <0.03	<0.004 <0.004	<0.005 <0.005	<0.008 <0.008	<0.03 <0.03	<0.03 <0.03	<0.008 <0.008	<0.02 <0.02	<0.009 <0.009	<0.005 <0.005
04 19	<0.006 <0.006	<0.002 <0.002	<0.009 <0.009	<0.03 <0.03	<0.004 <0.004	<0.005 <0.005	<0.008 <0.008	<0.03 <0.03	<0.03 <0.03	<0.008 <0.008	<0.02 <0.02	<0.009 <0.009	<0.005 <0.005
SEP 03	< 0.006	< 0.002	<0.009	< 0.03	< 0.004	< 0.005	< 0.008	< 0.03	< 0.03	< 0.008	< 0.02	< 0.009	< 0.005
Date	Fipronil sulfone water, fltrd, ug/L (62168)	Fipro- nil, water, fltrd, ug/L (62166)	WATER-OF Flufenacet ESA, water, fltrd, ug/L (61952)	Flufe- nacet OA, water, fltrd, ug/L (62483)	Flume- tralin, water, fltrd, ug/L (61592)	Fonofos oxon, water, fltrd, ug/L (61649)	Fonofos water, fltrd, ug/L (04095)	Glufo- sinate, water, fltrd 0.7u GF ug/L (62721)	Glypho- sate, water, fltrd 0.7u GF ug/L (62722)	Hexa- zinone, water, fltrd, ug/L (04025)	Iprodione, water, fltrd, ug/L (61593)	Isofen- phos, water, fltrd, ug/L (61594)	Lindane water, fltrd, ug/L (39341)
OCT 09	nil sulfone water, fltrd, ug/L	nil, water, fltrd, ug/L	Flufen- acet ESA, water, fltrd, ug/L	Flufe- nacet OA, water, fltrd, ug/L	Flume- tralin, water, fltrd, ug/L	Fonofos oxon, water, fltrd, ug/L	Fonofos water, fltrd, ug/L	Glufo- sinate, water, fltrd 0.7u GF ug/L	Glyphosate, water, fltrd 0.7u GF ug/L	Hexa- zinone, water, fltrd, ug/L	dione, water, fltrd, ug/L	phos, water, fltrd, ug/L	water, fltrd, ug/L
OCT	nil sulfone water, fltrd, ug/L (62168)	nil, water, fltrd, ug/L (62166)	Flufenacet ESA, water, fltrd, ug/L (61952)	Flufe- nacet OA, water, fltrd, ug/L (62483)	Flume- tralin, water, fltrd, ug/L (61592)	Fonofos oxon, water, fltrd, ug/L (61649)	Fonofos water, fltrd, ug/L (04095)	Glufo- sinate, water, fltrd 0.7u GF ug/L (62721)	Glyphosate, water, fltrd 0.7u GF ug/L (62722)	Hexa- zinone, water, fltrd, ug/L (04025)	dione, water, fltrd, ug/L (61593)	phos, water, fltrd, ug/L (61594)	water, fltrd, ug/L (39341)
OCT 09 NOV 05 25 DEC 16	nil sulfone water, fltrd, ug/L (62168) <0.005	nil, water, fltrd, ug/L (62166) <0.007	Flufenacet ESA, water, fltrd, ug/L (61952)	Flufe- nacet OA, water, fltrd, ug/L (62483) <0.05	Flumetralin, water, fltrd, ug/L (61592) <0.004	Fonofos oxon, water, fltrd, ug/L (61649) <0.002	Fonofos water, fltrd, ug/L (04095) <0.003	Glufo- sinate, water, fltrd 0.7u GF ug/L (62721) <0.1	Glyphosate, water, fltrd 0.7u GF ug/L (62722)	Hexa- zinone, water, fltrd, ug/L (04025) <0.013	dione, water, fltrd, ug/L (61593)	phos, water, fltrd, ug/L (61594) <0.003	water, fltrd, ug/L (39341) <0.004
OCT 09 NOV 05 25 DEC 16 JAN 16	nil sulfone water, fltrd, ug/L (62168) <0.005 <0.005	nil, water, fltrd, ug/L (62166) <0.007 <0.007	Flufen- acet ESA, water, fltrd, ug/L (61952) <0.05 <0.05	Flufe-nacet OA, water, fltrd, ug/L (62483) <0.05 <0.05	Flume-tralin, water, fltrd, ug/L (61592) <0.004 <0.004	Fonofos oxon, water, fltrd, ug/L (61649) <0.002 <0.002	Fonofos water, fltrd, ug/L (04095) <0.003 <0.003	Glufo- sinate, water, fltrd 0.7u GF ug/L (62721) <0.1 <0.1	Glyphosate, water, fltrd 0.7u GF ug/L (62722) <0.1 <0.1	Hexa- zinone, water, fltrd, ug/L (04025) <0.013 <0.013	dione, water, fltrd, ug/L (61593)	phos, water, fltrd, ug/L (61594) <0.003 <0.003	water, fltrd, ug/L (39341) <0.004 <0.004 <0.004
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18	nil sulfone water, fltrd, ug/L (62168) <0.005 <0.005 <0.005	nil, water, fltrd, ug/L (62166) <0.007 <0.007 <0.007 <0.007	Flufenacet ESA, water, fltrd, ug/L (61952) <0.05 <0.05 <0.05	Flufe-nacet OA, water, fltrd, ug/L (62483) <0.05 <0.05 <0.05	Flume-tralin, water, fltrd, ug/L (61592) <0.004 <0.004 <0.004	Fonofos oxon, water, fltrd, ug/L (61649) <0.002 <0.002 <0.002	Fonofos water, fltrd, ug/L (04095) <0.003 <0.003 <0.003	Glufo- sinate, water, fltrd 0.7u GF ug/L (62721) <0.1 <0.1 <0.1	Glypho- sate, water, fltrd 0.7u GF ug/L (62722) <0.1 <0.1 <0.1	Hexa-zinone, water, fltrd, ug/L (04025) <0.013 <0.013 <0.013	dione, water, fltrd, ug/L (61593) <1 <1 <1 <1	phos, water, fltrd, ug/L (61594) <0.003 <0.003 <0.003	water, fltrd, ug/L (39341) <0.004 <0.004 <0.004
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18 MAR 11	nil sulfone water, fltrd, ug/L (62168) <0.005 <0.005 <0.005	nil, water, fltrd, ug/L (62166) <0.007 <0.007 <0.007 <0.007	Flufenacet ESA, water, fltrd, ug/L (61952) <0.05 <0.05 <0.05 <0.05	Flufe-nacet OA, water, fltrd, ug/L (62483) <0.05 <0.05 <0.05 <0.05 <0.05	Flume-tralin, water, fltrd, ug/L (61592) <0.004 <0.004 <0.004 <0.004 <0.004	Fonofos oxon, water, fltrd, ug/L (61649) <0.002 <0.002 <0.002 <0.002	Fonofos water, fltrd, ug/L (04095) <0.003 <0.003 <0.003 <0.003	Glufo- sinate, water, fltrd 0.7u GF ug/L (62721) <0.1 <0.1 <0.1 <0.1	Glypho- sate, water, fltrd 0.7u GF ug/L (62722) <0.1 <0.1 <0.1	Hexa-zinone, water, fltrd, ug/L (04025) <0.013 <0.013 <0.013 <0.013	dione, water, fltrd, ug/L (61593) <1 <1 <1 <1	phos, water, fltrd, ug/L (61594) <0.003 <0.003 <0.003 <0.003 <0.003	water, fltrd, ug/L (39341) <0.004 <0.004 <0.004 <0.004 <0.004
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18 MAR 11 APR 01	nil sulfone water, fltrd, ug/L (62168) <0.005 <0.005 <0.005 <0.005 <0.005	nil, water, fltrd, ug/L (62166) <0.007 <0.007 <0.007 <0.007 <0.007	Flufenacet ESA, water, fltrd, ug/L (61952) <0.05 <0.05 <0.05 <0.05 <0.05	Flufe-nacet OA, water, fltrd, ug/L (62483) <0.05 <0.05 <0.05 <0.05 <0.05	Flume-tralin, water, fltrd, ug/L (61592) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Fonofos oxon, water, fltrd, ug/L (61649) <0.002 <0.002 <0.002 <0.002 <0.002	Fonofos water, fltrd, ug/L (04095) <0.003 <0.003 <0.003 <0.003 <0.003	Glufo- sinate, water, fltrd 0.7u GF ug/L (62721) <0.1 <0.1 <0.1 <0.1 <0.1	Glypho-sate, water, fltrd 0.7u GF ug/L (62722) <0.1 <0.1 <0.1 <0.1 <0.1	Hexa-zinone, water, fltrd, ug/L (04025) <0.013 <0.013 <0.013 <0.013 <0.013	dione, water, fltrd, ug/L (61593) <1 <1 <1 <1 <1 <1 <1	phos, water, fltrd, ug/L (61594) <0.003 <0.003 <0.003 <0.003 <0.003	water, fltrd, ug/L (39341) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18 MAR 11 APR 01 15 MAY 06 21	nil sulfone water, fltrd, ug/L (62168) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	nil, water, fltrd, ug/L (62166) <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007	Flufenacet ESA, water, fltrd, ug/L (61952) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Flufe-nacet OA, water, fltm, ug/L (62483) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Flume-tralin, water, fltrd, ug/L (61592) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Fonofos oxon, water, fltrd, ug/L (61649) <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002	Fonofos water, fltrd, ug/L (04095) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	Glufo-sinate, water, fltrd 0.7u GF ug/L (62721) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	Glyphosate, water, fltrd 0.7u GF ug/L (62722) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	Hexa-zinone, water, flttd, ug/L (04025) <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013	dione, water, fltrd, ug/L (61593) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	phos, water, fltrd, ug/L (61594) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	water, fltrd, ug/L (39341) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18 MAR 11 APR 01 15 MAY 06 21 JUN 04	nil sulfone water, fltrd, ug/L (62168) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	nil, water, fltrd, ug/L (62166) <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 E0.011	Flufenacet ESA, water, fltrd, ug/L (61952) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Flufe- nacet OA, water, fltrd, ug/L (62483) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Flumetralin, water, fltrd, ug/L (61592) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Fonofos oxon, water, fltrd, ug/L (61649) <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002	Fonofos water, fltrd, ug/L (04095) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	Glufo- sinate, water, fltrd 0.7u GF ug/L (62721) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	Glyphosate, water, fltrd 0.7u GF ug/L (62722) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 0.1 <0.1 <	Hexa-zinone, water, fltrd, ug/L (04025) <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013	dione, water, fltrd, ug/L (61593) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	phos, water, fltrd, ug/L (61594) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	water, fltrd, ug/L (39341) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18 MAR 11 APR 01 15 MAY 06 21 JUN 04 24 JUL 09 22	nil sulfone water, fltrd, ug/L (62168) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	nil, water, fltrd, ug/L (62166) <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007	Flufenacet ESA, water, fltrd, ug/L (61952) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Flufe- nacet OA, water, fltrd, ug/L (62483) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Flumetralin, water, fltrd, ug/L (61592) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Fonofos oxon, water, fltrd, ug/L (61649) <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002	Fonofos water, fltrd, ug/L (04095) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	Glufo- sinate, water, fltrd 0.7u GF ug/L (62721) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	Glyphosate, water, fltrd 0.7u GF ug/L (62722) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	Hexa-zinone, water, fltrd, ug/L (04025) <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013	dione, water, fltrd, ug/L (61593) <1	phos, water, fltrd, ug/L (61594) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	water, fltrd, ug/L (39341) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18 MAR 11 APR 01 15 MAY 06 21 JUN 04 JUN 04 JUL 09	nil sulfone water, fltrd, ug/L (62168) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	nil, water, fltrd, ug/L (62166) <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007	Flufenacet ESA, water, fltrd, ug/L (61952) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Flufe- nacet OA, water, fltrd, ug/L (62483) <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Flume-tralin, water, fltrd, ug/L (61592) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Fonofos oxon, water, fltrd, ug/L (61649) <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002	Fonofos water, fltrd, ug/L (04095) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	Glufo- sinate, water, fltrd 0.7u GF ug/L (62721) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	Glyphosate, water, fltrd 0.7u GF ug/L (62722) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	Hexa-zinone, water, fltrd, ug/L (04025) <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013 <0.013	dione, water, fltrd, ug/L (61593) <1	phos, water, fltrd, ug/L (61594) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	water, fltrd, ug/L (39341) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004

303

394340085524601 SUGAR CREEK AT CO. RD. 400S AT NEW PALESTINE, IN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Linuron water fltrd 0.7u GF ug/L (82666)	Mala- oxon, water, fltrd, ug/L (61652)	Malathion, water, fltrd, ug/L (39532)	Meta- laxyl, water, fltrd, ug/L (61596)	Methi- althion water, fltrd, ug/L (61598)	c-Permethric acid methyl ester, wat flt ug/L (79842)	Methyl para- oxon, water, fltrd, ug/L (61664)	Methyl para- thion, water, fltrd 0.7u GF ug/L (82667)	t-Permethric acid methyl ester, wat flt ug/L (79843)	Metola- chlor ESA, water, fltrd 0.7u GF ug/L (61043)	Metola- chlor OA, water, fltrd 0.7u GF ug/L (61044)	Metola- chlor, water, fltrd, ug/L (39415)	Metri- buzin, water, fltrd, ug/L (82630)
OCT 09	< 0.035	< 0.008	< 0.027	< 0.005	< 0.006	< 0.04	< 0.03	< 0.006	< 0.03	0.15	0.09	0.025	< 0.006
NOV 05 25	<0.035 <0.035	<0.008 <0.008	<0.027 <0.027	<0.005 <0.005	<0.006 <0.006	<0.04 <0.04	<0.03 <0.03	<0.006 <0.006	<0.03 <0.03	0.13 0.51	0.06 0.34	<0.013 0.029	<0.006 0.006
DEC 16	< 0.035	<0.008	<0.027	< 0.005	< 0.006	<0.04	<0.03	< 0.006	<0.03	0.18	0.09	E0.009	<0.006
JAN 16	< 0.035	< 0.008	< 0.027	< 0.005	< 0.006	< 0.04	< 0.03	< 0.006	< 0.03	0.35	0.17	0.019	0.007
FEB 18	< 0.035	< 0.008	< 0.027	< 0.005	< 0.006	< 0.04	< 0.03	< 0.006	< 0.03	0.20	0.07	E0.009	< 0.006
MAR 11 APR	< 0.035	< 0.008	< 0.027	< 0.005	< 0.006	< 0.04	< 0.03	< 0.006	< 0.03	0.52	0.24	0.051	0.020
01 15 MAY	<0.035 <0.035	<0.008 <0.008	<0.027 <0.027	<0.005 <0.005	<0.006 <0.006	<0.04 <0.04	<0.03 <0.03	<0.006 <0.006	<0.03 <0.03	0.51 0.35	0.21 0.08	0.025 E0.011	0.007 <0.006
06 21 JUN	<0.035 <0.035	<0.008 <0.008	<0.027 <0.027	<0.005 <0.005	<0.006 <0.006	<0.04 <0.04	<0.03 <0.03	<0.006 <0.006	<0.03 <0.03	0.78 0.65	0.43 0.24	1.26 0.327	0.045 0.007
04 24 JUL	<0.035 <0.035	<0.008 <0.008	<0.027 E0.002	<0.005 <0.005	<0.006 <0.006	<0.04 <0.04	<0.03 <0.03	<0.006 <0.006	<0.03 <0.03	0.30 0.59	0.10 0.24	0.539 0.191	0.023 <0.006
09 22 AUG	<0.035 <0.035	<0.008 <0.008	E0.005 <0.027	<0.005 <0.005	<0.006 <0.006	<0.04 <0.04	<0.03 <0.03	<0.006 <0.006	<0.03 <0.03	1.39 0.94	1.02 0.59	1.21 0.542	0.048 0.051
04 19	<0.035 <0.035	<0.008 <0.008	<0.027 <0.027	<0.005 <0.005	<0.006 <0.006	<0.04 <0.04	<0.03 <0.03	<0.006 <0.006	<0.03 <0.03	0.44 0.35	0.18 0.12	$0.061 \\ 0.032$	<0.006 <0.006
SEP 03	< 0.035	< 0.008	< 0.027	< 0.005	< 0.006	< 0.04	< 0.03	< 0.006	< 0.03	0.64	0.38	0.211	0.018
	Moli- nate, water,	Myclo- butanil	Naprop- amide,	O-Et-O- Me-S-Pr -phos-	Oxy- fluor- fen,	p,p-'	Para-	Para-	Peb- ulate,	Pendi- meth- alin,	Phorate oxon,	Phorate water	Phosmet oxon,
Date		Myclo- butanil water, fltrd, ug/L (61599)	Naprop-	O-Et-O- Me-S-Pr	Oxy-				Peb-	Pendi- meth-	Phorate oxon, water, fltrd, ug/L (61666)	Phorate water fltrd 0.7u GF ug/L (82664)	Phosmet oxon, water, fltrd, ug/L (61668)
OCT 09	nate, water, fltrd 0.7u GF ug/L	butanil water, fltrd, ug/L	Napropamide, water, fltrd 0.7u GF ug/L	O-Et-O- Me-S-Pr -phos- phoro- thioate wat flt ug/L	Oxy- fluor- fen, water, fltrd, ug/L	p,p-' DDE, water, fltrd, ug/L	Para- oxon, water, fltrd, ug/L	Para- thion, water, fltrd, ug/L	Peb- ulate, water, fltrd 0.7u GF ug/L	Pendi- meth- alin, water, fltrd 0.7u GF ug/L	oxon, water, fltrd, ug/L	water fltrd 0.7u GF ug/L	oxon, water, fltrd, ug/L
OCT 09 NOV 05 25	nate, water, fltrd 0.7u GF ug/L (82671)	butanil water, fltrd, ug/L (61599)	Napropamide, water, fltrd 0.7u GF ug/L (82684)	O-Et-O-Me-S-Pr -phos- phoro- thioate wat flt ug/L (61660)	Oxy- fluor- fen, water, fltrd, ug/L (61600)	p,p-' DDE, water, fltrd, ug/L (34653)	Para- oxon, water, fltrd, ug/L (61663)	Parathion, water, fltrd, ug/L (39542)	Peb- ulate, water, fltrd 0.7u GF ug/L (82669)	Pendimethalin, water, fltrd 0.7u GF ug/L (82683)	oxon, water, fltrd, ug/L (61666)	water fltrd 0.7u GF ug/L (82664)	oxon, water, fltrd, ug/L (61668)
OCT 09 NOV 05 25 DEC 16	nate, water, fltrd 0.7u GF ug/L (82671) <0.002	butanil water, fltrd, ug/L (61599) <0.008	Napropamide, water, fltrd 0.7u GF ug/L (82684) <0.007	O-Et-O-Me-S-Pr -phos-phoro-thioate wat flt ug/L (61660) <0.008	Oxy- fluor- fen, water, fltrd, ug/L (61600) <0.007	p,p-' DDE, water, fltrd, ug/L (34653) <0.003	Para- oxon, water, fltrd, ug/L (61663) <0.008	Parathion, water, fltrd, ug/L (39542)	Peb- ulate, water, fltrd 0.7u GF ug/L (82669) <0.004	Pendimethalin, water, fltrd 0.7u GF ug/L (82683)	oxon, water, fltrd, ug/L (61666) <0.10	water fltrd 0.7u GF ug/L (82664) <0.011	oxon, water, fltrd, ug/L (61668) <0.06
OCT 09 NOV 05 25 DEC 16 JAN 16	nate, water, filtrd 0.7u GF ug/L (82671) <0.002 <0.002	butanil water, fltrd, ug/L (61599) <0.008 <0.008	Napropamide, water, fltrd 0.7u GF ug/L (82684) <0.007 <0.007	O-Et-O-Me-S-Pr -phos-phoro- thioate wat flt ug/L (61660) <0.008 <0.008	Oxy- fluor- fen, water, fltrd, ug/L (61600) <0.007 <0.007	p,p-' DDE, water, fltrd, ug/L (34653) <0.003 <0.003	Para- oxon, water, fltrd, ug/L (61663) <0.008 <0.008	Parathion, water, fltrd, ug/L (39542) <0.010 <0.010	Peb- ulate, water, fltrd 0.7u GF ug/L (82669) <0.004 <0.004	Pendimethalin, water, fltrd 0.7u GF ug/L (82683) <0.022 <0.022	oxon, water, fltrd, ug/L (61666) <0.10 <0.10	water fltrd 0.7u GF ug/L (82664) <0.011 <0.011	oxon, water, fltrd, ug/L (61668) <0.06 <0.06
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18	nate, water, fltrd 0.7u GF ug/L (82671) <0.002 <0.002 <0.002 <0.002	butanil water, fltrd, ug/L (61599) <0.008 <0.008 <0.008	Napropamide, water, fltrd 0.7u GF ug/L (82684) <0.007 <0.007 <0.007	O-Et-O-Me-S-Pr -phos-phoro- thioate wat flt ug/L (61660) <0.008 <0.008 <0.008	Oxy- fluor- fen, water, fltrd, ug/L (61600) <0.007 <0.007 <0.007	p,p-' DDE, water, fltrd, ug/L (34653) <0.003 <0.003 <0.003	Para- oxon, water, fltrd, ug/L (61663) <0.008 <0.008 <0.008	Parathion, water, fltrd, ug/L (39542) <0.010 <0.010 <0.010	Peb- ulate, water, fltrd 0.7u GF ug/L (82669) <0.004 <0.004 <0.004	Pendimethalin, water, fltrd 0.7u GF ug/L (82683) <0.022 <0.022 <0.022	oxon, water, fltrd, ug/L (61666) <0.10 <0.10 <0.10	water fltrd 0.7u GF ug/L (82664) <0.011 <0.011 <0.011	oxon, water, fltrd, ug/L (61668) <0.06 <0.06 <0.06
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18 MAR 11	nate, water, fltrd 0.7u GF ug/L (82671) <0.002 <0.002 <0.002 <0.002 <0.002	butanil water, fltrd, ug/L (61599) <0.008 <0.008 <0.008 <0.008	Napropamide, water, fltrd 0.7u GF ug/L (82684) <0.007 <0.007 <0.007 <0.007 <0.007	O-Et-O-Me-S-Pr -phos-phoro- thioate wat flt ug/L (61660) <0.008 <0.008 <0.008 <0.008	Oxy- fluor- fen, water, fltrd, ug/L (61600) <0.007 <0.007 <0.007 <0.007	p,p-' DDE, water, fltrd, ug/L (34653) <0.003 <0.003 <0.003 <0.003	Para- oxon, water, fltrd, ug/L (61663) <0.008 <0.008 <0.008 <0.008	Parathion, water, fltrd, ug/L (39542) <0.010 <0.010 <0.010 <0.010 <0.010	Peb- ulate, water, fltrd 0.7u GF ug/L (82669) <0.004 <0.004 <0.004 <0.004	Pendimethalin, water, fltrd 0.7u GF ug/L (82683) <0.022 <0.022 <0.022 <0.022 <0.022	oxon, water, fltrd, ug/L (61666) <0.10 <0.10 <0.10 <0.10	water fltrd 0.7u GF ug/L (82664) <0.011 <0.011 <0.011 <0.011 <0.011	oxon, water, fltrd, ug/L (61668) <0.06 <0.06 <0.06 <0.06
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18 MAR 11 APR 01	nate, water, fltrd 0.7u GF ug/L (82671) <0.002 <0.002 <0.002 <0.002 <0.002	butanil water, fltrd, ug/L (61599) <0.008 <0.008 <0.008 <0.008 <0.008	Napropamide, water, fltrd 0.7u GF ug/L (82684) <0.007 <0.007 <0.007 <0.007 <0.007 <0.007	O-Et-O-Me-S-Pr -phos-phoro- thioate wat flt ug/L (61660) <0.008 <0.008 <0.008 <0.008 <0.008	Oxy- fluor- fen, water, flurd, ug/L (61600) <0.007 <0.007 <0.007 <0.007 <0.007	p,p-' DDE, water, fltrd, ug/L (34653) <0.003 <0.003 <0.003 <0.003 <0.003	Para- oxon, water, fltrd, ug/L (61663) <0.008 <0.008 <0.008 <0.008 <0.008 <0.008	Parathion, water, fltrd, ug/L (39542) <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	Peb- ulate, water, fltrd 0.7u GF ug/L (82669) <0.004 <0.004 <0.004 <0.004 <0.004	Pendimethalin, water, fltrd 0.7u GF ug/L (82683) <0.022 <0.022 <0.022 <0.022 <0.022 <0.022	oxon, water, fltrd, ug/L (61666) <0.10 <0.10 <0.10 <0.10 <0.10 <0.10	water fltrd 0.7u GF ug/L (82664) <0.011 <0.011 <0.011 <0.011 <0.011 <0.011	oxon, water, fltrd, ug/L (61668) <0.06 <0.06 <0.06 <0.06 <0.06
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18 MAR 11 APR 01 15 MAY 06 21	nate, water, fltrd 0.7u GF ug/L (82671) <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002	butanil water, fltrd, ug/L (61599) <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008	Napropamide, water, fltrd 0.7u GF ug/L (82684) <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007	O-Et-O-Me-S-Pr -phos-phoro- thioate wat flt ug/L (61660) <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008	Oxy- fluor- fen, water, fltrd, ug/L (61600) <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007	p,p-' DDE, water, fltrd, ug/L (34653) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	Para- oxon, water, fltrd, ug/L (61663) <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008	Parathion, water, fltrd, ug/L (39542) <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	Peb- ulate, water, fltrd 0.7u GF ug/L (82669) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Pendimethalin, water, fltrd 0.7u GF ug/L (82683) <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022	oxon, water, fltrd, ug/L (61666) <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10	water fltrd 0.7u GF ug/L (82664) <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011	oxon, water, fltrd, ug/L (61668) <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18 MAR 11 APR 01 15 MAY 06 21 JUN 04 24	nate, water, fltrd 0.7u GF ug/L (82671) <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002	butanil water, fltrd, ug/L (61599) <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008	Napropamide, water, fltrd 0.7u GF ug/L (82684) <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007	O-Et-O-Me-S-Pr -phos-phoro- thioate wat flt ug/L (61660) <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008	Oxy- fluor- fen, water, fltrd, ug/L (61600) <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007	p,p-' DDE, water, fltrd, ug/L (34653) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	Para- oxon, water, fltrd, ug/L (61663) <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008	Parathion, water, fltrd, ug/L (39542) <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	Peb- ulate, water, fltrd 0.7u GF ug/L (82669) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Pendimethalin, water, fltrd 0.7u GF ug/L (82683) <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022	oxon, water, fltrd, ug/L (61666) <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10	water fltrd 0.7u GF ug/L (82664) <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011	oxon, water, fltrd, ug/L (61668) <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18 MAR 11 APR 01 15 MAY 06 21 JUN 04 24 JUL 09 22	nate, water, fltrd 0.7u GF ug/L (82671) <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002	butanil water, fltrd, ug/L (61599) <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008	Napropamide, water, fltrd 0.7u GF ug/L (82684) <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007	O-Et-O-Me-S-Pr -phos-phoro- thioate wat flt ug/L (61660) <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008	Oxy- fluor- fen, water, flurd, ug/L (61600) <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007	p,p-' DDE, water, fltrd, ug/L (34653) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	Para- oxon, water, fltrd, ug/L (61663) <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008	Parathion, water, fltrd, ug/L (39542) <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	Peb- ulate, water, fltrd 0.7u GF ug/L (82669) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Pendimethalin, water, fltrd 0.7u GF ug/L (82683) <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022	oxon, water, fltrd, ug/L (61666) <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10	water fltrd 0.7u GF ug/L (82664) <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011	oxon, water, fltrd, ug/L (61668) <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18 MAR 11 APR 01 15 MAY 06 21 JUN 04 24 JUL 09	nate, water, fltrd 0.7u GF ug/L (82671) <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002	butanil water, fltrd, ug/L (61599) <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008	Napropamide, water, fltrd 0.7u GF ug/L (82684) <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007	O-Et-O-Me-S-Pr -phos-phoro- thioate wat flt ug/L (61660) <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008	Oxy- fluor- fen, water, fltrd, ug/L (61600) <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007 <0.007	p,p-' DDE, water, fltrd, ug/L (34653) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	Para- oxon, water, fltrd, ug/L (61663) <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008	Parathion, water, fltrd, ug/L (39542) <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	Peb- ulate, water, fltrd 0.7u GF ug/L (82669) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Pendimethalin, water, fltrd 0.7u GF ug/L (82683) <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022	oxon, water, fltrd, ug/L (61666) <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10	water fltrd 0.7u GF ug/L (82664) <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011	oxon, water, fltrd, ug/L (61668) <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06 <0.06

394340085524601 SUGAR CREEK AT CO. RD. 400S AT NEW PALESTINE, IN—Continued

Date	Phosmet water, fltrd, ug/L (61601)	Phoste- bupirim water, fltrd, ug/L (61602)	Profenofos water, fltrd, ug/L (61603)	Prometon, water, fltrd, ug/L (04037)	Prometryn, water, fltrd, ug/L (04036)	Pronamide, water, fltrd 0.7u GF ug/L (82676)	Propa- chlor, water, fltrd, ug/L (04024)	Propanil, water, fltrd 0.7u GF ug/L (82679)	Propargite, water, fltrd 0.7u GF ug/L (82685)	Propet- amphos, water, fltrd, ug/L (61604)	Sima- zine, water, fltrd, ug/L (04035)	Sulfo- tepp, water, fltrd, ug/L (61605)	Sulprofos, water, fltrd, ug/L (38716)
OCT 09 NOV	< 0.008	< 0.005	< 0.006	0.02	< 0.005	< 0.004	< 0.010	< 0.011	< 0.02	< 0.004	E0.005	< 0.003	< 0.02
05 25	<0.008 <0.008	<0.005 <0.005	<0.006 <0.006	<0.01 E0.01	<0.005 <0.005	<0.004 <0.004	<0.010 <0.010	<0.011 <0.011	<0.02 <0.02	<0.004 <0.004	<0.005 0.132	<0.003 <0.003	<0.02 <0.02
DEC 16	< 0.008	< 0.005	< 0.006	0.06	< 0.005	< 0.004	< 0.010	< 0.011	< 0.02	< 0.004	0.023	< 0.003	< 0.02
JAN 16	< 0.008	< 0.005	< 0.006	E0.01	< 0.005	< 0.004	< 0.010	< 0.011	< 0.02	< 0.004	0.029	< 0.003	< 0.02
FEB 18	< 0.008	< 0.005	< 0.006	M	< 0.005	< 0.004	< 0.010	< 0.011	< 0.02	< 0.004	0.017	< 0.003	< 0.02
MAR 11	< 0.008	< 0.005	< 0.006	E0.01	< 0.005	< 0.004	< 0.010	< 0.011	< 0.02	< 0.004	0.131	< 0.003	< 0.02
APR 01 15 MAY	<0.008 <0.008	<0.005 <0.005	<0.006 <0.006	<0.01 <0.01	<0.005 <0.005	<0.004 <0.004	<0.010 <0.010	<0.011 <0.011	<0.02 <0.02	<0.004 <0.004	0.046 0.016	<0.003 <0.003	<0.02 <0.02
06 21 JUN	<0.008 <0.008	0.019 <0.005	<0.006 <0.006	0.03 E0.01	<0.005 <0.005	<0.004 <0.004	<0.010 <0.010	<0.011 <0.011	<0.02 <0.02	<0.004 <0.004	0.346 0.069	<0.003 <0.003	<0.02 <0.02
04 24 JUL	<0.008 <0.008	<0.005 <0.005	<0.006 <0.006	0.02 E0.01	<0.005 <0.005	<0.004 <0.004	<0.010 <0.010	<0.011 <0.011	<0.02 <0.02	<0.004 <0.004	0.031 0.019	<0.003 <0.003	<0.02 <0.02
09 22 AUG	<0.008 <0.008	0.010 <0.005	<0.006 <0.006	0.07 0.02	<0.005 <0.005	<0.004 <0.004	<0.010 <0.010	<0.011 <0.011	<0.02 <0.02	<0.004 <0.004	0.051 0.014	<0.003 <0.003	<0.02 <0.02
04 19 SEP	<0.008 <0.008	<0.005 <0.005	<0.006 <0.006	E0.01 E0.01	<0.005 <0.005	<0.004 <0.004	<0.010 <0.010	<0.011 <0.011	<0.02 <0.02	<0.004 <0.004	0.008 0.006	<0.003 <0.003	<0.02 <0.02
03	< 0.008	< 0.005	< 0.006	0.02	< 0.005	< 0.004	< 0.010	< 0.011	< 0.02	< 0.004	0.007	< 0.003	< 0.02
Date	Tebu- pirim- phos oxon, water, fltrd, ug/L	Tebu- thiuron water fltrd 0.7u GF ug/L	Teflu- thrin metab- olite R119365 wat flt ug/L	Teflu- thrin metab- olite R152913 wat flt ug/L	Teflu- thrin, water, fltrd, ug/L	Teme- phos, water, fltrd, ug/L	Terba- cil, water, fltrd 0.7u GF ug/L	Ter- bufos oxon sulfone water, fltrd, ug/L	Terbu- fos, water, fltrd 0.7u GF ug/L	Ter- buthyl- azine, water, fltrd, ug/L	Thio- bencarb water fltrd 0.7u GF ug/L	trans- Propi- cona- zole, water, fltrd, ug/L	Tri- allate, water, fltrd 0.7u GF ug/L
OCT	pirim- phos oxon, water, fltrd, ug/L (61669)	thiuron water fltrd 0.7u GF ug/L (82670)	Teflu- thrin metab- olite R119365 wat flt ug/L (61671)	Teflu- thrin metab- olite R152913 wat flt ug/L (61672)	Tefluthrin, water, fltrd, ug/L (61606)	Temephos, water, fltrd, ug/L (61607)	Terbacil, water, fltrd 0.7u GF ug/L (82665)	Ter- bufos oxon sulfone water, fltrd, ug/L (61674)	Terbu- fos, water, fltrd 0.7u GF ug/L (82675)	Ter- buthyl- azine, water, fltrd, ug/L (04022)	bencarb water fltrd 0.7u GF ug/L (82681)	Propicona- zole, water, fltrd, ug/L (79847)	allate, water, fltrd 0.7u GF ug/L (82678)
OCT 09 NOV	pirim- phos oxon, water, fltrd, ug/L (61669)	thiuron water fltrd 0.7u GF ug/L (82670) <0.02	Tefluthrin metabolite R119365 wat flt ug/L (61671)	Tefluthrin metabolite R152913 wat flt ug/L (61672)	Tefluthrin, water, fltrd, ug/L (61606)	Temephos, water, fltrd, ug/L (61607)	Terbacil, water, fltrd 0.7u GF ug/L (82665)	Ter- bufos oxon sulfone water, fltrd, ug/L (61674)	Terbu- fos, water, fltrd 0.7u GF ug/L (82675)	Ter-buthyl-azine, water, fltrd, ug/L (04022)	bencarb water fltrd 0.7u GF ug/L (82681) <0.005	Propiconazole, water, fltrd, ug/L (79847)	allate, water, fltrd 0.7u GF ug/L (82678) <0.002
OCT 09 NOV 05 25	pirim- phos oxon, water, fltrd, ug/L (61669)	thiuron water fltrd 0.7u GF ug/L (82670)	Teflu- thrin metab- olite R119365 wat flt ug/L (61671)	Teflu- thrin metab- olite R152913 wat flt ug/L (61672)	Tefluthrin, water, fltrd, ug/L (61606)	Temephos, water, fltrd, ug/L (61607)	Terbacil, water, fltrd 0.7u GF ug/L (82665)	Ter- bufos oxon sulfone water, fltrd, ug/L (61674)	Terbu- fos, water, fltrd 0.7u GF ug/L (82675)	Ter- buthyl- azine, water, fltrd, ug/L (04022)	bencarb water fltrd 0.7u GF ug/L (82681)	Propicona- zole, water, fltrd, ug/L (79847)	allate, water, fltrd 0.7u GF ug/L (82678)
OCT 09 NOV 05 25 DEC 16	pirim- phos oxon, water, fltrd, ug/L (61669) <0.006	thiuron water fltrd 0.7u GF ug/L (82670) <0.02	Tefluthrin metabolite R119365 wat flt ug/L (61671)	Tefluthrin metabolite R152913 wat flt ug/L (61672)	Tefluthrin, water, fltrd, ug/L (61606) <0.008	Temephos, water, fltrd, ug/L (61607)	Terba- cil, water, fltrd 0.7u GF ug/L (82665) <0.034	Terbufos oxon sulfone water, fltrd, ug/L (61674)	Terbu- fos, water, fltrd 0.7u GF ug/L (82675) <0.02	Ter-buthyl-azine, water, fltrd, ug/L (04022)	bencarb water fltrd 0.7u GF ug/L (82681) <0.005	Propiconazole, water, fltrd, ug/L (79847)	allate, water, fltrd 0.7u GF ug/L (82678) <0.002
OCT 09 NOV 05 25 DEC 16 JAN 16	pirim- phos oxon, water, fltrd, ug/L (61669) <0.006 <0.006	thiuron water fltrd 0.7u GF ug/L (82670) <0.02 <0.02	Tefluthrin metabolite R119365 wat flt ug/L (61671) <0.02 <0.02	Tefluthrin metabolite R152913 wat flt ug/L (61672) <0.01 <0.01	Tefluthrin, water, fltrd, ug/L (61606) <0.008 <0.008	Teme-phos, water, fltrd, ug/L (61607) <0.3 <0.3 <0.3	Terbacil, water, fltrd 0.7u GF ug/L (82665) <0.034 <0.034	Terbufos oxon sulfone water, fltrd, ug/L (61674) <0.07 <0.07	Terbu- fos, water, fltrd 0.7u GF ug/L (82675) <0.02 <0.02	Terbuthylazine, water, fltrd, ug/L (04022) <0.01 <0.01	bencarb water fltrd 0.7u GF ug/L (82681) <0.005 <0.005	Propi- cona- zole, water, fltrd, ug/L (79847) <0.01 <0.01	allate, water, fltrd 0.7u GF ug/L (82678) <0.002 <0.002
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18	pirim- phos oxon, water, fltrd, ug/L (61669) <0.006 <0.006 <0.006	thiuron water fltrd 0.7u GF ug/L (82670) <0.02 <0.02 <0.02	Tefluthrin metabolite R119365 wat flt ug/L (61671) <0.02 <0.02 <0.02 <0.02	Tefluthrin metabolite R152913 wat flt ug/L (61672) <0.01 <0.01 <0.01	Tefluthrin, water, fltrd, ug/L (61606) <0.008 <0.008 <0.008	Teme-phos, water, fltrd, ug/L (61607) <0.3 <0.3 <0.3 <0.3	Terba- cil, water, fltrd 0.7u GF ug/L (82665) <0.034 <0.034 <0.034	Terbufos oxon sulfone water, fltrd, ug/L (61674) <0.07 <0.07 <0.07	Terbu- fos, water, fltrd 0.7u GF ug/L (82675) <0.02 <0.02 <0.02 <0.02	Ter-buthyl-azine, water, fltrd, ug/L (04022) <0.01 <0.01 <0.01	bencarb water fltrd 0.7u GF ug/L (82681) <0.005 <0.005 <0.005	Propicona- zole, water, fltrd, ug/L (79847) <0.01 <0.01 <0.01 <0.01	allate, water, fltrd 0.7u GF ug/L (82678) <0.002 <0.002 <0.002 <0.002
OCT 09 NOV 05 25 DEC 16 JAN 16 FEB 18 MAR 11	pirim-phos oxon, water, fltrd, ug/L (61669) <0.006 <0.006 <0.006 <0.006	thiuron water filtrd 0.7u GF ug/L (82670) <0.02 <0.02 <0.02 <0.02 <0.02	Tefluthrin metabolite R119365 wat flt ug/L (61671) <0.02 <0.02 <0.02 <0.02 <0.02	Tefluthrin metabolite R152913 wat flt ug/L (61672) <0.01 <0.01 <0.01 <0.01 <0.01	Tefluthrin, water, fltrd, ug/L (61606) <0.008 <0.008 <0.008 <0.008	Teme-phos, water, fltrd, ug/L (61607) <0.3 <0.3 <0.3 <0.3	Terbacil, water, fltrd 0.7u GF ug/L (82665) <0.034 <0.034 <0.034 <0.034	Terbufos oxon sulfone water, fltrd, ug/L (61674) <0.07 <0.07 <0.07 <0.07	Terbu- fos, water, fltrd 0.7u GF ug/L (82675) <0.02 <0.02 <0.02 <0.02 <0.02	Ter-buthyl-azine, water, fltrd, ug/L (04022) <0.01 <0.01 <0.01 <0.01 <0.01	bencarb water fltrd 0.7u GF ug/L (82681) <0.005 <0.005 <0.005 <0.005 <0.005	Propi- cona- zole, water, fltrd, ug/L (79847) <0.01 <0.01 <0.01 <0.01	allate, water, fltrd 0.7u GF ug/L (82678) <0.002 <0.002 <0.002 <0.002 <0.002
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<0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034	Terbufos oxon sulfone water, fltrd, ug/L (61674) <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07 <0.07	Terbufos, water, fltrd 0.7u GF ug/L (82675) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 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<0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002

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$394340085524601 \; SUGAR \; CREEK \; AT \; CO. \; RD. \; 400S \; AT \; NEW \; PALESTINE, IN—Continued$

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Tribu- phos, water, fltrd, ug/L (61610)	Tri- flur- alin, water, fltrd 0.7u GF ug/L (82661)	z-Di- metho- morph, water, fltrd, ug/L (79845)	Di- chlor- vos, water fltrd, ug/L (38775)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
OCT						
09	< 0.004	< 0.009	< 0.05	< 0.01	27	12
NOV						
05	< 0.004	< 0.009	< 0.05	< 0.01	31	9
25	< 0.004	< 0.009	< 0.05	< 0.01	22	28
DEC	-0.004	-0.000	.0.05	.0.01	25	22
16 JAN	< 0.004	< 0.009	< 0.05	< 0.01	35	23
16	< 0.004	< 0.009	< 0.05	< 0.01	57	8
FEB	VO.00 +	(0.00)	VO.03	VO.01	31	Ü
18	< 0.004	< 0.009	< 0.05	< 0.01	78	3
MAR						
11	< 0.004	< 0.009	< 0.05	< 0.01	95	32
APR						
01	< 0.004	< 0.009	< 0.05	< 0.01	89	31
15	< 0.004	< 0.009	< 0.05	< 0.01	89	9
MAY 06	< 0.004	< 0.009	< 0.05	< 0.01	95	68
21	< 0.004	< 0.009	< 0.05	< 0.01	93 77	75
JUN	<0.004	<0.009	<0.03	<0.01	//	13
04	< 0.004	< 0.009	< 0.05	< 0.01	76	29
24	< 0.004	< 0.009	< 0.05	< 0.01	77	35
JUL						
09	< 0.004	< 0.009	< 0.05	< 0.01	31	110
22	< 0.004	< 0.009	< 0.05	< 0.01	92	38
AUG	0.004	0.000	0.05	0.01	0.1	1.5
04	< 0.004	< 0.009	< 0.05	< 0.01	81	15
19 SEP	< 0.004	< 0.009	< 0.05	< 0.01	93	6
03	< 0.004	< 0.009	< 0.05	< 0.01		26
05	<0.004	₹0.009	₹0.05	<0.01		20

03361850 BUCK CREEK AT ACTON, IN

 $LOCATION.--Lat\ 39^{\circ}39^{\circ}25^{\circ},\ long\ 85^{\circ}57^{\circ}27^{\circ},\ in\ NW^{1}/_{4}SE^{1}/_{4}\ sec.15,\ T.14\ N.,\ R.5\ E.,\ Marion\ County,\ Hydrologic\ Unit\ 05120204,\ (ACTON,\ IN\ quadrangle),\ on\ left\ bank,\ 30\ ft\ downstream\ from\ McGregor\ Road\ bridge,\ 0.5\ mi\ east\ of\ Acton,\ and\ 4.1\ mi\ upstream\ from\ mouth.$

DRAINAGE AREA.--78.8 mi².

PERIOD OF RECORD.--October 1967 to current year.

REVISED RECORDS.--WDR IN-79-1: 1969 (M).

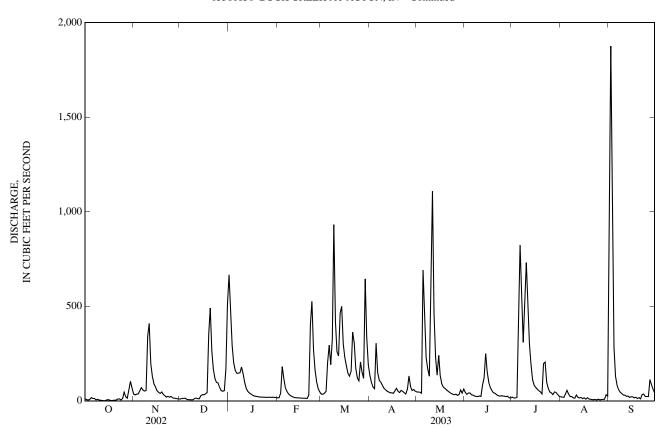
GAGE.--Water-stage recorder. Datum of gage is 757.00 ft above National Geodetic Vertical Datum of 1929.

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 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	11 5.8 4.7 6.8 17	36 31 35 36 52	9.2 12 13 14 7.5	666 492 292 201 160	e16 e16 e40 181 e120	e35 e35 e40 e50 203	136 98 74 64 304	47 46 46 41 691	45 34 41 42 32	20 15 15 18 490	21 20 18 36 56	1,120 1,880 665 282 130
6 7 8 9 10	12 13 5.1 7.7 4.4	70 57 52 54 341	6.2 5.8 5.6 5.3	145 146 149 179 143	e70 e50 e37 e29 e24	294 191 327 932 420	150 108 99 82 67	422 228 168 130 512	30 25 23 22 25	823 606 309 493 731	36 22 23 16 14	81 59 46 39 31
11 12 13 14 15	3.2 1.9 0.82 0.70 5.5	409 196 131 90 74	14 11 11 27 33	98 e66 e50 e42 e36	e20 e17 e16 e16 e15	260 237 464 500 299	59 51 47 42 43	1,110 468 228 136 240	23 84 121 250 154	524 301 190 112 82	30 18 15 18 11	30 24 25 18 21
16 17 18 19 20	5.8 2.4 1.3 2.5 3.2	54 45 39 47 34	32 37 44 351 490	e30 e26 e24 e23 e21	e15 e14 e14 e13 e13	230 185 147 130 156	39 52 66 51 44	132 89 72 66 58	97 71 54 43 40	71 62 53 48 36	15 8.8 16 10 7.8	21 15 19 12 17
21 22 23 24 25	4.2 9.8 9.9 4.7	27 20 24 19 23	262 167 117 98 94	e20 e20 e19 e19 e18	e30 403 526 269 e160	363 306 172 121 105	55 50 42 36 61	51 45 38 35 32	32 27 25 27 25	197 205 97 67 47	6.2 5.8 7.2 4.5 8.4	10 33 36 22 23
26 27 28 29 30 31	46 21 14 60 103 68	15 14 13 10 11	72 54 50 54 171 508	e19 e19 e18 e19 e18 e17	e100 e64 e47 	206 153 118 645 337 190	132 75 55 60 51	35 29 33 58 41 62	24 22 24 16 15	42 33 47 44 34 24	5.2 7.3 7.8 8.5 32 25	23 113 86 60 43
TOTAL MEAN MAX MIN CFSM IN.	468.42 15.1 103 0.70 0.19 0.22	2,059 68.6 409 10 0.87 0.97	2,787.6 89.9 508 5.3 1.14 1.32	3,195 103 666 17 1.31 1.51	2,335 83.4 526 13 1.06 1.10	7,851 253 932 35 3.21 3.71	2,293 76.4 304 36 0.97 1.08	5,389 174 1,110 29 2.21 2.54	1,493 49.8 250 15 0.63 0.70	5,836 188 823 15 2.39 2.76	529.5 17.1 56 4.5 0.22 0.25	4,984 166 1,880 10 2.11 2.35
								R YEAR (W				
MEAN MAX (WY) MIN (WY)	38.7 312 (1987) 2.96 (1998)	93.9 463 (1994) 5.90 (2000)	111 333 (1991) 8.11 (1977)	112 352 (1969) 4.09 (1977)	134 349 (1971) 18.8 (1978)	157 347 (1978) 27.8 (1969)	137 302 (1996) 18.5 (1971)	123 462 (1996) 17.4 (1976)	85.7 478 (1998) 6.04 (1988)	69.3 324 (1969) 5.97 (1991)	35.0 216 (1979) 2.83 (1999)	27.2 166 (2003) 1.24 (1999)
SUMMAI	RY STATIS	STICS	1	FOR 2002 C.	ALENDAR	YEAR	FOR 200	3 WATER Y	/EAR	WATER '	YEARS 19	68 - 2003
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL ANNUAL 10 PERCE	L MEAN T ANNUAL T ANNUAL T DAILY M DAILY M	MEAN IEAN EAN OAY MINIM STAGE (CFSM) (INCHES) EDS	UM	1	May Oct	14	1,88 2,20	0.70 Oct 2.6 Oct 50 Sep	2 t 14 t 12 c 2 c 2 c 2 c 2 c 2 c 2 c 2 c 2 c 2	1. 3,5 7,1.	0.60 C 0.98 S 40 J	2002 1977 ov 14, 1993 Oct 1, 1967 ep 22, 1999 lul 20, 1969 ful 20, 1969
	ENT EXCE				5			9.9			5.8	

e Estimated

03361850 BUCK CREEK AT ACTON, IN-Continued



03362000 YOUNGS CREEK NEAR EDINBURGH, IN

 $LOCATION.--Lat\ 39^{\circ}25'08", long\ 86^{\circ}00'18", in\ SE^{1}_{4}SW^{1}_{4}\,sec.5, T.11\ N., R.5\ E., Johnson\ County, Hydrologic\ Unit\ 05120204, (FRANKLIN, IN\ quadrangle), on\ right\ bank\ at\ downstream\ side\ of\ County\ Road\ 400S\ bridge, 0.5\ mi\ southwest\ of\ Amity, 2.0\ mi\ upstream\ from\ mouth, and\ 5.0\ mi\ northwest\ of\ Edinburgh.$

DRAINAGE AREA.--107 mi².

PERIOD OF RECORD.--October 1942 to current year. Prior to December 1942 monthly discharge only, published in WSP 1305.

REVISED RECORDS.--WSP 1335: 1944. WSP 1909: 1958. WSP 2109: Drainage area.

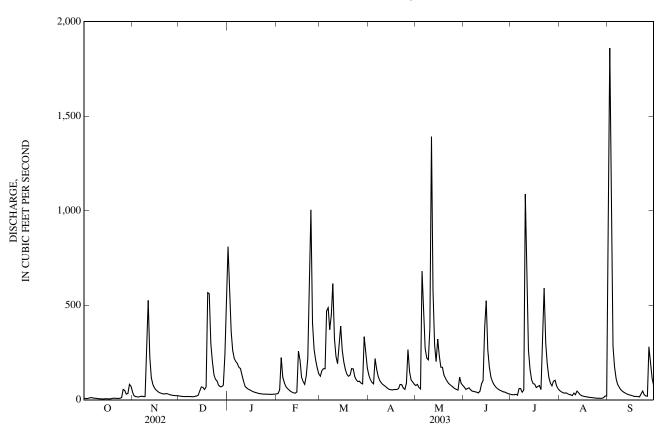
GAGE.--Water-stage recorder. Datum of gage is 670.20 ft above National Geodetic Vertical Datum of 1929. Prior to June 30, 1955, nonrecording gage at same site and datum.

REMARKS.--Records fair except those for March 26 to May 8 and estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	8.4 7.1 6.3 e9.0 e11	e40 e21 e17 e16 e15	20 19 18 17 17	809 623 363 261 218	31 34 52 223 e120	125 154 165 164 470	131 106 92 84 218	75 82 66 58 680	68 55 59 64 53	28 27 27 29 25	49 43 38 35 37	551 1,860 892 285 175
6 7 8 9 10	e12 e9.0 e8.6 e7.5 e6.4	e18 e19 e17 e17 e240	18 18 17 17	202 192 172 164 128	e90 e70 e60 e52 e45	487 371 449 615 325	161 122 102 89 81	500 272 221 212 379	46 45 42 40 36	60 60 40 51 1,090	33 28 26 22 36	112 81 67 54 46
11 12 13 14 15	5.3 4.9 4.6 5.0 e5.9	526 226 117 80 63	18 20 24 48 68	97 e70 e62 e56 e52	e40 e37 e35 e41 257	231 191 292 390 260	74 68 60 55 54	1,390 578 291 202 322	46 85 101 382 524	516 264 162 107 86	27 46 38 27 22	40 35 31 27 26
16 17 18 19 20	e5.5 e5.2 5.1 7.6 8.8	52 45 39 35 32	66 55 69 567 561	e48 e43 e40 e38 e35	209 120 97 82 127	200 160 135 125 131	53 54 55 55 60	235 173 172 131 113	264 174 120 97 80	83 65 71 76 54	19 17 16 15 13	22 20 18 18 17
21 22 23 24 25	e8.0 e7.6 7.4 7.9 e12	31 33 33 29 27	297 204 133 109 100	e33 e32 e31 e30 e30	222 686 1,000 405 265	165 164 122 105 96	81 80 63 55 88	99 86 80 73 65	69 60 55 49 46	250 591 302 190 119	12 11 10 9.2 8.5	16 32 47 27 20
26 27 28 29 30 31	e55 e50 e30 e33 e82 e72	25 23 22 22 22 22	77 69 70 78 239 497	e30 e29 e29 e29 30 30	211 168 137 	99 89 84 334 253 169	266 149 105 94 83	59 55 52 120 87 77	42 41 36 33 30	89 73 98 104 73 58	8.3 8.0 8.2 11 20 20	19 280 197 114 76
TOTAL MEAN MAX MIN CFSM IN.	508.1 16.4 82 4.6 0.15 0.18	1,902 63.4 526 15 0.59 0.66	3,547 114 567 17 1.07 1.23	4,006 129 809 29 1.21 1.39	4,916 176 1,000 31 1.64 1.71	7,120 230 615 84 2.15 2.48	2,838 94.6 266 53 0.88 0.99	7,005 226 1,390 52 2.11 2.44	2,842 94.7 524 30 0.89 0.99	4,868 157 1,090 25 1.47 1.69	713.2 23.0 49 8.0 0.22 0.25	5,205 174 1,860 16 1.62 1.81
STATIST	TICS OF M	ONTHLY M	EAN DATA		ER YEARS			R YEAR (W	VY)			
MEAN MAX (WY) MIN (WY)	31.7 359 (2002) 1.82 (1954)	84.0 593 (1994) 3.91 (1954)	119 470 (1991) 2.90 (1964)	154 837 (1950) 3.13 (1977)	174 441 (1971) 15.1 (1954)	208 498 (1963) 40.9 (1969)	184 516 (1964) 28.3 (1971)	156 606 (2002) 20.7 (1988)	101 463 (1958) 6.73 (1988)	72.8 492 (1979) 2.03 (1944)	29.1 231 (1979) 2.43 (1954)	26.7 228 (1989) 2.36 (1954)
SUMMA	RY STATI	STICS	1	FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER	YEAR	WATER	YEARS 19	944 - 2003
ANNUAI HIGHES' LOWEST HIGHES' LOWEST ANNUAI MAXIMI MAXIMI ANNUAI 10 PERC 50 PERC	T ANNUAI T ANNUAI T DAILY M T DAILY M L SEVEN-I UM PEAK UM PEAK L RUNOFF	. MEAN MEAN IEAN DAY MINIM FLOW STAGE (CFSM) ((INCHES) EEDS EEDS	IUM	1 20 365 52) May 4.6 Sep 4.8 Sep 1.49 0.27	9	2,3	25 60 Se 4.6 Od 5.2 Od 10 Se	p 2 ct 13 ct 12 p 2 p 2	6,2 10,7	0.50 S 0.73 C 700 J	2002 1954 1ay 24, 1968 5ep 29, 1953 Oct 19, 1953 1an 27, 1952 Ian 27, 1952

e Estimated

03362000 YOUNGS CREEK NEAR EDINBURGH, IN—Continued



03362500 SUGAR CREEK NEAR EDINBURGH, IN

LOCATION.--Lat 39°21'39", long 85°59'51", in $SW^1/_4SE^1/_4$ sec.29, T.11 N., R.5 E., Johnson County, Hydrologic Unit 05120204, (EDINBURGH, IN quadrangle), on left bank 50 ft upstream from highway bridge in Camp Atterbury, 1.3 mi upstream from confluence with Blue River, 1.5 mi northwest of Edinburgh, and at mile 1.3.

DRAINAGE AREA.--474 mi².

PERIOD OF RECORD.--October 1942 to current year. Prior to February 1943 monthly discharge only, published in WSP 1305. Prior to October 1977, published as "near Edinburg".

REVISED RECORDS.--WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 646.23 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1952, nonrecording gage on downstream side of old highway bridge, 100 ft downstream at same datum.

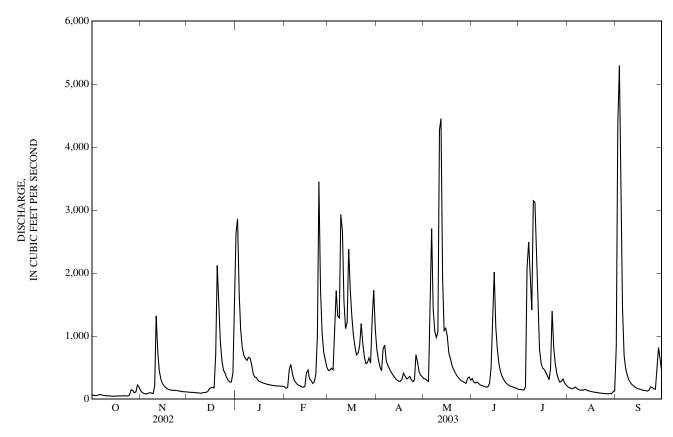
REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	137	114	2,640	197	457	789	324	327	154	198	837
2	62	108	110	2,860	172	462	622	322	268	154	183	4,350
3	57	93	108	1,690	185	491	514	299	256	149	172	5,290
4	57	86	107	1,100	469	466	451	282	271	146	166	3,370
5	68	83	107	819	e550	1,000	795	1,560	253	193	178	1,430
6	75	93	103	696	e410	1,720	857	2,710	226	2,100	191	693
7	69	102	102	647	e310	1,320	609	1,430	218	2,490	166	490
8	60	97	99	613	e270	1,290	539	1,080	209	2,040	150	381
9	57	88	97	665	e240	2,930	482	979	200	1,420	142	310
10	54	210	95	649	e220	2,660	436	1,070	190	3,150	146	265
11	55	1,320	104	548	e210	1,550	394	4,270	196	3,130	142	231
12	52	741	107	e400	e197	1,120	361	4,450	250	2,250	155	211
13	49	444	108	e350	e190	1,220	326	1,930	499	1,360	146	188
14	47	318	124	e340	e200	2,380	300	1,090	1,300	781	133	177
15	48	250	163	e300	416	1,730	286	1,120	2,020	569	129	165
16	47	212	183	e280	463	1,320	282	1,000	1,140	489	120	159
17	50	184	185	e270	321	1,020	313	732	795	471	117	151
18	51	166	180	e260	296	833	412	642	564	421	111	140
19	52	154	715	e250	250	703	367	539	442	375	109	139
20	53	147	2,120	e245	275	731	321	475	367	309	104	132
21	52	140	1,500	e235	390	851	337	424	314	477	100	130
22	53	142	911	e230	1,000	1,200	361	378	274	1,400	96	146
23	50	139	606	e225	3,450	893	309	345	245	823	93	197
24	52	138	462	e220	1,740	675	278	317	226	563	90	184
25	68	132	410	e215	1,050	563	305	294	212	405	88	165
26 27 28 29 30 31	148 138 101 115 226 197	129 122 119 117 117	346 295 273 271 413 1,280	e213 e211 e209 e207 206 204	750 626 512 	580 654 572 1,290 1,730 1,100	706 588 434 381 356	277 266 248 332 352 300	200 194 181 173 161	319 272 285 321 259 222	87 86 86 89 117 132	158 506 819 633 443
TOTAL	2,329	6,328	11,798	17,997	15,359	35,511	13,511	29,837	12,171	27,497	4,022	22,490
MEAN	75.1	211	381	581	549	1,146	450	962	406	887	130	750
MAX	226	1,320	2,120	2,860	3,450	2,930	857	4,450	2,020	3,150	198	5,290
MIN	47	83	95	204	172	457	278	248	161	146	86	130
CFSM	0.16	0.45	0.80	1.22	1.16	2.42	0.95	2.03	0.86	1.87	0.27	1.58
IN.	0.18	0.50	0.93	1.41	1.21	2.79	1.06	2.34	0.96	2.16	0.32	1.77
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WATI	ER YEARS	1943 - 2003,	BY WATE	R YEAR (W	YY)			
MEAN	149	369	511	691	774	933	842	712	483	331	172	137
MAX	983	2,591	1,742	4,000	2,192	2,281	2,076	2,878	2,381	1,564	1,348	1,295
(WY)	(1987)	(1994)	(1991)	(1950)	(1950)	(1961)	(1964)	(1996)	(1998)	(1979)	(1979)	(1989)
MIN	22.2	33.4	30.4	36.5	74.8	215	170	120	58.7	29.5	25.4	13.4
(WY)	(1945)	(1954)	(1964)	(1977)	(1964)	(1981)	(1971)	(1976)	(1988)	(1954)	(1954)	(1954)

03362500 SUGAR CREEK NEAR EDINBURGH, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	ENDAR YEAR	FOR 2003 WA	ΓER YEAR	WATER YEARS 1943 - 2003		
ANNUAL TOTAL	218,530		198,850				
ANNUAL MEAN	599		545		507		
HIGHEST ANNUAL MEAN					849	1950	
LOWEST ANNUAL MEAN					160	1954	
HIGHEST DAILY MEAN	10,700	May 14	5,290	Sep 3	19,200	May 29, 1956	
LOWEST DAILY MEAN	24	Sep 13	47	Oct 14	9.2	Sep 18, 1954	
ANNUAL SEVEN-DAY MINIMUM	26	Sep 8	49	Oct 12	10	Sep 13, 1954	
MAXIMUM PEAK FLOW		_	5,880	Sep 3	27,600	May 29, 1956	
MAXIMUM PEAK STAGE			11.11	Sep 3	18.38	May 29, 1956	
ANNUAL RUNOFF (CFSM)	1.26		1.15	•	1.07	•	
ANNUAL RUNOFF (INCHES)	17.15		15.61		14.53		
10 PERCENT EXCEEDS	1,270		1,320		1,150		
50 PERCENT EXCEEDS	207		277		213		
90 PERCENT EXCEEDS	52		93		46		



03363500 FLATROCK RIVER AT ST. PAUL, IN

 $LOCATION.--Lat\ 39^{\circ}25'03", long\ 85^{\circ}38'03", in\ SE^{1}_{4}NE^{1}_{4}\ sec.9, T.11\ N., R.8\ E., Shelby\ County, Hydrologic\ Unit\ 05120205, (WALDRON,\ IN\ quadrangle), on\ right\ bank\ 500\ ft\ downstream\ from\ county\ road\ bridge,\ 0.8\ mi\ southwest\ of\ St.\ Paul,\ 1.5\ mi\ downstream\ from\ Mill\ Creek,\ and\ at\ mile\ 34.4.$

DRAINAGE AREA.--303 mi².

PERIOD OF RECORD.--October 1930 to current year. Prior to October 1958, published as Flatrock Creek at St. Paul.

REVISED RECORDS.--WSP 853: 1934-36. WSP 973: 1942. WSP 1335: 1933, 1936. WSP 1725: 1957(M). WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 764.84 ft above National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to Oct. 21, 1938, nonrecording gage at site 500 ft upstream at same datum.

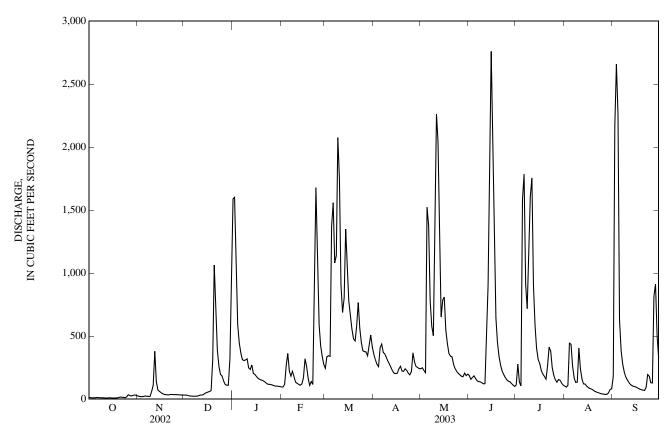
REMARKS.--Records good except for estimated daily discharges, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of approximately 20.5 ft, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	14 12 10 11	26 22 20 20 e22	32 32 30 e26 e25	1,590 1,600 952 593 445	e96 97 118 268 363	246 337 345 339 1,370	356 312 277 258 406	242 248 227 211 1,520	188 157 172 185 164	114 279 138 105 1,580	103 96 110 444 436	182 2,160 2,660 2,260 631
6	14	25	e24	365	222	1,560	436	1,370	145	1,780	264	387
7	12	24	e23	314	183	1,080	370	783	139	908	169	281
8	11	e22	e24	305	221	1,140	359	578	138	718	133	216
9	11	21	e24	311	177	2,080	331	503	131	1,280	135	177
10	e11	61	e27	320	135	1,740	301	1,040	122	1,610	407	153
11	9.3	e110	32	249	e125	909	277	2,260	123	1,760	242	132
12	9.1	e380	33	235	e118	687	251	2,050	606	908	159	116
13	9.3	e140	35	271	e110	803	223	1,140	903	585	122	107
14	e11	72	45	204	e120	1,350	206	651	1,550	405	120	101
15	9.9	e62	51	e195	170	1,030	203	785	2,760	317	104	98
16	9.1	e52	56	e180	320	778	206	810	1,840	283	92	93
17	9.4	e43	61	e165	262	665	240	545	1,160	228	85	85
18	e9.0	e38	68	e158	166	556	261	438	644	200	80	79
19	11	e36	312	e152	109	479	224	361	453	181	73	74
20	12	e35	1,060	e148	139	462	220	341	338	158	64	72
21	e17	34	703	e140	116	579	241	335	268	261	58	69
22	e15	37	389	e130	899	767	228	273	223	413	53	95
23	14	37	258	e120	1,680	565	206	242	195	381	49	195
24	11	36	197	e118	1,080	448	193	219	172	249	44	182
25	18	36	184	e116	592	384	220	204	152	188	42	130
26 27 28 29 30 31	35 29 e26 e29 e33 32	e36 35 34 33 33	145 117 110 111 319 856	e113 e108 e104 e104 e102 e100	425 339 276 	377 376 344 430 509 414	367 296 259 252 242	193 181 178 206 186 198	142 138 123 111 101	155 135 156 150 128 111	40 38 39 50 77 82	129 816 911 500 324
TOTAL	475.1	1,582	5,409	10,007	8,926	23,149	8,221	18,518	13,543	15,864	4,010	13,415
MEAN	15.3	52.7	174	323	319	747	274	597	451	512	129	447
MAX	35	380	1,060	1,600	1,680	2,080	436	2,260	2,760	1,780	444	2,660
MIN	9.0	20	23	100	96	246	193	178	101	105	38	69
CFSM	0.05	0.17	0.58	1.07	1.05	2.46	0.90	1.97	1.49	1.69	0.43	1.48
IN.	0.06	0.19	0.66	1.23	1.10	2.84	1.01	2.27	1.66	1.95	0.49	1.65
STATIST	TICS OF M	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1931 - 2003,	BY WATE	R YEAR (W	YY)			
MEAN	89.8	212	345	484	514	584	585	464	300	192	90.6	70.4
MAX	600	1,342	1,567	3,450	1,808	1,605	1,576	1,968	1,502	915	716	447
(WY)	(2002)	(1994)	(1991)	(1937)	(1950)	(1961)	(2002)	(1996)	(1998)	(1979)	(1979)	(2003)
MIN	1.96	6.97	9.98	15.1	27.7	41.8	51.9	42.9	19.7	9.28	4.06	1.36
(WY)	(1964)	(2000)	(1964)	(1977)	(1935)	(1941)	(1941)	(1934)	(1934)	(1936)	(1988)	(1999)

03363500 FLATROCK RIVER AT ST. PAUL, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	NDAR YEAR	FOR 2003 WAT	TER YEAR	WATER YEARS	S 1931 - 2003
ANNUAL TOTAL	152,819.7		123,119.1			
ANNUAL MEAN	419		337		327	
HIGHEST ANNUAL MEAN					642	1950
LOWEST ANNUAL MEAN					40.6	1941
HIGHEST DAILY MEAN	7,810	May 14	2,760	Jun 15	16,500	Jan 5, 1949
LOWEST DAILY MEAN	4.9	Sep 14	9.0	Oct 18	0.60	Aug 7, 1931
ANNUAL SEVEN-DAY MINIMUM	6.4	Sep 10	9.5	Oct 12	0.80	Oct 12, 1963
MAXIMUM PEAK FLOW		_	4,620	Jun 15	18,500	Jan 5, 1949
MAXIMUM PEAK STAGE			5.85	Jun 15	12.37	May 24, 1968
ANNUAL RUNOFF (CFSM)	1.38		1.11		1.08	-
ANNUAL RUNOFF (INCHES)	18.76		15.12		14.64	
10 PERCENT EXCEEDS	1,000		905		754	
50 PERCENT EXCEEDS	139		181		135	
90 PERCENT EXCEEDS	11		25		16	



03363900 FLATROCK RIVER AT COLUMBUS, IN

LOCATION.--Lat $39^{\circ}14'06''$, long $85^{\circ}55'36''$, in NE $^{1}_{4}$ SW $^{1}_{4}$ sec.12, T.9 N., R.5 E., Bartholomew County, Hydrologic Unit 05120205, (COLUMBUS, IN quadrangle), 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 mi 2 .

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 610.14 ft above National Geodetic Vertical Datum of 1929.

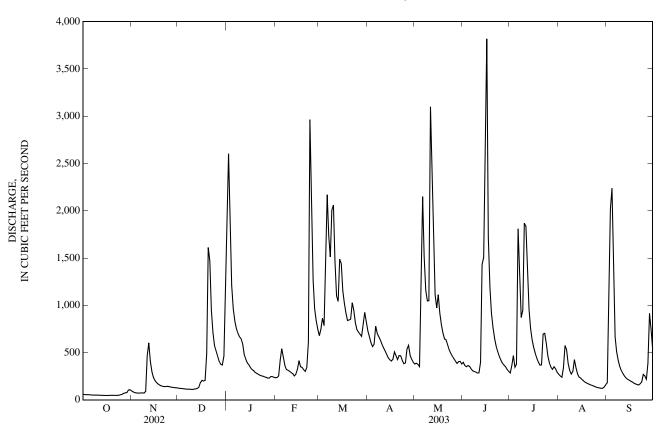
REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

					DAIL	LY MEAN V	ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	59 56 54 55 53	95 84 77 73 72	124 121 120 118 116	1,960 2,600 1,770 1,210 961	234 236 253 422 e540	679 747 864 784 1,350	730 668 606 564 587	378 387 375 351 1,130	397 363 350 362 354	284 364 466 344 376	269 253 239 339 576	180 1,090 2,020 2,240 1,220
6 7 8 9 10	52 51 49 51 50	71 73 74 71 90	113 113 113 111 110	831 754 704 666 646	e450 e360 e320 e312 e302	2,170 1,740 1,510 2,010 2,060	779 702 669 633 591	2,150 1,510 1,160 1,050 1,050	328 308 300 293 284	1,810 1,380 870 949 1,870	532 384 313 273 301	664 508 415 353 309
11 12 13 14 15	49 49 48 47 47	465 603 410 297 237	113 116 120 134 182	593 e478 e430 e390 e370	e288 276 253 270 323	1,470 1,100 1,040 1,490 1,440	551 520 483 447 424	3,100 2,340 1,720 1,110 971	285 397 1,430 1,510 2,710	1,830 1,480 958 759 633	426 338 276 240 230	277 251 231 217 208
16 17 18 19 20	46 47 47 48 47	203 181 167 156 147	206 199 205 492 1,610	e340 e320 e310 e290 e280	416 349 343 318 302	1,150 1,020 920 839 845	410 429 508 468 425	1,110 915 792 706 644	3,820 1,720 1,190 918 762	552 492 439 399 367	212 197 185 176 168	198 188 177 169 162
21 22 23 24 25	48 47 47 48 54	143 140 142 143 140	1,470 951 711 577 520	e270 e260 e254 e250 e243	341 613 2,960 1,910 1,270	854 1,030 950 816 743	468 466 418 383 390	635 580 530 492 462	647 568 509 462 420	370 695 703 601 466	160 154 148 140 134	157 170 188 268 254
26 27 28 29 30 31	58 69 74 77 104 107	136 133 130 127 127	465 406 375 368 463 1,230	e238 e230 e230 246 246 238	964 835 748 	716 695 671 796 924 825	536 576 475 429 399	435 409 385 404 407 378	388 368 349 322 301	392 345 323 351 329 292	129 126 122 121 134 158	218 385 915 739 536
TOTAL MEAN MAX MIN CFSM IN.	1,738 56.1 107 46 0.10 0.12	5,007 167 603 71 0.31 0.35	12,072 389 1,610 110 0.73 0.84	18,608 600 2,600 230 1.12 1.30	16,208 579 2,960 234 1.08 1.13	34,248 1,105 2,170 671 2.07 2.39	15,734 524 779 383 0.98 1.10	28,066 905 3,100 351 1.70 1.96	22,415 747 3,820 284 1.40 1.56	21,489 693 1,870 284 1.30 1.50	7,453 240 576 121 0.45 0.52	14,907 497 2,240 157 0.93 1.04
STATIST	ICS OF MO	ONTHLY MI	EAN DATA	FOR WATE	ER YEARS	1968 - 2003,	BY WATE	R YEAR (W	Y)			
MEAN MAX (WY) MIN (WY)	186 912 (1994) 25.6 (2000)	428 2,336 (1994) 30.2 (2000)	679 2,092 (1991) 44.8 (1977)	719 1,827 (1969) 30.6 (1977)	913 2,524 (1982) 189 (1992)	956 2,223 (1978) 204 (1992)	1,012 2,301 (1996) 251 (1976)	943 3,871 (1996) 132 (1976)	612 2,728 (1998) 77.2 (1988)	401 1,556 (1979) 50.8 (1988)	243 1,296 (1979) 35.0 (1988)	17.0
SUMMA	RY STATIS	STICS	I	FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	/EAR	WATER Y	YEARS 19	968 - 2003
LOWEST HIGHES	L MEAN Γ ANNUAL Γ ANNUAL Γ DAILY M	MEAN IEAN		260,593 714 15,200	May		197,94 54 3,82	12 20 Jur	ı 16	9. 2. 18,2		1996 1977 Dec 31, 1990
ANNUAI MAXIMU MAXIMU ANNUAI	JM PEAK F JM PEAK S L RUNOFF	OAY MINIM FLOW STAGE (CFSM)	UM		Sep		5,02 1	17 Oct 20 Jur 10.58 Jur 1.02	t 16 t 14 n 16 n 16	20,0	13 S 00 N 15.87 N 1.13	Sep 18, 1999 Sep 18, 1999 Iay 25, 1968 Iay 25, 1968
10 PERCI 50 PERCI	L RUNOFF ENT EXCE ENT EXCE ENT EXCE	EDS EDS		18 1,470 316 51			1,21 37	13.79 10 75 31		1,3:	15.32 20 16 59	

e Estimated

03363900 FLATROCK RIVER AT COLUMBUS, IN—Continued



$03364000\,$ 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, (COLUMBUS, IN quadrangle), 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. Datum of gage is 603.12 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 22, 1952, nonrecording gage 600 ft upstream at same datum.

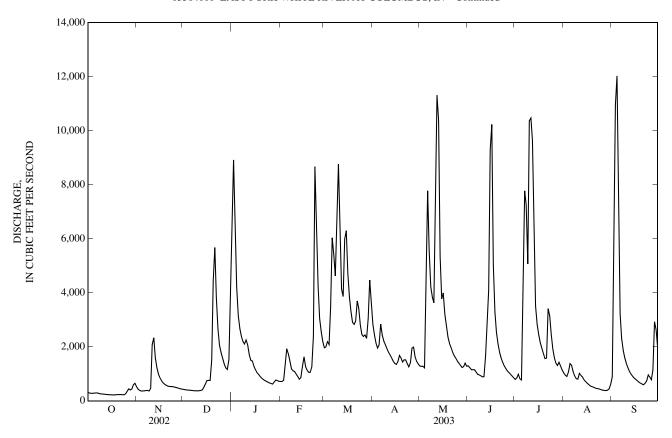
REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

					DAII	LI MIEAN V	ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	308	522	424	6,890	716	1,960	2,850	1,290	1,300	793	1,030	893
2 3	288 277	430 384	412 403	8,910 6,670	716 761	1,990 2,190	2,440 2,140	1,280 1,280	1,230 1,150	850 983	949 901	6,550 11,000
4	279	362	397	4,220	1,340	2,080	1,950	1,220	1,160	815	1,060	12,000
5	288	368	395	3,150	1,930	3,460	2,070	4,170	1,150	774	1,380	9,010
6	290	370	388	2,670	1,740	6,040	2,840	7,770	1,070	5,590	1,320	3,230
7 8	293 270	382 386	380 372	2,390 2,190	1,470 1,180	5,440 4,630	2,430 2,210	5,580 4,230	981 959	7,770 7,240	1,080 922	2,310 1,870
9	260	361	373	2,100	1,110	6,490	2,080	3,840	926	5,070	818	1,590
10	253	464	366	2,250	1,080	8,760	1,940	3,630	889	10,400	805	1,380
11	249	2,080	376	2,080	990	6,140	1,800	8,870	893	10,500	1,020	1,230
12 13	241 234	2,330 1,600	383 407	1,710 1,500	903 800	4,130 3,860	1,700 1,590	11,300 10,400	1,650 2,790	9,650 5,620	943 879	1,090 986
14	228	1,220	503	1,470	858	5.990	1,470	5,350	4,100	3,510	774	912
15	225	994	620	1,280	1,270	6,300	1,390	3,770	9,280	2,830	715	845
16	221	847	751	e1,150	1,630	4,750	1,350	4,000	10,200	2,440	650	794
17 18	220 220	736 664	757 755	e1,040 e980	1,270 1,140	3,860 3,320	1,450 1,680	3,210 2,750	5,030 3,290	2,160 1,940	598 550	746 693
19	229	614	1,510	e900	1,050	2.900	1,590	2,360	2,540	1,750	524	655
20	230	575	4,450	e840	1,060	2,830	1,440	2,120	2,100	1,560	507	621
21	230	546	5,680	e790	1,250	2,950	1,520	1,970	1,790	1,580	475	594
22 23 24	233 226	532 527	3,810 2,670	e750 e720	2,390 8,670	3,700 3,420	1,520 1,370	1,800 1,670	1,580 1,420	3,410 3,150	455 451	653 740
24	224	527	2,060	e690	6,910	2,790	1,260	1,580	1,290	2,460	429	959
25	262	511	1,790	e660	4,230	2,450	1,410	1,480	1,190	1,920	408	884
26 27	351	496	1,580	e640	3,050	2,380	1,950	1,390	1,100	1,600	394	780
27	444 404	481 461	1,370 1,220	e620 e700	2,550 2,200	2,440 2,310	1,990 1,630	1,320 1,230	1,040 984	1,390 1,310	386 378	1,150 2,930
28 29	437	445	1,160	767		3,050	1,460	1,260	919	1,430	395	2,630
30 31	598 653	435	1,530 3,670	752 721		4,470 3,610	1,370	1,390	851	1,290 1,140	442 609	1,970
		20.650			54.064			1,280				
TOTAL MEAN	9,165 296	20,650 688	40,962 1,321	62,200 2,006	54,264 1,938	120,690 3,893	53,890 1,796	104,790 3,380	64,852 2,162	102,925 3,320	22,247 718	71,695 2,390
MAX	653	2,330	5,680	8,910	8,670	8,760	2,850	11,300	10,200	10,500	1,380	12,000
MIN CFSM	220 0.17	361 0.40	366 0.77	620 1.18	716 1.14	1,960 2.28	1,260 1.05	1,220 1.98	851 1.27	774 1.95	378 0.42	594 1.40
IN.	0.17	0.45	0.77	1.16	1.14	2.63	1.17	2.28	1.41	2.24	0.42	1.56
STATIST	ICS OF MO	ONTHLY M	EAN DATA	A FOR WATI	ER YEARS	1949 - 2003.	BY WATE	R YEAR (W	Y)			
MEAN	622		1,983	2,577	2,946	3,227	3,092	2,650	1,781	1,317	745	556
MAX	4,096	1,335 8,137	6,004	14,400	8,640	8,014	7,466	10,960	8,272	4,990	5,185	3,696
(WY)	(2002)	(1994)	(1967)	(1950)	(1950)	(1963)	(1964)	(1996)	(1998) 325	(1958)	(1979)	(1989)
MIN (WY)	104 (1995)	172 (1955)	191 (1964)	163 (1977)	342 (1964)	829 (1954)	852 (1971)	532 (1976)	(1988)	161 (1954)	136 (1954)	101 (1954)
, ,	RY STATIS	, ,		FOR 2002 C				3 WATER Y		, ,	YEARS 194	, ,
	L TOTAL	71105		838,511		1 Li III	728,33		Li III	WITTER	12110171	2003
ANNUAI				2,297			1,99			1,8	97	
	ΓANNUAL									3,3		1950
	Γ ANNUAL Γ DAILY M			31,300) May	15	12,00	00 Sep	4	5 49,0	34 00 Ma	1954 ur 6, 1963
LOWEST	DAILY M	EAN		174	l Sep	14	22	20 Oct	17		85 Se	p 22, 1994
	L SEVEN-L JM PEAK I	DAY MINIM	IUM	185	Sep	8	22 12,20			52,3		p 28, 1954 ir 6, 1963
	JM PEAK S						12,20	6.47 Sep				ır 6, 1963
	L RUNOFF				.35			1.17			1.11	
	L RUNOFF ENT EXCE			5,090	3.27)		4,53	15.87 30		4,2	15.10 70	
50 PERCI	ENT EXCE	EDS		1,190)		1,27	70		9	81	
90 PERC	ENT EXCE	EDS		259	,		38	51		2	50	

e Estimated

03364000 EAST FORK WHITE RIVER AT COLUMBUS, IN—Continued



(WY)

(1954)

(1954)

(1954)

(1977)

03364500 CLIFTY CREEK AT HARTSVILLE, IN

LOCATION.--Lat $39^{\circ}16'25''$, long $85^{\circ}42'10''$, in $NW^{1}_{4}NW^{1}_{4}$ sec. 36, T.10 N., R.7 E., Bartholomew County, Hydrologic Unit 05120206, (HARTSVILLE, IN quadrangle), at downstream side of left abutment of county highway bridge, 0.2 mi north of Hartsville, 5.9 mi upstream from Duck Creek, and at mile 22.0.

DRAINAGE AREA.--91.4 mi².

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

REVISED RECORDS.--WSP 1335: 1950. WSP 1725: 1949(M). WSP 2109: Drainage area. WDR IN-74-1: 1973.

GAGE.--Water-stage recorder. Datum of gage is 677.34 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 24, 1952, nonrecording gage at same site and datum.

REMARKS.--Records fair except those below 1.0 ft³/s and estimated daily discharges, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1913 reached an elevation of 702.4 ft above National Geodetic Vertical Datum of 1929, from floodmarks, upstream from bridge.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES DAY OCT NOV DEC JAN **FEB** MAR APR MAY JUN JUL AUG SEP 0.19 6.7 1,220 e18 40 32 86 5.1 250 0.08 6.5 745 74 50 34 30 12 420 e21 6.5 3 0.00 e4.7 358 42 214 65 44 38 35 11 245 0.23 4.2 5.6 212 198 185 41 44 27 87 61 84 5 4.5 5.8 1,080 39 24 60 47 0.43 157 e90 880 84 6 0.315.7 131 e70 536 81 571 33 32 31 5.5 31 22 0.24 4.9 117 e50 371 73 268 37 23 e5.2 17 19 8 0.21 4.2 113 e42 366 72 176 31 29 Q 0.19 4.1 4.8 100 e48 518 65 139 29 39 14 16 10 0.21 83 5.5 84 e39 235 60 359 27 258 194 14 11 0.20 450 6.4 67 e34 149 57 605 28 70 56 12 47 52 37 12 0.18 109 7.6 51 e33 122 52 254 32 11 151 47 146 821 23 9.5 13 0.18 45 11 e61 e32 27 29 e49 43 1.190 29 9.2 14 0.10 e31 109 18 15 0.03 19 46 e42 79 163 42 153 1,860 40 15 9.9 0.00 129 9.3 62 e37 77 41 121 1.430 45 13 16 15 0.00 58 67 111 55 93 2.7 8.1 17 12. e33 463 12 76 99 18 0.00 10 e29 55 96 75 83 255 24 7.1 92 21 19 0.1492 411 e26 44 59 72 170 87 6.7 8.1 91 54 20 0.22742 e2346 68 122 18 8.0 6.5 21 0.22 7.7 295 e21 66 165 57 85 36 7.2 6.2 8.6 0.16 161 e20 842 193 57 70 78 103 6.6 12 23 0.17 9.2 106 e18 943 126 48 60 66 90 6.1 21 9.5 e17 335 43 48 0.20 84 100 54 57 5.6 22 25 0.70 9.3 80 e16 87 52 49 50 31 5.1 16 98 26 1.7 9.2 60 e17 129 112 46 46 24 4.7 12 2.7 2.1 8.4 7.7 49 107 79 42 44 21 100 111 4.6 e16 28 2.3 49 40 21 38 4.3 90 94 61 113 e17 29 35 20 4.5 6.6 7.5 55 e18 138 55 53 50 ---31 30 7.3 332 50 45 19 5.7 30 6.2 e17 ---122 9.9 5.5 31 641 e16 ---98 40 16 6,351 719.9 TOTAL 28.99 3,418.8 5,065 1,405.5 914.2 3.848 3,796 1.846 7.271 1.364 MEAN 0.94 30.5 110 124 136 205 61.5 163 242 44.0 23.2 46.9 MAX 450 742 1,220 943 880 98 1,080 1,860 258 194 420 6.6 MIN 0.00 4.1 4.8 16 18 87 41 40 27 16 4.3 6.2 1.79 CFSM 0.01 0.33 1.21 1.36 1.48 2.24 0.67 0.48 0.25 0.51 0.37 1.39 1.57 2.58 2.96 0.56 0.29 0.57 0.01 1.54 0.75 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2003, BY WATER YEAR (WY) 18.5 25.6 83.5 MEAN 70.7 119 180 140 30.9 155 164 160 56.1 196 874 MAX 431 515 551 465 572 482 487 242 264 261 (2002)(1992) (1995)(1974)(1986)(1991)(1949) (1950)(1996)(1996)(1998)(WY) (1961)MIN 0.000 0.0000.13 1.47 7 17 21.1 177 10.9 1.16 0.000 0.000 0.000

(1954)

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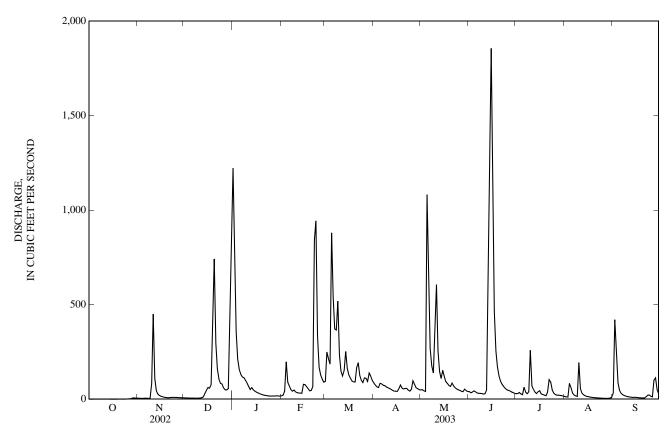
(1954)

(1954)

(1953)

03364500 CLIFTY CREEK AT HARTSVILLE, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	NDAR YEAR	FOR 2003 WAT	ΓER YEAR	WATER YEARS	5 1949 - 2003
ANNUAL TOTAL	44,816.45		36,028.39			
ANNUAL MEAN	123		98.7		99.9	
HIGHEST ANNUAL MEAN					197	1950
LOWEST ANNUAL MEAN					9.00	1954
HIGHEST DAILY MEAN	3,700	May 13	1,860	Jun 15	6,230	Apr 29, 1996
LOWEST DAILY MEAN	0.00	Sep 6	0.00	Oct 3	0.00	Oct 14, 1948
ANNUAL SEVEN-DAY MINIMUM	0.00	Sep 6	0.06	Oct 13	0.00	Sep 2, 1951
MAXIMUM PEAK FLOW		•	3,470	Jun 15	11,300	Jan 21, 1959
MAXIMUM PEAK STAGE			8.00	Jun 15	14.29	Jan 21, 1959
ANNUAL RUNOFF (CFSM)	1.34		1.08		1.09	
ANNUAL RUNOFF (INCHÉS)	18.24		14.66		14.86	
10 PERCENT EXCEEDS	294		213		220	
50 PERCENT EXCEEDS	38		41		32	
90 PERCENT EXCEEDS	0.19		4.7		0.85	



03365500 EAST FORK WHITE RIVER AT SEYMOUR, IN

LOCATION.--Lat 38°58'57", long 85°53'57", in NW \(^1/4\) NE \(^1/4\) sec.7, T.6 N., R.6 E., Jackson County, Hydrologic Unit 05120206, (SEYMOUR, IN quadrangle), on left bank 1,700 ft downstream from highway bridge, 1 mi north of Seymour, 9.5 mi downstream from Sand Creek, and at mile 214.6.

DRAINAGE AREA.--2,341 mi².

PERIOD OF RECORD.--October 1927 to current year. Yearly maximum discharge only for water years 1924-27 published in WSP 1305. Daily gage heights from May 1923 to September 1927 are available in the district office.

REVISED RECORDS.--WSP 743: 1928-29, 1931-32. WSP 783: 1934. WSP 873: 1938. WSP 1335: 1928(M), 1929-30, 1932-33(M), 1937(M), 1942. WSP 1435: 1949. WSP 1705: 1958. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 550.67 ft above National Geodetic Vertical Datum of 1929. Oct. 1, 1927 to July 2, 1931, nonrecording gage 1,700 ft upstream at datum 7.61 ft higher. July 3, 1931 to July 16, 1934, nonrecording gage at site 100 ft downstream at present datum.

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

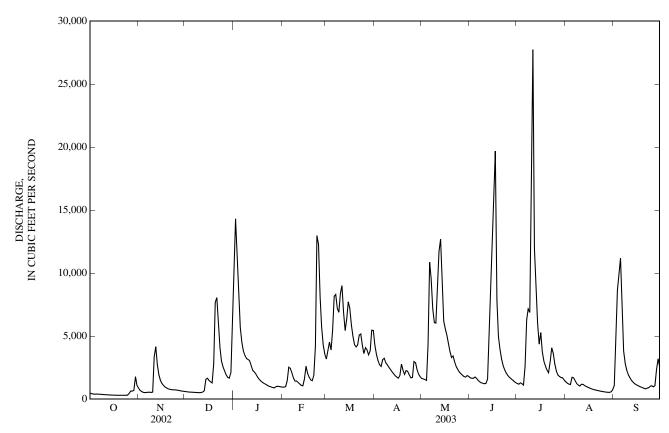
EXTREMES OUTSIDE PERIOD OF RECORD .-- Flood of Mar. 26, 1913, reached a stage of 21.0 ft, from information by Corps of Engineers and Indiana Department of Highways, discharge, 120,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	483	867	604	8,720	958	3,180	4,300	1,640	1,690	1,240	1,380	1,070
2	437	701	589	14,300	948	3,840	3,550	1,600	1,660	1,180	1,270	4,610
3	409	598	571	11,600	994	4,530	3,080	1,560	1,650	1,300	1,190	8,620
4	394	543	557	8,170	1,480	3,900	2,750	1,490	1,760	1,230	1,160	9,920
5	410	518	557	5,700	2,540	5,460	2,600	4,300	1,650	1,110	1,740	11,200
6	401	541	544	4,500	2,440	8,160	3,140	10,900	1,490	2,610	1,690	7,980
7	392	546	535	3,820	2,080	8,300	3,240	9,560	1,370	6,300	1,460	3,810
8	385	556	529	3,460	1,670	7,210	2,890	7,150	1,300	7,160	1,240	2,820
9	373	532	518	3,230	1,430	6,900	2,710	6,070	1,260	6,880	1,120	2,290
10	362	564	517	3,150	1,440	8,410	2,530	6,040	1,230	15,000	1,040	1,940
11	354	3,360	527	3,050	1,320	9,020	2,350	8,760	1,250	27,700	1,180	1,700
12	347	4,160	560	2,650	1,200	6,890	2,180	11,700	1,580	11,900	1,170	1,500
13	340	2,750	667	2,260	1,090	5,440	2,020	12,700	3,950	9,480	1,080	1,350
14	331	1,920	1,570	2,160	1,060	6,330	1,870	10,200	6,950	6,070	1,020	1,230
15	324	1,490	1,660	1,980	1,610	7,720	1,750	6,200	10,100	4,360	950	1,150
16	319	1,240	1,480	1,770	2,610	7,220	1,670	5,610	14,500	5,280	896	1,080
17	313	1,070	1,380	e1,600	2,070	5,880	1,880	5,090	19,700	3,780	838	1,020
18	308	962	1,290	e1,460	1,740	5,000	2,790	4,410	7,860	3,020	795	962
19	308	886	2,820	e1,350	1,530	4,330	2,310	3,780	4,950	2,640	751	910
20	311	820	7,660	e1,270	1,460	4,140	1,970	3,300	3,930	2,310	728	859
21	308	779	8,050	e1,200	1,870	4,290	2,260	3,430	3,160	2,090	700	819
22	308	758	6,090	e1,130	4,170	5,090	2,210	2,950	2,660	2,920	669	875
23	308	740	4,100	e1,040	13,000	5,170	1,910	2,600	2,320	4,070	641	907
24	307	738	3,030	e1,000	12,300	4,280	1,690	2,350	2,070	3,650	618	1,030
25	313	729	2,560	e950	e8,100	3,620	1,730	2,160	1,880	2,780	595	1,060
26 27 28 29 30 31	456 653 631 703 1,780 1,090	706 682 657 637 626	2,250 1,930 1,720 1,670 2,100 5,450	e910 e900 1,010 1,030 999 978	e5,720 e4,280 3,590 	4,090 3,920 3,510 3,840 5,480 5,450	2,980 2,890 2,340 1,970 1,770	2,010 1,900 1,790 1,750 1,880 1,800	1,730 1,620 1,520 1,410 1,310	2,240 1,910 1,800 1,720 1,690 1,520	573 556 542 540 582 751	975 1,070 2,340 3,200 2,570
TOTAL	14,158	31,676	64,085	97,347	84,700	170,600	73,330	146,680	109,510	146,940	29,465	80,867
MEAN	457	1,056	2,067	3,140	3,025	5,503	2,444	4,732	3,650	4,740	950	2,696
MAX	1,780	4,160	8,050	14,300	13,000	9,020	4,300	12,700	19,700	27,700	1,740	11,200
MIN	307	518	517	900	948	3,180	1,670	1,490	1,230	1,110	540	819
CFSM	0.20	0.45	0.88	1.34	1.29	2.35	1.04	2.02	1.56	2.02	0.41	1.15
IN.	0.22	0.50	1.02	1.55	1.35	2.71	1.17	2.33	1.74	2.33	0.47	1.29
STATIST	TCS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1928 - 2003,	BY WATE	R YEAR (W	YY)			
MEAN	808	1,616	2,601	3,764	3,946	4,546	4,365	3,620	2,377	1,637	955	674
MAX	6,426	11,570	9,245	19,560	12,290	10,690	9,523	17,020	12,630	6,040	8,795	4,244
(WY)	(2002)	(1994)	(1928)	(1950)	(1950)	(1963)	(2002)	(1996)	(1998)	(1979)	(1979)	(1989)
MIN	162	182	207	192	373	299	356	264	394	199	148	136
(WY)	(1941)	(1935)	(1964)	(1977)	(1931)	(1941)	(1941)	(1941)	(1931)	(1941)	(1941)	(1941)

03365500 EAST FORK WHITE RIVER AT SEYMOUR, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WA	TER YEAR	WATER YEARS 1928 - 2003		
ANNUAL TOTAL	1,318,682		1,049,358				
ANNUAL MEAN	3,613		2,875		2,569		
HIGHEST ANNUAL MEAN					4,870	2002	
LOWEST ANNUAL MEAN					287	1941	
HIGHEST DAILY MEAN	46,300	May 14	27,700	Jul 11	63,500	Jan 6, 1949	
LOWEST DAILY MEAN	274	Sep 14	307	Oct 24	86	Sep 28, 1941	
ANNUAL SEVEN-DAY MINIMUM	288	Sep 9	308	Oct 18	93	Sep 25, 1941	
MAXIMUM PEAK FLOW		•	39,900	Jul 11	78,500	Jan 5, 1949	
MAXIMUM PEAK STAGE			17.95	Jul 11	19.67	Jan 5, 1949	
ANNUAL RUNOFF (CFSM)	1.54		1.23		1.10		
ANNUAL RUNOFF (INCHES)	20.95		16.67		14.91		
10 PERCENT EXCEEDS	7,720		7,030		5,850		
50 PERCENT EXCEEDS	1,780		1,730		1,240		
90 PERCENT EXCEEDS	367		543		301		



03366200 HARBERTS CREEK NEAR MADISON, IN

LOCATION.--Lat $38^{\circ}46'55''$, long $85^{\circ}29'08''$, in $SW^{1}/_{4}SE^{1}/_{4}$ sec.14, T.4 N., R.9 E., Jefferson County, Hydrologic Unit 05120207, (CLIFTY FALLS, IN quadrangle), mounted on left downstream wingwall of bridge on County Road 533 West, 0.2 mi west of Smyrna, 3.7 mi upstream from Big Creek, and 4 mi northwest of Madison.

DRAINAGE AREA.--9.31 mi².

PERIOD OF RECORD .-- August 1968 to October 2003 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 725.75 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those below 1.0 ft³/s and estimated daily discharges, which are poor.

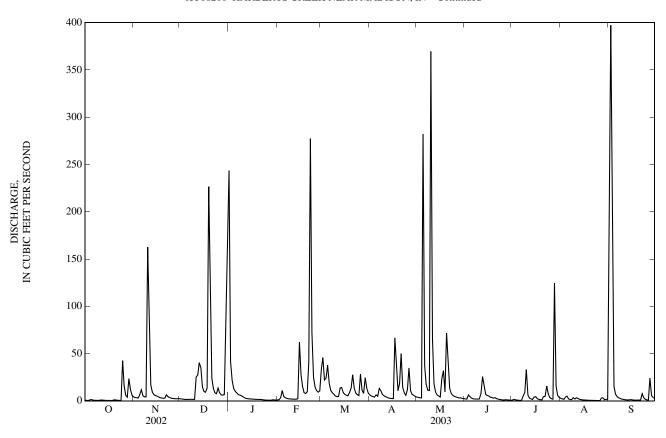
DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

					DAII	LY MEAN V	/ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.66 0.44 0.39 0.85 1.3	4.0 3.5 3.3 2.9 6.6	2.1 1.9 1.7 1.5 e1.4	244 42 21 13 10	e0.95 e1.2 3.1 11 4.7	33 46 e22 e24 38	6.2 5.1 4.4 4.0 6.3	4.0 3.7 3.2 3.1 282	2.1 1.8 6.2 4.4 2.8	0.68 1.4 1.1 0.87 0.57	2.7 2.1 1.6 4.0 4.9	86 397 91 15 7.0
6 7 8 9 10	0.79 0.59 0.53 0.48 0.54	12 5.3 4.2 4.1 162	e1.5 e1.6 e1.6 e1.5 e1.5	8.2 6.5 6.0 5.3 4.2	3.2 2.5 e2.1 e2.0 e1.9	19 11 8.5 7.0 5.1	4.9 13 11 6.9 5.4	38 17 11 11 370	2.1 2.0 2.0 1.9 1.9	0.46 0.62 5.2 8.9 33	2.0 1.4 1.2 3.3 2.0	4.4 3.2 2.5 1.9 1.5
11 12 13 14 15	0.87 0.81 0.59 0.48 0.46	72 17 9.3 6.5 5.5	25 27 40 35 15	3.1 e2.5 e2.3 e2.0 e1.9	e1.8 e1.8 e1.7 e2.2	4.4 4.6 14 14 8.7	4.4 3.7 3.0 2.7 2.4	65 18 9.2 6.2 5.1	7.4 26 16 6.9 5.6	6.1 3.0 2.1 1.5 4.0	3.2 2.6 1.6 1.3 1.0	1.2 1.0 0.91 1.1 1.2
16 17 18 19 20	0.45 0.39 0.31 0.66 1.1	5.0 4.1 3.3 3.0 2.7	9.8 9.0 13 226 108	e1.9 e1.7 e1.6 e1.6 e1.5	28 15 8.3 7.8 9.5	6.9 5.9 5.2 8.7	2.3 67 35 11 19	4.0 23 32 9.5 72	5.1 3.8 3.4 2.8 3.3	4.4 2.2 1.5 1.2 0.98	0.91 0.80 0.67 0.58 0.53	0.90 0.75 0.77 0.79 0.83
21 22 23 24 25	0.77 0.58 0.45 0.37 43	2.8 6.3 4.4 3.4 2.8	24 13 8.5 7.5 14	1.4 1.2 1.1 0.75 e0.72	41 277 72 25 14	28 13 8.4 6.4 5.6	50 14 8.3 5.8 12	43 13 8.0 5.8 4.7	2.3 1.8 1.4 1.2 0.97	4.5 4.7 16 7.6 3.5	0.48 0.43 0.39 0.30 0.30	0.76 7.5 3.5 1.6 0.99
26 27 28 29 30 31	16 5.7 3.9 23 12 6.0	2.5 2.3 2.2 2.2 2.4	8.6 6.4 6.0 6.6 56 132	e0.70 e0.68 e0.66 e1.1 e0.95 e0.85	11 9.1 10 	28 12 7.9 24 14 8.1	35 11 7.0 5.8 4.7	4.2 3.4 3.1 3.1 2.6 2.4	0.96 1.2 0.93 0.80 0.59	2.3 1.7 124 15 5.8 3.6	0.27 3.0 3.3 1.1 1.6 1.6	0.85 24 5.8 3.4 2.5
TOTAL MEAN MAX MIN CFSM IN.	124.46 4.01 43 0.31 0.43 0.50	367.6 12.3 162 2.2 1.32 1.47	806.7 26.0 226 1.4 2.80 3.22	390.41 12.6 244 0.66 1.35 1.56	629.85 22.5 277 0.95 2.42 2.52	454.4 14.7 46 4.4 1.57 1.82	371.3 12.4 67 2.3 1.33 1.48	1,080.3 34.8 370 2.4 3.74 4.32	119.65 3.99 26 0.59 0.43 0.48	268.48 8.66 124 0.46 0.93 1.07	51.16 1.65 4.9 0.27 0.18 0.20	669.85 22.3 397 0.75 2.40 2.68
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1969 - 2003	, BY WATE	R YEAR (W	Y)			
MEAN MAX (WY) MIN (WY)	4.31 32.4 (2002) 0.036 (1998)	12.6 48.6 (1980) 0.11 (2000)	19.1 64.1 (1991) 1.52 (1977)	18.6 57.5 (1982) 0.49 (1977)	21.6 51.9 (1971) 1.47 (1992)	24.6 52.0 (1975) 4.72 (1969)	23.8 84.5 (1996) 2.21 (2001)	18.9 76.1 (1996) 0.72 (1999)	8.55 51.3 (1997) 0.083 (1988)	4.00 14.7 (1993) 0.21 (1991)	4.30 28.2 (1992) 0.000 (1999)	3.61 22.3 (2003) 0.000 (1998)
SUMMA	RY STATIS	STICS	1	FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	/EAR	WATER	YEARS 19	69 - 2003
ANNUAI HIGHES' LOWEST HIGHES' LOWEST ANNUAI MAXIMU MAXIMU ANNUAI 10 PERC	L TOTAL L MEAN T ANNUAL T ANNUAL T DAILY M T DAILY M DEAK T BUNOFF L RUNOFF L RUNOFF ENT EXCE ENT EXCE	MEAN IEAN EAN OAY MINIM STAGE (CFSM) (INCHES) EDS	IUM	573 () ()	3.2 Sep 0.00 Aug 0.00 Aug	2	39 1,54	0.27 Aug 0.39 Aug 10 Ser		,	0.00 C 0.00 At 150 M	1996 1981 pr 29, 1996 ct 1, 1968 ug 26, 1969 ay 16, 1990 ay 16, 1990
	ENT EXCE				0.00			0.75			0.07	

e Estimated

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03366200 HARBERTS CREEK NEAR MADISON, IN—Continued



03366500 MUSCATATUCK RIVER NEAR DEPUTY, IN

LOCATION.--Lat $38^{\circ}48^{\circ}15^{\circ}$, long $85^{\circ}40^{\circ}26^{\circ}$, in $SW^{1}_{4}NE^{1}_{4}$ sec.7, T.4 N., R.8 E., Jefferson County, Hydrologic Unit 05120207, (DEPUTY, IN quadrangle), on left bank approximately 100 ft downstream of highway bridge, 1.4 mi northwest of Deputy, 1.9 mi upstream from Coffee Creek, 2.4 mi downstream from confluence of Graham Creek and Big Creek, and at mile 50.0.

DRAINAGE AREA.--293 mi².

PERIOD OF RECORD.--November 1947 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 540.00 ft above National Geodetic Vertical Datum of 1929. Prior to June 22, 1955, nonrecording gage at same site. Prior to Aug. 25, 1983, at datum 1.17 ft higher.

REMARKS.--Records fair except those for Aug. 1 - 20 and estimated daily discharges, which are poor.

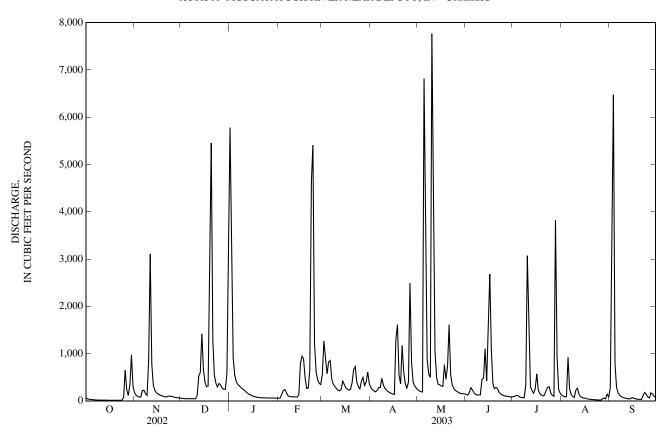
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

5	0.00		550			ZI MEAN V						ann
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2	60 43	170 117	55 51	5,780 2,690	e55 e55	560 1,260	281 238	233 210	133 120	89 96	121 98	271 4,340
3	32	91	48	925	133	900	208	193	184	114	84	6,480
4 5	28 25	80 82	45 45	548 404	216 239	568 821	189 216	187 6,820	278 223	113 83	88 921	788 289
6	23	217	48	344	e178	855	279	4,030	162	71	260	172
7	19	223	44	314	e110	463	279	876	135	68	133	119
8 9	17 16	153 115	46 43	279 253	e90 e88	351 304	474 332	561 496	124 126	64 340	92 73	91 74
10	15	881	45	227	e86	261	264	7,770	124	3,070	225	62
11	15	3,110	108	198	e84	223	225	3,960	454	1,290	265	53
12 13	15 15	771 332	525 598	166 e140	e82 e80	210 238	197 174	1,050 496	480 1,100	300 216	142 90	46 41
14	13	219	1,420	e125	131	416	157	352	417	159	67	48
15	12	169	663	e110	793	349	145	341	1,660	246	60	68
16 17	12 11	144 127	393 300	e95 e87	945 886	278 246	135 1,310	315 307	2,680 1,080	571 232	57 45	54 45
18	11	111	312	e76	474	225	1,610	763	366	153	37	37
19 20	12 12	99 89	1,730 5,450	e72 e67	264 269	245 387	552 356	454 732	255 283	121 104	34 29	33 30
21	11	83	1,290	e64	655	661	1,170	1,610	253	122	26	28
22	12	88	542	e64	4,640	723	602	544	180	221	23	119
23 24	11 10	102 98	371 295	e63 e62	5,410 1,210	399 301	363 270	339 262	146 125	287 295	21 19	176 135
25	74	90	368	e61	614	254	392	220	110	160	18	85
26	646	79	336	e60	445	418	2,490	200	100	116	17	60
27 28	234 111	73 66	270 244	e60 e59	369 343	496 322	815 406	178 159	97 93	97 3,820	40 58	165 142
29	342	62	244	e61		399	315	156	83	926	41	95
30 31	971 304	59	572 1,890	e56 e56		608 364	275	148 145	77 	250 160	140 80	77
TOTAL	3,132	8,100	18,391	13,566	18,944	14,105	14,719	34,107	11,648	13,954	3,404	14,223
MEAN	101 971	270	593 5,450	438	677	455	491	1,100	388 2,680	450	110	474 6,480
MAX MIN	10	3,110 59	43	5,780 56	5,410 55	1,260 210	2,490 135	7,770 145	77	3,820 64	921 17	28
CFSM IN.	0.34 0.40	0.92 1.03	2.02 2.33	1.49 1.72	2.31 2.41	1.55 1.79	1.67 1.87	3.76 4.33	1.33 1.48	1.54 1.77	0.37 0.43	1.62 1.81
										1.//	0.43	1.61
			EAN DATA					`				
MEAN MAX	74.7 912	250 1,438	457 1,723	605 2,896	639 1,826	708 2,055	581 1,957	484 1,967	249 1,552	157 661	94.0 748	66.9 480
(WY)	(2002)	(1980)	(1991) 0.21	(1950) 9.24	(1950)	(1964) 65.2	(1996)	(1983)	(1997)	(1958)	(1992	(1974)
MIN (WY)	0.000 (1954)	0.15 (1964)	(1964)	9.24 (1977)	18.1 (1954)	65.2 (1954)	68.8 (2001)	23.8 (1976)	9.46 (1988)	0.42 (1954)	0.000	
	RY STATI	` ′	, , ,	FOR 2002 C	` '		, ,	3 WATER Y		, í	YEARS 19	
	L TOTAL	71105	•	190,768		Line	168,29		Link	WIIIEK	TE/INS 1.	2003
ANNUA	L MEAN	MEAN		523			46				363	2002
	T ANNUAI Γ ANNUAL									t	587 25.3	2002 1954
HIGHES	T DAILY N	IEAN		10,200			7,77			32,4		Jan 21, 1959
	Γ DAILY M L SEVEN-I	EAN DAY MINIM	IUM		.2 Sep .4 Sep				t 24 t 18			Oct 1, 1948 Oct 1, 1948
	UM PEAK I UM PEAK S				1		12,80			52,2		Jan 21, 1959
ANNUA	L RUNOFF	(CFSM)			.78			23.07 May 1.57	у 5		1.24	Jan 21, 1959
	L RUNOFF ENT EXCE			24 1,270	22			21.37 08		-	16.82 758	
50 PERC	ENT EXCE	EDS		170)		17	76			80	
90 PERC	ENT EXCE	EDS		6	5.2		2	41			3.6	

e Estimated

03366500 MUSCATATUCK RIVER NEAR DEPUTY, IN—Continued

325



03368000 BRUSH CREEK NEAR NEBRASKA, IN

LOCATION.--Lat 39°04'13", long 85°29'10" in NW 4NE 4 sec.11, T.7 N., R.9 E., Jennings County, Hydrologic Unit 05120207, (HOLTON, IN quadrangle), at upstream side of bridge on right bank on county road, 1.5 mi northwest of Nebraska, 2.9 mi northeast of Butlerville, and 3.6 mi upstream from Brush Creek Dam

DRAINAGE AREA.--11.4 mi².

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

REVISED RECORDS .-- WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 717.17 ft above National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to November 1988 at site 100 ft upstream at same datum.

REMARKS.--Records fair except for estimated daily discharges and those below 2.5 ft³/s, which are poor.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN ш AUG SEP 210 0.90 0.10 2.3 1.6 6.8 5.0 1.6 54 5.7 0.08 1.9 1.6 29 3.5 57 5.4 2.4 1.6 0.81 16 6.9 3 0.06 1.9 1.5 14 24 5.1 5.5 19 1.6 0.79 2.6 8.3 0.08 1.8 1.3 16 36 4.8 5.0 7.8 1.4 9.3 1.1 5 2.3 1.5 7.3 e6.2 56 395 5.0 1.4 2.7 0.58 0.15 6.1 6 0.133.4 1.5 7.9 3.7 20 4.8 31 3.7 6.5 14 0.422.3 0.35 0.101.4 5.7 3.2 12 9.6 47 3.3 2.0 1.1 1.9 7.9 e2.4 0.99 8 0.07 1.5 5.1 10 36 3.0 1.9 0.31 ğ 198 1.8 4.5 $e^{2.2}$ 6.5 0.05 1.4 8.6 23 2.7 1.3 0.2810 0.05 96 1.5 3.8 e2.2 6.4 5.7 117 2.4 977 0.96 0.26 5.8 0.05 33 6.0 3.0 e2.3 5.0 45 3.0 0.07 0.22 12 0.05 6.7 8.4 2.7 e2.4 5.6 4.4 15 7.3 9.1 0.04 0.21 0.05 2.6 2.5 15 3.9 9.5 7.2 0.03 0.20 13 4.2 43 2.8 3.3 31 2.5 3.7 7.4 44 14 0.04 3.8 0.20 2.9 9.3 e2.0 24 7.9 3.4 7.2 29 70 0.02 15 0.04 0.27 16 0.03 2.8 6.2 e2.0 12 6.9 3.2 5.9 78 27 0.01 0.25 2.4 4.9 8.1 6.5 0.01 0.21 0.03 e1.9 6.4 6.3 18 17 6.1 7.9 2.1 5.7 7.2 8.5 18 0.03 6.7 e1.8 4.4 4.1 0.01 0.18 19 0.15 2.1 210 e1.7 4.3 6.4 5.2 6.7 9.2 0.003.1 0.152.0 97 8.6 10 7.4 20 7.1 26 2.5 0.000.130.21e1.6 2.1 0.19 2.0 12 42 3.8 0.00 0.12 e1.5 28 15 17 4.8 22 0.15 3.0 7.0 e1.4 401 14 7.5 7.7 3.8 3.0 0.00 1.8 23 0.12 2.6 4.8 e1.3 58 8.9 5.8 5.7 3.2 2.2 0.00 1.2 24 e1.2 0.10 2.3 4.3 19 7.2 4.9 4.7 2.8 1.9 0.00 0.47 25 8.2 2.1 6.5 e1.1 13 14 24 4.2 2.5 1.6 0.00 0.33 26 2.6 9.9 4.0 1.3 0.00 0.29 e1.1 13 2.9 0.63 1.8 4.0 e1.1 8.6 13 3.5 1.2 0.00 2.0 28 0.54 1.7 5.1 9.3 8.9 8.2 3.3 2.2 1.5 0.00 0.84 e1.1 1.9 89 8.1 25 7.0 4.1 1.3 0.00 0.55 1.7 e1.1 ---12 30 9.1 1.8 46 e1.2 5.7 3.3 1.0 0.00 0.43 1.7 101 0.95 31 3.5 e1.5 8.1 3.0 0.64 198.0 285.9 85.95 TOTAL 640.8 664.9 866.8 291.9 1,358.75 115.68 331.0 560.8 21.10 9.53 9.73 MEAN 3.73 6.60 20.7 10.7 23.7 18.1 28.0 43.8 0.68 2.87 MAX 89 96 210 210 401 57 77 395 78 977 93 54 1.7 3.0 0.95 0.00 MIN 0.03 1.3 1.1 2.1 2.08 5.6 32 17 0.12 **CFSM** 0.33 0.58 1.81 0.941.59 0.84 2.45 0.85 3.84 0.06 0.25 2.17 2.83 0.38 0.65 2.09 1.08 1.83 0.93 0.95 4.43 0.07 0.28 IN. STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2003, BY WATER YEAR (WY) 25.6 17.9 19.5 27.4 9.81 7.90 4.47 2.15 MEAN 3.82 10.1 21.6 86.9 51.8 89.6 79.9 45.6 72.041.9 22.4 MAX 58.5 64.5 70.4 88.8 (1986)(1971) (1997)(WY) (2002)(1959)(1998)(1978)(2001)(1991)(1963)(2002)(1962)MIN 0.000 0.0000.000 0.063 1.44 4.22 2.120.760.120.025 0.000 0.000 (1964)(1969)(1976)(1976)(1957)(WY) (1958)(1964)(1964)(1977)(1965)(1970)(1964)SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1956 - 2003 8,203.85 ANNUAL TOTAL 5,421.58 ANNUAL MEAN 22.514.9 14.3 HIGHEST ANNUAL MEAN 31.2 2002 LOWEST ANNUAL MEAN 5.92 1977 HIGHEST DAILY MEAN 710 May 8 977 Jul 10 1.460 Jan 21, 1959 Jul 28 LOWEST DAILY MEAN 0.00 0.00 Aug 19 0.00 Oct 4, 1955 Aug 6, 1956 ANNUAL SEVEN-DAY MINIMUM 0.00 Jul 28 0.00 Aug 19 0.00MAXIMUM PEAK FLOW 6,830 Jul 10 9,360 Jun 10, 1981

1.97

26.77

2.9

0.00

54

12.61

1.30

17.69

3.2

0.10

25

Jul 10

12.99

17.07

2.2

0.00

25

1.26

Jun 10, 1981

MAXIMUM PEAK STAGE

ANNUAL RUNOFF (CFSM

10 PERCENT EXCEEDS

50 PERCENT EXCEEDS

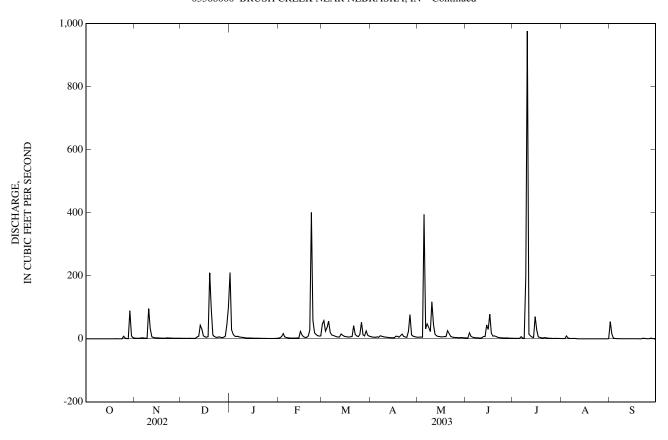
90 PERCENT EXCEEDS

ANNUAL RUNOFF (INCHES)

e Estimated

327

03368000 BRUSH CREEK NEAR NEBRASKA, IN—Continued



03369500 VERNON FORK MUSCATATUCK RIVER AT VERNON, IN

LOCATION.--Lat 38°58'34", long 85°37'13", in $NW_4^1/4SE_4^1/4$ sec. 10, T.6 N., R.8 E., Jennings County, Hydrologic Unit 05120207, (VERNON, IN quadrangle), at left upstream side of bridge, 1 mi southwest of Vernon, 3.1 mi downstream from Otter Creek, and at mile 36.4.

DRAINAGE AREA.--198 mi²

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1305. Prior to October 1979, published as Vernon Fork at Vernon.

REVISED RECORDS.--WSP 1335: 1940, 1953. WSP 1909: 1952-53. WSP 2109: Drainage area. WDR IN-91-1: 1990. WDR IN-95-1: 1991-94 (M). WDR IN-99-1: 1991-94, 1998 (M).

GAGE.--Water-stage recorder. Datum of gage is 585.00 ft above National Geodetic Vertical Datum of 1929, (levels by State of Indiana, Department of Natural Resources). Prior to Jan. 14, 1940, and June 23 to Nov. 13, 1967, nonrecording gage, and Jan. 14, 1940, to June 22, 1967, water-stage recorder at site on right bank. Prior to Aug. 8, 1983, datum 2.30 ft higher.

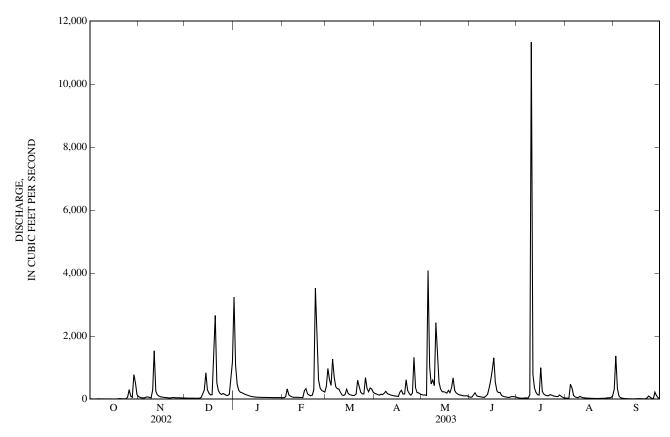
REMARKS.--Records fair except those for June 1 - 11 and estimated daily discharges, which are poor. Diversion above station for municipal water supply of North Vernon and Vernon. Part of this diverson returned above gage as sewage effluent by North Vernon Sewage Treatment Plant. Some regulation at times at low flow by Old Timbers Lake on Jefferson Proving Grounds and Brush Creek Reservoir.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	8.7 6.8 7.5 9.0	80 55 42 39 42	35 34 32 30 32	3,240 1,080 480 287 219	e48 47 79 326 e140	407 975 621 434 1,270	183 162 142 130 158	140 132 136 115 4,080	65 62 132 203 112	52 38 34 31 29	36 33 32 473 352	324 1,370 338 95 48
6	13	69	31	206	e100	700	147	1,040	87	40	116	31
7	12	70	31	183	e72	396	190	481	83	41	71	24
8	9.4	53	31	152	e58	332	249	605	67	34	55	19
9	8.7	44	30	137	e60	325	179	428	63	132	47	16
10	9.4	288	29	119	e59	220	151	2,430	55	11,300	87	14
11	9.4	1,530	52	e100	e58	133	134	1,540	97	789	62	12
12	9.1	261	169	e86	e56	116	121	540	152	359	46	11
13	10	139	286	e77	e52	150	109	322	345	211	41	11
14	8.9	97	837	e70	e56	315	100	234	600	142	35	11
15	8.1	76	302	e64	269	178	95	236	907	134	31	13
16	7.9	67	191	e62	331	144	86	220	1,310	1,000	29	17
17	9.3	60	135	e60	168	126	219	193	538	246	27	17
18	8.1	53	142	e58	129	115	283	278	263	157	25	14
19	15	49	1,420	e56	105	117	164	206	209	127	24	12
20	20	43	2,660	e56	123	162	163	357	214	108	22	11
21	14	38	516	e55	302	599	615	675	120	112	21	11
22	13	45	271	e54	3,520	392	268	279	91	143	21	43
23	13	52	184	e53	2,360	218	175	198	76	126	24	99
24	12	51	149	e52	612	168	122	159	67	106	26	57
25	64	43	179	e52	354	168	191	137	59	91	27	27
26 27 28 29 30 31	300 94 58 778 509 142	44 44 41 39 38	154 123 114 154 691 1,180	e51 e50 e50 e50 e49 e49	278 249 225 	685 351 237 354 321 218	1,330 363 211 199 163	125 115 106 105 108 77	52 79 84 78 73	86 80 131 95 60 40	29 34 44 42 49 109	18 225 113 46 29
TOTAL	2,199.3	3,592	10,224	7,357	10,236	10,947	6,802	15,797	6,343	16,074	2,070	3,076
MEAN	70.9	120	330	237	366	353	227	510	211	519	66.8	103
MAX	778	1,530	2,660	3,240	3,520	1,270	1,330	4,080	1,310	11,300	473	1,370
MIN	6.8	38	29	49	47	115	86	77	52	29	21	11
CFSM	0.36	0.60	1.67	1.20	1.85	1.78	1.15	2.57	1.07	2.62	0.34	0.52
IN.	0.41	0.67	1.92	1.38	1.92	2.06	1.28	2.97	1.19	3.02	0.39	0.58
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1940 - 2003,	BY WATE	R YEAR (W	Y)			
MEAN	50.1	142	262	348	387	464	414	313	170	106	65.6	37.6
MAX	771	986	962	2,049	1,188	1,798	1,402	1,440	963	581	639	284
(WY)	(2002)	(1986)	(1991)	(1950)	(1950)	(1945)	(1998)	(1968)	(1960)	(1962)	(1978)	(1974)
MIN	0.22	0.61	1.03	4.23	24.4	19.0	37.3	8.77	1.80	0.63	0.003	0.19
(WY)	(1941)	(1954)	(1944)	(1977)	(1964)	(1941)	(1941)	(1941)	(1988)	(1954)	(1940)	(1943)

03369500 VERNON FORK MUSCATATUCK RIVER AT VERNON, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	NDAR YEAR	FOR 2003 WA	ΓER YEAR	WATER YEARS	5 1940 - 2003
ANNUAL TOTAL	118,942.2		94,717.3			
ANNUAL MEAN	326		259		229	
HIGHEST ANNUAL MEAN					468	1950
LOWEST ANNUAL MEAN					32.8	1954
HIGHEST DAILY MEAN	8,640	May 13	11,300	Jul 10	31,900	Jan 21, 1959
LOWEST DAILY MEAN	2.3	Sep 12	6.8	Oct 3	0.00	Aug 2, 1940
ANNUAL SEVEN-DAY MINIMUM	2.5	Sep 8	8.8	Oct 12	0.00	Aug 2, 1940
MAXIMUM PEAK FLOW		•	26,600	Jul 10	56,800	Jan 21, 1959
MAXIMUM PEAK STAGE			25.59	Jul 10	32.83	Jan 21, 1959
ANNUAL RUNOFF (CFSM)	1.65		1.31		1.16	
ANNUAL RUNOFF (INCHES)	22.35		17.80		15.73	
10 PERCENT EXCEEDS	687		512		462	
50 PERCENT EXCEEDS	85		100		49	
90 PERCENT EXCEEDS	6.0		18		2.8	



03371500 EAST FORK WHITE RIVER NEAR BEDFORD, IN

LOCATION.--Lat 38°46′10″, long 86°24′30″, in SW 1_4 NE 1_4 sec.21, T.4 N., R.1 E., Lawrence County, Hydrologic Unit 05120208, (BEDFORD EAST, IN quadrangle), on right downstream side of county road bridge, 0.4 mi upstream from Mill Creek, 2.9 mi downstream from Sugar Creek, 3.9 mi northeast of Mitchell, 7.8 mi southeast of Bedford, and at mile 153.3.

DRAINAGE AREA.--3,861 mi².

PERIOD OF RECORD.--May 1939 to current year (high-water records only October 1943 to September 1957).

REVISED RECORDS.--WSP 2109: Drainage area. WDR IN-73-1: 1972.

GAGE.--Water-stage recorder. Datum of gage is 473.59 ft above National Geodetic Vertical Datum of 1929. Prior to Feb. 6, 1940, nonrecording gage, and Feb. 6, 1940 to Sept. 24, 1957, water-stage recorder, at site 9.8 mi downstream at datum 4.39 ft lower.

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

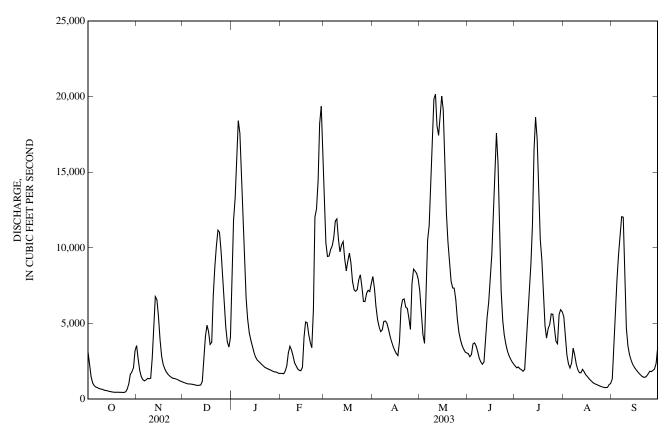
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 47.5 ft, from floodmark determined by U.S. Army Corps of Engineers, discharge, 155,000 ft³/s, at former site.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,120	3,540	1,110	9,070	e1,700	12,700	8,110	7,130	3,010	2,190	5,450	1,330
2	2,310	2,680	1,070	11,800	e1,700	10,300	7,330	5,640	2,810	2,070	4,150	3,050
3	1,450	1,900	1,030	13,300	e1,680	9,430	6,130	4,270	2,960	2,120	2,910	5,070
4	1,050	1,500	1,010	16,200	e1,850	9,460	5,270	3,690	3,650	2,010	2,340	7,930
5	881	1,290	1,010	18,400	2,180	9,890	4,790	6,330	3,720	1,950	2,060	9,540
6	799	1,210	994	17,600	3,060	10,100	4,470	10,500	3,510	1,840	2,370	10,800
7	758	1,270	976	14,400	3,500	10,700	4,580	11,500	3,140	1,970	3,370	12,100
8	700	1,380	950	11,100	3,260	11,800	5,130	14,000	2,710	4,110	2,920	12,000
9	672	1,350	923	8,770	e2,850	11,900	5,160	16,600	2,460	5,910	2,310	8,170
10	652	1,380	910	6,680	e2,400	10,600	5,020	19,800	2,300	7,350	1,940	4,690
11	607	2,690	920	e5,300	e2,200	9,740	4,610	20,200	2,440	8,940	1,750	3,510
12	581	4,800	939	e4,400	e2,000	10,200	4,170	18,100	3,900	11,500	1,740	2,960
13	565	6,780	1,170	e3,900	e1,900	10,400	3,800	17,400	5,390	16,500	1,970	2,590
14	528	6,570	2,650	e3,500	e1,880	9,300	3,490	18,800	6,390	18,600	1,820	2,310
15	506	5,490	4,120	e3,100	e2,100	8,490	3,220	20,000	8,060	17,200	1,620	2,120
16	487	3,940	4,890	e2,800	4,100	9,120	3,010	19,100	9,560	13,700	1,510	1,980
17	470	2,830	4,480	e2,600	e5,100	9,660	2,880	15,400	12,100	10,600	1,370	1,850
18	452	2,300	3,620	e2,500	e5,050	9,010	3,810	12,200	15,400	9,190	1,260	1,720
19	460	2,010	3,760	e2,400	e4,300	7,780	6,010	10,400	17,600	6,810	1,160	1,610
20	457	1,800	6,820	e2,300	e3,750	7,220	6,570	8,980	15,600	4,880	1,070	1,510
21	452	1,650	8,750	e2,200	e3,400	7,130	6,630	7,800	10,900	4,030	1,010	1,450
22	452	1,550	10,100	e2,100	e5,900	7,240	6,080	7,350	7,130	4,650	966	1,440
23	446	1,460	11,200	e2,050	12,000	7,890	6,000	7,340	5,190	4,930	921	1,530
24	443	1,390	11,000	e2,000	12,600	8,220	5,370	6,570	4,220	5,640	873	1,690
25	486	1,370	9,780	e1,950	14,500	7,430	4,610	5,310	3,630	5,610	829	1,850
26 27 28 29 30 31	650 994 1,630 1,800 2,080 3,170	1,340 1,310 1,250 1,200 1,150	8,120 6,450 4,740 3,790 3,440 4,080	e1,900 e1,850 e1,800 e1,800 e1,750 e1,700	18,200 19,400 16,300 	6,460 6,450 7,000 7,200 7,110 7,650	7,620 8,600 8,470 8,310 7,950	4,420 3,910 3,560 3,320 3,120 3,060	3,190 2,880 2,650 2,470 2,320	4,780 3,830 3,670 5,570 5,910 5,790	795 767 766 783 967 1,030	1,830 1,900 1,990 2,360 3,400
TOTAL	30,108	70,380	124,802	181,220	158,860	277,580	167,200	315,800	171,290	203,850	54,797	116,280
MEAN	971	2,346	4,026	5,846	5,674	8,954	5,573	10,190	5,710	6,576	1,768	3,876
MAX	3,170	6,780	11,200	18,400	19,400	12,700	8,600	20,200	17,600	18,600	5,450	12,100
MIN	443	1,150	910	1,700	1,680	6,450	2,880	3,060	2,300	1,840	766	1,330
CFSM	0.25	0.61	1.04	1.51	1.47	2.32	1.44	2.64	1.48	1.70	0.46	1.00
IN.	0.29	0.68	1.20	1.75	1.53	2.67	1.61	3.04	1.65	1.96	0.53	1.12
STATIST	ICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1940 - 2003	BY WATE	R YEAR (W	YY)			
MEAN	1,222	2,427	4,581	4,971	6,425	8,007	7,458	6,780	3,967	2,573	1,812	1,163
MAX	8,436	15,520	18,290	15,010	15,610	18,710	15,180	30,650	16,310	9,649	11,280	5,234
(WY)	(2002)	(1994)	(2002)	(1991)	(1982)	(1964)	(1989)	(1996)	(1997)	(1958)	(1979)	(1989)
MIN	228	284	272	300	712	450	730	382	622	603	291	244
(WY)	(1941)	(2000)	(1964)	(1977)	(1941)	(1941)	(1941)	(1941)	(1988)	(1941)	(1941)	(1941)

03371500 EAST FORK WHITE RIVER NEAR BEDFORD, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	ENDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEAR	S 1940 - 2003
ANNUAL TOTAL	2,252,377		1,872,167			
ANNUAL MEAN	6,171		5,129		4,272	
HIGHEST ANNUAL MEAN					8,192	2002
LOWEST ANNUAL MEAN					643	1941
HIGHEST DAILY MEAN	49,100	May 17	20,200	May 11	78,200	May 1, 1996
LOWEST DAILY MEAN	370	Sep 19	443	Oct 24	138	Sep 7, 1941
ANNUAL SEVEN-DAY MINIMUM	377	Sep 13	452	Oct 18	196	Sep 5, 1941
MAXIMUM PEAK FLOW		•	20,900	May 10	80,500	May 1, 1996
MAXIMUM PEAK STAGE			21.94	May 10	36.32	May 1, 1996
ANNUAL RUNOFF (CFSM)	1.60		1.33	•	1.11	•
ANNUAL RUNOFF (INCHES)	21.70		18.04		15.03	
10 PERCENT EXCEEDS	16,200		11,600		10,500	
50 PERCENT EXCEEDS	3,320		3,510		2,200	
90 PERCENT EXCEEDS	554		972		485	



03371520 BACK CREEK AT LEESVILLE, IN

LOCATION.--Lat $38^{\circ}50'48''$, long $86^{\circ}18'06''$, in $SW^{1}/_{4}SE^{1}/_{4}$ sec. 21, T.5 N., R.2 E., Lawrence County, Hydrologic Unit 05120208, (TUNNELTON, IN quadrangle), 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 miles upstream from mouth.

DRAINAGE AREA.--24.1 mi².

PERIOD OF RECORD.--October 1970 to October 2003 (discontinued).

REVISED RECORDS.--WDR IN-72-1: 1971.

GAGE.--Water-stage recorder. Datum of gage is 575.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except for estimated daily discharges and those below 1.0 ft³/s, which are poor.

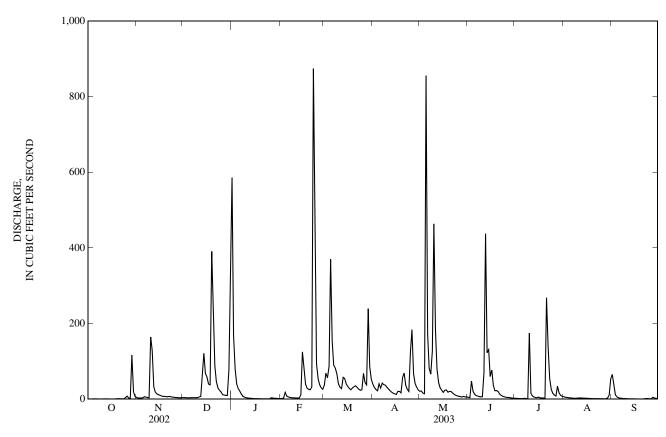
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1913 reached a stage of 18.1 ft from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.66	4.4	4.2	586	e1.5	37	40	21	5.1	2.2	6.3	65
2	0.60	3.2	4.1	168	e1.7	69	31	22	4.2	2.2	5.2	38
3	0.61	3.1	3.7	79	e3.1	56	25	16	48	1.8	4.6	11
4	0.77	3.1	3.5	41	e18	87	22	14	21	1.7	4.0	6.1
5	1.0	3.4	3.8	28	e8.0	370	41	855	13	1.4	3.5	3.9
6	0.86	6.5	4.0	21	e6.0	153	29	172	9.4	1.7	3.1	2.8
7	0.70	5.4	4.0	e13	e4.5	90	42	82	8.1	2.3	2.7	2.2
8	0.60	4.3	3.9	e7.1	e3.9	82	38	66	6.9	1.7	2.4	1.9
9	0.60	3.8	4.0	e5.2	e3.5	67	37	127	6.1	1.7	2.4	1.6
10	0.65	164	4.1	e3.9	e3.3	41	32	463	6.5	175	3.0	1.4
11	0.72	129	5.7	e3.1	e3.2	32	27	183	69	15	3.3	1.2
12	0.72	33	7.3	e2.6	e3.1	28	22	80	437	8.6	3.1	1.0
13	0.78	19	59	e2.2	e3.4	58	19	44	123	5.7	2.8	0.92
14	0.70	14	121	e1.8	e11	55	16	30	131	4.2	2.7	0.91
15	0.64	12	69	e1.5	e125	40	14	24	60	3.9	2.4	0.83
16	0.60	10	58	e1.5	e80	34	12	18	77	5.3	2.2	0.72
17	0.58	8.3	40	e1.5	e40	28	21	24	37	3.4	2.0	0.66
18	0.53	7.3	38	e1.3	e29	25	21	24	22	3.4	1.8	0.60
19	0.93	7.4	391	e1.2	e26	30	17	18	23	3.1	1.6	0.58
20	1.4	6.7	281	e1.1	e25	33	57	20	21	2.4	1.5	0.52
21	1.2	6.2	88	e1.0	e32	35	69	20	13	268	1.5	0.49
22	1.0	7.3	47	e0.96	874	31	37	16	10	138	1.3	1.4
23	1.0	6.3	29	e0.91	294	26	26	13	7.9	53	1.4	1.9
24	1.1	5.5	24	e0.88	94	23	21	10	6.3	26	1.3	1.4
25	4.5	5.0	e19	e0.87	53	25	125	8.7	5.0	15	1.2	1.1
26 27 28 29 30 31	8.0 2.8 2.5 116 21 7.3	4.4 4.1 3.8 3.6 4.1	e12 e11 e10 e9.6 77 238	e3.6 e3.3 e2.0 e2.4 e1.9 e1.7	38 30 26 	68 44 38 239 85 53	184 67 42 32 24	7.8 6.6 5.7 7.2 5.6 6.1	4.6 4.4 3.4 2.9 2.4	11 8.4 34 17 10 7.7	1.1 1.0 0.95 3.0 11 53	1.0 5.2 2.9 2.0 1.7
TOTAL	181.05	498.2	1,673.9	989.52	1,840.2	2,082	1,190	2,409.7	1,188.2	834.8	137.35	160.93
MEAN	5.84	16.6	54.0	31.9	65.7	67.2	39.7	77.7	39.6	26.9	4.43	5.36
MAX	116	164	391	586	874	370	184	855	437	268	53	65
MIN	0.53	3.1	3.5	0.87	1.5	23	12	5.6	2.4	1.4	0.95	0.49
CFSM	0.24	0.69	2.24	1.32	2.73	2.79	1.65	3.23	1.64	1.12	0.18	0.22
IN.	0.28	0.77	2.58	1.53	2.84	3.21	1.84	3.72	1.83	1.29	0.21	0.25
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1971 - 2003	BY WATE	R YEAR (W	YY)			
MEAN	10.0	31.2	44.7	42.4	53.0	65.5	69.5	50.8	25.4	20.2	15.5	6.47
MAX	62.3	132	141	147	105	168	176	214	159	195	92.4	60.9
(WY)	(2002)	(1986)	(2002)	(1982)	(1979)	(1989)	(1972)	(2002)	(1997)	(1973)	(1979)	(1974)
MIN	0.000	0.008	1.71	0.98	5.78	9.74	6.84	2.70	0.25	0.014	0.037	0.000
(WY)	(1989)	(2000)	(2000)	(1977)	(1992)	(1981)	(2001)	(1988)	(1988)	(1991)	(1999)	(1988)

03371520 BACK CREEK AT LEESVILLE, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	NDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEARS	3 1971 - 2003
ANNUAL TOTAL	20,922.68		13,185.85			
ANNUAL MEAN	57.3		36.1		36.1	
HIGHEST ANNUAL MEAN					74.2	2002
LOWEST ANNUAL MEAN					14.4	1987
HIGHEST DAILY MEAN	1,670	May 13	874	Feb 22	5,000	Jul 21, 1973
LOWEST DAILY MEAN	0.00	Jul 29	0.49	Sep 21	0.00	Oct 4, 1970
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 29	0.63	Sep 15	0.00	Jul 12, 1975
MAXIMUM PEAK FLOW			2,530	Jul 21	15,300	Jul 21, 1973
MAXIMUM PEAK STAGE			7.12	Jul 21	14.00	Jul 21, 1973
ANNUAL RUNOFF (CFSM)	2.38		1.50		1.50	
ANNUAL RUNOFF (INCHES)	32.30		20.35		20.36	
10 PERCENT EXCEEDS	148		80		77	
50 PERCENT EXCEEDS	7.2		7.3		9.0	
90 PERCENT EXCEEDS	0.00		1.0		0.29	



03372500 SALT CREEK NEAR HARRODSBURG, IN

LOCATION.--Lat 39°00'16", long 86°30'31", in NE¹/₄NW¹/₄ sec.34, T.7 N., R.1 W., Monroe County, Hydrologic Unit 05120208, (CLEAR CREEK, IN quadrangle), on right bank 0.35 mi downstream from Monroe Lake, 0.9 mi upstream from Clear Creek, 2.2 mi southeast of Harrodsburg, and 25.7 mi upstream from mouth.

DRAINAGE AREA.--432 mi².

PERIOD OF RECORD.--May 1955 to September 1976 (discharge). October 1976 to September 2001 (discharge provided by U.S. Army Corps of Engineers). October 2001 to current year (stage-only).

REVISED RECORDS.--WSP 1705: 1959. WSP 1725: 1956(M). WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 480.00 ft above National Geodetic Vertical Datum of 1929, (levels by U.S. Army Corps of Engineers). Oct. 1, 1960, to Sept. 30, 1974, water-stage recorder 0.1 mi upstream from site described in "LOCATION" paragraph. Prior to Oct. 1, 1960, nonrecording gage at site 0.7 mi upstream at datum 2.41 ft higher.

REMARKS.--Flow regulated by U.S. Army Corps of Engineers from Monroe Lake since April 1966.

COOPERATION.-- Records of daily discharge provided by U.S. Army Corps of Engineers October 1976 to September 2001.

EXTREMES FOR PERIOD OF RECORD.--(October 2001 to current year) maximum gage height, 24.08 ft, Dec. 17, 2001; minimum gage height, 5.21 ft, Aug. 21, 2002. (May 1955 to September 1976) maximum discharge, 22,000 ft³/s, June 25, 1960, maximum gage height, 35.35 ft, May 9, 1961. No flow Sept. 29 to Dec. 2, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 20.49 ft, June 16-17; minimum gage height, 5.54 ft, Aug. 21, 25-26.

GAGE HEIGHT, FEET WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.68	6.09	5.77	13.45	6.85	14.20	13.95	14.77	16.57	14.63	7.53	14.71
2	5.64	6.05	5.77	10.09	6.85	15.48	13.80	13.96	16.53	14.61	7.55	8.27
3	5.64	6.01	5.76	9.03	6.97	15.50	13.69	13.73	16.76	13.37	6.36	6.80
4	7.21	5.96	5.77	8.64	7.31	15.77	13.67	13.85	16.59	10.13	6.33	6.35
5	6.01	5.97	5.77	8.56	7.04	17.43	10.53	17.40	15.51	10.00	6.33	6.17
6	5.81	6.09	5.77	8.32	6.97	16.48	10.38	10.91	12.87	7.27	6.29	5.99
7	5.72	5.97	5.76	8.09	6.94	16.02	10.57	11.42	10.16	7.25	5.63	5.88
8	5.66	5.94	5.76	10.76	6.95	16.07	10.44	11.47	10.08	7.40	5.60	5.81
9	5.64	5.91	5.75	13.87	6.90	15.85	10.38	12.05	10.07	7.77	5.64	5.79
10	5.63	10.59	5.76	15.15	6.91	15.53	10.33	13.92	10.13	11.66	5.61	5.75
11	5.63	7.28	5.77	15.13	6.92	15.35	7.65	12.03	7.93	9.00	5.70	5.73
12	5.63	6.55	5.84	15.09	6.89	15.25	7.59	9.77	10.85	8.48	5.65	5.70
13	5.64	6.25	6.58	15.04	6.89	16.06	7.55	8.87	9.07	8.14	5.63	5.68
14	5.62	6.13	7.24	15.01	7.08	15.65	7.52	8.60	14.13	8.00	5.59	5.68
15	5.63	6.07	6.72	14.95	9.40	16.57	7.52	8.72	9.78	11.03	5.65	5.68
16	5.62	5.97	6.45	14.91	8.33	16.52	7.51	8.36	20.49	8.57	5.60	5.67
17	5.61	5.92	6.28	13.72	10.57	16.44	7.83	8.41	15.78	8.05	5.59	5.65
18	5.64	5.89	6.33	13.61	10.45	16.36	7.59	8.04	14.71	10.97	5.57	5.67
19	6.12	6.00	13.52	12.13	10.65	14.45	7.53	7.90	14.75	12.53	5.56	5.67
20	5.75	5.89	10.25	7.53	11.21	14.07	7.76	7.85	14.29	12.47	5.55	5.67
21	5.68	5.89	8.81	7.49	11.22	15.13	7.85	12.23	13.97	16.41	5.55	5.67
22	5.65	6.01	8.37	6.87	17.56	15.12	7.65	15.01	15.01	13.64	5.56	6.29
23	5.65	5.89	10.91	6.85	11.84	15.04	7.58	16.27	14.99	14.52	5.56	5.84
24	5.65	5.84	12.72	6.85	9.28	14.96	10.16	16.33	14.92	14.09	5.56	5.73
25	9.01	5.82	12.65	6.84	8.69	13.84	12.26	16.29	14.85	13.89	5.55	5.69
26 27 28 29 30 31	6.33 6.00 5.90 9.17 6.69 6.25	5.80 5.78 5.77 5.80 5.77	12.56 12.52 12.49 10.79 12.00 14.89	6.83 6.84 6.83 6.84 6.83 6.84	11.13 12.88 14.18 	13.76 14.87 11.04 12.25 12.92 14.07	11.13 10.68 10.55 12.35 13.69	16.81 16.78 16.77 16.75 16.68 16.63	14.82 14.80 14.75 14.69 14.65	13.76 13.69 12.68 12.25 12.13 12.08	5.56 5.56 5.57 7.65 5.98 6.85	5.91 6.59 6.01 5.94 5.81
MEAN	6.05	6.16	8.43	10.29	9.10	15.10	9.92	12.86	13.82	11.31	5.93	6.26
MAX	9.17	10.59	14.89	15.15	17.56	17.43	13.95	17.40	20.49	16.41	7.65	14.71
MIN	5.61	5.77	5.75	6.83	6.85	11.04	7.51	7.85	7.93	7.25	5.55	5.65

WTR YR 2003 MEAN 9.61 MAX 20.49 MIN 5.55

03372500 SALT CREEK NEAR HARRODSBURG, IN—Continued

WATER-QUALITY RECORDS

INSTRUMENTATION.--Temperature recorder.

PERIOD OF RECORD .--

 $WATER\ TEMPERATURE. -- August\ 1966\ to\ September\ 1967;\ October\ 1968\ to\ September\ 1976\ and\ September\ 1988\ to\ current\ year.$

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 28.9°C, July 10-11, 1973 and July 30, 1975; minimum, 0.7°C, Feb. 3-5, 1996.

EXTREMES FOR CURRENT YEAR.-- WATER TEMPERATURE: Maximum, 23.1°C, Oct. 1-2, minimum, 2.3°C, Jan. 23, 26, 30.

TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER	₹	N	OVEMBE	ER	D	ECEMBE	ER	Ţ	JANUARY	Y
1	23.1	20.5	22.5	14.6	13.9	14.1	7.9	7.6	7.7	5.1	4.7	4.8
2	23.1	22.3	22.6	14.2	13.5	13.9	8.3	7.2	7.7	4.7	4.7	4.7
3	22.7	22.3	22.4	13.9	13.5	13.5	7.2	6.5	6.9	4.7	4.4	4.4
4	22.7	22.3	22.5	13.5	13.1	13.4	6.5	5.8	6.4	4.7	4.4	4.5
5	22.3	21.5	22.1	13.1	13.1	13.1	6.5	5.8	6.0	4.7	4.4	4.5
6	22.3	21.5	21.8	13.1	12.4	12.7	6.1	5.4	5.8	4.4	4.0	4.4
7	21.9	21.1	21.5	12.8	12.4	12.5	6.1	5.4	5.7	4.4	4.4	4.4
8	21.5	20.7	21.2	12.8	12.0	12.3	6.1	5.4	5.9	4.4	4.4	4.4
9	21.1	20.7	20.8	12.8	12.0	12.5	5.8	5.1	5.4	4.7	4.4	4.5
10	20.7	20.7	20.7	13.1	12.4	12.8	5.8	5.4	5.5	4.4	4.0	4.4
11	20.7	20.3	20.7	13.1	12.4	12.7	5.4	4.7	5.2	4.0	4.0	4.0
12	20.7	20.3	20.5	12.4	12.0	12.3	5.8	5.4	5.5	4.0	4.0	4.0
13	20.3	19.5	20.0	12.4	11.7	12.0	5.4	4.7	5.2	4.0	3.7	3.9
14	19.9	19.1	19.5	12.4	11.7	12.1	5.4	4.7	5.0	4.0	3.3	3.5
15	19.5	19.1	19.2	12.0	11.3	11.8	5.4	5.1	5.2	3.7	3.3	3.4
16	19.1	18.7	18.9	11.3	11.0	11.2	5.4	4.7	5.1	3.7	3.3	3.5
17	18.7	18.3	18.5	11.0	10.6	10.8	5.1	5.1	5.1	3.3	3.0	3.1
18	18.7	17.9	18.1	11.0	10.3	10.6	5.8	5.1	5.5	3.3	3.0	3.1
19	18.3	17.6	18.0	11.3	10.6	10.8	5.8	5.8	5.8	3.0	2.6	2.8
20	17.9	17.6	17.6	11.0	10.3	10.6	5.8	5.4	5.7	2.6	2.6	2.6
21	17.6	17.2	17.3	11.0	9.9	10.4	5.8	5.4	5.5	2.6	2.6	2.6
22	17.6	16.8	17.2	10.3	9.9	9.9	5.8	5.4	5.5	2.6	2.6	2.6
23	17.2	16.8	17.0	10.3	9.6	9.9	5.4	5.1	5.4	2.6	2.3	2.6
24	17.2	16.4	16.8	10.3	9.6	9.9	5.4	5.1	5.2	2.6	2.6	2.6
25	16.8	16.4	16.5	9.9	9.2	9.8	5.1	4.7	4.8	2.6	2.6	2.6
26 27 28 29 30 31	16.4 16.1 16.4 15.7 14.9 14.9	16.1 15.7 15.7 14.9 14.6 14.6	16.3 16.0 15.9 15.2 14.8 14.6	9.6 9.2 8.9 9.3 8.6	8.9 8.5 8.5 8.5 7.6	9.2 8.9 8.7 8.7 8.2	4.7 4.7 4.7 4.7 4.7 5.1	4.7 4.7 4.4 4.4 4.4 4.7	4.7 4.7 4.7 4.4 4.6 4.9	2.6 2.6 2.6 2.6 2.6 2.6	2.3 2.3 2.3 2.3 2.3 2.6	2.6 2.4 2.3 2.4 2.5 2.6
MONTH	23.1	14.6	18.9	14.6	7.6	11.3	8.3	4.4	5.5	5.1	2.3	3.4

03372500 SALT CREEK NEAR HARRODSBURG, IN—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN FEBRUARY	MEAN	MAX	MIN MARCH	MEAN	MAX	MIN APRIL	MEAN	MAX	MIN MAY	MEAN
1 2 3 4 5	2.6 3.0 3.0 3.0 3.3	2.6 2.6 2.6 2.6 2.6	2.6 2.7 3.0 2.9 3.0	3.3 3.3 3.4 3.4 3.4	3.3 3.3 3.0 3.4 3.4	3.3 3.3 3.3 3.4 3.4	10.1 10.5 11.2 11.9 12.2	9.4 10.1 10.5 11.2 11.5	9.7 10.2 10.9 11.5 11.8	17.0 17.4 17.8 17.4 17.4	15.1 15.1 15.9 17.4 15.5	15.7 16.2 16.8 17.4 16.5
6 7 8 9 10	3.3 3.3 3.3 3.3 3.3	3.0 3.0 3.0 3.0 3.0	3.0 3.0 3.1 3.2 3.2	3.8 3.8 3.8 4.1 4.1	3.4 3.8 3.8 3.8 4.1	3.6 3.8 3.8 4.0 4.1	11.5 11.5 11.2 11.2 11.5	11.2 11.2 11.2 10.8 10.5	11.4 11.3 11.2 10.8 11.0	15.9 15.9 15.9 17.0 16.3	15.1 15.5 15.1 15.1 15.1	15.6 15.7 15.5 16.0 15.6
11 12 13 14 15	3.3 3.3 3.3 3.3 3.3	3.0 3.0 3.0 3.3 3.3	3.1 3.1 3.2 3.3 3.3	4.5 4.5 4.8 4.8 5.2	4.1 4.5 4.5 4.5 4.8	4.3 4.5 4.5 4.7 4.9	12.2 12.6 12.2 12.2 12.6	10.8 10.8 11.2 11.5 10.8	11.5 11.7 11.4 11.9 11.7	16.3 15.9 16.6 17.0 17.4	14.8 15.1 15.5 15.9 16.3	15.3 15.3 16.0 16.6 16.6
16 17 18 19 20	3.3 3.3 3.3 3.3 3.3	3.0 3.3 3.3 3.3 3.3	3.3 3.3 3.3 3.3 3.3	5.2 6.6 7.7 7.7 7.3	4.8 5.2 6.2 6.9 6.9	4.9 5.7 6.7 7.5 7.0	12.6 13.3 13.3 13.7 14.1	11.5 12.6 12.6 12.6 12.6	12.0 13.1 13.0 13.0 13.3	17.0 17.8 17.8 18.1 17.8	16.3 16.6 17.4 17.0 16.6	16.7 17.2 17.5 17.2 17.2
21 22 23 24 25	3.3 3.3 3.3 3.3 3.3	3.3 3.0 3.0 3.0 3.0	3.3 3.1 3.2 3.2 3.2	8.4 8.4 8.0 9.8	6.9 6.9 6.6 7.3 7.3	7.7 7.5 7.6 7.6 8.7	14.1 13.7 13.7 14.8 15.1	11.9 12.2 12.2 13.3 14.8	12.6 13.0 13.0 14.2 14.9	19.7 20.1 20.1 20.1 19.3	16.6 19.3 19.3 19.3 19.3	18.5 19.5 19.5 19.5 19.3
26 27 28 29 30 31	3.3 3.3 3.3 	3.3 3.3 3.3 	3.3 3.3 3.3 	9.4 9.4 10.5 10.5 10.1 10.1	8.4 8.4 9.4 10.1 9.8 9.4	8.7 8.7 9.9 10.4 10.0 9.8	15.1 14.8 15.1 15.1 17.4	14.4 14.4 14.4 14.8 14.8	14.9 14.8 14.9 15.1 15.6	19.7 20.1 20.1 19.7 19.7 20.1	19.3 19.3 19.3 18.9 18.9	19.5 19.7 19.7 19.3 19.5 19.8
MONTH	3.3	2.6	3.1	10.5	3.0	6.0	17.4	9.4	12.5	20.1	14.8	17.4
		JUNE			JULY			AUGUST		S	ЕРТЕМВЕ	ER
1 2 3 4	20.1 20.1	JUNE 19.3 19.7 	19.7 19.9 	 	JULY	 	 	AUGUST 	 	S:	EPTEMBF 	ER
2 3 4 5	20.1	19.3 19.7	19.9						 			
2 3 4 5 6 7 8	20.1	19.3 19.7 	19.9 	 	 	 	 	 	 	 	 	
2 3 4 5 6 7	20.1	19.3 19.7 	19.9 	 	 		 		 	 	 	
2 3 4 5 6 7 8 9 10	20.1	19.3 19.7 	19.9 	 	 	 	 	 	 	 	 	
2 3 4 5 6 7 8 9 10 11 12 13	20.1	19.3 19.7 	19.9				 			 		
2 3 4 5 6 7 8 9 10	20.1	19.3 19.7 	19.9 				======================================			 	 	
2 3 4 5 6 7 8 9 10 11 12 13 14	20.1	19.3 19.7 	19.9				 					
2 3 4 5 6 7 8 9 10 11 12 13 14 15	20.1	19.3 19.7 	19.9							 		
2 3 4 5 6 7 8 9 10 11 12 13 14 15	20.1	19.3 19.7 	19.9				 					
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	20.1	19.3 19.7 	19.9				 					
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	20.1	19.3 19.7	19.9									
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	20.1	19.3 19.7	19.9									
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	20.1	19.3 19.7	19.9									
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	20.1	19.3 19.7	19.9									
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	20.1	19.3 19.7	19.9									
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	20.1	19.3 19.7	19.9									

03373500 EAST FORK WHITE RIVER AT SHOALS, IN

LOCATION.--Lat 38°40'02", long 86°47'32", in SW 4/NW 4/4 sec.30, T.3 N., R.3 W., Martin County, Hydrologic Unit 05120208, (SHOALS, IN quadrangle), on upstream left bank, 30 ft upstream of Highway 50 bridge at Shoals, 1.0 mi upstream from Beaver Creek, 6.5 mi downstream from Indian Creek, and at mile 105.4.

DRAINAGE AREA.--4,927 mi².

PERIOD OF RECORD.—June 1903 to July 1906, October 1908 to September 1916, June 1923 to current year. Monthly discharge only for some periods, published in WSP 1305. Published as East Branch White River at Shoals, 1903-06, 1908-16. Gage-height records collected at same site since May 1908 are contained in reports of the National Weather Service.

REVISED RECORDS.--WSP 353: 1912. WSP 1335: 1903-6. WSP 2109: Drainage area. WDR IN-91-1: Location.

GAGE.--Water-stage recorder. Datum of gage is 442.25 ft above National Geodetic Vertical Datum of 1929. Oct. 26, 1932 to Dec. 12, 1989 and Aug. 9, 1999 to present, at current site. Water-stage recorder, located 440 ft downstream of U.S. Highway bridge, Dec. 13, 1989 to Aug. 9, 1999. See WSP 1725 for history of changes prior to Oct. 26, 1932.

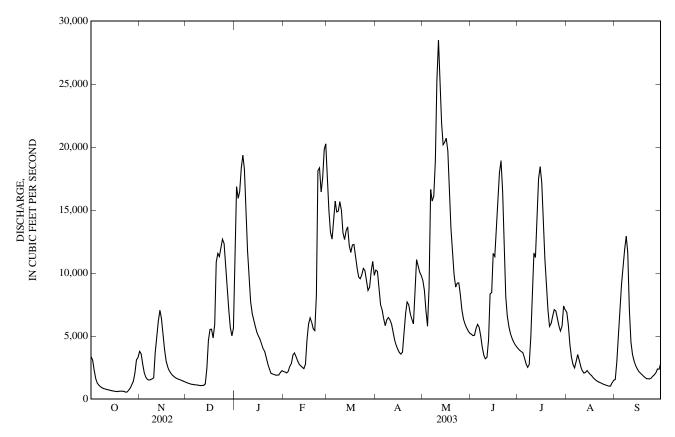
REMARKS.--Records good except for estimated daily discharges, which are poor. Flow partially regulated by upstream reservoir.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,390	3,790	1,320	11,600	2,190	17,900	10,200	9,440	5,160	4,000	6,890	1,570
2	3,110	3,600	1,270	16,900	2,150	15,000	10,100	8,630	5,040	3,870	5,890	2,950
3	2,300	2,770	1,230	15,900	2,080	13,200	8,790	7,070	5,070	3,770	4,320	4,960
4	1,620	2,110	1,190	16,500	2,200	12,700	7,500	5,790	5,590	3,680	3,330	6,820
5	1,270	1,740	1,170	18,300	2,590	14,000	7,110	8,790	5,930	3,270	2,750	9,110
6	1,110	1,580	1,150	19,400	2,820	15,700	6,380	16,600	5,710	2,810	2,490	10,600
7	987	1,510	1,140	18,200	3,500	14,900	5,830	15,700	5,010	2,530	3,000	11,900
8	905	1,550	1,120	15,000	3,670	14,900	6,300	16,100	4,130	2,740	3,540	12,900
9	840	1,610	1,100	11,800	3,370	15,700	6,470	18,900	3,490	4,910	3,070	11,600
10	805	1,690	1,080	9,520	3,050	15,000	6,300	25,200	3,200	8,400	2,560	7,100
11	775	3,690	1,090	7,720	2,780	13,200	5,970	28,500	3,310	11,600	2,250	4,520
12	742	4,930	1,100	6,780	2,650	12,700	5,360	25,800	4,700	11,200	2,070	3,550
13	711	6,190	1,210	6,250	2,530	13,400	4,700	21,900	8,340	14,000	2,120	3,040
14	678	7,050	2,460	5,750	2,420	13,700	4,290	20,200	8,450	17,500	2,270	2,680
15	653	6,400	4,640	5,290	2,760	12,200	3,970	20,400	11,600	18,400	2,110	2,410
16	635	5,190	5,530	5,010	4,750	11,600	3,700	20,700	11,300	17,200	1,960	2,210
17	617	3,880	5,550	4,740	5,950	12,200	3,570	19,700	13,500	13,800	1,840	2,070
18	603	3,010	4,860	4,370	6,450	12,300	3,730	16,600	16,100	11,100	1,690	1,960
19	635	2,560	5,930	3,990	6,100	11,300	5,070	13,500	18,000	9,350	1,570	1,830
20	636	2,260	10,900	3,780	5,580	10,400	6,790	11,400	18,900	7,030	1,470	1,720
21	635	2,050	11,600	3,280	5,440	9,700	7,710	9,860	16,500	5,770	1,390	1,620
22	618	1,900	11,300	2,770	8,260	9,560	7,490	8,890	11,700	e6,000	1,330	1,620
23	558	1,790	12,000	e2,400	18,100	9,850	6,760	9,200	8,150	e6,600	1,270	1,600
24	571	1,700	12,700	e2,050	18,400	10,400	6,350	9,220	6,610	e7,100	1,210	1,670
25	700	1,630	12,400	e2,000	16,400	10,200	5,970	8,300	5,760	e7,000	1,160	1,820
26 27 28 29 30 31	863 1,140 1,400 2,050 3,120 3,310	1,580 1,530 1,480 1,430 1,370	10,900 9,000 7,080 5,680 5,020 5,640	e1,950 e1,900 e1,910 1,920 2,120 2,260	17,500 19,800 20,300 	9,390 8,620 8,880 10,200 10,900 9,820	8,660 11,100 10,600 10,100 9,830	7,060 6,340 5,970 5,660 5,420 5,230	5,230 4,850 4,540 4,320 4,150	e6,400 e5,800 e5,400 e5,800 e7,400 7,090	1,110 1,070 1,030 1,040 1,300 1,490	1,930 2,090 2,390 2,380 2,840
TOTAL	37,987	83,570	158,360	231,360	193,790	379,520	206,700	412,070	234,340	241,520	70,590	125,460
MEAN	1,225	2,786	5,108	7,463	6,921	12,240	6,890	13,290	7,811	7,791	2,277	4,182
MAX	3,390	7,050	12,700	19,400	20,300	17,900	11,100	28,500	18,900	18,400	6,890	12,900
MIN	558	1,370	1,080	1,900	2,080	8,620	3,570	5,230	3,200	2,530	1,030	1,570
CFSM	0.25	0.57	1.04	1.51	1.40	2.48	1.40	2.70	1.59	1.58	0.46	0.85
IN.	0.29	0.63	1.20	1.75	1.46	2.87	1.56	3.11	1.77	1.82	0.53	0.95
STATIST	STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 2003, BY WATER YEAR (WY)											
MEAN	1,687	2,948	5,467	8,554	8,665	10,990	10,120	7,881	4,702	3,035	1,973	1,405
MAX	12,520	18,370	21,600	47,640	30,880	34,300	24,000	35,120	19,290	13,520	15,220	9,154
(WY)	(1911)	(1994)	(2002)	(1937)	(1950)	(1945)	(1913)	(1996)	(1997)	(1958)	(1979)	(1926)
MIN	262	293	305	432	589	562	1,029	529	696	365	265	233
(WY)	(1941)	(1955)	(1964)	(1931)	(1931)	(1941)	(1915)	(1941)	(1936)	(1954)	(1936)	(1954)

03373500 EAST FORK WHITE RIVER AT SHOALS, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	ENDAR YEAR	FOR 2003 WA	ATER YEAR	WATER YEARS 1904 - 2003		
ANNUAL TOTAL	2,911,062		2,375,267				
ANNUAL MEAN	7,976		6,508		5,599		
HIGHEST ANNUAL MEAN					10,370	1950	
LOWEST ANNUAL MEAN					855	1941	
HIGHEST DAILY MEAN	54,600	May 14	28,500	May 11	155,000	Mar 28, 1913	
LOWEST DAILY MEAN	533	Sep 14	558	Oct 23	64	Oct 6, 1935	
ANNUAL SEVEN-DAY MINIMUM	575	Sep 10	608	Oct 18	168	Oct 3, 1935	
MAXIMUM PEAK FLOW		•	28,800	May 11	160,000	Mar 28, 1913	
MAXIMUM PEAK STAGE			18.91	May 11	42.20	Mar 28, 1913	
ANNUAL RUNOFF (CFSM)	1.62		1.32	•	1.14		
ANNUAL RUNOFF (INCHES)	21.98		17.93		15.44		
10 PERCENT EXCEEDS	19,900		15,000		14,600		
50 PERCENT EXCEEDS	4,930		5,020		2,680		
90 PERCENT EXCEEDS	738		1,200		532		



03373980 WHITE RIVER ABOVE PETERSBURG, IN

LOCATION.--Lat $38^{\circ}31'42''$, long $87^{\circ}15'12''$, in $NE^{1}_{4}SW^{1}_{4}$ sec.12, T.1 N., R.8 W., Pike County, Hydrologic Unit 05120202, (MONROE CITY, IN quadrangle), on left bank 300 ft upstream from intake structure of Indianapolis Power and Light Company's generating plant, 1.5 mi downstream from East Fork White River, 2.2 mi upstream from State Highway 61, 2.9 mi northeast of Petersburg, and at mile 48.0.

DRAINAGE AREA.--11,123 mi².

PERIOD OF RECORD.--October 1976 to current year. Discharges below 1500 ft³/s only, published 1980 to 1993, and 1995 to current year.

GAGE.--Water-stage recorder. Datum of gage is 401.52 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Discharges below 1,500 ft³/s only, published. Records fair. For a complete record of White River in this vicinity use records of White River at Petersburg, IN (03374000), 2.3 mi downstream.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

(No daily discharges below 1,500 ft³/s)

03373980 WHITE RIVER ABOVE PETERSBURG, IN—Continued

WATER-QUALITY RECORDS

INSTRUMENTATION.--Temperature recorder.

PERIOD OF RECORD .--

WATER TEMPERATURE.--September 1988 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 33.3°C, July 30, 1999; minimum, -0.4°C, Dec. 16, 21, 1989; Jan. 1, 2, 1990; Jan. 15, 16, 18, 19, 1994.

EXTREMES FOR CURRENT YEAR.-- WATER TEMPERATURE: Maximum, $29.2^{\circ}\text{C},$ Aug. 22, minimum, $0.0^{\circ}\text{C},$ Jan. 19, 24, and 27.

TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1 2 3 4 5	22.7 23.1 23.5 23.1 22.1	21.9 22.1 22.6 21.9 20.8	22.3 22.6 23.0 22.7 21.4	10.9 10.3 9.8 9.2 9.2	10.3 9.6 9.2 9.0 8.8	10.6 9.9 9.4 9.1 9.0	4.7 4.5 4.2 3.5 2.7	3.7 3.5 3.5 2.5 2.0	4.2 4.0 3.8 3.0 2.4	5.8 6.5 6.5 6.1 5.4	5.6 5.7 6.1 5.4 4.4	5.7 6.0 6.4 5.7 5.0
6 7 8 9	21.1 19.9 18.9 18.0	19.9 18.6 17.8 17.7	20.5 19.3 18.3 17.9	9.2 9.3 10.0 11.0 13.0	8.7 8.1 8.8 9.7 11.0	9.0 8.7 9.3 10.3 12.0	2.3 2.6 3.5 3.0 3.0	1.5 1.6 2.6 2.2 2.7	1.9 2.1 3.0 2.7 2.9	4.4 3.5 3.7 3.8 3.7	3.5 3.3 3.2 3.5 3.4	3.9 3.4 3.4 3.6 3.5
11 12 13 14 15	18.4 19.1 18.5 16.8 16.3	17.7 18.4 16.8 15.3 15.2	18.0 18.7 17.7 16.1 15.7	12.6 12.2 10.9 11.5 11.4	12.1 10.9 10.3 10.8 11.0	12.4 11.5 10.7 11.1 11.3	3.3 4.0 4.0 3.6 3.4	2.7 3.3 3.4 3.2 2.8	3.0 3.6 3.8 3.4 3.1	3.4 3.0 2.8 2.6 2.2	3.0 2.6 2.4 2.2 1.6	3.2 2.8 2.6 2.5 1.9
16 17 18 19 20	15.6 15.0 14.9 14.8 14.5	14.4 14.2 13.4 14.4 13.5	15.1 14.5 14.2 14.7 14.0	11.0 10.2 9.0 8.9 9.0	10.2 9.0 8.3 8.3 8.2	10.7 9.6 8.6 8.6 8.6	4.0 4.8 5.7 7.0 6.9	3.2 4.0 4.8 5.7 6.6	3.5 4.4 5.1 6.4 6.7	1.9 1.5 0.9 0.4 0.8	1.5 0.9 0.2 0.0 0.3	1.7 1.1 0.4 0.2 0.5
21 22 23 24 25	14.9 15.1 14.8 14.7 14.3	13.3 13.1 13.5 13.4 13.7	14.1 14.1 14.2 14.0 14.0	8.8 8.4 7.7 7.8 7.5	8.4 7.7 7.0 6.9 6.8	8.6 8.0 7.4 7.4 7.3	7.3 7.5 7.2 6.5 5.5	6.5 7.2 6.5 5.5 4.5	6.8 7.4 6.8 6.0 5.0	1.0 0.8 0.2 0.1 0.6	0.4 0.1 0.0 0.0 0.1	0.7 0.4 0.1 0.0 0.3
26 27 28 29 30 31	13.7 13.4 13.4 13.2 11.7 11.2	13.4 13.0 12.7 11.7 11.2 10.9	13.5 13.1 13.0 12.5 11.4 11.0	6.8 6.2 6.0 6.0	6.2 5.7 5.4 4.9 4.7	6.5 6.0 5.7 5.5 5.5	4.5 3.9 3.6 3.7 4.8	3.9 3.5 3.2 3.1 3.6	4.1 3.6 3.4 3.4 4.2	0.4 0.2 0.9 0.8 1.3 1.1	0.1 0.0 0.1 0.6 0.5 0.9	0.2 0.1 0.5 0.7 0.8 0.9
MONTH				13.0	4.7	8.9				6.5	0.0	2.2

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03373980 WHITE RIVER ABOVE PETERSBURG, IN—Continued TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUAR			MARCH			APRIL			MAY	
1 2 3 4 5	1.6 2.9 4.3 4.2 3.1	0.9 1.5 2.9 3.0 2.3	1.2 2.1 3.7 3.6 2.7	1.6 2.3 3.0 4.0 4.4	1.1 1.6 2.3 3.0 4.0	1.4 2.0 2.6 3.4 4.3	11.8 12.4 13.0 13.8 13.8	10.8 11.5 12.1 13.0 12.9	11.3 11.9 12.5 13.3 13.3	17.7 18.0 18.7 18.4 18.0	16.7 17.5 17.5 17.5 16.9	17.2 17.8 18.1 17.9 17.5
6 7 8 9 10	2.7 2.1 2.0 2.1 2.3	2.1 1.4 1.1 1.5 1.9	2.4 1.7 1.6 1.8 2.1	4.4 5.1 5.7 5.6 5.3	4.1 4.4 4.8 5.0 4.7	4.3 4.8 5.2 5.3 5.0	12.9 12.2 12.1 11.6 11.4	12.1 11.9 11.6 10.6 10.2	12.4 12.0 11.9 11.1 10.8	18.0 17.6 17.4 17.9 19.1	17.4 16.8 16.7 17.4 17.9	17.7 17.0 17.0 17.7 18.5
11 12 13 14 15	2.3 2.1 2.5 2.4 2.4	1.6 1.2 1.3 2.0 1.6	2.0 1.8 1.9 2.2 2.1	5.9 6.1 6.5 6.5 6.9	5.1 5.5 5.8 5.7 5.9	5.5 5.8 6.1 6.1 6.4	11.9 12.5 13.0 13.9 15.3	10.5 11.0 11.2 12.0 13.2	11.2 11.7 12.1 12.9 14.2	19.1 19.1 19.3 19.0 19.2	18.6 17.8 18.1 18.2 18.2	18.9 18.5 18.7 18.6 18.7
16 17 18 19 20	1.6 0.6 1.4 1.6 1.9	0.1 0.0 0.6 1.3 1.0	0.7 0.3 1.0 1.4 1.4	7.6 8.2 8.9 10.2 11.1	6.6 7.5 8.1 8.9 10.2	7.1 7.8 8.4 9.4 10.6	15.5 16.0 16.4 17.0 17.8	14.6 15.4 15.6 15.9 16.7	15.1 15.7 16.0 16.4 17.2	19.5 19.2 19.4 19.4 19.3	18.5 18.7 18.7 19.2 18.7	19.0 18.9 19.0 19.3 19.1
21 22 23 24 25	2.3 2.3 2.6 3.2 2.3	1.7 1.7 1.6 2.3 1.7	2.0 2.1 2.0 2.8 1.9	11.6 12.0 12.4 12.7 12.6	11.1 11.2 11.6 11.8 12.4	11.3 11.6 12.0 12.3 12.5	17.6 16.9 16.7 16.2 15.9	16.9 16.0 15.5 15.7 14.3	17.3 16.5 16.1 15.9 15.1	18.7 18.8 18.8 18.8 18.4	18.2 17.9 18.0 17.9 17.9	18.4 18.4 18.4 18.4 18.1
26 27 28 29 30 31	1.9 1.3 1.3 	1.3 1.0 0.9 	1.6 1.2 1.1 	12.8 12.8 13.0 12.8 12.1 11.4	12.1 12.2 12.6 12.1 11.3 10.9	12.5 12.5 12.8 12.4 11.6 11.2	15.0 14.9 14.7 15.4 16.9	14.1 14.0 14.1 14.5 15.3	14.5 14.5 14.5 14.9 16.1	18.3 18.9 18.9 19.2 19.5 19.2	17.6 17.7 18.3 18.1 18.2 18.5	17.9 18.3 18.6 18.6 18.9 18.8
MONTH	4.3	0.0	1.9	13.0	1.1	7.9	17.8	10.2	13.9	19.5	16.7	18.3
		JUNE			JULY			AUGUST		S	EPTEMBI	ER
1 2 3 4 5	19.2 18.8 18.3 18.1 19.1	JUNE 17.8 18.2 17.7 17.3 17.4	18.5 18.5 17.9 17.7 18.2	25.8 26.2 27.2 27.8 28.3	JULY 24.8 24.8 25.4 26.1 26.8	25.2 25.5 26.2 26.9 27.5	26.2 25.8 26.1 26.5 26.6	AUGUST 25.2 25.3 24.8 25.1 25.4	25.7 25.6 25.4 25.8 26.0	S1 26.5 25.8 24.3 24.5 23.9	25.8 24.3 23.8 23.9 23.1	26.0 25.0 24.1 24.2 23.4
2 3 4	18.8 18.3 18.1 19.1 18.7 19.6 19.6	17.8 18.2 17.7 17.3	18.5 17.9 17.7	26.2 27.2 27.8	24.8 24.8 25.4 26.1	26.2 26.9	26.2 25.8 26.1 26.5	25.2 25.3 24.8 25.1	25.7 25.6 25.4 25.8	26.5 25.8 24.3 24.5 23.9	25.8 24.3 23.8 23.9	26.0 25.0 24.1 24.2 23.4 22.9 22.5 22.4
2 3 4 5 6 7 8 9	18.8 18.3 18.1 19.1 18.7 19.6 19.6	17.8 18.2 17.7 17.3 17.4 18.1 18.1 18.7	18.5 17.9 17.7 18.2 18.4 18.8 19.1 19.6	26.2 27.2 27.8 28.3 28.4 28.9 28.8 27.7	24.8 24.8 25.4 26.1 26.8 27.1 27.3 27.7 26.7	26.2 26.9 27.5 27.8 28.0 28.2 27.1	26.2 25.8 26.1 26.5 26.6 26.2 26.5 26.9 27.0	25.2 25.3 24.8 25.1 25.4 25.5 24.9 25.4 25.8	25.7 25.6 25.4 25.8 26.0 25.9	26.5 25.8 24.3 24.5 23.9	25.8 24.3 23.8 23.9 23.1 22.6 22.3 22.1	26.0 25.0 24.1 24.2 23.4 22.9 22.5 22.4
2 3 4 5 6 7 8 9 10 11 12 13 14	18.8 18.3 18.1 19.1 18.7 19.6 19.6 20.4 20.1 19.9 20.7 20.9 20.8	17.8 18.2 17.7 17.3 17.4 18.1 18.1 18.7 19.3 19.5 19.8 20.4 20.1	18.5 17.9 17.7 18.2 18.4 18.8 19.1 19.6 19.6 20.2 20.6 20.5	26.2 27.2 27.8 28.3 28.4 28.9 28.8 27.7 27.1 27.0 26.1 25.6 25.5	24.8 24.8 25.4 26.1 26.8 27.1 27.3 27.7 26.7 26.6 26.1 25.0 24.7 24.6	26.2 26.9 27.5 27.8 28.0 28.2 27.1 26.7 25.3 25.1 25.0	26.2 25.8 26.1 26.5 26.6 26.2 26.5 26.9 27.0 26.8 26.6 26.3 25.8 26.6	25.2 25.3 24.8 25.1 25.4 25.5 24.9 25.4 25.8 25.8 25.7 24.8 25.0 25.1	25.7 25.6 25.4 25.8 26.0 25.9 25.7 26.1 26.3 26.3 26.2 25.6 25.4 25.9	26.5 25.8 24.3 24.5 23.9 23.1 22.8 22.7 22.9 23.2 23.6 23.4 23.9 24.1	25.8 24.3 23.8 23.9 23.1 22.6 22.3 22.1 22.1 22.3 22.8 22.9 23.1 23.5	26.0 25.0 24.1 24.2 23.4 22.9 22.5 22.4 22.6 22.8 23.1 23.2 23.5 23.8
2 3 4 5 6 7 8 9 10 11 12 13 14 15	18.8 18.3 18.1 19.1 18.7 19.6 19.6 20.4 20.1 19.9 20.7 20.9 20.8 20.9 21.1 22.1 22.2 22.2	17.8 18.2 17.7 17.3 17.4 18.1 18.1 18.7 19.3 19.5 19.8 20.4 20.1 20.5 20.5 20.9 21.7 21.5	18.5 17.9 17.7 18.2 18.4 18.8 19.1 19.6 19.6 20.2 20.6 20.5 20.6 20.8 21.5 21.9 21.9	26.2 27.2 27.8 28.3 28.4 28.9 28.8 27.7 27.1 27.0 26.1 25.6 25.5 25.7 26.3 26.4 26.2 25.9	24.8 24.8 25.4 26.1 26.8 27.1 27.3 27.7 26.7 26.6 26.1 25.0 24.7 24.6 25.0 25.5 25.7 25.5 25.7	26.2 26.9 27.5 27.8 28.0 28.2 27.1 26.7 25.3 25.1 25.0 25.3 25.8 26.0 25.7 25.5	26.2 25.8 26.1 26.5 26.6 26.2 26.5 26.9 27.0 26.8 26.6 26.3 25.8 26.6 27.8 28.4 28.7 28.3 28.0	25.2 25.3 24.8 25.1 25.4 25.5 24.9 25.8 25.8 25.7 24.8 25.0 25.1 26.2 26.7 27.2 26.9 26.2	25.7 25.6 25.4 25.8 26.0 25.9 25.7 26.3 26.3 26.2 25.6 25.4 25.9 26.9 27.5 27.9 27.6 27.1	26.5 25.8 24.3 24.5 23.9 23.1 22.8 22.7 22.9 23.2 23.6 23.4 23.9 24.1 23.8 23.7 23.4 23.6 23.1	25.8 24.3 23.8 23.9 23.1 22.6 22.3 22.1 22.3 22.8 22.9 23.1 23.5 22.9 22.5 22.3 22.3 22.1	26.0 25.0 24.1 24.2 23.4 22.9 22.5 22.4 22.6 22.8 23.1 23.2 23.5 23.8 23.4 23.1 23.0 22.9 22.3
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	18.8 18.3 18.1 19.1 18.7 19.6 19.6 20.4 20.1 19.9 20.7 20.9 20.8 20.9 21.1 22.2 22.2 23.1 23.3 22.9 23.4 24.1	17.8 18.2 17.7 17.3 17.4 18.1 18.1 18.7 19.3 19.5 19.8 20.4 20.1 20.5 20.9 21.7 21.5 22.2 22.7 22.2 22.3 22.6	18.5 17.9 17.7 18.2 18.4 18.8 19.1 19.6 19.6 20.2 20.6 20.5 20.6 20.5 21.9 21.9 22.7 23.0 22.6 22.8 23.4	26.2 27.2 27.8 28.3 28.4 28.9 28.8 27.7 27.1 27.0 26.1 25.6 25.5 25.7 26.3 26.4 26.2 25.9 26.1	24.8 24.8 25.4 26.1 26.8 27.1 27.3 27.7 26.6 26.1 25.0 24.7 24.6 25.0 25.5 25.7 25.5 25.1 25.3 24.9 24.2	26.2 26.9 27.5 27.8 28.0 28.2 27.1 26.7 25.3 25.1 25.3 25.3 25.3 25.5 25.7 25.5 25.7 25.6 25.3	26.2 25.8 26.1 26.5 26.6 26.2 26.5 26.9 27.0 26.8 26.6 27.8 28.4 28.7 28.3 28.0 28.1 28.7 29.2 29.0 28.5	25.2 25.3 24.8 25.1 25.4 25.5 24.9 25.4 25.8 25.8 25.7 24.8 25.0 25.1 26.2 26.7 27.2 26.9 26.2 26.7 27.5 27.3 26.6	25.7 25.6 25.4 25.8 26.0 25.9 25.7 26.1 26.3 26.3 26.2 25.6 25.4 25.9 26.9 27.5 27.9 27.6 27.1 27.6 28.3 28.3 28.3	26.5 25.8 24.3 24.5 23.9 23.1 22.8 22.7 22.9 23.2 23.6 23.4 23.9 24.1 23.8 23.7 23.4 23.6 23.1 21.9 21.2 21.5 21.4 21.4	25.8 24.3 23.8 23.9 23.1 22.6 22.3 22.1 22.3 22.8 22.9 23.1 23.5 22.9 22.5 22.3 22.2 21.6 20.7 20.3 20.6 20.3 20.0	26.0 25.0 24.1 24.2 23.4 22.9 22.5 22.4 22.6 22.8 23.1 23.2 23.5 23.8 23.4 23.1 23.0 22.9 22.3 21.3 20.9 21.0 20.9 20.7

03374000 WHITE RIVER AT PETERSBURG, IN

LOCATION.--Lat 38°30'39", long 87°17'22", in SE 1 /₄SW 1 /₄ sec.15, T.1 N., R.8 W., Pike County, Hydrologic Unit 05120202, (MONROE CITY, IN quadrangle), on left bank 300 ft downstream from bridge on State Highway 61, 0.4 mi upstream from Prides Creek, 1.4 mi north of Petersburg, 2.0 mi west of Arda. 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 National Geodetic Vertical Datum of 1929. See WSP 1725 for history of changes prior to Apr. 1, 1941.

REMARKS.--Records fair. Flow partially regulated by upstream reservoir.

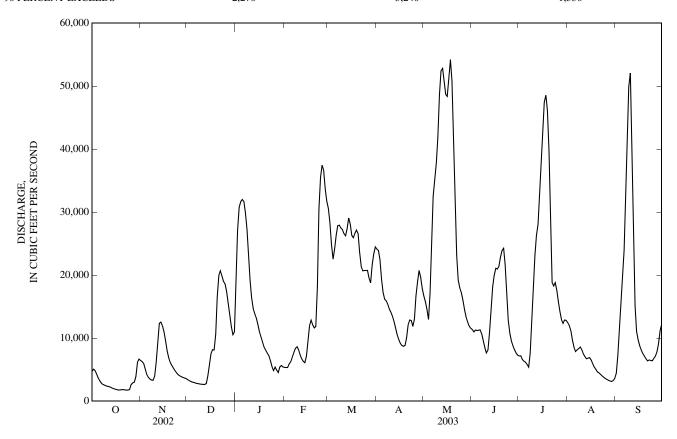
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913, reached a stage of 29.5 ft, present site and datum, from floodmarks by U.S. Army Corps of Engineers, discharge, 235,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,720	6,460	3,430	19,000	5,370	30,600	24,100	16,700	11,400	7,170	12,400	4,390
2	5,070	6,300	3,280	27,100	5,340	28,400	23,900	15,800	11,000	7,200	12,000	7,180
3	4,830	5,960	3,150	30,700	5,340	24,900	22,500	14,600	11,300	6,610	11,200	12,000
4	4,270	5,080	3,030	31,600	5,920	22,500	19,300	13,000	11,200	6,350	9,680	16,800
5	3,640	4,210	2,980	32,000	6,230	24,100	17,300	17,100	11,300	6,180	8,530	20,300
6	3,200	3,780	2,880	31,700	6,980	26,300	16,200	26,200	11,300	5,830	7,880	24,000
7	2,840	3,520	2,810	29,900	7,750	27,800	15,900	32,500	10,700	5,400	8,140	29,600
8	2,640	3,350	2,770	27,300	8,380	27,900	15,400	35,300	9,590	7,610	8,340	38,700
9	2,540	3,310	2,710	23,000	8,640	27,500	14,600	37,900	8,500	12,300	8,590	49,900
10	2,420	3,970	2,690	19,100	8,160	27,200	14,100	42,000	7,660	17,500	8,140	52,100
11	2,360	6,190	2,660	16,400	7,350	26,600	13,500	48,700	8,110	23,100	7,480	43,800
12	2,290	9,270	2,650	14,700	6,730	26,200	12,600	52,400	11,000	26,300	7,060	28,100
13	2,190	12,300	2,780	13,800	6,300	27,400	11,600	52,800	14,500	28,000	6,720	15,100
14	2,060	12,600	4,040	13,200	6,100	29,100	10,600	50,800	18,200	32,200	6,830	11,000
15	1,970	12,000	5,690	12,100	7,160	28,100	9,790	48,700	20,000	37,500	6,910	9,690
16	1,890	11,000	7,530	11,000	9,570	26,300	9,180	48,400	21,100	42,900	6,520	8,800
17	1,820	9,520	8,160	10,200	12,000	25,900	8,830	51,300	21,000	47,500	5,910	8,100
18	1,760	7,970	8,120	9,350	12,900	26,600	8,700	54,200	21,400	48,500	5,390	7,560
19	1,790	6,870	10,600	8,530	12,100	27,200	8,820	50,800	22,800	46,200	5,030	7,130
20	1,830	6,130	16,500	8,070	11,600	26,600	10,100	42,900	23,900	39,700	4,640	6,730
21	1,840	5,650	19,900	7,610	11,800	23,600	12,100	31,800	24,300	27,400	4,480	6,390
22	1,790	5,260	20,700	7,210	18,200	21,400	12,900	23,200	21,600	18,800	4,250	6,530
23	1,760	4,850	19,900	6,430	30,400	20,700	12,800	19,200	16,600	18,300	4,000	6,450
24	1,750	4,500	19,000	5,470	35,500	20,700	11,900	18,000	12,800	18,800	3,780	6,410
25	1,840	4,200	18,600	4,850	37,400	20,700	13,000	17,200	10,700	17,600	3,600	6,770
26 27 28 29 30 31	2,620 2,900 3,000 3,890 6,150 6,670	4,030 3,880 3,760 3,680 3,610	17,400 15,600 13,700 11,800 10,500 11,000	5,400 4,920 4,550 5,430 5,650 5,430	36,700 33,700 31,700 	20,700 19,600 18,800 21,600 23,300 24,500	16,700 19,000 20,700 19,700 17,900	16,000 14,500 13,400 12,600 11,900 11,600	9,570 8,760 8,140 7,640 7,290	15,800 14,200 12,900 12,300 12,900 12,800	3,440 3,310 3,200 3,120 3,260 3,560	7,120 7,780 9,110 11,200 12,200
TOTAL	90,340	183,210	276,560	451,700	395,320	772,800	443,720	941,500	413,360	635,850	197,390	480,940
MEAN	2,914	6,107	8,921	14,570	14,120	24,930	14,790	30,370	13,780	20,510	6,367	16,030
MAX	6,670	12,600	20,700	32,000	37,400	30,600	24,100	54,200	24,300	48,500	12,400	52,100
MIN	1,750	3,310	2,650	4,550	5,340	18,800	8,700	11,600	7,290	5,400	3,120	4,390
CFSM	0.26	0.55	0.80	1.31	1.27	2.24	1.33	2.73	1.24	1.84	0.57	1.44
IN.	0.30	0.61	0.92	1.51	1.32	2.58	1.48	3.15	1.38	2.13	0.66	1.61
STATIST	ICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1928 - 2003	, BY WATE	R YEAR (W	/Y)			
MEAN	3,504	6,658	11,250	17,000	18,240	22,440	22,020	18,310	11,520	7,651	4,792	3,581
MAX	18,630	46,800	43,000	86,440	67,080	55,340	42,900	70,110	38,550	25,620	39,590	19,640
(WY)	(2002)	(1994)	(2002)	(1950)	(1950)	(1945)	(1944)	(1996)	(1998)	(1958)	(1979)	(1989)
MIN	653	884	861	981	1,388	1,597	3,767	1,597	1,950	1,118	870	878
(WY)	(1941)	(1954)	(1964)	(1977)	(1931)	(1941)	(1941)	(1941)	(1988)	(1954)	(1936)	(1936)

03374000 WHITE RIVER AT PETERSBURG, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	ENDAR YEAR	FOR 2003 WA	ATER YEAR	WATER YEARS 1928 - 2003		
ANNUAL TOTAL	6,267,260		5,282,690				
ANNUAL MEAN	17,170		14,470		12,220		
HIGHEST ANNUAL MEAN					22,760	1950	
LOWEST ANNUAL MEAN					2,138	1941	
HIGHEST DAILY MEAN	117,000	May 14	54,200	May 18	182,000	Jan 22, 1937	
LOWEST DAILY MEAN	1,410	Sep 14	1,750	Oct 24	573	Oct 1, 1941	
ANNUAL SEVEN-DAY MINIMUM	1,500	Sep 11	1,790	Oct 18	598	Sep 26, 1941	
MAXIMUM PEAK FLOW		•	54,500	May 18	183,000	Jan 22, 1937	
MAXIMUM PEAK STAGE			21.70	May 18	28.30	Jan 22, 1937	
ANNUAL RUNOFF (CFSM)	1.54		1.30	•	1.10	*	
ANNUAL RUNOFF (INCHÉS)	20.96		17.66		14.93		
10 PERCENT EXCEEDS	40,800		30,500		30,000		
50 PERCENT EXCEEDS	10,800		11,000		6,600		
90 PERCENT EXCEEDS	2,270		3,240		1.530		



03374100 WHITE RIVER AT HAZLETON, IN-Continued

[(National Water-Quality Assessment Program), White River Basin, Miami River Basin Study Unit]

WATER-QUALITY RECORDS

These data described in the following table were collected and analyzed as part of the National Water Quality Assessment Program (NAWQA) in the White River Basin, Miami River Basin (WHMI) study units. The objectives of the NAWQA program are to broadly characterize the water-quality of the Nation's streams and aquifers in relation to human and natural factors. This project is one of 42 river basin and aquifer assessment projects being implemented across the nation on a staggered timeline. During the second decade of sampling, 14 of these projects will be actively collecting data. The period of high-intensity data collection for the WHMI project is in water years 2001-2004.

Water quality data from four stream sites in Indiana and two stream sites in Ohio are being reported as part of the NAWQA study: Big Walnut Creek nr Roachdale, IN (03357330), Little Buck Creek nr Indianapolis, IN (03353637), Sugar Creek at Co. Rd. 400S at New Palestine, IN (394340085524601), White River at Hazleton, IN (03374100), Holes Creek at Huffman Park at Kettering, OH (393944084120700), Mad River at St. Paris Pike near Eagle City, OH (03267900). Additionally, continuous monitor data, water temperature, dissolved oxygen, specific conductance, and pH were collected for all sites except Sugar Creek at Co. Rd. 400S at New Palestine, IN (394340085524601), which were instead collected at Sugar Creek at New Palestine, IN (03361650).

These data can also be obtained electronically at http://in.water.usgs.gov or at http://oh.water.usgs.gov.

(---, no data: <, concentration or value reported is less than that indicated: E, estimated value: K, value is estimated from a non-ideal colony count: M, presence verified, not quantified).

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAILY MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						7.8	8.0	7.8	8.1		7.5	8.3
2							8.0	8.1	8.2		7.6	8.3
3							8.0	8.1	8.1		8.1	7.8
4							8.0	8.2	8.1		8.1	7.7
5							8.0	8.0	8.1		8.2	7.7
6							8.1	7.7	8.2		8.2	7.6
7							8.1	7.7	8.2		8.1	7.6
8							8.1	7.6	8.3		8.1	7.6
9							8.1	7.6	8.3		8.2	7.6
10							8.1	7.6	8.4		8.4	7.6
11							8.2	7.6	8.3	7.5	8.3	7.7
12							8.3	7.7	8.0	7.5	8.3	7.8
13							8.3	7.6	7.8	7.5	8.4	7.7
14						7.9	8.4	7.6	7.8	7.6	8.4	7.8
15						7.9	8.5	7.6	7.7	7.6	8.6	8.0
16						7.9	8.5	7.6	7.7	7.7	8.6	8.1
17						7.9	8.5	7.6	7.7	7.7	8.4	8.2
18						7.9	8.6	7.6	7.7	7.8	8.2	8.4
19						7.9	8.5	7.7	7.7	7.8	8.2	8.4
20			7.8			7.9	8.5	7.7	7.7	8.0	8.1	8.5
21			7.8		8.0	7.9	8.4	7.6	7.8	7.9	8.1	8.5
22			7.8		7.9	7.9	8.4	7.6	7.8	7.9	8.1	8.5
23			7.8		7.8	8.0	8.3	7.7	7.9	7.8	8.2	8.4
24			7.9		7.8	8.0	8.3	7.8	8.1	7.6	8.2	8.3
25			7.9		7.8	8.0	8.1	7.8	8.1	7.5	8.2	8.3
26			7.9		7.8	8.0	7.8	7.8		7.5	8.1	8.2
27			8.0		7.8	8.0	7.9	7.8		7.4	8.1	8.3
28			8.0		7.8	8.0	7.8	7.9		7.5	8.1	8.2
29						8.0	7.8	7.9		7.5	8.1	8.1
30						8.0	7.8	8.0		7.5	8.1	7.6
31						7.9		8.1		7.5	8.2	
MED							8.1	7.7			8.2	8.1

03374100 WHITE RIVER AT HAZLETON, IN—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			12.0			13.1	12.0					
2			12.1			e12.9	12.2	10.7				
3			12.2				e12.3	10.7				
4			12.4					11.0				
5			12.6					10.6				7.2
6			12.8					8.9	11.8			7.5
7			13.0					9.2	12.1			7.6
8			13.1					9.2	12.6			7.6
9			13.1					9.0	13.0			7.8
10			12.9					8.7	13.3			8.4
11			12.9					8.7	12.6			9.2
12			12.9					9.3	10.1			9.0
13			12.7					9.2	8.4			8.2
14			12.7			11.9		9.1	8.9			e8.7
15			13.0			11.8		9.4	7.9			
16			13.4			11.8		9.7	8.0			
17			13.5			11.6		9.7	8.1			
18			13.3			11.5	12.5	9.8	8.1			
19			12.2			11.2	12.9	10.1	8.0			
20			10.5			10.8	12.4	10.3	8.0			
21			10.3		12.9	10.5	11.4	10.4	8.1		14.5	
22			10.5		12.7	10.5	11.0	9.8	8.7		13.9	
23			10.6		12.6	10.6	10.8	9.2	9.4		13.5	
24			10.8		12.6	10.6	11.0	9.7	10.3		14.6	
25			11.3		12.6	10.7	10.6	9.9	11.6		15.2	
26			11.7		12.8	10.9	9.7	10.1	e11.4		14.3	
27		11.4	12.2		13.0	11.1	10.3	10.3			13.8	
28		11.6	12.5		13.1	11.1	e10.7	10.4			12.9	
29		11.7				11.1					11.4	
30		11.7				11.1					8.9	
31						11.6						

e Estimated

03374100 WHITE RIVER AT HAZLETON, IN—Continued

TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	 	 	5.8 5.6 5.8 5.0 4.3	 	 	2.0 e2.2 	11.3 11.9 12.8 13.9 14.0	18.1 18.6 18.8 18.8 18.3	19.1 19.2 18.7 18.4 18.8	 	26.8 26.8 26.5 26.9 27.2	27.8 26.9 25.1 23.9 23.4
6 7 8 9 10	 	 	4.0 4.1 4.6 4.7 5.1	 	 	 	13.1 12.5 12.2 11.3 10.8	18.5 18.4 17.9 18.6 19.3	19.3 19.7 20.3 20.5 21.1	 e27.4	27.1 26.9 27.3 27.4 27.5	22.9 22.8 22.9 23.1 23.5
11 12 13 14 15	 	 	5.1 5.7 6.2 5.9 5.4	 	 	e6.3 6.3 6.7	11.4 12.4 13.1 14.1 15.4	19.6 18.9 19.0 19.5 19.4	21.0 21.3 21.9 22.0 21.9	26.5 26.1 25.5 25.7 25.7	27.5 27.3 27.0 27.2 28.1	23.9 24.1 24.3 24.6 24.3
16 17 18 19 20	 	 	4.7 5.1 6.4 7.6 7.7	 	 e2.7	7.6 8.2 8.7 9.5 10.9	16.4 16.9 17.0 17.5 18.2	19.7 19.8 19.8 20.2 20.2	22.1 22.6 23.1 23.0 23.0	26.3 26.8 26.7 26.4 26.6	28.9 29.5 29.4 28.9 28.8	24.0 24.0 24.0 23.6 22.6
21 22 23 24 25	 	 	7.4 7.4 7.1 6.4 5.2	 	2.9 2.9 2.0 2.1 2.0	11.9 12.3 12.5 12.8 13.0	18.0 17.4 17.0 16.6 15.9	19.3 19.0 19.2 19.3 19.0	23.6 23.7 23.8 24.5 25.3	26.7 26.2 26.0 25.2 25.1	29.3 30.0 29.8 29.2 29.0	22.2 22.1 22.0 21.8 22.1
26 27 28 29 30 31	 	e8.2 7.7 7.5 7.2 7.1	4.5 4.0 3.8 	 	1.7 1.7 1.8 	12.9 12.9 13.2 12.6 11.8 11.2	15.2 15.4 15.4 15.9 16.9	18.6 19.1 19.6 19.7 19.9	e25.7	25.2 25.7 26.3 26.1 26.2 26.5	29.4 29.9 30.0 29.8 29.0 28.1	21.5 21.2 19.9 18.7 17.7

e Estimated

03374100 WHITE RIVER AT HAZLETON, IN—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			669			352		386	520		515	628
2			674			e353		397	522			637
3			680					400	521			560
4			687				460	409	508			389
5			679				466	395	510			324
6			695				463	349	500			305
7			708				471	334	500		510	298
8			719				479	305	517		545	299
9			731				469	314	539		574	305
10			740				472	318	569	e335	563	316
11			748				486	305	588	341	553	347
12			756				502	293	571	322	539	388
13			757			e447	506		534	266	538	432
14			722				520		504	276	538	484
15			706				535		458	258	547	512
16			641				553		409	274	555	526
17			570				569		366	291	546	538
18			549				576		367	313	544	548
19			495				569		367	339	543	562
20			438		e489		558		359	362	553	572
21			390		507		541		352	399	558	579
22			387		455		529		372	425	570	578
23			406		342		476	474	402	463	573	588
24			411		339		437	492	433	406	572	590
25			418		317		433	500	457	412	557	593
26		e575	450		299		403	490	e474	419	552	585
27		589	447		309		406	484		453	554	618
28		609	438		329		382	493		478	569	564
29		632					385	503		491	581	543
30		650					376	510		502	605	467
31								515		517	623	

e Estimated

03374100 WHITE RIVER AT HAZLETON, IN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Alkalinity, wat flt fxd end field, mg/L as CaCO3 (39036)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)
OCT 15	1500	1,950	751	M	8.0	650	28.0	17.5	170	163	E162	E8	52.4
NOV 12	1340	9,680	762	8.0	7.8	528	8.0	13.0	130	133	160	0.0	31.2
26 DEC	1430	4,020	764	11.1	7.9	590	3.0	8.5					
19 JAN	1410	11,200	744	13.8	8.1	482	9.0	8.0	130	127	153	0.0	27.9
23 FEB	1340	6,200	777	13.6	8.2	608	<-5.0	0.5	190	187	225	1	33.7
20 MAR	1400	11,600	765	14.1	8.0	509	6.0	2.5	140	142	E173	E0.0	36.0
13 APR	1430	27,400	758	12.6	8.1	464	8.0	6.5	130	132	161	0.0	36.4
03 17 MAY	1520 1430	22,000 8,810	745 742	11.0 12.5	8.0 8.6	472 580	25.0 23.0	13.0 17.0	150	153	184	0.0	30.0
01 22	1350 1310	16,600 22,700	741 753	9.0 7.1	7.8 7.8	390 470	19.0 24.5	18.5 19.0	120	119	144	0.0	20.0
JUN 05 26	1350 1430	11,300 9,460	751 744	9.3 9.2	8.2 8.1	516 486	24.0 24.0	19.0 26.0	170	168	205	<1 	28.8
JUL 10	1330	18,200	741	5.3	7.7	420	28.0	27.5	130	125	E152	<1	26.6
14 23	1400 1400	32,600 18,600	746 747	5.6 6.0	7.6 7.7	348 478	34.0 29.0	26.0 26.0					15.9
AUG 06 20	1330 1330	7,780 4,600	746 746	7.3 14.2	8.0 8.4	498 568	28.0 24.0	27.0 29.0	170	162	197	<1	27.5
SEP 04	1330	17,100	748	5.2	7.5	385	25.0	24.0	110	110	E134	<1	23.9
			WATER-C	MALITY	DATA. WA	ATER YEA	R OCTOB	ER 2002 TO) SEPTEM	BER 2003			
		Ammonia		QUALITY Nitrite	DATA, WA	ATER YEA Ortho-	R OCTOB	ER 2002 TO	O SEPTEM	BER 2003 Inor-			2,6-Di-
Date	Sulfate water, fltrd, mg/L (00945)	Ammonia + org-N, water, unfltrd mg/L as N (00625)		_	Nitrite water, fltrd, mg/L as N (00613)			Phos- phorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)		Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	2,6-Diethylaniline water fltrd 0.7u GF ug/L (82660)
OCT 15	water, fltrd, mg/L	+ org-N, water, unfltrd mg/L as N	Ammonia water, fltrd, mg/L as N	Nitrite + nitrate water fltrd, mg/L as N	Nitrite water, fltrd, mg/L as N	Ortho- phos- phate, water, fltrd, mg/L as P	Particulate nitrogen, susp, water, mg/L	Phos- phorus, water, unfltrd mg/L	Total carbon, suspnd sedimnt total, mg/L	Inorganic carbon, suspnd sedimnt total, mg/L	carbon, suspnd sedimnt total, mg/L	carbon, water, fltrd, mg/L	ethyl- aniline water fltrd 0.7u GF ug/L
OCT 15 NOV 12 26	water, fltrd, mg/L (00945)	org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Particulate nitrogen, susp, water, mg/L (49570)	Phosphorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	carbon, suspnd sedimnt total, mg/L (00689)	carbon, water, fltrd, mg/L (00681)	ethyl- aniline water fltrd 0.7u GF ug/L (82660)
OCT 15 NOV 12 26 DEC 19	water, fltrd, mg/L (00945) 89.3 72.0	org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608) <0.04 E0.03	Nitrite + nitrate water fltrd, mg/L as N (00631) 0.66	Nitrite water, fltrd, mg/L as N (00613) 0.013	Ortho- phos- phate, water, fltrd, mg/L as P (00671) <0.02	Particulate nitrogen, susp, water, mg/L (49570) 1.16	Phosphorus, water, unfltrd mg/L (00665) 0.193	Total carbon, suspnd sedimnt total, mg/L (00694) 8.4 4.7	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	carbon, suspnd sedimnt total, mg/L (00689) 8.4 4.5	carbon, water, fltrd, mg/L (00681) 5.0 5.9	ethyl-aniline water fltrd 0.7u GF ug/L (82660) <0.006
OCT 15 NOV 12 26 DEC 19 JAN 23	water, fltrd, mg/L (00945) 89.3 72.0	+ org-N, water, unfiltrd mg/L as N (00625) 1.5 1.4 0.43	Ammonia water, fltrd, mg/L as N (00608) <0.04 E0.03 E0.02	Nitrite + nitrate water fltrd, mg/L as N (00631) 0.66 1.96 2.03	Nitrite water, fltrd, mg/L as N (00613) 0.013 0.034 E0.007	Ortho-phos-phate, water, fltrd, mg/L as P (00671) <0.02 0.12 0.09	Particulate nitrogen, susp, water, mg/L (49570) 1.16 0.61 0.08	Phosphorus, water, unfltrd mg/L (00665) 0.193 0.47 0.164	Total carbon, suspnd sedimnt total, mg/L (00694) 8.4 4.7 0.7	Inorganic carbon, suspnd sedimnt total, mg/L (00688) <0.1	carbon, suspnd sedimnt total, mg/L (00689) 8.4 4.5 0.7	carbon, water, fltrd, mg/L (00681) 5.0 5.9	ethyl-aniline water fltrd 0.7u GF ug/L (82660) <0.006 <0.006
OCT 15 NOV 12 26 DEC 19 JAN 23 FEB 20	water, fltrd, mg/L (00945) 89.3 72.0 48.7	+ org-N, water, unfiltrd mg/L as N (00625) 1.5 1.4 0.43 0.76	Ammonia water, fltrd, mg/L as N (00608) <0.04 E0.03 E0.02 <0.04	Nitrite + nitrate water fltrd, mg/L as N (00631) 0.66 1.96 2.03 2.13	Nitrite water, fltrd, mg/L as N (00613) 0.013 0.034 E0.007	Ortho-phos-phate, water, fltrd, mg/L as P (00671) <0.02 0.12 0.09 0.08	Particulate nitrogen, susp, water, mg/L (49570) 1.16 0.61 0.08 0.39	Phos- phorus, water, unfltrd mg/L (00665) 0.193 0.47 0.164 0.27	Total carbon, suspnd sedimnt total, mg/L (00694) 8.4 4.7 0.7 3.1	Inorganic carbon, suspnd sedimnt total, mg/L (00688) <0.1 0.2 <0.1 <0.1	carbon, suspnd sedimnt total, mg/L (00689) 8.4 4.5 0.7 3.1	carbon, water, fltrd, mg/L (00681) 5.0 5.9 5.0	ethyl-aniline water fltrd 0.7u GF ug/L (82660) <0.006 <0.006 <0.006
OCT 15 NOV 12 26 DEC 19 JAN 23 FEB 20 MAR 13	water, fltrd, mg/L (00945) 89.3 72.0 48.7 58.1	+ org-N, water, unfiltrd mg/L as N (00625) 1.5 1.4 0.43 0.76 0.37	Ammonia water, fltrd, mg/L as N (00608) <0.04 E0.03 E0.02 <0.04 0.05	Nitrite + nitrate water fltrd, mg/L as N (00631) 0.66 1.96 2.03 2.13 2.78	Nitrite water, fltrd, mg/L as N (00613) 0.013 0.034 E0.007 0.009	Ortho- phos- phate, water, fltrd, mg/L as P (00671) <0.02 0.12 0.09 0.08 0.08	Particulate nitrogen, susp, water, mg/L (49570) 1.16 0.61 0.08 0.39 0.12	Phos- phorus, water, unfltrd mg/L (00665) 0.193 0.47 0.164 0.27	Total carbon, suspnd sedimnt total, mg/L (00694) 8.4 4.7 0.7 3.1 0.3	Inorganic carbon, suspnd sedimnt total, mg/L (00688) <0.1 0.2 <0.1 <0.1 <0.1	carbon, suspnd sedimnt total, mg/L (00689) 8.4 4.5 0.7 3.1	carbon, water, fltrd, mg/L (00681) 5.0 5.9 5.0 2.8	ethyl-aniline water fltrd 0.7u GF ug/L (82660) <0.006 <0.006 <0.006 <0.006
OCT 15 NOV 12 26 DEC 19 JAN 23 FEB 20 MAR 13 APR 03	water, fltrd, mg/L (00945) 89.3 72.0 48.7 58.1 48.8	+ org-N, water, unfiltrd mg/L as N (00625) 1.5 1.4 0.43 0.76 0.37	Ammonia water, fltrd, mg/L as N (00608) <0.04 E0.03 E0.02 <0.04 0.05 0.10	Nitrite + nitrate water fltrd, mg/L as N (00631) 0.66 1.96 2.03 2.13 2.78 2.06	Nitrite water, fltrd, mg/L as N (00613) 0.013 0.034 E0.007 0.009 0.008	Ortho- phos- phate, water, fltrd, mg/L as P (00671) <0.02 0.12 0.09 0.08 0.08	Particulate nitrogen, susp, water, mg/L (49570) 1.16 0.61 0.08 0.39 0.12 0.23	Phosphorus, water, unfiltrd mg/L (00665) 0.193 0.47 0.164 0.27 0.125 0.171	Total carbon, suspnd sedimnt total, mg/L (00694) 8.4 4.7 0.7 3.1 0.3 1.5	Inorganic carbon, suspnd sedimnt total, mg/L (00688) <0.1 0.2 <0.1 <0.1 <0.1 <0.1	carbon, suspnd sedimnt total, mg/L (00689) 8.4 4.5 0.7 3.1 0.3	carbon, water, fltrd, mg/L (00681) 5.0 5.9 5.0 2.8 3.4	ethyl-aniline water fltrd 0.7u GF ug/L (82660) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006
OCT 15 NOV 12 26 DEC 19 JAN 23 FEB 20 MAR 13 APR 03 17 MAY 01 22	water, fltrd, mg/L (00945) 89.3 72.0 48.7 58.1 48.8 33.8 36.6	+ org-N, water, unfiltrd mg/L as N (00625) 1.5 1.4 0.43 0.76 0.37 0.57 0.78 0.62	Ammonia water, fltrd, mg/L as N (00608) <0.04 E0.03 E0.02 <0.04 0.05 0.10 <0.04	Nitrite + nitrate water fltrd, mg/L as N (00631) 0.66 1.96 2.03 2.13 2.78 2.06 2.99 2.77	Nitrite water, fltrd, mg/L as N (00613) 0.013 0.034 E0.007 0.009 0.008 0.109 0.031	Ortho-phos-phate, water, fltrd, mg/L as P (00671) <0.02 0.12 0.09 0.08 0.03 0.03 0.04	Particulate nitrogen, susp, water, mg/L (49570) 1.16 0.61 0.08 0.39 0.12 0.23 0.37	Phosphorus, water, unfltrd mg/L (00665) 0.193 0.47 0.164 0.27 0.125 0.171 0.22 0.164	Total carbon, suspnd sedimnt total, mg/L (00694) 8.4 4.7 0.7 3.1 0.3 1.5 3.7 2.6	Inorganic carbon, suspnd sedimnt total, mg/L (00688) <0.1 0.2 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	carbon, suspnd sedimnt total, mg/L (00689) 8.4 4.5 0.7 3.1 0.3 1.5 3.7 2.6	carbon, water, fltrd, mg/L (00681) 5.0 5.9 5.0 2.8 3.4 4.1 3.7	ethyl-aniline water fltrd 0.7u GF ug/L (82660) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006
OCT 15 NOV 12 26 DEC 19 JAN 23 FEB 20 MAR 13 APR 03 17 MAY 01 22 JUN 05 26	water, fltrd, mg/L (00945) 89.3 72.0 48.7 58.1 48.8 33.8 36.6 35.1	+ org-N, water, unfiltrd mg/L as N (00625) 1.5 1.4 0.43 0.76 0.37 0.57 0.78 0.62 1.0 0.86	Ammonia water, fltrd, mg/L as N (00608) <0.04 E0.03 E0.02 <0.04 0.05 0.10 <0.04 <0.04 <0.04 <0.04 <0.04	Nitrite + nitrate water fltrd, mg/L as N (00631) 0.66 1.96 2.03 2.13 2.78 2.06 2.99 2.77 1.96 1.35	Nitrite water, fltrd, mg/L as N (00613) 0.013 0.034 E0.007 0.009 0.008 0.109 0.031	Ortho-phos-phate, water, fltrd, mg/L as P (00671) <0.02 0.12 0.09 0.08 0.08 0.03 0.03 0.04 <0.02 E0.01	Particulate nitrogen, susp, water, mg/L (49570) 1.16 0.61 0.08 0.39 0.12 0.23 0.37 0.32 0.69	Phosphorus, water, unfiltrd mg/L (00665) 0.193 0.47 0.164 0.27 0.125 0.171 0.22 0.164 0.147	Total carbon, suspnd sedimnt total, mg/L (00694) 8.4 4.7 0.7 3.1 0.3 1.5 3.7 2.6 4.3	Inorganic carbon, suspnd sedimnt total, mg/L (00688) <0.1	carbon, suspnd sedimnt total, mg/L (00689) 8.4 4.5 0.7 3.1 0.3 1.5 3.7 2.6 4.2	carbon, water, fltrd, mg/L (00681) 5.0 5.9 5.0 2.8 3.4 4.1 3.7 6.1	ethyl-aniline water fltrd 0.7u GF ug/L (82660) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006
OCT 15 NOV 12 26 DEC 19 JAN 23 FEB 20 MAR 13 APR 03 17 MAY 01 22 JUN 05 26 JUL 10 14 23	water, fltrd, mg/L (00945) 89.3 72.0 48.7 58.1 48.8 33.8 36.6 35.1 46.3	+ org-N, water, unfiltrd mg/L as N (00625) 1.5 1.4 0.43 0.76 0.37 0.57 0.78 0.62 1.0 0.86 0.87	Ammonia water, fltrd, mg/L as N (00608) <0.04 E0.03 E0.02 <0.04 0.05 0.10 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04	Nitrite + nitrate water fltrd, mg/L as N (00631) 0.66 1.96 2.03 2.13 2.78 2.06 2.99 2.77 1.96 1.35 2.31 1.87	Nitrite water, fltrd, mg/L as N (00613) 0.013 0.034 E0.007 0.009 0.008 0.109 0.031 0.020 0.039 0.031 0.228 0.058	Ortho-phos-phate, water, fltrd, mg/L as P (00671) <0.02 0.12 0.09 0.08 0.03 0.03 0.04 <0.02 E0.01 <0.02 <0.02	Particulate nitrogen, susp, water, mg/L (49570) 1.16 0.61 0.08 0.39 0.12 0.23 0.37 0.32 0.69 0.28	Phosphorus, water, unfltrd mg/L (00665) 0.193 0.47 0.164 0.27 0.125 0.171 0.22 0.164 0.147 0.21 0.22 0.176	Total carbon, suspnd sedimnt total, mg/L (00694) 8.4 4.7 0.7 3.1 0.3 1.5 3.7 2.6 4.3 2.1	Inorganic carbon, suspnd sedimnt total, mg/L (00688) <0.1 0.2 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	carbon, suspnd sedimnt total, mg/L (00689) 8.4 4.5 0.7 3.1 0.3 1.5 3.7 2.6 4.2 2.0	carbon, water, fltrd, mg/L (00681) 5.0 5.9 5.0 2.8 3.4 4.1 3.7 6.1 3.0	ethyl-aniline water fltrd 0.7u GF ug/L (82660) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006
OCT 15 NOV 12 26 DEC 19 JAN 23 FEB 20 MAR 13 APR 03 17 MAY 01 22 JUN 05 26 JUL 10 JUL 10 14	water, fltrd, mg/L (00945) 89.3 72.0 48.7 58.1 48.8 33.8 36.6 35.1 46.3 30.8 19.2	+ org-N, water, unfiltrd mg/L as N (00625) 1.5 1.4 0.43 0.76 0.37 0.57 0.78 0.62 1.0 0.86 0.87 0.86 1.1 1.5 1.0	Ammonia water, fltrd, mg/L as N (00608) <0.04 E0.03 E0.02 <0.04 0.05 0.10 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04	Nitrite + nitrate water fltrd, mg/L as N (00631) 0.66 1.96 2.03 2.13 2.78 2.06 2.99 2.77 1.96 1.35 2.31 1.87 2.02 2.20 2.43	Nitrite water, fltrd, mg/L as N (00613) 0.013 0.034 E0.007 0.009 0.008 0.109 0.031 0.020 0.039 0.031 0.228 0.058 0.070 0.084 0.066	Ortho-phos-phate, water, fltrd, mg/L as P (00671) <0.02 0.12 0.09 0.08 0.03 0.03 0.04 <0.02 E0.01 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	Particulate nitrogen, susp, water, mg/L (49570) 1.16 0.61 0.08 0.39 0.12 0.23 0.37 0.32 0.69 0.28 1.23 0.35	Phosphorus, water, unfltrd mg/L (00665) 0.193 0.47 0.164 0.27 0.125 0.171 0.22 0.164 0.147 0.21 0.22 0.176 0.19 0.50 0.29	Total carbon, suspnd sedimnt total, mg/L (00694) 8.4 4.7 0.7 3.1 0.3 1.5 3.7 2.6 4.3 2.1 14.0 3.9	Inorganic carbon, suspnd sedimnt total, mg/L (00688) <0.1 0.2 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 0.1 1 <0.1 1 <0.1 <0.1 <0.1	carbon, suspnd sedimnt total, mg/L (00689) 8.4 4.5 0.7 3.1 0.3 1.5 3.7 2.6 4.2 2.0 13.9 3.8	carbon, water, fltrd, mg/L (00681) 5.0 5.9 5.0 2.8 3.4 4.1 3.7 6.1 3.0 5.1	ethyl-aniline water fltrd 0.7u GF ug/L (82660) <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006

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03374100 WHITE RIVER AT HAZLETON, IN—Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

				QUALITI	,								
Date	CIAT, water, fltrd, ug/L (04040)	Aceto- chlor, water, fltrd, ug/L (49260)	Ala- chlor, water, fltrd, ug/L (46342)	alpha- HCH, water, fltrd, ug/L (34253)	Aminomethyl- phos- phonic acid, wat flt ug/L (62649)	Atrazine, water, fltrd, ug/L (39632)	Azin- phos- methyl, water, fltrd 0.7u GF ug/L (82686)	Ben- flur- alin, water, fltrd 0.7u GF ug/L (82673)	Butylate, water, fltrd, ug/L (04028)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Carbo- furan, water, fltrd 0.7u GF ug/L (82674)	Chlor- pyrifos water, fltrd, ug/L (38933)	cis- Per- methrin water fltrd 0.7u GF ug/L (82687)
OCT 15	E0.041	0.008	< 0.004	< 0.005	0.6	0.217	< 0.050	< 0.010	< 0.002	< 0.041	< 0.020	< 0.005	< 0.006
NOV 12 26	E0.048 E0.067	0.028 0.007	0.007 <0.004	<0.005 <0.005	0.1 0.1	0.152 0.252	<0.050 <0.050	<0.010 <0.010	<0.002 <0.002	E0.013 E0.009	<0.020 <0.020	<0.005 <0.005	<0.006 <0.006
DEC 19	E0.025	0.014	< 0.004	< 0.005	0.1	0.094	< 0.050	< 0.010	< 0.002	< 0.041	< 0.020	< 0.005	< 0.006
JAN 23	E0.044	E0.006	< 0.004	< 0.005	0.1	0.139	< 0.050	< 0.010	< 0.002	< 0.041	< 0.020	< 0.005	< 0.006
FEB 20	E0.027	< 0.006	< 0.004	< 0.005	<0.1	0.078	< 0.050	< 0.010	< 0.002	< 0.041	< 0.020	< 0.005	< 0.006
MAR 13 APR	E0.050	0.009	< 0.004	< 0.005	0.1	0.106	< 0.050	< 0.010	< 0.002	< 0.041	< 0.020	< 0.005	< 0.006
03 17 MAY	E0.043 E0.037	0.009 0.013	<0.004 <0.004	<0.005 <0.005	<0.1 0.1	0.085 0.117	<0.050 <0.050	<0.010 <0.010	<0.002 <0.002	E0.007 <0.041	<0.020 <0.020	<0.005 <0.005	<0.006 <0.006
01 22 JUN	E0.103 E0.305	0.193 0.415	0.010 0.038	<0.005 <0.005	0.2 <0.1	2.85 4.71	<0.050 <0.050	<0.010 <0.010	<0.002 <0.002	E0.005 E0.006	<0.020 <0.020	<0.005 E0.004	<0.006 <0.006
05 26 JUL	E0.266 E0.334	0.198 0.142	0.040 0.023	<0.005 <0.005	0.1 0.2	3.21 2.66	<0.050 <0.050	<0.010 <0.010	<0.002 <0.002	<0.041 <0.041	<0.020 <0.020	<0.005 <0.005	<0.006 <0.006
10 14 23 AUG	E0.236 E0.305 E0.203	0.323 0.255 0.089	0.018 0.026 0.015	<0.005 <0.005	0.3 0.5	2.48 2.22 1.15	<0.050 <0.050 <0.050	<0.010 <0.010 <0.010	<0.002 <0.002	E0.007 E0.007 <0.041	<0.020 <0.020	<0.005 E0.002 <0.005	<0.006 <0.006 <0.006
06 20 SEP	E0.092 E0.059	0.039 0.015	0.008 <0.004	<0.005 <0.005	0.3 0.3	0.586 0.355	<0.050 <0.050	<0.010 <0.010	<0.002 <0.002	<0.041 <0.041	<0.020 <0.020	<0.005 <0.005	<0.006 <0.006
04	E0.034	0.022	0.006	< 0.005	0.2	0.238	< 0.050	< 0.010	< 0.002	E0.004	< 0.020	< 0.005	< 0.006
			WATED	OLIAL ITV	DATA WA	TED VEA	р остор	ED 2002 T/) CEDTEM	DED 2002			
				QUALITY	DATA, WA	ATER YEA	R OCTOB		O SEPTEM				
Date	Cyana- zine, water, fltrd, ug/L (04041)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170)	Diazi- non, water, fltrd, ug/L (39572)	Dieldrin, water, fltrd, ug/L (39381)	Disul- foton, water, fltrd 0.7u GF ug/L (82677)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethal- flur- alin, water, fltrd 0.7u GF ug/L (82663)	Etho- prop, water, fltrd 0.7u GF ug/L (82672)	Desulf- inyl- fipro- nil amide, wat flt ug/L (62169)	Fipro- nil sulfide water, fltrd, ug/L (62167)	Fipro- nil sulfone water, fltrd, ug/L (62168)	Fipro- nil, water, fltrd, ug/L (62166)
OCT 15	zine, water, fltrd, ug/L	water fltrd 0.7u GF ug/L	Desulf- inyl fipro- nil, water, fltrd, ug/L	Diazi- non, water, fltrd, ug/L	Diel- drin, water, fltrd, ug/L	Disul- foton, water, fltrd 0.7u GF ug/L	EPTC, water, fltrd 0.7u GF ug/L	Ethal- flur- alin, water, fltrd 0.7u GF ug/L	Etho- prop, water, fltrd 0.7u GF ug/L	Desulf- inyl- fipro- nil amide, wat flt ug/L	nil sulfide water, fltrd, ug/L	nil sulfone water, fltrd, ug/L	nil, water, fltrd, ug/L
OCT 15 NOV 12 26	vater, fltrd, ug/L (04041)	water fltrd 0.7u GF ug/L (82682)	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170)	Diazi- non, water, fltrd, ug/L (39572)	Dieldrin, water, fltrd, ug/L (39381)	Disul- foton, water, fltrd 0.7u GF ug/L (82677)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethal- flur- alin, water, fltrd 0.7u GF ug/L (82663)	Etho- prop, water, fltrd 0.7u GF ug/L (82672)	Desulf- inyl- fipro- nil amide, wat flt ug/L (62169)	nil sulfide water, fltrd, ug/L (62167)	nil sulfone water, fltrd, ug/L (62168)	nil, water, fltrd, ug/L (62166)
OCT 15 NOV 12 26 DEC 19	zine, water, fltrd, ug/L (04041) <0.018	water fltrd 0.7u GF ug/L (82682) <0.003	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170) <0.004	Diazinon, water, fltrd, ug/L (39572) E0.004	Dieldrin, water, fltrd, ug/L (39381) <0.005	Disulfoton, water, fltrd 0.7u GF ug/L (82677) <0.02	EPTC, water, fltrd 0.7u GF ug/L (82668) <0.002	Ethal-fluralin, water, fltrd 0.7u GF ug/L (82663)	Ethoprop, water, fltrd 0.7u GF ug/L (82672) <0.005	Desulf-inyl-fipro-nil amide, wat flt ug/L (62169) <0.009	nil sulfide water, fltrd, ug/L (62167) <0.005	nil sulfone water, fltrd, ug/L (62168) <0.005	nil, water, fltrd, ug/L (62166) <0.007
OCT 15 NOV 12 26 DEC 19 JAN 23	zine, water, fltrd, ug/L (04041) <0.018 <0.018	water fltrd 0.7u GF ug/L (82682) <0.003 <0.003	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170) <0.004 <0.004	Diazi- non, water, fltrd, ug/L (39572) E0.004 0.005 E0.006	Dieldrin, water, fltrd, ug/L (39381) <0.005 <0.005	Disulfoton, water, fltrd 0.7u GF ug/L (82677) <0.02 <0.02	EPTC, water, fltrd 0.7u GF ug/L (82668) <0.002 <0.002	Ethal-fluralin, water, fltrd 0.7u GF ug/L (82663) <0.009 <0.009	Etho-prop, water, fltrd 0.7u GF ug/L (82672) <0.005 <0.005	Desulf-inyl-fipro-nil amide, wat flt ug/L (62169) <0.009 <0.009	nil sulfide water, fltrd, ug/L (62167) <0.005 E0.004 <0.005	nil sulfone water, fltrd, ug/L (62168) <0.005 <0.005	nil, water, fltrd, ug/L (62166) <0.007
OCT 15 NOV 12 26 DEC 19 JAN 23 FEB 20	zine, water, fltrd, ug/L (04041) <0.018 <0.018 <0.018	water fltrd 0.7u GF ug/L (82682) <0.003 <0.003 <0.003	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170) <0.004 <0.004 <0.004 <0.004	Diazinon, water, fltrd, ug/L (39572) E0.004 0.005 E0.006	Dieldrin, water, fltrd, ug/L (39381) <0.005 <0.005 <0.005	Disulfoton, water, fltrd 0.7u GF ug/L (82677) <0.02 <0.02 <0.02 <0.02	EPTC, water, fltrd 0.7u GF ug/L (82668) <0.002 <0.002 <0.002 0.003	Ethal-fluralin, water, fltrd 0.7u GF ug/L (82663) <0.009 <0.009 <0.009	Etho-prop, water, fltrd 0.7u GF ug/L (82672) <0.005 <0.005 <0.005	Desulf-inyl-fipro-nil amide, wat flt ug/L (62169) <0.009 <0.009 <0.009	nil sulfide water, fltrd, ug/L (62167) <0.005 E0.004 <0.005 <0.005	nil sulfone water, fltrd, ug/L (62168) <0.005 <0.005 <0.005	nil, water, fltrd, ug/L (62166) <0.007 E0.008 <0.007
OCT 15 NOV 12 26 DEC 19 JAN 23 FEB 20 MAR 13	zine, water, fltrd, ug/L (04041) <0.018 <0.018 <0.018 <0.018	water fltrd 0.7u GF ug/L (82682) <0.003 <0.003 <0.003 <0.003	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170) <0.004 <0.004 <0.004 <0.004	Diazinon, water, fltrd, ug/L (39572) E0.004 0.005 E0.006 <0.005	Dieldrin, water, fltrd, ug/L (39381) <0.005 <0.005 <0.005 <0.005	Disulfoton, water, fltrd 0.7u GF ug/L (82677) <0.02 <0.02 <0.02 <0.02 <0.02	EPTC, water, fltrd 0.7u GF ug/L (82668) <0.002 <0.002 <0.003 <0.003	Ethal-fluralin, water, fltrd 0.7u GF ug/L (82663) <0.009 <0.009 <0.009 <0.009	Etho-prop, water, fltrd 0.7u GF ug/L (82672) <0.005 <0.005 <0.005 <0.005	Desulf- inyl- fipro- nil amide, wat flt ug/L (62169) <0.009 <0.009 <0.009 <0.009	nil sulfide water, fltrd, ug/L (62167) <0.005 E0.004 <0.005 <0.005 <0.005	nil sulfone water, fltrd, ug/L (62168) <0.005 0.005 <0.005 <0.005 <0.005	nil, water, fltrd, ug/L (62166) <0.007 E0.008 <0.007 E0.004 <0.007
OCT 15 NOV 12 26 DEC 19 JAN 23 FEB 20 MAR 13 APR 03 17	zine, water, fltrd, ug/L (04041) <0.018 <0.018 <0.018 <0.018 <0.018 <0.018	water fltrd 0.7u GF ug/L (82682) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170) <0.004 <0.004 <0.004 <0.004 <0.004	Diazinon, water, fltrd, ug/L (39572) E0.004 0.005 E0.006 <0.005 <0.005	Dieldrin, water, fltrd, ug/L (39381) <0.005 <0.005 <0.005 <0.005 <0.005	Disulfoton, water, fltrd 0.7u GF ug/L (82677) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	EPTC, water, fltrd 0.7u GF ug/L (82668) <0.002 <0.002 <0.002 <0.003 <0.002 <0.002	Ethal-fluralin, water, fltrd 0.7u GF ug/L (82663) <0.009 <0.009 <0.009 <0.009 <0.009	Etho-prop, water, fltrd 0.7u GF ug/L (82672) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Desulf- inyl- fipro- nil amide, wat flt ug/L (62169) <0.009 <0.009 <0.009 <0.009 <0.009	nil sulfide water, fltrd, ug/L (62167) <0.005 E0.004 <0.005 <0.005 <0.005 <0.005	nil sulfone water, fltrd, ug/L (62168) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	nil, water, fltrd, ug/L (62166) <0.007 E0.008 <0.007 E0.004 <0.007
OCT 15 NOV 12 26 DEC 19 JAN 23 FEB 20 MAR 13 APR 03 17 MAY 01 22	zine, water, water, fltrd, ug/L (04041) <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018	water fltrd 0.7u GF ug/L (82682) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Diazinon, water, fltrd, ug/L (39572) E0.004 0.005 E0.006 <0.005 <0.005 <0.005 E0.005	Dieldrin, water, fltrd, ug/L (39381) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Disulfoton, water, fltrd 0.7u GF ug/L (82677) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0	EPTC, water, fltrd 0.7u GF ug/L (82668) <0.002 <0.002 <0.003 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002	Ethal-fluralin, water, fltrd 0.7u GF ug/L (82663) <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009	Etho-prop, water, fltrd 0.7u GF ug/L (82672) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Desulf-inyl-fipro-nil amide, wat flt ug/L (62169) <0.009 <0.009 <0.009 <0.009 <0.009 <0.009	nil sulfide water, fltrd, ug/L (62167) <0.005 E0.004 <0.005 <0.005 <0.005 <0.005 <0.005	nil sulfone water, fltrd, ug/L (62168) <0.005 0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	nil, water, fltrd, ug/L (62166) <0.007 E0.008 <0.007 E0.004 <0.007 <0.007 <0.007
OCT 15 NOV 12 26 DEC 19 JAN 23 FEB 20 MAR 13 APR 03 17 MAY 01 22 JUN 05 26	zine, water, fltrd, ug/L (04041) <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018	water fltrd 0.7u GF ug/L (82682) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Diazinon, water, fltrd, ug/L (39572) E0.004 0.005 E0.006 <0.005 <0.005 <0.005 E0.003 0.005 0.005	Dieldrin, water, fltrd, ug/L (39381) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Disulfoton, water, fltrd 0.7u GF ug/L (82677) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <	EPTC, water, fltrd 0.7u GF ug/L (82668) <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002	Ethal-fluralin, water, fltrd 0.7u GF ug/L (82663) <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009	Etho-prop, water, fltrd 0.7u GF ug/L (82672) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Desulf-inyl-fipro-nil amide, wat flt ug/L (62169) <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009	nil sulfide water, fltrd, ug/L (62167) <0.005 E0.004 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	nil sulfone water, fltrd, ug/L (62168) <0.005 0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	nil, water, fltrd, ug/L (62166) <0.007 E0.008 <0.007 E0.004 <0.007 <0.007 <0.007 <0.007 <0.007
OCT 15 NOV 12 26 DEC 19 JAN 23 FEB 20 MAR 13 APR 03 17 MAY 01 22 JUN 05 26 JUL 10	zine, water, fltrd, ug/L (04041) <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018	water fltrd 0.7u GF ug/L (82682) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Diazinon, water, fltrd, ug/L (39572) E0.004 0.005 E0.006 <0.005 <0.005 <0.005 E0.003 <0.005 E0.005 E0.005 E0.005 0.005 E0.005 0.005 E0.005	Dieldrin, water, fltrd, ug/L (39381) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Disulfoton, water, fltrd 0.7u GF ug/L (82677) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	EPTC, water, fltrd 0.7u GF ug/L (82668) <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002	Ethal-fluralin, water, fltrd 0.7u GF ug/L (82663) <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009	Etho-prop, water, fltrd 0.7u GF ug/L (82672) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Desulf-inyl-fipro-nil amide, wat flt ug/L (62169) <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009	nil sulfide water, fltrd, ug/L (62167) <0.005 E0.004 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	nil sulfone water, fltrd, ug/L (62168) <0.005 0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	nil, water, fltrd, ug/L (62166) <0.007 E0.008 <0.007 E0.004 <0.007 <0.007 <0.007 <0.007 <0.007 E0.005 E0.005 E0.005 E0.013
OCT 15 NOV 12 26 DEC 19 JAN 23 FEB 20 MAR 13 APR 03 17 MAY 01 22 JUN 05 26 JUL 10 14 23 AUG	zine, water, fltrd, ug/L (04041) <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018	water fltrd 0.7u GF ug/L (82682) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Diazinon, water, fltrd, ug/L (39572) E0.004 0.005 E0.006 <0.005 <0.005 <0.005 E0.003 <0.005 E0.005 E0.005 E0.005 E0.005 E0.005 E0.005 E0.005 E0.005	Dieldrin, water, fltrd, ug/L (39381) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Disulfoton, water, fltrd 0.7u GF ug/L (82677) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 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<0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009	nil sulfide water, fltrd, ug/L (62167) <0.005 E0.004 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	nil sulfone water, fltrd, ug/L (62168) <0.005 0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	nil, water, fltrd, ug/L (62166) <0.007 E0.008 <0.007 E0.004 <0.007 <0.007 <0.007 <0.007 <0.007 E0.005 E0.005 E0.005 E0.005 E0.009 E0.004
OCT 15 NOV 12 26 DEC 19 JAN 23 FEB 20 MAR 13 APR 03 17 MAY 01 22 JUN 05 26 JUL 10 14 23	zine, water, water, fltrd, ug/L (04041) <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018 <0.018	water fltrd 0.7u GF ug/L (82682) <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Diazinon, water, fltrd, ug/L (39572) E0.004 0.005 E0.006 <0.005 <0.005 <0.005 E0.003 <0.005 E0.005 E0.005 C0.005 E0.005 E0.005 E0.005 E0.005	Dieldrin, water, fltrd, ug/L (39381) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	Disulfoton, water, fltrd 0.7u GF ug/L (82677) <0.02 <0.02 <0.02 <0.02 <0.02 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<0.007 <0.007 <0.007 <0.007 E0.005 E0.005 <0.007 E0.013 E0.009

03374100 WHITE RIVER AT HAZLETON, IN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Fonofos water, fltrd, ug/L (04095)	Glufo- sinate, water, fltrd 0.7u GF ug/L (62721)	Glyphosate, water, fltrd 0.7u GF ug/L (62722)	Lindane water, fltrd, ug/L (39341)	Linuron water fltrd 0.7u GF ug/L (82666)	Mala- thion, water, fltrd, ug/L (39532)	Methyl para- thion, water, fltrd 0.7u GF ug/L (82667)	Metola- chlor, water, fltrd, ug/L (39415)	Metri- buzin, water, fltrd, ug/L (82630)	Molinate, water, fltrd 0.7u GF ug/L (82671)	Napropamide, water, fltrd 0.7u GF ug/L (82684)	p,p-' DDE, water, fltrd, ug/L (34653)	Parathion, water, fltrd, ug/L (39542)
OCT 15	< 0.003	< 0.1	<0.1	< 0.004	< 0.035	< 0.027	< 0.006	0.055	< 0.006	< 0.002	< 0.007	< 0.003	< 0.010
NOV 12	<0.003	<0.1	<0.1	< 0.004	< 0.035	< 0.027	<0.006	0.070	0.040	< 0.002	< 0.007	< 0.003	<0.010
26 DEC	<0.003	<0.1	<0.1	<0.004	<0.035	<0.027	<0.006	0.052	<0.006	<0.002	<0.007	<0.003	<0.010
19 JAN	<0.003	<0.1	<0.1	<0.004	<0.035	<0.027	<0.006	0.045	0.054	<0.002	E0.011	<0.003	<0.010
23 FEB	<0.003	<0.1	<0.1	<0.004	<0.035	<0.027	<0.006	0.035	<0.006	<0.002	<0.007	<0.003	<0.010
20 MAR	<0.003	<0.1	<0.1	<0.004	<0.035	<0.027	<0.006	0.020	<0.006	<0.002	<0.007	<0.003	<0.010
13 APR	< 0.003	<0.1	<0.1	<0.004	< 0.035	< 0.027	< 0.006	0.040	0.007	< 0.002	< 0.007	<0.003	<0.010
03 17 MAY	<0.003 <0.003	<0.1 <0.1	<0.1 <0.1	<0.004 <0.004	<0.035 <0.035	<0.027 <0.027	<0.006 <0.006	0.043 0.040	<0.006 <0.006	<0.002 <0.002	<0.007 <0.007	<0.003 <0.003	<0.010 <0.010
01 22 JUN	<0.003 <0.003	<0.1 <0.1	<0.1 <0.1	<0.004 <0.004	<0.035 <0.035	<0.027 <0.027	<0.006 <0.006	0.503 1.04	0.013 0.016	<0.002 <0.002	<0.007 <0.007	<0.003 <0.003	<0.010 <0.010
05 26 JUL	<0.003 <0.003	<0.1 <0.1	<0.1 <0.1	<0.004 <0.004	<0.035 <0.035	<0.027 <0.027	<0.006 <0.006	0.594 0.511	0.010 0.007	<0.002 <0.002	<0.007 <0.007	<0.003 <0.003	<0.010 <0.010
10 14	<0.003 <0.003	<0.1	<0.1	< 0.004	< 0.035	E0.003	<0.006 <0.006	0.679 0.716	0.011 0.019	< 0.002	< 0.007	< 0.003	< 0.010
23	< 0.003	<0.1	0.1	< 0.004	< 0.035	<0.027 <0.027	< 0.006	0.716	0.019	< 0.002	< 0.007	< 0.003	< 0.010
AUG 06 20	<0.003 <0.003	<0.1 <0.1	<0.1 <0.1	<0.004 <0.004	<0.035 <0.035	<0.027 <0.027	<0.006 <0.006	0.211 0.108	<0.006 <0.006	<0.002 <0.002	<0.007 <0.007	<0.003 <0.003	<0.010 <0.010
SEP 04	< 0.003	< 0.1	< 0.1	< 0.004	< 0.035	< 0.027	< 0.006	0.079	< 0.006	< 0.002	< 0.007	< 0.003	< 0.010
			WATER-0	QUALITY	DATA, W <i>i</i>	ATER YEA	R OCTOB	ER 2002 TO	O SEPTEM	BER 2003			
		Pendi-	WATER-0	QUALITY		ATER YEA			O SEPTEM				
Date	Peb- ulate, water, fltrd 0.7u GF ug/L (82669)	Pendimethalin, water, fltrd 0.7u GF ug/L (82683)	Phorate water fltrd 0.7u GF ug/L (82664)	Prometon, water, fltrd, ug/L (04037)	Pron- amide, water, fltrd 0.7u GF ug/L (82676)	Propa- chlor, water, fltrd, ug/L (04024)	Pro- panil, water, fltrd 0.7u GF ug/L (82679)	Propargite, water, fltrd 0.7u GF ug/L (82685)	Sima- zine, water, fltrd, ug/L (04035)	Tebu- thiuron water fltrd 0.7u GF ug/L (82670)	Terbacil, water, fltrd 0.7u GF ug/L (82665)	Terbu- fos, water, fltrd 0.7u GF ug/L (82675)	Thio- bencarb water fltrd 0.7u GF ug/L (82681)
OCT 15	ulate, water, fltrd 0.7u GF ug/L	meth- alin, water, fltrd 0.7u GF ug/L	Phorate water fltrd 0.7u GF ug/L	Prometon, water, fltrd, ug/L	Pron- amide, water, fltrd 0.7u GF ug/L	Propa- chlor, water, fltrd, ug/L	Propanil, water, fltrd 0.7u GF ug/L	Propargite, water, fltrd 0.7u GF ug/L	Sima- zine, water, fltrd, ug/L	Tebu- thiuron water fltrd 0.7u GF ug/L	cil, water, fltrd 0.7u GF ug/L	fos, water, fltrd 0.7u GF ug/L	bencarb water fltrd 0.7u GF ug/L
OCT 15 NOV 12	ulate, water, fltrd 0.7u GF ug/L (82669) <0.004	meth- alin, water, fltrd 0.7u GF ug/L (82683) <0.022	Phorate water fltrd 0.7u GF ug/L (82664) <0.011	Prometon, water, fltrd, ug/L (04037) 0.04 0.02	Pron- amide, water, fltrd 0.7u GF ug/L (82676) <0.004	Propachlor, water, fltrd, ug/L (04024) <0.010	Propanil, water, fltrd 0.7u GF ug/L (82679) <0.011	Propargite, water, fltrd 0.7u GF ug/L (82685)	Simazine, water, fltrd, ug/L (04035) 0.038	Tebu- thiuron water fltrd 0.7u GF ug/L (82670) <0.02	cil, water, fltrd 0.7u GF ug/L (82665) <0.034	fos, water, fltrd 0.7u GF ug/L (82675) <0.02	bencarb water fltrd 0.7u GF ug/L (82681) <0.005
OCT 15 NOV 12 26 DEC	ulate, water, fltrd 0.7u GF ug/L (82669) <0.004 <0.004	meth- alin, water, fltrd 0.7u GF ug/L (82683) <0.022 <0.022	Phorate water fltrd 0.7u GF ug/L (82664) <0.011 <0.011	Prometon, water, fltrd, ug/L (04037) 0.04 0.02 0.02	Pron- amide, water, fltrd 0.7u GF ug/L (82676) <0.004 <0.004	Propachlor, water, fltrd, ug/L (04024) <0.010 <0.010	Propanil, water, fltrd 0.7u GF ug/L (82679) <0.011 <0.011	Propargite, water, fltrd 0.7u GF ug/L (82685) <0.02 <0.02	Sima- zine, water, fltrd, ug/L (04035) 0.038 0.514 0.225	Tebu- thiuron water fltrd 0.7u GF ug/L (82670) <0.02 <0.02	cil, water, fltrd 0.7u GF ug/L (82665) <0.034 <0.034	fos, water, fltrd 0.7u GF ug/L (82675) <0.02 <0.02	bencarb water fltrd 0.7u GF ug/L (82681) <0.005 <0.005
OCT 15 NOV 12 26 DEC 19 JAN	ulate, water, fltrd 0.7u GF ug/L (82669) <0.004 <0.004 <0.004	meth- alin, water, fltrd 0.7u GF ug/L (82683) <0.022 <0.022 <0.022	Phorate water fltrd 0.7u GF ug/L (82664) <0.011 <0.011 <0.011	Prometon, water, fltrd, ug/L (04037) 0.04 0.02 0.02 E0.01	Pron- amide, water, fltrd 0.7u GF ug/L (82676) <0.004 <0.004 <0.004	Propachlor, water, fltrd, ug/L (04024) <0.010 <0.010 <0.010 <0.010	Propanil, water, fltrd 0.7u GF ug/L (82679) <0.011 <0.011 <0.011	Propargite, water, fltrd 0.7u GF ug/L (82685) <0.02 <0.02 <0.02 <0.02	Sima- zine, water, fltrd, ug/L (04035) 0.038 0.514 0.225	Tebu- thiuron water fltrd 0.7u GF ug/L (82670) <0.02 <0.02 <0.02 <0.02	cil, water, fltrd 0.7u GF ug/L (82665) <0.034 <0.034 E0.016	fos, water, fltrd 0.7u GF ug/L (82675) <0.02 <0.02 <0.02 <0.02	bencarb water fltrd 0.7u GF ug/L (82681) <0.005 <0.005 <0.005
OCT 15 NOV 12 26 DEC 19 JAN 23 FEB	ulate, water, fltrd 0.7u GF ug/L (82669) <0.004 <0.004 <0.004 <0.004	meth- alin, water, fltrd 0.7u GF ug/L (82683) <0.022 <0.022 <0.022 <0.022	Phorate water fltrd 0.7u GF ug/L (82664) <0.011 <0.011 <0.011 <0.011	Prometon, water, fltrd, ug/L (04037) 0.04 0.02 0.02 E0.01	Pron- amide, water, fltrd 0.7u GF ug/L (82676) <0.004 <0.004 <0.004 <0.004	Propachlor, water, fltrd, ug/L (04024) <0.010 <0.010 <0.010 <0.010 <0.010	Propanil, water, fltrd 0.7u GF ug/L (82679) <0.011 <0.011 <0.011 <0.011	Propargite, water, fltrd 0.7u GF ug/L (82685) <0.02 <0.02 <0.02 <0.02 <0.02	Sima- zine, water, fltrd, ug/L (04035) 0.038 0.514 0.225 1.06 0.167	Tebu- thiuron water fltrd 0.7u GF ug/L (82670) <0.02 <0.02 <0.02 <0.02 <0.02	cil, water, fltrd 0.7u GF ug/L (82665) <0.034 <0.034 <0.034 <0.034 <0.034	fos, water, fltrd 0.7u GF ug/L (82675) <0.02 <0.02 <0.02 <0.02 <0.02	bencarb water fltrd 0.7u GF ug/L (82681) <0.005 <0.005 <0.005 <0.005
OCT 15 NOV 12 26 DEC 19 JAN 23 FEB 20 MAR	ulate, water, fltrd 0.7u GF ug/L (82669) <0.004 <0.004 <0.004 <0.004 <0.004	methalin, water, fltrd 0.7u GF ug/L (82683) <0.022 <0.022 <0.022 <0.022 <0.022 <0.022	Phorate water fltrd 0.7u GF ug/L (82664) <0.011 <0.011 <0.011 <0.011 <0.011 <0.011	Prometon, water, fltrd, ug/L (04037) 0.04 0.02 0.02 E0.01 E0.01	Pron- amide, water, fltrd 0.7u GF ug/L (82676) <0.004 <0.004 <0.004 <0.004 <0.004	Propachlor, water, flurd, ug/L (04024) <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	Propanil, water, fltrd 0.7u GF ug/L (82679) <0.011 <0.011 <0.011 <0.011 <0.011	Propargite, water, fltrd 0.7u GF ug/L (82685) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	Sima- zine, water, fltrd, ug/L (04035) 0.038 0.514 0.225 1.06 0.167 0.179	Tebu- thiuron water fltrd 0.7u GF ug/L (82670) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	cil, water, fltrd 0.7u GF ug/L (82665) <0.034 <0.034 <0.034 <0.034 <0.034 <0.034	fos, water, fltrd 0.7u GF ug/L (82675) <0.02 <0.02 <0.02 <0.02 <0.02	bencarb water fltrd 0.7u GF ug/L (82681) <0.005 <0.005 <0.005 <0.005 <0.005
OCT 15 NOV 12 26 DEC 19 JAN 23 FEB 20 MAR 13	ulate, water, fltrd 0.7u GF ug/L (82669) <0.004 <0.004 <0.004 <0.004 <0.004	meth-alin, water, fltrd 0.7u GF ug/L (82683) <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022	Phorate water fltrd 0.7u GF ug/L (82664) <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011	Prometon, water, fltrd, ug/L (04037) 0.04 0.02 0.02 E0.01 E0.01 <0.01	Pron- amide, water, fltrd 0.7u GF ug/L (82676) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Propachlor, water, fltrd, ug/L (04024) <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	Propanil, water, fltrd 0.7u GF ug/L (82679) <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011	Propargite, water, fltrd 0.7u GF ug/L (82685) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	Sima- zine, water, fltrd, ug/L (04035) 0.038 0.514 0.225 1.06 0.167 0.179	Tebuthiuron water fltrd 0.7u GF ug/L (82670) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	cil, water, fltrd 0.7u GF ug/L (82665) <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034	fos, water, fltrd 0.7u GF ug/L (82675) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	bencarb water fltrd 0.7u GF ug/L (82681) <0.005 <0.005 <0.005 <0.005 <0.005 <0.005
OCT 15 NOV 12 26 DEC 19 JAN 23 FEB 20 MAR 13 APR 03	ulate, water, fltrd 0.7u GF ug/L (82669) <0.004 <0.004 <0.004 <0.004 <0.004	methalin, water, fltrd 0.7u GF ug/L (82683) <0.022 <0.022 <0.022 <0.022 <0.022 <0.022	Phorate water fltrd 0.7u GF ug/L (82664) <0.011 <0.011 <0.011 <0.011 <0.011 <0.011	Prometon, water, fltrd, ug/L (04037) 0.04 0.02 0.02 E0.01 E0.01	Pron- amide, water, fltrd 0.7u GF ug/L (82676) <0.004 <0.004 <0.004 <0.004 <0.004	Propachlor, water, flurd, ug/L (04024) <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	Propanil, water, fltrd 0.7u GF ug/L (82679) <0.011 <0.011 <0.011 <0.011 <0.011	Propargite, water, fltrd 0.7u GF ug/L (82685) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	Sima- zine, water, fltrd, ug/L (04035) 0.038 0.514 0.225 1.06 0.167 0.179	Tebu- thiuron water fltrd 0.7u GF ug/L (82670) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	cil, water, fltrd 0.7u GF ug/L (82665) <0.034 <0.034 <0.034 <0.034 <0.034 <0.034	fos, water, fltrd 0.7u GF ug/L (82675) <0.02 <0.02 <0.02 <0.02 <0.02	bencarb water fltrd 0.7u GF ug/L (82681) <0.005 <0.005 <0.005 <0.005 <0.005
OCT 15 NOV 12 26 DEC 19 JAN 23 FEB 20 MAR 13 APR 03 17 MAY 01 22	ulate, water, fltrd 0.7u GF ug/L (82669) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	methalin, water, fltrd 0.7u GF ug/L (82683) <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022	Phorate water fltrd 0.7u GF ug/L (82664) <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011	Prometon, water, fltrd, ug/L (04037) 0.04 0.02 0.02 E0.01 E0.01 <0.01 E0.01	Pronamide, water, fltrd 0.7u GF ug/L (82676) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Propachlor, water, fltrd, ug/L (04024) <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	Propanil, water, fltrd 0.7u GF ug/L (82679) <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011	Propargite, water, fltrd 0.7u GF ug/L (82685) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 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OCT 15 NOV 12 26 DEC 19 JAN 23 FEB 20 MAR 13 APR 03 17 MAY 01 22 JUN 05 26	ulate, water, fltrd 0.7u GF ug/L (82669) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	methalin, water, fltrd 0.7u GF ug/L (82683) <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022	Phorate water fltrd 0.7u GF ug/L (82664) <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011	Prometon, water, fltrd, ug/L (04037) 0.04 0.02 0.02 E0.01 E0.01 E0.01 E0.01 0.03	Pron- amide, water, fltrd 0.7u GF ug/L (82676) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Propachlor, water, fltrd, ug/L (04024) <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	Propanil, water, fltrd 0.7u GF ug/L (82679) <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011	Propargite, water, fltrd 0.7u GF ug/L (82685) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 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0.179 0.454 0.135 0.097 0.388	Tebu- thiuron water fltrd 0.7u GF ug/L (82670) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	cil, water, fltrd 0.7u GF ug/L (82665) <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034	fos, water, fltrd 0.7u GF ug/L (82675) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 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OCT 15 NOV 12 26 DEC 19 JAN 23 FEB 20 MAR 13 APR 03 17 MAY 01 22 JUN 05 26 JUL 10	ulate, water, fltrd 0.7u GF ug/L (82669) < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004 < 0.004	methalin, water, fltrd 0.7u GF ug/L (82683) <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022	Phorate water fltrd 0.7u GF ug/L (82664) <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.	Prometon, water, fltrd, ug/L (04037) 0.04 0.02 0.02 E0.01 E0.01 E0.01 -0.01 0.03 0.02 0.04 0.02 0.04 0.02 0.06	Pronamide, water, fltrd 0.7u GF ug/L (82676) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	Propachlor, water, flurd, ug/L (04024) <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	Propanil, water, fltrd 0.7u GF ug/L (82679) <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011	Propargite, water, fltrd 0.7u GF ug/L (82685) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 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<0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	cil, water, fltrd 0.7u GF ug/L (82665) <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 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OCT 15 NOV 12 26 DEC 19 JAN 23 FEB 20 MAR 13 APR 03 17 MAY 01 22 JUN 05 26 JUL 10 14 23	ulate, water, fltrd 0.7u GF ug/L (82669) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004	methalin, water, fltrd 0.7u GF ug/L (82683) <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022 <0.022	Phorate water fltrd 0.7u GF ug/L (82664) <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011 <0.011	Prometon, water, fltrd, ug/L (04037) 0.04 0.02 0.02 E0.01 E0.01 <0.01 e0.01 0.03 0.02 0.04 0.02	Pronamide, water, fltrd 0.7u GF ug/L (82676) <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 <0.004 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0.179 0.454 0.135 0.097 0.388 0.367 0.211 0.293 0.117 0.172	Tebuthiuron water fltrd 0.7u GF ug/L (82670) <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	cil, water, fltrd 0.7u GF ug/L (82665) <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 <0.034 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$03374100~WHITE~RIVER~AT~HAZLETON, IN\\--Continued$

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

		Tri-	Suspnd.	Sus-
	Tri-	flur-	sedi-	pended
	allate,	alin,	ment,	sedi-
	water,	water,	sieve	ment
	fltrd	fltrd	diametr	concen-
	0.7u GF	0.7u GF	percent	tration
Date	ug/L	ug/L	<.063mm	mg/L
Date	(82678)	(82661)	(70331)	(80154)
	(82078)	(82001)	(70331)	(00154)
OCT				
15	< 0.002	< 0.009	93	74
NOV				
12	< 0.002	< 0.009	97	223
26	< 0.002	< 0.009	88	37
DEC	<0.002	(0.00)	00	31
19	< 0.002	< 0.009	90	189
JAN	<0.002	<0.007	70	10)
23	< 0.002	< 0.009	76	18
FEB	<0.002	CO.009	70	10
20	< 0.002	< 0.009	93	67
MAR	<0.002	<0.009	93	07
13	< 0.002	< 0.009	90	163
APR	<0.002	CO.009	90	103
03	< 0.002	< 0.009	87	126
17	< 0.002	<0.009	95	66
MAY	<0.002	<0.009	93	00
	-0.002	-0.000	02	120
01	<0.002	<0.009	92	130
22	< 0.002	< 0.009	94	128
JUN	0.002	0.000	0.4	00
05	< 0.002	< 0.009	94	80
26	< 0.002	< 0.009	43	202
JUL	0.000	0.000	0.7	
10	< 0.002	< 0.009	97	505
14		< 0.009	87	207
23	< 0.002	< 0.009	96	215
AUG				
06	< 0.002	< 0.009	98	132
20	< 0.002	< 0.009	95	77
SEP				
04	< 0.002	< 0.009		601

03374455 PATOKA RIVER NEAR HARDINSBURG, IN

LOCATION.--Lat 38°26′41", long 86°23′14", in NW¹/₄SE¹/₄ sec.10, T.1 S., R.1 E., Orange County, Hydrologic Unit 05120209, (VALEENE, IN quadrangle), on downstream edge of right 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 October 2003 (discontinued).

GAGE.--Water-stage recorder and partial concrete control. Datum of gage is 606.89 ft above National Geodetic Vertical Datum of 1929.

REMARKS .-- Records poor.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES DAY OCT NOV DEC FEB MAR APR MAY JUN JUL AUG SEP JAN e0.00 e0.64 e3.0 e2.8 431 e3.1 35 28 18 5.2 0.64 e0.362 e0.67 e3.1 e2.7 137 e3.3 64 2.1 14 4.5 0.58 e0.47 e0.21 3 e0.70 e6.0 e2.5 75 e4.3 55 17 11 8.5 0.44 e0.59 e0.16 4 e0.92 e6.2 e2.4 49 e30 56 15 8.9 8.2 0.35 e0.41 e0.16 5 e1.2 e9.5 e2.6 38 e19 81 21 233 5.8 0.32 e0.35 e0.19 e10 6 e0.65e20 29 54 17 96 0.34e0.29e0.13e2.5 36 e0.46 e5.8 e24 e6.0 20 76 3.6 0.31 e0.38 e0.09 e5.2 e2.7 29 21 2.9 8 e0.51 e20 e4.7 46 0.31 e0.30 e0.09 e0.40 e4.7 e2.5 23 102 0.48 e0.23 e0.04 e17 e3.4 1.9 10 e180 e2.6 18 21 149 e0.38 e0.63 e15 e4.4 7.0 e0.03 11 e139 e3.6 16 18 106 2.0 e0.70e0.03e1.2 e8.0e13 6.4 e0.60 12 e1.0 e34 e15 e12 e3.0 20 15 49 121 0.83 e0.0237 52 21 e0.70 e37 13 e14 e10 e11 12 26 0.58 e0.71 e0.0214 e0.62e9.0 e58 e9.1 14 39 10 17 0.43e0.70e0.0115 e0.95 e7.4 e29 e8.0 148 29 9.2 13 12 e0.40 e0.74 e0.01 e12 16 e0.89 e6.2 e7.1 79 23 8.5 10 8.2 e0.52 e0.53 e0.01 17 e0.76 e5.6 e8.9 e6.0 41 20 98 24 6.0 e0.45 e0.42 e0.01 18 e0.71 e5.1 e35 e5.0 27 18 83 106 4.4 e0.51 e0.37 e0.01 e0.95 e4.6 e210 e4.3 25 40 e0.22 e0.28 e0.0042 79 27 69 20 e1.1 e4.3 e150 e4.0 3.0 e0.21 e0.18 e0.00 2.1 e0.84e3.5 e48 e3.7 89 79 43 88 2.2 e0.29e0.09e0.0022 542 53 27 1.9 e0.30e0.66e3.8 e26 e3.2 38 e0.06e0.0623 e2.9 217 36 19 21 e0.62e3.4 1.6 e0.33e0.04e0.13e16 24 e0.58 2.7 e3.2 e2.597 e0.39e0.03e0.12e8.0 15 14 1.3 25 22 e13 e3.0e12 e3.055 345 13 0.95e0.50e0.01e0.0726 40 41 e6.0 e3.0 e7.8 e2.6 232 14 0.90e0.46 e0.01e0.09 2.7 e2.3 e2.8 e7.1 e2.3 32 32 77 11 0.98 e0.39 e0.01 e0.11 8.2 7.7 28 e3.4 e3.0 e6.4 e2.7 26 25 39 0.79 e0.35 e0.00 e0.22 29 97 e31 e3.3 e6.1 e3.6 35 0.63 e0.60 e0.00 e0.11 56 e2.9 e3.2 26 6.3 0.55 e0.47e0.00e0.1031 e4.8 e107 e2.8 36 6.1 e0.46 e0.00 TOTAL 91.86 504.6 849.1 946.0 1,579.8 1,320 1,381.7 1,435.2 296.60 21.46 9.24 2.23 2.96 30.5 46.1 9.89 0.69 0.30 0.074 MEAN 16.8 27.4 56.4 42.6 46.3 31 210 542 97 345 0.74 0.22 MAX 180 431 233 121 7.0 3.0 MIN 0.40 2.8 2.4 2.3 16 8.5 6.1 0.55 0.21 0.00 0.00 0.23 1.31 2.14 2.38 3.33 3.60 0.02 4.41 3.62 0.77 0.05 0.01 CFSM 0.27 2.47 2.75 3.84 1.47 4.59 4.17 0.03 4.02 0.06 0.01 IN. 0.86STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2003, BY WATER YEAR (WY) 40.2 8.96 MEAN 3.67 32.6 34.0 18.4 5.22 3.79 89.6 MAX 28.0 109 107 89.6 134 158 108 35.8 34.4 (WY) (1982)(1997)(1996)(1997)(2002)(1980)(1991)(1990)(1996)(1979)(1998)(1996)2.58 MIN 0.000 0.000 1.17 0.61 8.80 6.79 2.47 0.46 0.26 0.000 0.000 (1992)(2001)(WY) (1998)(2000)(1981)(1981)(1981)(1976)(1988)(1983)(1991)(1999)SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1969 - 2003 10,553.18 ANNUAL TOTAL 8,437.79 ANNUAL MEAN 28.9 23.1 25.2 HIGHEST ANNUAL MEAN 47.3 1996 LOWEST ANNUAL MEAN 6.35 1992 HIGHEST DAILY MEAN 908 542 Feb 22 Jul 26, 1979 May 13 1.770 0.00 9 0.00 Aug 28 0.00 Oct 4, 1970 LOWEST DAILY MEAN Aug ANNUAL SEVEN-DAY MINIMUM Sep 11, 1972 Aug 26 0.00 0.00 3 0.00 Sep MAXIMUM PEAK FLOW 1.420 Feb 22 9.270 Jul 26, 1979

2.26

30.67

6.2

0.03

68

7.34

1.81

24.52

4.8

0.15

57

Feb 22

11.35

26.74

5.1

0.24

53

1.97

Jul 26, 1979

MAXIMUM PEAK STAGE

10 PERCENT EXCEEDS

50 PERCENT EXCEEDS

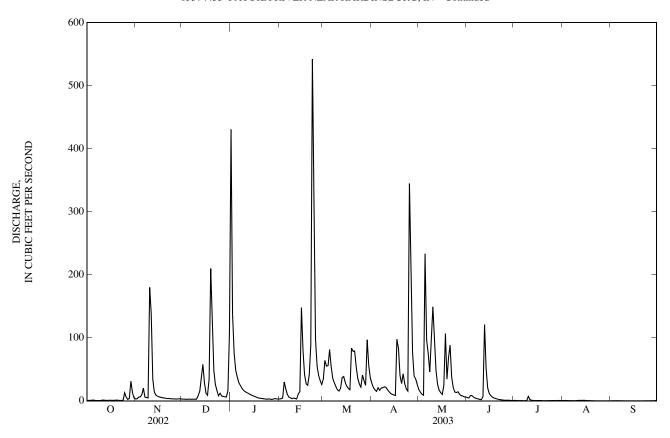
90 PERCENT EXCEEDS

ANNUAL RUNOFF (CFSM)

ANNUAL RUNOFF (INCHES)

e Estimated

03374455 PATOKA RIVER NEAR HARDINSBURG, IN—Continued



03374500 PATOKA RIVER NEAR CUZCO, IN

LOCATION.--Lat 38°26'31", long 86°42'51", in SW\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}SW\frac{1}{3} sec.11, T.1 S., R.3 W., Dubois County, Hydrologic Unit 05120209 (CUZCO, IN quadrangle), on right bank 30 ft upstream from bridge on Cuzco Road South, 0.7 mi downstream from Patoka Lake, 2.3 mi south of Cuzco, 4.5 mi upstream from Dillon Creek, and at mile 117.8.

DRAINAGE AREA.--170 mi².

PERIOD OF RECORD.--June 1961 to September 1981 (discharge). October 1981 to September 2001 (discharge provided by U.S. Army Corps of Engineers). October 2001 to current year (stage only).

GAGE.--Water-stage recorder. Datum of gage is 477.00 ft above National Geodetic Vertical Datum of 1929, (levels by State of Indiana, Department of Natural Resources). Prior to Oct. 1, 1961, nonrecording gage on downstream side of bridge, 1.7 mi downstream at same datum. Oct. 1, 1961 to Sept. 30, 1981, water-stage recorder at site described above. Prior to October 1979, published as "near Ellsworth".

REMARKS.--Flow regulated by U.S. Army Corps of Engineers from Patoka Lake since February 1978.

COOPERATION.--Records of discharge provided by U.S. Army Corps of Engineers October 1981 to September 2001.

EXTREMES FOR PERIOD OF RECORD.--(October 2001 to current year) maximum gage height, 10.63 ft, Jan. 20, 21, 2002, minimum gage height, 2.12 ft, June 20, 2002. (June 1961 to September 1981) 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 gage height, 9.55 ft, Jan. 25; minimum gage height, 2.61 ft, July 23.

GAGE HEIGHT, FEET WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	3.39 3.40 3.40 3.41 3.41	3.47 3.53 3.52 3.51 3.53	5.78 5.78 5.78 	4.52 4.27 4.23 4.21 4.20	5.30 5.25 4.18 4.14 4.13	5.64 5.62 5.62 5.63 5.61	7.18 7.12 6.33 5.04 4.16	3.57 3.49 3.47 3.52 3.66	3.61 3.63 3.63 3.62 3.60	3.58 3.56 3.56 3.56 3.56	3.67 3.67 3.67 3.67 3.67	4.33 3.71 3.68 3.65 4.33
6 7 8 9 10	3.41 3.40 3.40 3.40 3.40	3.49 3.49 3.49 3.50 3.95	 	6.19 7.98 7.93 7.84 7.81	4.13 4.12 4.12 4.11 4.11	7.31 7.29 7.33 7.27 7.23	4.17 4.17 4.17 4.17 4.16	3.52 3.54 3.95 6.34 3.80	3.59 3.58 3.58 3.57 3.67	3.56 3.56 3.67 3.62 3.63	3.67 3.67 3.66 3.66 3.66	4.33 4.33 4.32 4.32 4.31
11 12 13 14 15	3.40 3.39 3.40 3.41 3.40	3.56 4.34 4.31 4.30 4.30	5.76 5.75 5.83 5.78 5.77	7.76 7.73 7.87 7.87 8.34	4.11 4.11 4.11 4.22 4.21	8.37 8.41 8.47 8.42 8.37	4.16 4.15 4.15 4.15 4.15	3.75 3.68 3.65 3.64 3.65	4.31 3.95 3.63 3.60 3.58	3.58 3.57 3.56 3.56 3.63	3.66 3.65 3.65 3.65 3.65	4.32 4.31 4.31 4.32 4.32
16 17 18 19 20	3.41 3.41 3.41 3.42 3.41	4.29 4.29 5.19 5.17 5.17	5.75 5.76 5.82 4.61 4.25	8.32 8.28 8.65 8.60 8.57	4.15 5.01 5.00 5.03 5.08	8.33 8.30 8.29 7.36 7.23	3.41 3.55 3.47 3.44 4.09	3.64 4.66 3.68 3.65 3.78	3.57 3.56 3.58 3.58 3.57	3.56 3.56 3.56 3.55 3.55	3.65 3.65 3.65 3.65 3.65	4.31 4.31 4.31 4.31 4.31
21 22 23 24 25	3.41 3.41 3.42 3.42 3.47	5.85 5.83 5.82 5.81 5.80	4.21 4.20 5.74 5.74 5.73	9.47 9.48 9.44 9.52 9.47	4.39 7.09 3.61 3.52 3.49	7.18 7.27 7.20 7.24 7.18	3.55 3.49 3.47 3.46 4.65	3.67 3.64 3.63 3.62 3.64	3.57 3.56 3.56 3.56 3.56	3.59 3.56 3.59 3.60 3.63	3.65 3.65 3.65 3.65 3.64	4.32 4.32 4.32 4.32 4.32
26 27 28 29 30 31	3.44 3.44 3.45 3.49 3.45 3.45	5.80 5.79 5.78 5.78 5.79	8.03 8.03 8.00 7.97 7.99 7.22	9.42 9.36 9.45 9.41 7.32 5.36	5.01 5.00 5.61 	7.25 7.17 7.22 7.08 7.24	3.56 3.50 3.48 3.47 3.46	3.63 3.62 3.62 3.62 3.61 3.61	3.57 3.56 3.56 3.56 3.56	3.68 3.68 3.68 3.68 3.67 3.67	3.64 3.64 3.65 3.64 3.64	4.33 4.32 4.33 4.32 4.33
MEAN MAX MIN	3.42 3.49 3.39	4.62 5.85 3.47	 	7.71 9.52 4.20	4.51 7.09 3.49	 	4.18 7.18 3.41	3.76 6.34 3.47	3.62 4.31 3.56	3.60 3.68 3.55	3.65 3.67 3.64	4.26 4.33 3.65

03374500 PATOKA RIVER NEAR CUZCO, IN—Continued

WATER-QUALITY RECORDS

INSTRUMENTATION.--Temperature recorder.

PERIOD OF RECORD .--

WATER TEMPERATURE.--October 1987 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.-- WATER TEMPERATURE: Maximum, 32.6°C, July 31, 1999; minimum, 0.4°C, Jan. 18, 19, 1994, and Jan. 11, 1996.

EXTREMES FOR CURRENT YEAR.-- WATER TEMPERATURE: Maximum, 30.3°C, Aug. 21, minimum, 1.9°C, Feb. 16, 24.

TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER	₹	N	OVEMBE	ER	D	ECEMBE	ER.	Į	IANUARY	Y
1 2 3 4 5	22.1 22.3 22.1 23.6 22.0	21.1 21.2 21.1 21.3 20.2	21.6 21.7 21.6 22.3 21.0	15.3 15.1 14.4 14.2 14.0	14.4 14.2 14.2 14.0 13.7	14.9 14.5 14.3 14.1 13.9	9.0 8.7 8.5	8.7 8.5 8.1	8.9 8.6 8.3	6.5 5.9 5.6 5.7 5.5	5.8 5.6 5.4 5.2 5.3	6.1 5.8 5.5 5.4 5.4
6 7 8 9 10	22.2 21.0 21.6 21.0 20.8	20.6 20.0 20.3 20.4 20.4	21.2 20.5 20.8 20.6 20.6	13.7 14.0 14.0 13.8 14.7	13.2 13.0 13.0 13.2 13.5	13.5 13.4 13.4 13.5 14.0	 	 	 	5.4 5.3 5.4 5.3 5.2	5.2 5.1 5.0 5.1 5.0	5.3 5.2 5.2 5.2 5.1
11 12 13 14 15	20.7 20.6 20.0 20.1 19.6	20.5 20.0 18.9 18.8 18.9	20.6 20.4 19.4 19.4 19.2	14.0 13.2 13.4 13.2 12.9	13.0 12.8 12.7 12.8 12.6	13.4 13.0 13.0 13.0 12.8	6.3 6.4 6.3 6.1 6.2	6.3 6.2 6.0 5.9 5.8	6.3 6.3 6.2 6.0 6.0	5.0 4.7 4.5 4.4 4.4	4.7 4.5 4.3 4.1 4.1	4.9 4.6 4.4 4.3 4.2
16 17 18 19 20	19.2 18.8 18.9 18.3 18.2	18.4 18.1 17.8 17.9 17.4	18.7 18.4 18.3 18.1 17.7	12.6 12.3 12.0 12.1 11.9	12.3 11.8 11.6 11.6 11.5	12.5 12.1 11.8 11.8 11.7	6.2 6.1 6.5 8.4 7.4	5.9 5.9 6.1 6.5 6.3	6.0 6.0 6.3 7.1 6.7	4.2 3.9 3.6 3.5 3.4	3.8 3.6 3.2 3.2 3.2	3.9 3.7 3.4 3.3 3.3
21 22 23 24 25	18.3 18.0 17.8 17.7 16.9	17.1 17.0 16.8 16.8 16.7	17.6 17.3 17.2 17.1 16.8	11.8 11.3 11.2 11.1 10.7	11.3 11.0 10.8 10.7 10.4	11.6 11.2 11.0 10.9 10.6	6.7 6.6 6.3 6.1 5.9	6.1 6.0 5.9 5.7	6.4 6.4 6.1 6.0 5.8	3.3 2.9 3.0 2.7 2.3	2.7 2.7 2.7 2.3 2.2	3.0 2.8 2.8 2.5 2.3
26 27 28 29 30 31	16.8 16.8 16.6 16.3 15.6 15.5	16.5 16.3 16.2 15.2 15.4 15.1	16.7 16.5 16.3 15.7 15.5 15.3	10.4 10.2 9.9 9.7 9.6	10.2 9.9 9.6 9.4 9.0	10.3 10.1 9.8 9.6 9.3	5.7 5.6 5.5 5.6 5.8 5.9	5.4 5.3 5.3 5.2 5.5 5.7	5.6 5.5 5.4 5.4 5.6 5.8	2.2 2.4 2.5 2.6 2.8 3.1	2.2 2.2 2.3 2.5 2.6 2.7	2.2 2.3 2.4 2.6 2.7 2.9
MONTH	23.6	15.1	18.8	15.3	9.0	12.3				6.5	2.2	4.0

03374500 PATOKA RIVER NEAR CUZCO, IN—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN		MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1 2 3 4 5	3.1 3.5 3.5 3.9 3.6	3.0 3.0 3.2 3.1 3.0	3.1 3.2 3.4 3.5 3.2	2.5 2.9 2.9 3.1 3.2	2.4 2.5 2.6 2.6 3.0	2.5 2.7 2.7 2.8 3.1	10.7 11.4 12.1 12.5 12.4	9.8 10.4 10.8 11.4 11.4	10.3 10.9 11.4 12.0 11.7	16.5 16.2 16.5 17.1 18.2	MAY 14.4 14.2 14.0 15.1 16.1	15.2 15.1 15.1 16.1 17.0
6 7 8 9 10	3.1 3.2 3.0 3.2 3.2	2.9 2.6 2.5 2.7 2.8	3.0 3.0 2.7 2.9 2.9	3.2 3.3 3.9 3.9 4.0	3.0 2.9 2.9 3.6 3.7	3.0 3.1 3.4 3.8 3.8	11.6 11.5 11.4 11.0 11.6	11.2 11.0 11.0 10.7 10.4	11.4 11.2 11.1 10.8 10.9	17.1 17.3 16.7 17.9 17.5	15.6 15.9 15.5 16.3 15.9	16.3 16.5 16.1 17.2 16.7
11 12 13 14 15	3.4 3.4 3.4 2.8 2.8	2.5 2.6 2.5 2.6 2.5	2.9 2.9 2.9 2.8 2.7	4.1 4.4 4.4 5.0 5.3	3.8 4.0 4.3 4.3 4.6	3.9 4.2 4.3 4.6 4.9	11.8 11.9 12.4 13.0 12.7	10.7 10.6 10.6 11.3 11.4	11.1 11.1 11.3 12.1 12.1	17.1 16.3 18.0 18.4 18.2	14.7 14.4 15.0 16.3 17.1	16.1 15.2 16.4 17.3 17.4
16 17 18 19 20	2.5 2.4 2.4 2.5 2.7	2.0 2.1 2.3 2.3 2.3	2.2 2.2 2.4 2.4 2.4	5.9 5.8 6.1 7.9 7.6	5.0 5.1 5.6 5.9 6.6	5.3 5.5 5.8 6.8 7.2	14.8 15.8 14.2 15.6 16.3	11.9 14.2 13.0 13.0 14.0	13.3 14.8 13.6 14.2 15.1	18.4 19.1 19.1 19.3 17.9	16.8 17.2 18.2 17.8 16.4	17.5 18.2 18.7 18.7 17.6
21 22 23 24 25	3.1 3.3 4.0 3.4 3.4	2.5 2.2 2.2 1.9 2.1	2.7 2.8 2.9 2.6 2.6	7.5 7.3 7.3 7.8 8.5	5.8 5.9 6.8 7.1 7.3	6.4 6.5 7.1 7.4 7.7	15.1 13.6 15.4 15.7 15.3	12.9 12.1 12.1 13.9 13.3	13.7 12.7 13.6 14.8 14.4	18.2 19.0 18.6 18.8 17.7	16.1 17.2 16.9 16.6 17.2	17.3 17.9 17.6 17.6 17.4
26 27 28 29 30 31	2.5 2.4 2.6 	2.1 2.2 2.3 	2.3 2.3 2.4	8.1 9.8 11.3 10.4 10.0	7.1 7.7 9.7 9.4 9.0	7.7 8.5 10.5 9.8 9.6	16.3 16.3 16.1 16.1 16.2	13.4 13.9 13.8 14.0 14.4	14.7 14.9 14.7 14.9 15.2	18.8 18.6 19.0 20.0 20.7 19.8	17.4 17.0 16.9 16.7 18.2 18.0	17.8 17.6 17.7 18.1 19.4 19.1
MONTH	4.0	1.9	2.8				16.3	9.8	12.8	20.7	14.0	17.2
		JUNE			JULY			AUGUST		Si	ЕРТЕМВІ	≅R
1 2 3 4 5	20.5 20.4 19.7 19.2 20.5	JUNE 18.0 19.2 19.2 18.5 18.4	19.1 19.7 19.5 18.9 19.3	24.2 24.5 24.5 24.8 26.1	JULY 22.6 22.7 22.7 23.2 23.4	23.4 23.4 23.5 23.8 24.6	29.0 28.2 28.6 28.4 28.6	27.4 27.6 27.2 27.2 27.2 27.0	28.1 27.9 27.7 27.6 27.6	\$1 28.6 27.3 27.6 27.5 27.1	24.7 26.2 26.8 26.5 25.9	27.6 27.1 27.0 26.8 26.4
2 3 4	20.4 19.7 19.2 20.5 20.5 20.9 20.3 21.0	18.0 19.2 19.2 18.5 18.4 18.8 19.8 19.2 19.0	19.7 19.5 18.9 19.3 19.6 20.2 19.9	24.5 24.5 24.8 26.1 25.6 25.7 25.1 24.4	22.6 22.7 22.7 23.2 23.4 23.7 23.1 22.7 23.4	23.4 23.5 23.8	29.0 28.2 28.6 28.4 28.6 27.8 28.1 28.3 28.0	27.4 27.6 27.2 27.2 27.0 27.0 26.8	28.1 27.9 27.7 27.6 27.6 27.3 27.3	28.6 27.3 27.6 27.5	24.7 26.2 26.8 26.5 25.9 25.9 25.7	27.6 27.1 27.0 26.8 26.4 26.3 26.0
2 3 4 5 6 7 8 9	20.4 19.7 19.2 20.5 20.5 20.9 20.3 21.0	18.0 19.2 19.2 18.5 18.4 18.8 19.8 19.2 19.0	19.7 19.5 18.9 19.3 19.6 20.2 19.9	24.5 24.5 24.8 26.1 25.6 25.7 25.1 24.4	22.6 22.7 22.7 23.2 23.4 23.7 23.1 22.7 23.4	23.4 23.5 23.8 24.6 24.5 24.6 24.0 23.9	29.0 28.2 28.6 28.4 28.6 27.8 28.1 28.3 28.0	27.4 27.6 27.2 27.2 27.0 27.0 26.8	28.1 27.9 27.7 27.6 27.6 27.3 27.3	28.6 27.3 27.6 27.5 27.1 26.8 26.3	24.7 26.2 26.8 26.5 25.9 25.9 25.7	27.6 27.1 27.0 26.8 26.4 26.3 26.0
2 3 4 5 6 7 8 9 10	20.4 19.7 19.2 20.5 20.5 20.9 20.3 21.0 21.0 21.3 20.6 21.6 22.0	18.0 19.2 19.2 18.5 18.4 18.8 19.2 19.0 19.5 20.1 19.2 19.3 20.7	19.7 19.5 18.9 19.3 19.6 20.2 19.9 19.8 20.2 20.6 19.9 20.6 21.2	24.5 24.5 24.8 26.1 25.6 25.7 25.1 24.4 25.6 24.0 25.5 25.8 26.3	22.6 22.7 22.7 23.2 23.4 23.7 23.1 22.7 23.4 21.6 21.1 21.5 22.5 23.7	23.4 23.5 23.8 24.6 24.5 24.6 24.0 23.9 24.0 22.6 23.6 24.2 24.8	29.0 28.2 28.6 28.4 28.6 27.8 28.1 28.3 28.0 28.2 27.8 28.2 29.1	27.4 27.6 27.2 27.2 27.0 26.8 26.8 26.7 26.8 27.1 26.8 27.1 26.8 27.3 27.6	28.1 27.9 27.7 27.6 27.6 27.3 27.3 27.3 27.2 27.3 27.4 27.4 27.7 28.2	28.6 27.3 27.6 27.5 27.1 26.8 26.3 26.4 26.7 26.9 27.2 27.3 26.8	24.7 26.2 26.8 26.5 25.9 25.7 25.5 25.4 25.8 26.1 26.3 26.3 25.9	27.6 27.1 27.0 26.8 26.4 26.3 26.0 25.9 26.0 26.2 26.5 26.6 26.7 26.5
2 3 4 5 6 7 8 9 10 11 12 13 14 15	20.4 19.7 19.2 20.5 20.5 20.9 20.3 21.0 21.0 21.3 20.6 21.6 22.0 21.5 21.9 22.5 22.7 21.5	18.0 19.2 19.2 18.5 18.4 18.8 19.8 19.2 19.0 19.5 20.1 19.2 19.3 20.7 20.5 20.9 20.8 20.7 21.0	19.7 19.5 18.9 19.3 19.6 20.2 19.9 19.8 20.2 20.6 19.9 20.6 21.2 20.9 21.3 21.5 21.6 21.3	24.5 24.5 24.8 26.1 25.6 25.7 25.1 24.4 25.6 24.0 25.5 25.8 26.3 25.6 26.2 26.2 26.3	22.6 22.7 22.7 23.2 23.4 23.1 22.7 23.4 21.6 21.1 21.5 22.5 23.7 24.0 22.9 24.1 24.0 24.2	23.4 23.5 23.8 24.6 24.5 24.6 24.0 23.9 24.0 22.6 23.6 24.2 24.8 24.7 24.6 24.9 24.6 24.9	29.0 28.2 28.6 28.4 28.6 27.8 28.1 28.0 28.2 27.8 28.2 28.2 29.1 28.9 28.7 29.3 29.8 29.8	27.4 27.6 27.2 27.2 27.0 26.8 26.7 26.8 27.1 26.8 27.3 27.6 27.7 27.4 27.5 28.5 28.0	28.1 27.9 27.7 27.6 27.6 27.3 27.3 27.3 27.2 27.3 27.4 27.7 28.2 28.1 27.9 28.3 28.9 28.7	28.6 27.3 27.6 27.5 27.1 26.8 26.3 26.4 26.7 26.9 27.2 27.3 26.8 26.2 26.2 26.2 26.2 26.2 25.4	24.7 26.2 26.8 26.5 25.9 25.7 25.5 25.4 25.8 26.1 26.3 26.3 25.9 25.3 25.0 25.1 25.0 24.3	27.6 27.1 27.0 26.8 26.4 26.3 26.0 25.9 26.0 26.2 26.5 26.6 26.7 26.5 25.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	20.4 19.7 19.2 20.5 20.5 20.9 20.3 21.0 21.0 21.3 20.6 21.6 22.0 21.5 21.9 22.5 22.7 21.5 23.2 22.9 23.5 23.9 24.3	18.0 19.2 19.2 18.5 18.4 18.8 19.2 19.0 19.5 20.1 19.2 19.3 20.7 20.5 20.9 20.8 20.7 21.0 21.0 21.3 21.5 21.6 22.0	19.7 19.5 18.9 19.3 19.6 20.2 19.9 19.8 20.2 20.6 19.9 20.6 21.2 20.9 21.3 21.5 21.6 21.3 22.0 22.3 22.6 22.9	24.5 24.5 24.8 26.1 25.6 25.7 25.1 24.4 25.6 24.0 25.5 25.8 26.3 25.6 26.2 26.3 25.2 25.9 26.2 25.9 26.2 25.9 26.2	22.6 22.7 22.7 23.2 23.4 23.7 23.1 22.7 23.4 21.6 21.1 21.5 22.5 23.7 24.0 24.2 24.3 24.3 23.4 20.0 19.9	23.4 23.5 23.8 24.6 24.5 24.6 24.0 23.9 24.0 22.6 23.6 24.2 24.8 24.7 24.6 24.9 24.6 24.9 25.0 24.9 24.9 25.0	29.0 28.2 28.6 28.4 28.6 27.8 28.1 28.3 28.0 28.2 27.8 28.2 28.2 29.1 28.9 28.7 29.3 29.8 29.8 29.8 29.8 29.8	27.4 27.6 27.2 27.2 27.0 27.0 26.8 26.8 26.7 26.8 27.1 26.8 27.3 27.6 27.7 27.4 27.5 28.5 28.0 28.2	28.1 27.9 27.7 27.6 27.6 27.3 27.3 27.3 27.2 27.3 27.4 27.7 28.2 28.1 27.9 28.3 28.9 28.7 28.9 29.0 29.0 28.8	28.6 27.3 27.6 27.5 27.1 26.8 26.3 26.4 26.7 26.9 27.2 27.3 26.8 26.2 26.2 26.2 26.2 25.4 25.1 24.7 24.0 24.0	24.7 26.2 26.8 26.5 25.9 25.9 25.7 25.5 25.4 25.8 26.1 26.3 26.3 25.9 25.3 25.0 24.3 23.8 23.8 23.7 23.2 23.0	27.6 27.1 27.0 26.8 26.4 26.3 26.0 25.9 26.0 26.2 26.5 26.6 26.7 25.5 25.7 25.5 24.9 24.3 24.2 24.0 23.4

03375500 PATOKA RIVER AT JASPER, IN

LOCATION.--Lat 38°24'49", long 86°52'36", in NW¹/₄SE¹/₄ sec. 20, T.1 S., R.4 W., Dubois County, Hydrologic Unit 05120209, (JASPER, IN quadrangle), on left bank 0.3 mi upstream from unnamed outlet of Idlewild Lake, 1.2 mi downstream from county road bridge, 1.2 mi downstream from Beaver Creek, 3.3 mi northeast of Jasper, and at mile 91.5.

DRAINAGE AREA.--262 mi².

(WY)

(1949)

(1954)

(1954)

(1964)

(1964)

(1992)

(2001)

(2001)

(1953)

(1954)

(1952)

(1953)

PERIOD OF RECORD .-- November 1947 to current year.

REVISED RECORDS .-- WSP 1909: 1958. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 446.00 ft above National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Nonrecording gage at bridge 5.6 mi downstream, used for high-water periods when flow exceeds about 2,500 ft³/s, at datum 0.15 ft lower. Prior to Sept. 18, 1956, nonrecording gage at bridge 5.6 mi downstream at datum 0.15 ft lower.

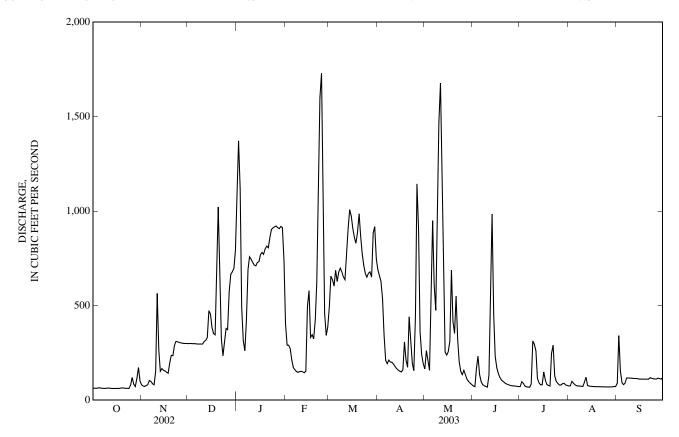
REMARKS.--Records good. Flow regulated by Beaver Creek Reservoir beginning Oct. 11, 1955, and by Patoka Lake beginning Feb. 13, 1978.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 15.9 ft at downstream site, from floodmark furnished by local residents, discharge 16,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES DAY OCT NOV DEC JAN **FEB** MAR MAY JUN JUL AUG SEP 1,150 1,370 1,120 62.7 Q 1,470 1,680 1,350 1,010 72 71 1,020 1,230 1,600 1,730 1,160 1,140 72. ------72. ---TOTAL 2,259 6,052 13,459 24,585 12,892 23,412 10,112 14,027 4,958 3,706 2,371 3,580 MEAN 72.9 76.5 MAX 1,020 1,370 1,730 1,010 1,140 1,680 MIN 0.28 0.77 1.66 3.03 1.76 2.88 1.29 1.73 0.63 0.46 0.29 0.46 **CFSM** 3.32 IN. 0.32 0.86 1.91 3.49 1.83 1.44 1.99 0.70 0.53 0.34 0.51 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2003, BY WATER YEAR (WY) MEAN 91.0 MAX 1,506 2.742 1.898 2.543 1.574 2.034 1,044 (1958)(1977) (1979)(1980)(1975)(1952)(1972)(WY) (1950)(1950)(1964)(1996)(1996)MIN 0.000 0.000 0.1717.5 54.1 29.8 8.66 0.074 0.000 0.000

03375500 PATOKA RIVER AT JASPER, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	ENDAR YEAR	FOR 2003 WA	ΓER YEAR	WATER YEARS	S 1949 - 2003
ANNUAL TOTAL	167,210		121,413			
ANNUAL MEAN	458		333		363	
HIGHEST ANNUAL MEAN					673	1950
LOWEST ANNUAL MEAN					63.6	1954
HIGHEST DAILY MEAN	3,120	May 14	1,730	Feb 24	13,500	Mar 11, 1964
LOWEST DAILY MEAN	58	Sep 26	62	Oct 7	0.00	Oct 1, 1948
ANNUAL SEVEN-DAY MINIMUM	61	Sep 2	62	Oct 12	0.00	Oct 1, 1948
MAXIMUM PEAK FLOW		•	1,810	Feb 24	14,100	Mar 11, 1964
MAXIMUM PEAK STAGE			14.60	Feb 24	21.20	Mar 11, 1964
ANNUAL RUNOFF (CFSM)	1.75		1.27		1.38	
ANNUAL RUNOFF (INCHES)	23.74		17.24		18.81	
10 PERCENT EXCEEDS	1,080		821		1,050	
50 PERCENT EXCEEDS	271		173		134	
90 PERCENT EXCEEDS	63		71		7.8	



03376300 PATOKA RIVER AT WINSLOW, IN

LOCATION.--Lat 38°22'48", long 87°13'00", in SW¹/₄SW¹/₄ sec.32, T.1 S., R.7 W., Pike County, Hydrologic Unit 05120209, (WINSLOW, IN quadrangle), 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 National Geodetic Vertical Datum of 1929 (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. Flow regulated by Patoka Lake. Minor diversion by municipal water supply 100 ft above gage.

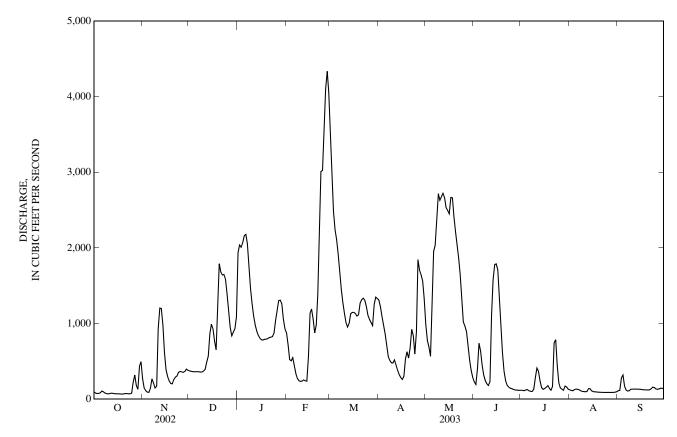
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in January 1937 reached a stage of 28.9 ft, from floodmarks, information from State of Indiana, Department of Natural Resources.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES OCT NOV DAY DEC **FEB** JUN JUL AUG SEP JAN MAR APR MAY 270 375 1,940 3,440 1,310 987 230 118 122 112 96 149 2,040 2,880 1,220 195 117 80 369 717 774 115 116 3 75 112 364 2,010 523 2,480 1,090 691 404 112 110 279 506 2,240 980 319 76 e94 362 2.070 566 740 126 5 84 e90 364 2,160 547 2,110 868 1,350 635 125 133 174 106 e140 1,920 708 453 6 363 2.180 441 1.960 110 131 122 333 2,030 319 107 97 269 362 2.050 1.680 563 104 125 272 1,450 111 8 81 213 358 1.770 513 2,350 247 102 111 242 9 73 147 359 1.460 1.280 481 2.720 204 133 104 131 234 10 71 372 1.260 100 172 1.130 478 2,630 181 281 133 11 73 931 394 1,100 240 1.020 519 2,680 229 411 98 133 12 79 1,200 492 979 254 953 454 2,720 1,110 369 102 133 13 77 1,200 568 896 244 1,000 383 2,660 1,580 240 140 133 74 980 867 843 239 1,130 2,530 1,780 154 139 132 14 327 71 992 804 562 1,150 286 2,490 1,790 110 131 15 621 130 929 16 71 388 784 1,130 1,150 260 2,450 1,710 140 100 128 299 771 782 1,190 1,130 301 2,670 1,380 97 125 17 70 157 242 792 2,660 950 180 96 123 18 68 652 1.060 1.100 533 208 793 2,410 93 123 19 68 1.210 877 628 620 1.110 142 69 202 799 982 543 2.210 92 123 20 1.790 1.270 369 119 21 75 815 2,050 90 262 1,680 1,390 1,310 677 242 167 124 22 73 292 1.640 820 2.390 1.340 923 1.860 185 741 90 138 23 70 307 1,650 827 3,010 1,310 839 1,650 159 786 89 158 24 71 355 1.590 873 3.020 1.230 596 1,330 144 445 89 155 25 78 367 1.390 1,040 3,480 1,110 894 1,020 139 215 89 136 222 89 26 361 1.150 1.170 4.100 1.060 1.840 968 129 149 130 319 354 946 1,300 4,340 1,010 1,700 891 122 132 88 134 28 837 1,310 973 121 90 145 184 366 4,060 1,640 700 118 29 131 398 885 1,260 1,250 1,560 516 117 174 90 145 1,350 30 435 382 930 1,060 1,330 380 93 135 ---117 161 31 496 1,090 928 1,330 287 132 98 4,289 TOTAL 3,713 11,371 26,101 38,915 37.260 44,896 53,190 16,601 3,240 24,444 6.586 842 1,790 1,255 1,331 1,448 815 1,716 2,720 553 1.790 143 MEAN 120 379 212 105 1,200 2,180 786 319 MAX 496 4,340 3,440 1,840 140 MIN 68 90 358 782 234 953 260 287 117 102 88 107 2.08 2.40 2.40 2.77 0.20 1.40 2.21 1.35 0.92 2.85 0.17 **CFSM** 0.63 0.35 0.24 2.30 IN. 0.23 0.70 1.61 1.51 3.28 1.02 0.41 0.20 0.26 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2003, BY WATER YEAR (WY) MEAN 167 384 840 1,067 1,358 1,567 1,391 1,182 561 298 185 183 653 2,218 3,175 2,832 3,426 4,863 2,958 1,305 865 708 MAX 2.576 5.126 (2002) (1994) (2002)(1991) (1991) (1996)(1969)(2000)(1996) (WY) (1964)(1972)(1996)45.5 428 0.94 MIN 2.84 6.83 56.3 13.8 131 85.7 13.4 13.5 7.46 (1969)(2001)(WY) (1965)(1964)(1964)(1964)(1964)(1988)(1972)(1966)(1965)(1972)

03376300 PATOKA RIVER AT WINSLOW, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	ENDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEARS 1964 - 2		
ANNUAL TOTAL	385,106		270,606				
ANNUAL MEAN	1,055		741		762		
HIGHEST ANNUAL MEAN					1,332	1997	
LOWEST ANNUAL MEAN					224	1992	
HIGHEST DAILY MEAN	8,620	May 15	4,340	Feb 27	15,200	Mar 13, 1964	
LOWEST DAILY MEAN	62	Sep 12	68	Oct 18	0.50	Aug 5, 1964	
ANNUAL SEVEN-DAY MINIMUM	63	Sep 7	70	Oct 14	0.61	Sep 8, 1972	
MAXIMUM PEAK FLOW		•	4,410	Feb 27	15,500	Mar 13, 1964	
MAXIMUM PEAK STAGE			23.39	Feb 27	28.84	Mar 13, 1964	
ANNUAL RUNOFF (CFSM)	1.75		1.23		1.26		
ANNUAL RUNOFF (INCHES)	23.76		16.69		17.16		
10 PERCENT EXCEEDS	2,600		1,880		2,020		
50 PERCENT EXCEEDS	466		383		309		
90 PERCENT EXCEEDS	79		95		27		

e Estimated



03376350 SOUTH FORK PATOKA RIVER NEAR SPURGEON, IN

 $LOCATION.--Lat~38^{\circ}17'49", long~87^{\circ}15'37", in~NW^{1}/_{4}SW^{1}/_{4}~sec.~36, T.~2~S., R.~8~W., Pike~County, Hydrologic~Unit~05120209, (OAKLAND~CITY, IN~quadrangle), on the left bank, 150 ft upstream of the bridge on State Road 61, 0.5 mi north of Enos Corner, and 3.1 mi north of Spurgeon, IN.$

DRAINAGE AREA.--42.8 mi².

PERIOD OF RECORD.--October 1964 to October 1986. October 1998 to current year.

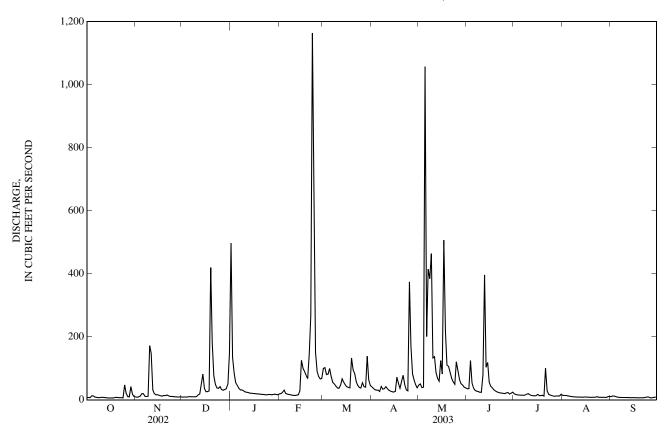
GAGE.--Water-stage recorder. Datum of gage is 420.88 ft above National Geodetic Vertical Datum of 1929 (Indiana Flood Control and Water Resources Commission bench mark).

REMARKS.--Records fair except for estimated daily discharges and those below 80 ft³/s, which are poor. Runoff affected by un-reclaimed surface mined lands.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	7.6 7.4 7.0 13 13	9.1 8.3 9.5 12 20	8.6 8.8 9.1 8.6 10	497 135 84 55 45	19 20 24 31 e20	99 102 80 82 99	41 36 32 31 31	47 51 39 40 1,060	35 36 e125 e54 e37	19 17 16 15	14 14 14 13 12	10 12 12 9.9 8.6	
6 7 8 9 10	8.8 7.9 7.2 6.5 8.2	20 11 10 11 172	e9.8 9.7 9.8 9.6 10	36 32 31 29 25	e18 e17 e16 e15 e14	74 55 51 44 38	26 42 34 35 42	201 414 384 464 133	30 27 26 24 24	15 14 15 18 20	11 10 9.6 9.2 9.0	7.9 7.6 7.5 7.3 7.4	
11 12 13 14 15	8.0 7.3 6.9 6.0 5.9	147 32 20 16 16	16 18 50 82 37	e24 e23 e21 e21 e20	e14 e15 e16 28 125	36 46 67 56 48	35 30 27 26 25	137 87 68 59 125	79 396 103 119 56	16 14 13 13	8.5 8.6 8.6 8.4 8.8	7.4 e7.2 e7.0 e6.6 e7.0	
16 17 18 19 20	5.9 6.0 5.9 7.6 7.9	14 13 12 14 13	26 26 28 420 180	e20 e19 e19 e18 e18	e100 e90 e78 67 147	41 39 38 133 95	27 72 52 37 59	82 507 218 110 106	43 38 32 28 25	17 13 13 14 12	9.0 8.5 8.2 7.9 8.0	e6.8 e6.7 e6.6 e6.4 e6.7	
21 22 23 24 25	7.2 6.9 6.8 6.2 47	15 13 11 11 10	75 50 38 36 42	e17 e17 e16 e16 e17	268 1,160 458 151 e90	84 58 46 39 37	78 49 32 28 374	88 68 57 50 121	23 22 21 20 20	100 29 17 15 14	8.5 8.4 9.9 7.9 8.1	e6.5 e6.8 e8.0 e8.8 e9.0	
26 27 28 29 30 31	21 10 9.3 42 18 11	9.5 9.3 9.0 9.2 9.3	33 30 33 36 50 147	e17 e16 e17 e18 e17 e16	e74 e66 e68 	54 42 40 138 63 46	168 82 63 48 38	94 65 51 47 40 38	22 23 18 21 24	12 11 12 12 12 12	7.9 8.0 7.8 7.5 10	e6.0 e6.6 e7.6 e8.4 e8.8	
TOTAL MEAN MAX MIN CFSM IN.	339.4 10.9 47 5.9 0.26 0.29	686.2 22.9 172 8.3 0.53 0.60	1,547.0 49.9 420 8.6 1.17 1.34	1,356 43.7 497 16 1.02 1.18	3,209 115 1,160 14 2.68 2.79	1,970 63.5 138 36 1.48 1.71	1,700 56.7 374 25 1.32 1.48	5,051 163 1,060 38 3.81 4.39	1,551 51.7 396 18 1.21 1.35	554 17.9 100 11 0.42 0.48	295.3 9.53 14 7.5 0.22 0.26	235.1 7.84 12 6.0 0.18 0.20	
			EAN DATA					`	ĺ				
MEAN MAX (WY) MIN (WY)	15.9 39.0 (2002) 3.35 (1965)	38.4 136 (1986) 5.51 (2000)	61.3 164 (2002) 4.84 (1977)	59.1 186 (1982) 0.81 (1977)	82.8 229 (1985) 26.1 (1978)	93.1 188 (1975) 21.2 (1981)	86.9 223 (1983) 19.4 (2001)	72.8 263 (1983) 12.5 (1965)	43.8 227 (1979) 11.0 (1972)	31.3 283 (1979) 6.02 (1966)	23.0 127 (1979) 6.83 (1999)	17.1 72.7 (1982) 5.00 (1972)	
SUMMA	RY STATIS	STICS]	FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER	YEAR	WATER	YEARS 19	65 - 2003	
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			IUM	FOR 2002 CALENDAR YEAR 23,381.4 64.1 1,450 May 13 5.9 Oct 15 6.3 Oct 12 1.50 20.32 139 29 75			18,494.0 50.7 1,160 Feb 22 5.9 Oct 15 6.3 Oct 12 2,120 Feb 22 10.73 Feb 22 1.18 16.07 100 20			3,¢ 5,9	0.00 Ji 0.00 Ji 900 Ji 15.07 Ji 1.21 16.49 112 22	1979 1981 um 9, 1979 an 20, 1977 an 20, 1977 um 9, 1979 um 9, 1979	
LOWEST HIGHEST LOWEST ANNUAI MAXIMU MAXIMU ANNUAI ANNUAI 10 PERCI 50 PERCI	NNUAL MEAN IIGHEST ANNUAL MEAN OWEST ANNUAL MEAN IIGHEST DAILY MEAN OWEST DAILY MEAN ONUAL SEVEN-DAY MINIMUM IAXIMUM PEAK STAGE INNUAL RUNOFF (CFSM) INNUAL RUNOFF (INCHES) O PERCENT EXCEEDS		IUM	20 139 29	5.9 Oct 5.3 Oct 1.50 0.32	15	2,12	5.9 Oc 6.3 Oc 20 Fe 10.73 Fe 1.18 16.07	et 15 et 12 b 22	3,¢ 5,9	25.3 640 Ji 0.00 Ji 0.00 Ji 900 Ji 15.07 Ji 1.21 16.49	an 20. an 20. un 9.	

e Estimated

03376350 SOUTH FORK PATOKA RIVER NEAR SPURGEON, IN—Continued



03376350 SOUTH FORK PATOKA RIVER NEAR SPURGEON, IN

Results for water-quality data collected for the South Fork Patoka River. The data were collected through a cooperative investigation with the Division of Reclamation of the Indiana Department of Natural Resources with oversight from the Patoka South Fork Watershed Steering Committee. The data show specific conductance and pH based upon measurements in the gage house with a continuous water-quality monitor. Data were collected every 15 minutes (referred to as instantaneous data) and these data were used to determine daily values. Data were collected during water years 1999 through 2002. Data were adjusted with respect to in-stream measurements following guidelines published in U.S. Geological Survey Water Resources Investigations Report 00-4252.

 $LOCATION.--Lat~38^{\circ}17^{\prime}49^{"},~long~87^{\circ}15^{\prime}37^{"},~in~NW^{1}_{4}~SW^{1}_{4}~sec~36,~T.~2~S.,~R.~8~W.,~Pike~County,~Hydrologic~Unit~05120209,~on~the~left~bank,~150~ft~upstream~of~the~bridge~on~State~Road~61,~0.5~mi~north~of~Enos~Corner~and~3.1~mi~north~of~Spurgeon,~IN.$

DRAINAGE AREA.--42.8 mi².

REMARKS.--Runoff affected by un-reclaimed surface mined lands.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	 	3,580 3,360 3,390 3,540	3,330 3,240 3,110 3,230 3,200	2,750 2,240 1,440 1,910 2,170	808 1,100 1,310 1,490 1,630	1,850 1,960 2,050 2,230 2,250	 	1,680 2,000 2,220 2,520 2,270	3,270 2,240 2,450 2,750 2,270	1,590 1,260 1,670 1,940 2,220	3,310 3,360 3,400 3,400 3,410	3,600 3,490 3,520 3,550
6 7 8 9 10	 	3,550 3,540 3,550 3,590 3,160	3,230 1,950 2,270 2,510 2,670	2,270 2,300 2,330 1,760 2,120	1,810 1,220 1,400 1,540 1,640	1,270 1,630 1,780 775 1,280	 	1,060 1,530 	2,560 2,540 2,700 2,850	2,340 2,570	3,420 3,440 3,370 3,420 3,440	3,570 3,590 3,640 3,710
11 12 13 14 15	 	3,080 3,250 3,350 3,410 3,420	2,790 2,820 2,860 2,900 2,890	2,270 2,140 1,060 1,290 1,540	1,700 1,110 1,410 1,610 1,690	1,540 1,710 1,870 1,660 1,300	 	2,320 2,410 2,540 2,680 2,760	3,060 3,120 3,040 3,040	2,700 2,760 2,880 2,940 2,980	3,450 3,450 3,490 3,510 3,530	3,730 3,710 3,720
16 17 18 19 20	 	3,420 3,470 3,520 3,510 3,140	3,030 3,000 3,030 3,010 3,030	1,640 1,470 1,080 1,460 1,590	1,720 1,580 1,700 1,770 1,920	1,020 1,140 1,510 1,700 1,810	 	2,880 2,940 2,770 2,840 2,980	3,140 3,230 3,290 3,290 3,300	3,000 3,020 2,970 3,050 3,100	3,540 3,550 3,570 3,580 3,610	3,720 3,720 3,720 3,720 3,700
21 22 23 24 25	3,270 3,350 3,410 3,450	3,170 3,290 3,350 3,380 3,310	2,030 1,460 1,920 2,210	1,240 741 797 1,160 1,360	2,000 2,060 1,950 1,790 1,860	1,960 2,130 1,350 1,280	2,930 3,050	3,070 2,950 3,000 2,990 3,120	3,320 3,340 3,310 3,130 3,170	3,140 3,140 3,170 3,110 3,130	3,610 3,620 3,620 3,620 3,630	3,680 3,700 3,700 3,710 3,710
26 27 28 29 30 31	3,450 3,510 3,530 3,550 3,560	2,440 2,900 3,090 3,190 3,200	2,320 2,360 2,390 2,370 2,460 2,550	1,510 1,580 1,660 1,770 1,880 1,210	2,110 2,090 1,500 	 	2,450 1,510 752 990 1,390	3,190 3,280 3,330 3,340 3,290 3,200	3,040 2,900 1,570 1,740 2,200	3,180 3,240 3,260 3,220 3,220 3,280	3,640 3,630 3,610 3,600 3,600 3,600	3,700 3,700 3,690 3,650 3,640

03376350 SOUTH FORK PATOKA RIVER NEAR SPURGEON, IN—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DAILY MEAN VALUES

					2.11.							
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	3,660 3,660 3,690 3,700 3,700	3,620 3,570 3,570 3,600 3,650	3,660 3,710 3,680 3,620 3,550	2,980 3,000 1,560 1,910	 	1,380 1,520 1,640 1,680 1,790	2,540 2,330 2,140 2,280	2,960 2,960 2,980 2,910 2,870	 	2,340 2,490 2,560 2,600 2,440	3,010 3,080 3,150 3,060	1,950 2,110 2,180 2,320 2,420
6 7 8 9 10	3,680 3,690 3,630 3,170 3,050	3,670 3,680 3,750 3,990	3,540 3,560 2,920	2,370 2,560 2,610 2,710 2,830	 	1,870 1,980 2,170 2,240 2,280	2,380 2,450 1,450 1,750 1,960	2,930 2,990 2,990 3,020	 2,990	2,480 2,570 2,660 2,730 2,790	2,720 2,000 1,360 	2,490 2,530 2,620 2,580 2,530
11 12 13 14 15	3,240 3,310 3,310 3,260 3,300	4,000 4,120 4,150	3,000 2,790 2,380 2,230 2,230	3,050 3,130 3,150 3,390 3,460	 	2,160 1,940 2,050 2,130 2,220	2,090 2,290 2,470 2,460	3,080 3,030 3,100 3,170	2,960 3,220 2,820 3,040 3,140	2,810 2,750 2,760 2,790	2,180 2,350 2,500 2,630 2,720	2,530 1,620 1,840 2,090 2,260
16 17 18 19 20	3,340 3,380 3,420 3,430 3,470	3,700 3,590	2,360 2,680 2,850 2,920 2,840	3,490 3,650 3,680 	 	1,490 1,300 1,520 1,340 1,070	2,570 2,490 2,540 2,510 2,560	3,200 3,230 3,240 3,220 3,250	3,140 1,090 1,240 1,470 1,720	2,910 2,950 2,950 2,270 2,570	2,800 2,890 2,020 2,500 2,740	2,390 2,540 2,600 2,640
21 22 23 24 25	3,500 3,500 3,500 3,530 3,540	3,550 3,560 3,570 3,700 3,580	2,820 3,020 3,050 2,960 3,220	 	 	1,360 1,580 1,760 1,910	2,570 2,800 2,790 2,670 2,570	3,280 3,300 2,950 2,880 3,090	1,670 1,830 2,020 2,070 2,190	2,950 3,080 3,160 3,250 3,300	2,880 2,990 2,260 909 1,400	2,530 2,610 2,640 2,530 1,520
26 27 28 29 30 31	3,540 3,530 3,520 3,540 3,570 3,590	3,630 3,660 3,640 3,680	3,160 3,180 3,180 3,110 3,030 3,000	 	 	2,380 2,510	2,650 2,730 2,790 2,880 2,930	3,160 3,090 3,110 3,160 3,230	2,100 1,590 1,690 1,950 2,180	3,340 3,360 3,100 2,860 2,780 3,010	1,670 805 1,260 1,510 1,660 1,820	1,310 1,690 1,910 2,090 2,180

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

					DAII	LI MIEAN V	ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	2,330 2,400 2,500 2,570 2,610	3,130 3,120 3,110 3,130	2,060 2,130 2,190 2,200 2,190	2,500 2,580 2,660 2,730 2,780	1,360 1,490 1,720 1,680 1,620	1,560 1,660 1,740 1,440 1,240	2,250 2,310 1,830 1,820 1,930	2,930 2,980 3,060 3,090 3,130	2,710 2,810 2,910 2,950 2,960	3,270 3,340 3,350 3,320 3,360	2,850 2,910 2,990 3,070 3,120	3,310 3,320 3,340 3,330 3,370
6 7 8 9 10	2,620 2,730 2,790 2,820 2,860	3,140 3,140 3,010 2,870 1,880	2,210 2,260 2,330 2,430 2,410	2,830 2,900 2,920 2,940 2,880	1,670 1,860 1,710 1,220 1,060	1,460 1,570 1,650 1,710 1,860	2,010 2,080 2,240	3,180 3,260 3,340 3,310 3,360	3,000 3,080 3,130 3,170 3,210	3,440 3,440 3,430 2,430 2,730	3,170 3,180 3,200 3,260 3,310	3,390 3,380 2,990
11 12 13 14 15	2,880 2,860 2,890 2,950 3,020	1,520 1,700 1,880 1,890 1,750	1,600 1,050 1,270 1,260 1,330	2,860 2,840 2,810 2,800 2,830	1,290 1,390 1,290 862	1,930 1,960 1,580 1,560	2,300 2,340 2,460 2,510 2,360	3,390 3,450 3,460 3,480 3,520	3,300 3,330 3,360 3,400 3,440	2,950 3,080 3,200 3,220 3,250	3,340 3,350 3,360 3,380 3,380	2,890 2,990 2,990 3,040
16 17 18 19 20	3,000 2,950 2,970 3,000 3,000	1,990 2,150 2,230 2,330 2,450	773 1,030 1,240 1,380 1,590	2,130 1,620 1,660 1,550 1,700	713 737 788 776 1,090	1,290 1,530 1,670 1,770 1,830	2,390 2,470 2,530 2,580 2,610	3,540 3,560 3,580 3,570 3,510	3,460 3,500 3,530 3,540 3,600	3,290 3,370 3,380 3,380 3,390	3,390 3,390 3,350 3,060 3,350	3,180 3,200 3,230 3,050 2,820
21 22 23 24 25	3,030 3,050 3,070 3,060 3,070	2,520 2,580 2,610 2,620 1,350	1,740 1,880 1,950 2,030	1,900 1,900 1,930 1,920 2,060	1,530 1,560 1,650 1,660 964	1,990 2,040 2,110 2,160	2,660 2,720 2,740 2,630 2,730	3,300 2,970 2,810 2,770 2,620	3,650 3,640 3,540 3,300 3,010	3,500 3,500 3,280 3,220 3,170	3,500 3,410 3,370 3,060 2,800	2,950 3,090 3,160 3,180 3,070
26 27 28 29 30 31	3,110 3,150 3,100 3,090 3,070 3,120	1,310 1,570 1,680 1,780 1,940	2,100 2,160 2,230 2,290 2,350 2,420	2,120 2,020 2,100 2,050 1,050 1,220	1,230 1,350 1,430 	2,240 2,290 2,300 2,310 2,320 2,300	2,810 2,860 2,860 2,900 2,960	2,520 2,550 2,620 2,630 2,610 2,630	2,940 3,050 3,180 3,220 3,240	3,250 3,270 3,050 3,050 2,560 2,770	2,890 3,000 3,160 3,200 3,260 3,360	3,160 3,290 3,310 3,330 3,340

03376350 SOUTH FORK PATOKA RIVER NEAR SPURGEON, IN—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	3,370 3,380 3,390 3,410 3,330	2,420 2,480 2,560 2,670 2,670	1,090 1,310 1,430 1,540	 	 	 	943 1,180 1,460 1,700 1,850	 	2,840 2,820 2,910	3,110 3,140 3,170 3,180 3,210	3,490 3,530 3,510 3,510 3,510	3,520 3,520 3,520 3,520 3,550
6 7 8 9 10	3,200 3,240 3,340 3,400 3,390	2,800 2,840 2,820 2,840 2,870	 	 	 	 	1,960 2,060 2,170 2,260 2,330	 	2,940 2,960 2,990 3,030 3,050	3,230 3,250 3,260 3,280 3,310	3,520 3,570 3,600 3,620 3,630	3,550 3,560 3,560 3,570 3,560
11 12 13 14 15	3,140 2,200 2,420 1,670 1,570	2,920 2,910 2,930 2,960 2,970	 	 	 	 	2,380 2,320 2,020 1,690 1,400	 	3,080 3,090 3,010 2,970 2,980	3,330 3,350 3,360 3,370 3,380	3,630 3,620 3,600 3,520 3,520	3,590 3,590 3,590 3,620 3,630
16 17 18 19 20	1,950 2,040 2,200 2,330 2,430	2,980 3,010 3,000 3,030 2,960	 	 	 	 	1,300 1,220 	 	2,990 2,990 2,990 2,990 2,950	3,380 3,390 3,390 3,370 3,360	3,550 3,560 3,560 3,550 3,530	3,640 3,630 3,600 3,550 3,320
21 22 23 24 25	2,530 2,600 1,060	2,950 3,000 3,100 3,050 2,030	 	 	 	 	 	2,750 2,780 2,840 2,850	2,890 2,850 2,830 2,840 2,880	3,350 3,350 3,370 3,370 3,380	3,530 3,520 3,550 3,550 3,570	3,250 3,160 3,100 3,170 3,270
26 27 28 29 30 31	1,300 1,590 1,810 2,000 2,150 2,360	1,960 1,400 1,040 793 829	 	 	 	1,270 750 830	 	2,850 2,860 2,880 2,890 2,890	2,930 2,980 3,030 3,060 3,090	3,390 3,390 3,400 3,420 3,440 3,450	3,590 3,600 3,600 3,590 3,560 3,550	3,350 3,410 3,460 3,500 3,530

MISCELLANEOUS WATER-QUALITY STATION ANALYSIS

03376350 SOUTH FORK PATOKA RIVER NEAR SPURGEON, IN—Continued

PH. WATER, UNFILTERED, FIELD, STANDARD UNITS

					YEAR OCT		TO SEPTE	DARD UNIT EMBER 1999				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	 	7.0 6.4 6.6 7.2	7.0 6.9 6.9 6.7 6.6	7.0 6.9 6.7 6.8 6.8	6.4 6.5 6.6 6.6 6.7	6.7 6.8 6.7 6.7	 	6.8 6.8 6.9 7.2 6.7	7.3 6.8 7.0 7.1 6.7	6.4 6.4 6.5 6.7 6.8	7.2 7.2 7.0 7.3 7.3	6.9 7.2 7.1 7.1
6 7 8 9 10	 	7.2 7.1 7.1 7.1 7.2	6.6 6.3 6.6 6.8 6.8	6.8 6.8 6.8 6.8	6.8 6.4 6.6 6.6 6.6	6.5 6.7 6.6 6.2 6.5	 	6.6 7.0 	7.0 6.9 7.0 7.1	6.8 6.8 6.8	7.1 7.3 7.1 7.3 7.2	7.1 7.1 7.0 6.9
11 12 13 14 15	 	7.1 7.2 7.2 7.2 7.2	6.8 6.8 6.6 6.6 7.0	7.0 6.6 6.2 6.6 6.8	6.4 6.2 6.6 6.7 6.7	6.5 6.4 6.4 6.4 6.3	 	7.0 7.0 7.0 7.1 7.1	7.1 7.2 6.8 7.0	6.9 6.9 6.9 6.9	7.3 7.3 7.2 7.4 7.3	7.0 7.1 7.1
16 17 18 19 20	 	7.1 7.1 7.2 7.1 6.7	6.9 6.8 6.8 6.7 6.5	6.7 6.6 6.3 6.7 6.7	6.6 6.3 6.6 6.7 6.8	6.2 6.1 6.2 6.3 6.2	 	7.2 7.2 7.0 7.2 7.2	6.9 7.1 7.1 7.0 7.0	7.0 7.0 6.9 7.0 7.0	7.2 7.2 7.2 7.2 7.2	7.2 7.1 7.1 7.0 7.0
21 22 23 24 25	7.0 7.0 7.0 7.0 7.0	6.8 7.0 7.0 7.0 7.1	6.6 6.8 7.0 6.9	6.4 6.3 6.6 6.7 6.6	6.8 6.8 6.6 6.7	6.2 6.2 6.0 6.4	 7.2 7.1	7.3 7.3 7.3 7.2 7.2	7.1 7.1 7.0 6.7 7.0	7.0 6.9 7.0 7.0 7.0	7.3 7.2 7.2 7.2 7.2	6.9 7.0 7.0 7.0 7.0
26 27 28 29 30 31	7.0 7.0 7.0 7.0 7.0 7.0	6.4 6.9 7.0 7.0 7.0	7.0 6.9 6.9 6.8 6.8 7.0	6.6 6.6 6.8 6.8 6.5	6.7 6.7 6.5 	 	6.8 6.8 6.7 6.6 6.8	7.3 7.3 7.3 7.3 7.3 7.2	7.1 6.8 6.5 6.7 6.8	7.1 7.1 7.0 7.0 7.3 7.3	7.0 6.6 6.8 6.9 7.0 7.0	7.0 7.0 7.0 6.9 6.9
					YEAR OCT		TO SEPTE	DARD UNIT EMBER 2000				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4	7.0 6.9 7.0 7.0	6.9 6.9 6.8 6.9	7.0 6.9 6.9 6.7	6.8 6.7 6.7	 	6.6 6.6 6.8 6.6	7.2 6.9 6.7	7.1 7.1 7.2 7.1	7.3 7.2 7.2 7.2	7.2 7.3 7.3 7.3	7.1 7.2 7.2	6.5 6.5 6.6 6.6

DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 1 7.0 6.9 7.0 6.8 6.6 7.2 7.1 7.3 7.2 7.1 6.5 2 6.9 6.9 6.7 6.6 6.9 7.1 7.2 7.3 7.2 6.5 3 7.0 6.8 6.9 6.7 6.6 6.7 7.1 7.2 7.3 7.2 6.5 5 7.0 6.8 6.8 6.6 6.7 6.9 7.2 7.2 7.1 7.2 6.6 6 6.9 6.8 6.6 6.7 6.9 7.2 7.2 7.3 7.3 7.0 6.6 8 6.9 6.8 7.0 6.6 6.8 6.9 7.2 7.3 7.3 6.3 6.5						DAIL	I MEDIAN	VALUES					
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
3 7.0 6.8 6.9 6.7 6.6 6.7 7.2 7.2 7.3 7.2 6.6 5 7.0 6.8 6.8 6.6 6.7 6.9 7.2 7.2 7.1 7.2 6.6 6 6.9 6.8 6.6 6.7 6.9 7.2 7.2 7.1 7.2 6.6 7 7.0 6.6 7.0 6.6 6.8 6.9 7.2 7.3 7.3 7.0 6.6 8 6.9 6.8 7.0 6.6 6.8 6.8 7.2 7.3 7.3 6.7 6.6 8 6.9 6.6 6.6 6.8 6.8 7.2 7.3 7.3 7.0 6.6 9 6.6 6.6 6.9 7.3 7.5 7.3 7.0 6.5 11 6.9	1	7.0	6.9	7.0	6.8		6.6	7.2	7.1	7.3	7.2	7.1	6.5
4 7.0 69 6.7 6.6 6.7 7.1 7.2 7.3 6.6 5 7.0 6.8 6.8 6.6 6.7 6.9 7.2 7.2 7.1 7.2 6.6 6 6.9 6.8 6.6 6.7 6.9 7.2 7.2 7.3 7.3 7.0 6.6 7 7.0 6.6 7.0 6.6 6.8 6.9 7.2 7.2 7.3 6.7 6.6 8 6.9 6.8 7.0 6.6 6.8 6.9 7.2 7.2 7.3 7.3 6.7 6.6 9 6.6 6.6 6.9 7.3 7.5 7.3 7.3 7.3 7.3 6.5 6.5 10 6.6 7.2 6.0 6.6 6.7 6.9 7.0 7.0 7.2 7.3 7.0 6.2 11 6.9 7.1 6.6 6.8 <	2	6.9	6.9	6.9			6.6	6.9					6.5
5 7.0 6.8 6.8 6.6 6.7 6.9 7.2 7.2 7.1 7.2 6.6 6 6.9 6.8 6.6 6.7 6.9 7.2 7.2 7.3 7.3 7.0 6.6 7 7.0 6.6 7.0 6.6 6.8 6.9 7.2 7.2 7.3 6.7 6.6 8 6.9 6.8 7.0 6.6 6.6 6.8 7.2 7.3 7.3 6.7 6.6 9 6.6 6.6 6.9 7.3 7.5 7.3 6.5 10 6.6 7.2 6.0 6.6 6.7 6.9 7.0 7.0 7.4 6.5 11 6.9 7.1 6.6 6.8 6.9 7.0 7.0 7.2 7.3 7.0 6.3 12	3	7.0	6.8	6.9	6.7		6.8		7.2	7.2	7.3	7.2	6.6
6 6.9 6.8 6.6 6.7 6.9 7.2 7.3 7.3 7.0 6.6 7.0 7.0 6.6 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0	4						6.6						
7 7.0 6.6 7.0 6.6 6.8 6.9 7.2 7.2 7.3 6.7 6.6 8 6.9 6.8 7.0 6.6 6.8 6.8 7.2 7.3 7.3 6.3 6.5 9 6.6 6.6 6.9 7.0 7.6 7.4 6.5 10 6.6 7.2 6.0 6.6 6.7 6.9 7.0 7.6 7.4 6.4 11 6.9 7.1 6.6 6.8 6.9 7.0 7.0 7.2 7.3 7.0 6.3 12 6.9 6.5 6.7 6.7 7.1 7.6 7.3 7.0 6.0 13 7.0 7.1 6.0 6.6 6.8 7.1 7.0 7.3 7.1 6.1 14 7.2 7.2	5	7.0	6.8	6.8	6.6		6.7	6.9	7.2	7.2	7.1	7.2	6.6
8 6.9 6.8 7.0 6.6 6.8 6.8 7.2 7.3 7.3 6.3 6.5 9 6.6 6.6 6.9 7.3 7.5 7.3 6.5 10 6.6 7.2 6.0 6.6 6.7 6.9 7.0 7.0 7.2 7.3 7.0 6.5 11 6.9 7.1 6.6 6.8 6.9 7.0 7.0 7.2 7.3 7.0 6.3 12 6.9 6.5 6.7 6.7 7.1 7.6 7.3 7.0 6.0 13 7.0 7.1 6.0 6.6 6.8 7.1 7.0 7.2 7.4 7.1 6.1 14 7.2 7.2 6.3 6.9 6.9 7.1 7.2 7.4 7.1 6.1 15 7.2 7.2 6.4 6.8 6.8 7.1 7.3 7.6 7.3 7.2													
9 6.6 6.6 6.7 6.9 7.3 7.5 7.3 6.5 10 6.6 7.2 6.0 6.6 6.7 6.9 7.0 7.6 7.4 6.4 11 6.9 7.1 6.6 6.8 6.7 6.9 7.0 7.0 7.2 7.3 7.0 6.3 12 6.9 6.5 6.7 6.7 6.8 7.1 7.0 7.2 7.4 7.1 6.1 14 7.2 7.2 6.1 6.6 6.9 6.9 7.3 7.6 7.3 7.0 6.0 15 7.2 7.2 6.3 6.9 6.9 6.9 7.1 7.2 7.5 7.1 6.1 15 7.2 7.2 6.3 6.9 6.9 6.9 7.1 7.2 7.5 7.1 6.2 16 7.0 7.2 6.4 6.8 6.9 6.9 7.3 6.8 7.3 7.2 18 7.2 7.4 6.8 6.6 6.9 6.9 7.3 6.8 7.3 7.2 18 7.2 7.4 6.8 6.6 7.0 7.0 7.0 7.4 7.0 7.3 6.6 6.1 19 7.2 7.0 6.8 6.7 6.9 6.9 7.1 7.3 7.0 7.0 7.0 6.1 20 7.2 6.4 6.8 6.6 7.0 7.0 7.0 7.4 7.0 7.3 6.6 6.1 19 7.2 7.0 6.8 6.7 6.9 7.1 7.3 7.0 7.0 7.0 7.0 6.1 21 7.1 6.7 6.7 6.7 6.3 6.9 7.1 7.4 7.1 7.2 7.1 6.1 21 7.1 6.7 6.7 6.7 6.3 7.1 7.0 7.4 7.0 7.2 7.1 6.1 22 7.1 6.9 6.8 6.2 7.2 7.2 7.2 7.4 7.1 7.2 7.1 6.1 23 7.0 6.9 6.8 6.2 7.2 7.2 7.2 7.4 7.1 7.2 7.0 6.0 24 7.2 7.0 6.8 6.2 7.2 7.2 7.2 7.4 7.1 7.2 7.0 6.0 25 7.1 7.0 6.8 7.1 7.0 7.3 7.0 7.3 6.6 6.3 27 6.9 7.0 6.9 6.8 6.2 7.2 7.2 7.2 7.4 7.1 7.2 7.0 6.0 26 6.9 7.0 6.9 6.8 6.2 7.3 7.0 7.3 7.0 7.2 7.2 6.5 6.0 27 6.9 7.0 6.8 7.1 7.1 7.1 7.5 7.2 7.2 6.4 6.5 6.0 28 6.9 7.0 6.9 6.8 7.1 7.1 7.5 7.2 7.2 6.9 7.2 6.3 6.4 28 6.9 7.0 6.9 6.8 7.2 7.2 7.2 7.5 7.2 7.1 6.4 28 6.9 7.0 6.9 6.8 7.2 7.2 7.5 7.2 7.1 6.4 29 7.0 6.8 7.2 7.2 7.5 7.2 7.1 6.4 29 7.0 6.8 7.2 7.2 7.5 7.2 7.1 6.4 29 7.0 6.8 7.2 7.2 7.5 7.2 7.1 6.4 20 6.5 6.6													
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			6.8	7.0								6.3	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$													
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	10	6.6	7.2	6.0	6.6		6.7	6.9	7.0	7.6	7.4		6.4
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			7.1				6.9	7.0				7.0	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	12	6.9		6.5	6.7		6.7		7.1	7.6	7.3	7.0	6.0
15 7.2 7.2 6.3 6.9 6.9 7.1 7.2 7.5 7.1 6.2 16 7.0 7.2 6.4 6.8 6.8 7.1 7.3 7.6 7.3 7.2 6.2 17 7.1 7.5 6.6 6.9 6.9 6.9 7.3 6.8 7.3 7.2 18 7.2 7.4 6.8 6.6 7.0 7.0 7.4 7.0 7.3 6.6 6.1 19 7.2 7.0 6.8 6.7 6.9 7.1 7.3 7.0 7.0 7.0 20 7.2 6.4 6.6 6.3 6.9 7.1 7.4 7.1 7.2 7.1 6.1 21 7.1 6.7 6.7 6.3 7.1 7.0 7.4 7.0 7.2 7.1 6.1 22 7.1 6.9 6.8 6.2 7.2 7.2 7.4 7.1	13			6.0	6.6		6.8						6.1
16 7.0 7.2 6.4 6.8 6.8 7.1 7.3 7.6 7.3 7.2 6.2 17 7.1 7.5 6.6 6.9 6.9 6.9 7.3 6.8 7.3 7.2 18 7.2 7.4 6.8 6.6 7.0 7.0 7.4 7.0 7.3 6.6 6.1 19 7.2 7.0 6.8 6.7 6.9 7.1 7.3 7.0 7.0 7.0 20 7.2 6.4 6.6 6.3 6.9 7.1 7.3 7.0 7.0 7.0 21 7.1 6.7 6.7 6.3 7.1 7.0 7.4 7.0 7.2 7.1 6.1 21 7.1 6.7 6.7 6.3 7.1 7.0 7.4 7.0 7.2 7.1 5.9 22 7.1 6.9 6.8 6.2 7.2 7.2 7.4 7.1 7.2							6.9				7.3	7.1	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	15	7.2	7.2	6.3	6.9		6.9	7.1	7.2	7.5		7.1	6.2
18 7.2 7.4 6.8 6.6 7.0 7.0 7.4 7.0 7.3 6.6 6.1 19 7.2 7.0 6.8 6.7 6.9 7.1 7.3 7.0 7.0 7.0 6.1 20 7.2 6.4 6.6 6.3 6.9 7.1 7.4 7.1 7.2 7.1 6.1 21 7.1 6.7 6.3 7.1 7.0 7.4 7.0 7.2 7.1 5.9 22 7.1 6.9 6.8 6.2 7.2 7.2 7.4 7.1 7.2 7.0 6.0 23 7.0 6.9 6.8 6.2 7.3 7.2 7.0 7.2 7.2 6.9 6.0 24 7.2 7.0 6.8 7.3 7.0 7.3 6.9 7.2 6.4 5.9 25 7.1 7.0 6.8 7.3 7.0 7.4 7.1	16	7.0	7.2	6.4	6.8		6.8	7.1	7.3	7.6	7.3	7.2	6.2
19 7.2 7.0 6.8 6.7 6.9 7.1 7.3 7.0 7.0 7.0 6.1 20 7.2 6.4 6.6 6.3 6.9 7.1 7.3 7.0 7.0 7.0 6.1 21 7.1 6.7 6.7 6.3 7.1 7.0 7.4 7.0 7.2 7.1 5.9 22 7.1 6.9 6.8 6.2 7.2 7.2 7.4 7.1 7.2 7.0 6.0 23 7.0 6.9 6.8 6.2 7.3 7.2 7.0 7.2 7.2 6.9 6.0 24 7.2 7.0 6.8 7.3 7.0 7.3 6.9 7.2 6.4 5.9 25 7.1 7.0 6.8 7.3 7.0 7.4 7.1 7.2 6.5 6.0 26 6.9 7.0 6.7 7.1 7.1 7.5	17		7.5	6.6	6.9		6.9	6.9	7.3	6.8	7.3	7.2	
20 7.2 6.4 6.6 6.3 6.9 7.1 7.4 7.1 7.2 7.1 6.1 21 7.1 6.7 6.7 6.3 7.1 7.0 7.4 7.0 7.2 7.1 5.9 22 7.1 6.9 6.8 6.2 7.2 7.2 7.4 7.1 7.2 7.0 6.0 23 7.0 6.9 6.8 6.2 7.3 7.2 7.0 7.2 7.2 6.9 6.0 24 7.2 7.0 6.8 7.3 7.0 7.3 6.9 7.2 6.4 5.9 25 7.1 7.0 6.8 7.3 7.0 7.4 7.1 7.2 6.5 6.0 26 6.9 7.0 6.7 7.1 7.1 7.5 7.2 7.3 6.6 6.3 27 6.9 7.0 6.8 7.1 7.1 7.5	18	7.2	7.4	6.8	6.6		7.0	7.0	7.4	7.0	7.3	6.6	6.1
20 7.2 6.4 6.6 6.3 6.9 7.1 7.4 7.1 7.2 7.1 6.1 21 7.1 6.7 6.3 7.1 7.0 7.4 7.0 7.2 7.1 5.9 22 7.1 6.9 6.8 6.2 7.2 7.2 7.4 7.1 7.2 7.0 6.0 23 7.0 6.9 6.8 6.2 7.3 7.2 7.0 7.2 7.2 6.9 6.0 24 7.2 7.0 6.8 7.3 7.0 7.3 6.9 7.2 6.4 5.9 25 7.1 7.0 6.8 7.3 7.0 7.4 7.1 7.2 6.5 6.0 26 6.9 7.0 6.7 7.1 7.1 7.5 7.2 7.3 6.6 6.3 27 6.9 7.0 6.8 7.1 7.1 7.5 7.2	19	7.2	7.0	6.8	6.7		6.9	7.1	7.3	7.0	7.0	7.0	6.1
22 7.1 6.9 6.8 6.2 7.2 7.2 7.4 7.1 7.2 7.0 6.0 23 7.0 6.9 6.8 6.2 7.3 7.2 7.0 7.2 7.2 6.9 6.0 24 7.2 7.0 6.8 7.3 7.0 7.3 6.9 7.2 6.4 5.9 25 7.1 7.0 6.8 7.3 7.0 7.4 7.1 7.2 6.5 6.0 26 6.9 7.0 6.7 7.1 7.1 7.5 7.2 7.3 6.6 6.3 27 6.9 7.0 6.8 7.1 7.1 7.2 7.2 6.9 7.2 6.3 6.4 28 6.9 7.0 6.9 7.2 7.1 7.5 7.0 7.1 6.4 6.5 30 6.9 7.0 6.7 7.2 7.2	20	7.2	6.4	6.6	6.3		6.9	7.1	7.4	7.1	7.2	7.1	6.1
23 7.0 6.9 6.8 6.2 7.3 7.2 7.0 7.2 7.2 6.9 6.0 24 7.2 7.0 6.8 7.3 7.0 7.3 6.9 7.2 6.4 5.9 25 7.1 7.0 6.8 7.3 7.0 7.4 7.1 7.2 6.5 6.0 26 6.9 7.0 6.7 7.1 7.1 7.5 7.2 7.3 6.6 6.3 27 6.9 7.0 6.8 7.1 7.2 7.2 6.9 7.2 6.3 6.4 28 6.9 7.0 6.9 7.2 7.1 7.5 7.0 7.1 6.4 6.5 30 6.9 7.0 6.7 7.2 7.2 7.5 7.2 6.7 6.5 6.6	21	7.1	6.7	6.7	6.3		7.1	7.0	7.4	7.0	7.2	7.1	5.9
24 7.2 7.0 6.8 7.3 7.0 7.3 6.9 7.2 6.4 5.9 25 7.1 7.0 6.8 7.3 7.0 7.4 7.1 7.2 6.5 6.0 26 6.9 7.0 6.7 7.1 7.1 7.5 7.2 7.3 6.6 6.3 27 6.9 7.0 6.8 7.1 7.2 7.2 6.9 7.2 6.3 6.4 28 6.9 7.0 6.9 7.2 7.1 7.5 7.0 7.1 6.4 6.5 29 7.0 6.8 7.2 7.5 7.2 7.1 6.4 6.5 30 6.9 7.0 6.7 7.2 7.2 7.5 7.2 6.7 6.5 6.6	22	7.1	6.9	6.8	6.2		7.2	7.2	7.4	7.1	7.2	7.0	6.0
24 7.2 7.0 6.8 7.3 7.0 7.3 6.9 7.2 6.4 5.9 25 7.1 7.0 6.8 7.3 7.0 7.4 7.1 7.2 6.5 6.0 26 6.9 7.0 6.7 7.1 7.1 7.5 7.2 7.3 6.6 6.3 27 6.9 7.0 6.8 7.1 7.2 7.2 6.9 7.2 6.3 6.4 28 6.9 7.0 6.9 7.2 7.1 7.5 7.0 7.1 6.4 6.5 29 7.0 6.8 7.2 7.5 7.2 7.1 6.4 6.5 30 6.9 7.0 6.7 7.2 7.2 7.5 7.2 6.7 6.5 6.6	23	7.0	6.9	6.8	6.2		7.3	7.2	7.0	7.2	7.2	6.9	6.0
25 7.1 7.0 6.8 7.3 7.0 7.4 7.1 7.2 6.5 6.0 26 6.9 7.0 6.7 7.1 7.1 7.5 7.2 7.3 6.6 6.3 27 6.9 7.0 6.8 7.1 7.2 7.2 6.9 7.2 6.3 6.4 28 6.9 7.0 6.9 7.2 7.1 7.5 7.0 7.1 6.4 6.5 29 7.0 6.8 7.2 7.5 7.2 7.1 6.4 6.5 30 6.9 7.0 6.7 7.2 7.2 7.5 7.2 6.7 6.5 6.6		7.2	7.0	6.8			7.3	7.0	7.3	6.9	7.2	6.4	5.9
27 6.9 7.0 6.8 7.1 7.2 7.2 6.9 7.2 6.3 6.4 28 6.9 7.0 6.9 7.2 7.1 7.5 7.0 7.1 6.4 6.5 29 7.0 6.8 7.2 7.5 7.2 7.1 6.4 6.5 30 6.9 7.0 6.7 7.2 7.2 7.5 7.2 6.7 6.5 6.6		7.1	7.0	6.8			7.3	7.0		7.1		6.5	6.0
27 6.9 7.0 6.8 7.1 7.2 7.2 6.9 7.2 6.3 6.4 28 6.9 7.0 6.9 7.2 7.1 7.5 7.0 7.1 6.4 6.5 29 7.0 6.8 7.2 7.5 7.2 7.1 6.4 6.5 30 6.9 7.0 6.7 7.2 7.2 7.5 7.2 6.7 6.5 6.6	26	6.9	7.0	6.7			7.1	7.1	7.5	7.2	7.3	6.6	6.3
28 6.9 7.0 6.9 7.2 7.1 7.5 7.0 7.1 6.4 6.5 29 7.0 6.8 7.2 7.5 7.2 7.1 6.4 6.5 30 6.9 7.0 6.7 7.2 7.2 7.5 7.2 6.7 6.5 6.6	27	6.9	7.0	6.8			7.1	7.2	7.2	6.9	7.2	6.3	
29 7.0 6.8 7.2 7.5 7.2 7.1 6.4 6.5 30 6.9 7.0 6.7 7.2 7.2 7.5 7.2 6.7 6.5 6.6													
30 6.9 7.0 6.7 7.2 7.2 7.5 7.2 6.7 6.5 6.6													
31 6.9 6.7 7.2 7.6 7.1 6.6													

03376350 SOUTH FORK PATOKA RIVER NEAR SPURGEON, IN—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	6.6 6.6 6.6 6.6	6.7 6.7 6.7 6.6	7.0 7.0 7.0 7.1 7.1	6.4 6.4 6.5 6.5	6.8 6.9 6.9 6.9	6.8 6.9 6.8 6.8	7.0 7.0 6.7 6.9 7.0	7.4 7.4 7.4 7.5 7.6	7.6 7.6 7.6 7.5 7.5	7.3 7.3 7.3 7.2 7.2	7.2 7.2 7.2 7.2 7.3	7.4 7.3 7.3 7.3 7.3
6 7 8 9 10	6.6 6.6 6.7 6.6 6.7	6.7 6.6 6.7 6.7 6.8	7.1 7.1 7.1 7.1 7.1	6.5 6.5 6.6 6.6 6.6	6.9 6.9 6.7 6.6 6.8	6.8 6.8 6.9 6.9 6.8	7.0 7.0 7.0	7.5 7.6 7.6 7.7 7.7	7.4 7.3 7.4 7.4 7.4	7.3 7.3 7.3 6.7 6.9	7.2 7.3 7.4 7.4 7.4	7.3 7.3 7.4
11 12 13 14 15	6.8 6.8 6.8 6.8	6.8 6.8 6.8 6.8 7.1	7.1 6.7 6.7 6.6 6.7	6.6 6.6 6.6 6.6	6.9 6.9 6.7 6.6	6.9 6.9 6.9 6.8	6.9 6.9 7.0 7.0 6.9	7.7 7.8 7.8 7.7 7.6	7.3 7.3 7.3 7.3 7.2	7.0 7.2 7.2 7.1 7.0	7.4 7.4 7.3 7.3 7.2	7.3 7.3 7.3 7.4
16 17 18 19 20	6.7 6.7 6.6 6.7 6.7	7.1 7.1 7.1 7.1 7.1	6.5 6.6 6.6 6.7 6.6	6.8 6.9 6.9 6.8 6.9	6.6 6.6 6.6 6.7 6.7	6.7 6.7 6.8 6.8 6.8	7.0 7.0 7.0 7.1 7.2	7.6 7.6 7.5 7.6 7.6	7.3 7.2 7.2 7.2 7.3	7.0 7.2 7.1 7.0 7.0	7.2 7.2 7.2 6.6 7.1	7.4 7.3 7.2 7.3 7.3
21 22 23 24 25	6.8 6.7 6.7 6.7	7.1 7.1 7.1 7.1 6.6	6.4 6.4 6.3 6.3	6.9 6.9 7.0 7.0 7.0	6.7 6.8 6.9 6.9 6.8	6.9 6.9 6.9 6.9	7.2 7.2 7.3 7.0 7.1	7.7 7.7 7.7 7.7 7.8	7.3 7.3 7.2 7.2 7.2	7.0 7.1 7.1 7.1 7.2	7.2 7.2 7.2 7.2 6.9	7.2 7.1 7.2 7.2 7.3
26 27 28 29 30 31	6.7 6.8 6.8 6.8 6.7	6.6 6.8 6.8 6.9 7.0	6.3 6.4 6.4 6.4 6.4	7.0 7.0 7.0 7.0 6.6 6.7	6.8 6.8 	6.9 7.0 7.0 7.0 7.0 7.0	7.1 7.2 7.3 7.4 7.4	7.7 7.7 7.7 7.6 7.5 7.6	7.2 7.3 7.3 7.3 7.3	7.3 7.3 7.3 7.2 7.3 7.2	7.0 7.2 7.2 7.2 7.2 7.2 7.4	7.3 7.3 7.3 7.3 7.2

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEDIAN VALUES

					DAIL	INLDIAN	VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	7.1	7.1				7.1		6.9	7.1	7.1	7.6
2	7.2	7.0	7.0				7.1		6.9	7.1	7.1	7.6
2 3	7.2	7.1	7.0				7.1			7.1	7.3	7.6
4	7.3	7.1	7.0				7.1			7.1	7.3	7.5
5	7.3	7.1					7.1		7.0	7.1	7.4	7.5
6	7.3	7.1					7.1		7.1	7.1	7.5	7.4
7	7.2	7.0					7.1		7.1	7.2	7.6	7.3
8	7.2	7.0					7.1		7.1	7.1	7.6	7.3
9	7.2	7.1					7.1		7.0	7.1	7.6	7.4
10	7.1	7.1					7.1		7.0	7.1	7.6	7.4
11	7.1	7.1					7.1		7.0	7.2	7.6	7.4
12	7.1	7.1					7.1		6.8	7.2	7.5	7.5
13	7.1	7.1					7.0		6.9	7.2	7.5	7.5
14	7.1	7.1					7.1		7.1	7.2	7.4	7.3
15	7.1	7.0					7.1		7.1	7.2	7.5	7.3
16	7.1	7.0					7.0		7.1	7.2	7.5	7.3
17	7.2	7.0					7.0		7.1	7.2	7.5	7.4
18	7.1	7.0							7.1	7.2	7.5	7.4
19	7.1	7.0							7.1	7.2	7.5	7.4
20	7.1	7.1							7.1	7.2	7.4	7.3
21	7.0	7.1							7.1	7.1	7.4	7.4
22	7.0	7.1						6.6	7.1	7.2	7.4	7.4
23		7.0						6.6	7.1	7.2	7.4	7.5 7.5
24		6.9						6.7	7.1	7.2	7.5	7.5
25	7.2	7.0						6.8	7.1	7.2	7.5	7.5
26	7.2	7.0						6.9	7.1	7.2	7.5	7.5 7.5
27	7.2	7.0						6.9	7.1	7.2	7.5	
28	7.2	7.2						6.9	7.1	7.2	7.5	7.4
29	7.2	7.1				6.8		6.9	7.1	7.2	7.6	7.4
30	7.1	7.1				7.0		6.9	7.1	7.2	7.6	7.4
31	7.1					7.1				7.2	7.6	

MISCELLANEOUS WATER-QUALITY STATION ANALYSIS

03376350 SOUTH FORK PATOKA RIVER NEAR SPURGEON, IN

Results for suspended-sediment data collected for the South Fork Patoka River. The data were collected through a cooperative investigation with the Division of Reclamation of the Indiana Department of Natural Resources with oversight from the Patoka South Fork Watershed Steering Committee. Samples were collected by a automated sampler located in the gage house. No data adjustments were made with respect to in-stream suspended-sediment data.

 $LOCATION.\text{--Lat }38^{0}17^{\prime}49^{\prime\prime}, long\ 87^{0}15^{\prime}37^{\prime\prime}, in\ NW^{1}/_{4}\ SW^{1}/_{4}\ sec.\ 36,\ T.2\ S.,\ R.8\ W,\ Pike\ County,\ Hydrologic\ Unit\ 05120209,\ on\ the\ left\ bank,\ 150\ ft\ upstream\ of\ the\ bridge\ on\ State\ Road\ 61,\ 0.5\ mi\ north\ of\ Enos\ Corner,\ and\ 3.1\ mi\ north\ of\ Spurgeon,\ IN.$

DRAINAGE AREA.--42.8 mi².

REMARKS.--Runoff affected by un-reclaimed surface mined lands.

		SUSPENDED SEDIMENT			SUSPENDED SEDIMENT			SUSPENDED SEDIMENT
Date	Time	(mg/L)	Date	Time	(mg/L)	Date	Time	(mg/L)
1998-10-21	0850	58	1999-01-26	0630	45	1999-04-12	1500	40
1998-10-21	0853	43	1999-01-26	1030	43	1999-04-13	1500	46
1998-10-21	0856	38	1999-01-26	1430	41	1999-04-14	1500	47
1998-11-04	1400	35	1999-01-25	1220	49	1999-04-15	1500	61
1998-11-04	1300	197	1999-02-25	1221	52	1999-04-15	1500	62
1998-12-21	1300	245	1999-02-25	1221	55	1999-04-16	1500	58
1999-01-21	1355	164	1999-02-25	1223	44	1999-04-23	1300	37
1999-01-21	1400	46	1999-02-25	1223	53	1999-04-23	1300	3 <i>7</i> 39
1999-01-21	1400	105	1999-02-25	1224	56	1999-04-25	1300	45
1999-01-21	1545	7.7	1999-02-25	1300	62	1999-04-26	1300	149
		39			51			
1999-01-21 1999-01-21	1548 1551	93	1999-02-26 1999-02-27	1300 1300	66	1999-04-27 1999-04-28	1300 1300	869 2380
					70			
1999-01-21 1999-01-22	1700 0500	48 130	1999-02-28 1999-03-01	1300	70 56	1999-04-29 1999-04-30	1300	142 99
1999-01-22	1200	330	1999-03-01	1300 1300	48	1999-04-30	1300 1300	49
								47
1999-01-22 1999-01-22	1230 1235	308 350	1999-03-03 1999-03-04	1300	58 49	1999-05-04	1300	47 62
				1300		1999-05-05	1300	
1999-01-22	1240	343	1999-03-05	1300	55	1999-05-06	1300	111
1999-01-22	1245	303	1999-03-06	1300	118	1999-05-07	1300	173
1999-01-22	1250	292	1999-03-07	1300	74	1999-05-08	1300	35
1999-01-22	1255	240	1999-03-08	1300	53	1999-05-09	1300	36
1999-01-22	1300	228	1999-03-09	1300	265	1999-05-10	1300	42
1999-01-22 1999-01-22	1305 1310	236 290	1999-03-10 1999-03-11	1300 1300	175 52	1999-05-11 1999-05-12	1300 1130	33 31
								28
1999-01-22 1999-01-22	1315 1320	133 234	1999-03-12 1999-03-13	1300 1300	49 53	1999-05-12 1999-05-13	1405 0800	28 24
1999-01-22	1430	23 4 326		1300	88	1999-05-13	0800	24
1999-01-22	1500	414	1999-03-14 1999-03-15	1300	29	1999-05-14	0800	31
1999-01-22	1530	522	1999-03-15	1300	57	1999-05-16	0800	63
1999-01-22	1600	600	1999-03-16	1300	108	1999-05-17	0800	56
1999-01-22	1630	1360	1999-03-18	1300	56	1999-05-18	0800	50
1999-01-22	1700	2210	1999-03-19	1300	44	1999-05-19	0800	36
1999-01-22	1730	2590	1999-03-20	1300	24	1999-05-20	0800	37
1999-01-22	1800	3080	1999-03-25	1411	62	1999-05-21	0800	211
1999-01-22	1830	3290	1999-03-25	1414	19	1999-05-22	0800	58
1999-01-22	2230	2540	1999-03-25	1417	40	1999-05-23	0800	49
1999-01-23	0230	1230	1999-03-25	1420	32	1999-05-24	0800	30
1999-01-23	0630	653	1999-03-25	1500	42	1999-05-25	0800	46
1999-01-23	1030	374	1999-03-26	1500	44	1999-05-26	0800	61
1999-01-23	1430	283	1999-03-27	1500	46	1999-05-27	0800	48
1999-01-23	1830	185	1999-03-28	1500	48	1999-05-28	0800	69
1999-01-23	2230	148	1999-03-29	1500	49	1999-05-29	0800	62
1999-01-24	0230	97	1999-03-30	1500	61	1999-05-30	0800	49
1999-01-24	0630	83	1999-03-31	1500	50	1999-05-31	0800	37
1999-01-24	1030	69	1999-04-01	1500	54	1999-06-01	0800	46
1999-01-24	1430	63	1999-04-02	1500	52	1999-06-02	0800	851
1999-01-24	1830	61	1999-04-03	1500	173	1999-06-02	1140	137
1999-01-24	2230	58	1999-04-04	1500	83	1999-06-02	1155	127
1999-01-25	0230	56	1999-04-05	1500	43	1999-06-02	1210	109
1999-01-25	0630	51	1999-04-06	1500	71	1999-06-02	1225	107
1999-01-25	1030	51	1999-04-07	1500	49	1999-06-02	1305	89
1999-01-25	1430	50	1999-04-08	1500	45	1999-06-03	0605	26
1999-01-25	1830	46	1999-04-09	1500	76	1999-06-04	0605	32
1999-01-25	2230	50	1999-04-10	1500	45	1999-06-05	0650	99
1999-01-26	0230	48	1999-04-11	1500	43	1999-06-06	0605	63

03376350 SOUTH FORK PATOKA RIVER NEAR SPURGEON, IN

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DRAINAGE AREA.--42.8 mi².

REMARKS.--Runoff affected by un-reclaimed surface mined lands.

		SUSPENDED SEDIMENT			SUSPENDED SEDIMENT			SUSPENDED SEDIMENT
Date	Time	(mg/L)	Date	Time	(mg/L)	Date	Time	(mg/L)
1999-06-07	0605	46	1999-10-08	1220	21	1999-12-12	1200	79
1999-06-08	0605	53	1999-10-10	0020	120	1999-12-13	1200	41
1999-06-09	0605	21	1999-10-11	1220	33	1999-12-14	1200	43
1999-06-10	0605	45	1999-10-13	0020	31	1999-12-15	1200	37
1999-06-11	0605	30	1999-10-15	0037	27	1999-12-16	1200	35
1999-06-12	0605	33	1999-10-16	1237	23	1999-12-17	1200	37
1999-06-13	0605	49	1999-10-18	0037	18	1999-12-18	1200	32
1999-06-14	0605	43	1999-10-19	1237	25	1999-12-19	1200	35
1999-06-15	0605	37	1999-10-21	0037	23	1999-12-20	1200	50
1999-06-16	0705	42	1999-10-22	1237	24	1999-12-21	1200	32
1999-06-17	0705	60	1999-10-24	0037	19	1999-12-22	1200	32
1999-06-18	0705	40	1999-10-25	1237	52	1999-12-23	1200	38
1999-06-19	0705	55	1999-10-27	0037	26	1999-12-24	1200	35
1999-06-20	0705	60	1999-10-28	1237	19	1999-12-25	1200	49
1999-06-21	0705	48	1999-10-30	0037	17	1999-12-26	1200	35
1999-06-22	0705	48	1999-10-31	1237	18	1999-12-27	1200	40
1999-06-23	0705	58	1999-11-02	0037	11	1999-12-28	1200	62
1999-06-24	0705	47	1999-11-03	1237	40	1999-12-29	1200	54
1999-06-25	0705	20	1999-11-05	0037	72	1999-12-30	1200	35
1999-06-26	0705	42	1999-11-06	1237	37	2000-01-04	1519	58
1999-06-27	0705	44	1999-11-08	0037	25	2000-01-05	1200	63
1999-06-28	0705	50	1999-11-09	1200	7.0	2000-01-06	1200	57
1999-06-29	0705	101	1999-11-10	1200	16	2000-01-07	1200	68
1999-06-30	0705	63	1999-11-11	1200	6.6	2000-01-08	1200	70
1999-07-01	0705	118	1999-11-12	1200	10	2000-01-09	1200	67
1999-07-02	0705	165	1999-11-13	1200	39	2000-01-10	1200	54
1999-07-03	0705	202	1999-11-14	1200	24	2000-01-11	1200	41
1999-07-04	0705	41	1999-11-15	1200	24	2000-01-12	1200	47
1999-07-05	0705	31	1999-11-16	1200	36	2000-01-13	1200	55
1999-07-06	0705	14	1999-11-17	1200	28	2000-01-14	1200	57
1999-07-07	0705	14	1999-11-18	1200	36	2000-01-15	1200	54
1999-08-26	1250	46	1999-11-18	1855	24	2000-01-16	1200	51
1999-08-27	1250	45	1999-11-19	1855	38	2000-01-17	1200	44
1999-08-28	1250	25	1999-11-20	1855	44	2000-01-18	1200	68
1999-08-29	1250	43	1999-11-21	1855	27	2000-01-19	1200	55
1999-09-08	1220	26	1999-11-22	1855	27	2000-01-20	1200	58
1999-09-10	0020	23	1999-11-23	1855	29	2000-01-21	1200	76
1999-09-11	1220	36	1999-11-24	1855	24	2000-01-22	1200	63
1999-09-13	0020	32	1999-11-25	1855	36	2000-01-23	1200	52
1999-09-14	1220	32	1999-11-26	1855	52	2000-01-24	1200	50
1999-09-16	0020	60	1999-11-27	1855	61	2000-01-25	1200	71
1999-09-17	1220	24	1999-11-28	1855	43	2000-01-26	1200	67
1999-09-19	0020	35	1999-11-29	1855	68	2000-01-27	1200	83
1999-09-20	1220	41	1999-11-30	1855	49	2000-01-28	1200	87
1999-09-22	0020	21	1999-12-01	1855	68	2000-01-29	1200	78
1999-09-23	1220	28	1999-12-02	1855	44	2000-01-30	1200	54
1999-09-25	0020	19	1999-12-03	1855	55	2000-01-31	1200	52 77
1999-09-26	1220	38	1999-12-04	1855	47	2000-02-01	1200	
1999-09-28	0020	18	1999-12-05	1855	38	2000-02-02	1200	68
1999-09-29	1220	19	1999-12-06	1350	33	2000-02-03	1200	74
1999-10-01 1999-10-02	0020 1220	20 16	1999-12-07 1999-12-08	1200 1200	61 47	2000-02-04 2000-02-05	1200 1200	67 63
1999-10-02	0020	16 14	1999-12-08	1200	47	2000-02-05	1200	63 69
1999-10-04	1220	18	1999-12-09	1200	112	2000-02-06	1200	55
1999-10-05	0020	18 21	1999-12-10	1200	42	2000-02-07	1200	89
1333-10-07	0020	41	1333-12-11	1200	74	2000-02-00	1200	0,5

03376350 SOUTH FORK PATOKA RIVER NEAR SPURGEON, IN

Results for suspended-sediment data collected for the South Fork Patoka River. The data were collected through a cooperative investigation with the Division of Reclamation of the Indiana Department of Natural Resources with oversight from the Patoka South Fork Watershed Steering Committee. Samples were collected by a automated sampler located in the gage house. No data adjustments were made with respect to in-stream suspended-sediment data.

 $LOCATION.\text{--Lat } 38^{0}17^{\prime}49^{\prime\prime}, long \ 87^{0}15^{\prime}37^{\prime\prime}, in \ NW^{1}/_{4} \ SW^{1}/_{4} \ sec. \ 36, T.2 \ S., R.8 \ W, Pike \ County, Hydrologic Unit \ 05120209, on the left bank, 150 ft upstream of the bridge on State Road 61, 0.5 mi north of Enos Corner, and 3.1 mi north of Spurgeon, IN.$

DRAINAGE AREA.--42.8 mi².

REMARKS.--Runoff affected by un-reclaimed surface mined lands.

		SUSPENDED SEDIMENT			SUSPENDED SEDIMENT			SUSPENDED SEDIMENT
Date	Time	(mg/L)	Date	Time	(mg/L)	Date	Time	(mg/L)
2000-02-09	1200	74	2000-04-16	0700	37	2000-06-16	1800	5.3
2000-02-10	1200	69	2000-04-17	0700	50	2000-06-17	1800	126
2000-02-11	1200	62	2000-04-18	0700	39	2000-06-18	1800	36
2000-02-12	1200	51	2000-04-19	0700	42	2000-06-19	1800	3.4
2000-02-13	1200	71	2000-04-20	0700	38	2000-06-20	1800	18
2000-02-14	1200	171	2000-04-21	0700	32	2000-06-21	1800	9.4
2000-02-15	1200	51	2000-04-22	0700	54	2000-06-22	1800	20
2000-02-16	1200	40	2000-04-29	0700	44	2000-06-23	1800	14
2000-02-17	1200	45	2000-04-30	0700	42	2000-06-24	1800	28
2000-02-29	1500	1230	2000-05-01	0700	40	2000-06-25	1800	19
2000-03-01	1500	83	2000-05-02	0700	46	2000-06-26	1800	131
2000-03-02	1500	46	2000-05-03	0700	43	2000-06-27	1800	46
2000-03-03	1500	52	2000-05-04	0700	42	2000-06-28	1800	31
2000-03-04	1500	51	2000-05-05	0700	32	2000-06-29	1800	19
2000-03-05	1500	47	2000-05-06	0700	30	2000-06-30	1800	20
2000-03-06	1500	50	2000-05-07	0700	31	2000-07-01	1800	24
2000-03-07	1500	52	2000-05-08	0700	43	2000-07-02	1800	22
2000-03-08	1500	44	2000-05-09	0700	26	2000-07-03	1800	22
2000-03-10	1200	41	2000-05-10	0700	47	2000-07-04	1800	12
2000-03-11	1200	54	2000-05-11	0700	24	2000-07-05	1800	19
2000-03-12	1200	54	2000-05-12	1200	18	2000-07-06	1800	17
2000-03-13	1200	50	2000-05-13	1200	26	2000-07-07	1800	11
2000-03-14	1200	48	2000-05-14	1200	15	2000-07-08	1800	9.1
2000-03-15	1200	41	2000-05-15	1200	27	2000-07-09	1800	9.7
2000-03-16	1200	568	2000-05-16	1200	32	2000-07-10	1800	12
2000-03-17	1200	595	2000-05-17	1200	33	2000-07-11	1800	21
2000-03-18	1200	48	2000-05-18	1200	33	2000-07-12	1800	15
2000-03-19	1200	202	2000-05-19	1200	19	2000-07-13	1800	12
2000-03-20	1200	70	2000-05-20	1200	33	2000-07-14	1800	9.8
2000-03-21	1200	26	2000-05-21	1200	48	2000-07-15	1800	21
2000-03-22	1200	40	2000-05-22	1200	40	2000-07-16	1800	16
2000-03-23	1200	36	2000-05-23	1200	38	2000-07-17	1800	21
2000-03-24	1200	40	2000-05-24	1200	39	2000-07-18	1800	21
2000-03-25	1200	42	2000-05-25	1200	34	2000-07-19	1300	26
2000-03-26	1200	37	2000-05-26	1200	47	2000-07-20	1200	24
2000-03-27	1200	44	2000-05-27	1200	20	2000-07-21	1200	20
2000-03-28	1200	45	2000-05-28	1200	31	2000-07-22	1200	18
2000-03-29	1200	31	2000-05-29	1200	47	2000-07-23	1200	34
2000-03-30	0700	29	2000-05-30	1200	14	2000-07-24	1200	53
2000-03-31	0700	28	2000-05-31	1200	30	2000-07-25	1200	33
2000-04-01	0700	38	2000-06-01	1200	23	2000-07-26	1200	22
2000-04-02	0700	34	2000-06-02	1200	40	2000-07-27	1200	38
2000-04-03	0700	40	2000-06-03	1200	343	2000-07-28	1200	42
2000-04-04	0700	43	2000-06-04	1200	20	2000-07-29	1200	19
2000-04-05	0700	41	2000-06-05	1200	37	2000-07-30	1200	14
2000-04-06	0700	43	2000-06-06	1200	18	2000-07-31	1200	11
2000-04-07	0700	45	2000-06-07	1200	23	2000-08-01	1200	9.0
2000-04-08	0700	84	2000-06-08	1200	15	2000-08-02	1200	6.8
2000-04-09	0700	37	2000-06-09	1200	26	2000-08-03	1200	19
2000-04-10	0700	22	2000-06-10	1800	53	2000-08-04	1200	18
2000-04-11	0700	36	2000-06-11	1800	25	2000-08-05	1200	7.1
2000-04-12	0700	40	2000-06-12	1800	15	2000-08-06	1200	11
2000-04-13	0700	33	2000-06-13	1800	2.4	2000-08-07	1200	411
2000-04-14	0700	37	2000-06-14	1800	26	2000-08-08	1200	122
2000-04-15	0700	39	2000-06-15	1800	44	2000-08-08	1710	264

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Results for suspended-sediment data collected for the South Fork Patoka River. The data were collected through a cooperative investigation with the Division of Reclamation of the Indiana Department of Natural Resources with oversight from the Patoka South Fork Watershed Steering Committee. Samples were collected by a automated sampler located in the gage house. No data adjustments were made with respect to in-stream suspended-sediment data.

 $LOCATION.\text{--Lat }38^{0}17^{\prime}49^{\prime\prime}, long\ 87^{0}15^{\prime}37^{\prime\prime}, in\ NW^{1}/_{4}\ SW^{1}/_{4}\ sec.\ 36,\ T.2\ S.,\ R.8\ W,\ Pike\ County,\ Hydrologic\ Unit\ 05120209,\ on\ the\ left\ bank,\ 150\ ft\ upstream\ of\ the\ bridge\ on\ State\ Road\ 61,\ 0.5\ mi\ north\ of\ Enos\ Corner,\ and\ 3.1\ mi\ north\ of\ Spurgeon,\ IN.$

DRAINAGE AREA.--42.8 mi².

REMARKS.--Runoff affected by un-reclaimed surface mined lands.

		SUSPENDED SEDIMENT			SUSPENDED SEDIMENT			SUSPENDED SEDIMENT
Date	Time	(mg/L)	Date	Time	(mg/L)	Date	Time	(mg/L)
2000-08-08	1810	136	2000-08-24	1530	65	2000-10-04	1600	40
2000-08-08	1910	99	2000-08-24	1630	54	2000-10-05	1600	24
2000-08-08	2010	80	2000-08-25	1630	32	2000-10-06	1600	28
2000-08-08	2110	59	2000-08-26	1630	5.9	2000-10-07	1600	49
2000-08-08	2210	50	2000-08-27	1630	255	2000-10-08	1600	37
2000-08-08	2310	51	2000-08-28	1630	42	2000-10-09	1600	49
2000-08-09	0010	48	2000-08-29	1630	12	2000-10-10	1600	45
2000-08-09	0110	32	2000-08-30	1630	13	2000-10-11	1600	62
2000-08-09	0210	49	2000-08-31	1630	16	2000-10-12	1600	57
2000-08-09	0310	24	2000-09-01	1630	17	2000-10-13	1600	52
2000-08-09	0410	23	2000-09-02	1630	16	2000-10-14	1600	38
2000-08-09	0510	19	2000-09-03	1630	13	2000-10-15	1600	43
2000-08-09	0610	24	2000-09-04	1630	18	2000-10-16	1600	25
2000-08-09	0710	20	2000-09-05	1630	12	2000-10-17	1600	39
2000-08-09	0810	22	2000-09-06	1630	28	2000-10-18	1600	30
2000-08-09	1200	18	2000-09-07	1630	30	2000-10-19	1600	24
2000-08-10	1200	10	2000-09-08	1630	17	2000-10-20	1600	19
2000-08-11	1200	12	2000-09-09	1630	25	2000-10-21	1600	28
2000-08-12	1200	15	2000-09-10	1630	25	2000-10-22	1600	26
2000-08-13	1200	10	2000-09-11	1630	33	2000-10-23	1600	11
2000-08-14	1200	13	2000-09-12	1630	42	2000-10-24	1600	5.8
2000-08-15	1200	13	2000-09-13	1630	18	2000-10-25	1600	14
2000-08-16	1200	14	2000-09-14	1630	18	2000-10-26	1600	26
2000-08-17	1200	12	2000-09-15	1630	21	2000-10-27	1600	20
2000-08-18	1800	10	2000-09-16	1630	22	2000-10-28	1600	19
2000-08-19	1800	25	2000-09-17	1630	23	2000-10-29	1600	16
2000-08-20	1800	41	2000-09-18	1630	21	2000-10-30	1600	19
2000-08-21	1800	56	2000-09-19	1630	22	2000-10-31	1600	23
2000-08-22	1800	18	2000-09-20	1630	29	2000-11-01	1600	21
2000-08-23	1200	79	2000-09-21	1630	25	2000-11-02	1600	13
2000-08-23	1300	362	2000-09-22	1630	17	2000-11-03	1600	15
2000-08-23	1400	377	2000-09-23	1630	24	2000-11-04	1600	36
2000-08-23	1500	318	2000-09-24	1630	28	2000-11-05	1600	19
2000-08-23	1600	186	2000-09-25	1100	781	2000-11-06	1600	29
2000-08-23	1700	122	2000-09-25	1130	868	2000-11-07	1600	17
2000-08-23	1800	91	2000-09-25	1200	960	2000-11-08	1600	18
2000-08-23	1900	72	2000-09-25	1230	765	2000-11-09	1200	53
2000-08-23	2000	56	2000-09-25	1240	770	2000-11-10	1200	47
2000-08-23	2100	50	2000-09-25	1250	639	2000-11-11	1200	41
2000-08-23	2200	54	2000-09-25	1300	566	2000-11-12	1200	44
2000-08-23	2300	68	2000-09-25	1415	314	2000-11-13	1200	51
2000-08-24	0000	502	2000-09-25	1420	239	2000-11-14	1200	25
2000-08-24	0100	948	2000-09-25	1425	225	2000-11-15	1200	21
2000-08-24	0200	622	2000-09-25	1430	202	2000-11-16	1200	27
2000-08-24	0300	506	2000-09-25	1435	186	2000-11-17	1200	25
2000-08-24	0400	859	2000-09-25	1440	189	2000-11-18	1200	31
2000-08-24	0500	551	2000-09-25	1600	105	2000-11-19	1200	41
2000-08-24	0600	489	2000-09-26	1600	13	2000-11-20	1200	40
2000-08-24	0830	203	2000-09-27	1600	22	2000-11-21	1200	52
2000-08-24	0930	177	2000-09-28	1600	36	2000-11-22	1200	52
2000-08-24	1030	141	2000-09-29	1600	34	2000-11-23	1200	82
2000-08-24	1130	142	2000-09-30	1600	24	2000-11-24	1200	61
2000-08-24	1230	121	2000-10-01	1600	23	2000-11-25	1200	75
2000-08-24	1330	92	2000-10-02	1600	22	2000-11-26	1200	41
2000-08-24	1430	78	2000-10-03	1600	23	2000-11-27	1200	32

03376350 SOUTH FORK PATOKA RIVER NEAR SPURGEON, IN

Results for suspended-sediment data collected for the South Fork Patoka River. The data were collected through a cooperative investigation with the Division of Reclamation of the Indiana Department of Natural Resources with oversight from the Patoka South Fork Watershed Steering Committee. Samples were collected by a automated sampler located in the gage house. No data adjustments were made with respect to in-stream suspended-sediment data.

LOCATION.--Lat $38^{\circ}17^{\circ}49^{\circ}$, long $87^{\circ}15^{\circ}37^{\circ}$, in NW $^{1}/_{4}$ SW $^{1}/_{4}$ sec. 36, T.2 S., R.8 W, Pike County, Hydrologic Unit 05120209, on the left bank, 150 ft upstream of the bridge on State Road 61, 0.5 mi north of Enos Corner, and 3.1 mi north of Spurgeon, IN.

DRAINAGE AREA.--42.8 mi².

REMARKS.--Runoff affected by un-reclaimed surface mined lands.

		SUSPENDED SEDIMENT			SUSPENDED SEDIMENT			SUSPENDED SEDIMENT
Date	Time	(mg/L)	Date	Time	(mg/L)	Date	Time	(mg/L)
2000-11-28	1200	33	2001-02-17	1200	56	2001-04-13	1200	31
2000-11-29	1200	30	2001-02-18	1200	37	2001-04-14	1200	33
2000-11-30	1200	34	2001-02-19	1200	49	2001-04-15	1200	75
2000-12-01	1200	52	2001-02-20	1200	34	2001-04-16	1200	36
2000-12-02	1200	38	2001-02-21	1200	36	2001-04-17	1200	41
2000-12-03	1200	40	2001-02-22	1200	36	2001-04-18	1200	41
2000-12-04	1200	42	2001-02-23	1200	36	2001-04-19	1200	36
2000-12-05	1200	46	2001-02-24	1200	56	2001-04-20	1200	34
2000-12-06	1200	63	2001-02-25	1200	133	2001-04-21	1200	25
2000-12-07	1200	39	2001-02-26	1200	85	2001-04-22	1200	35
2000-12-08	1200	46	2001-02-27	1200	22	2001-04-23	1200	24
2000-12-09	1200	56	2001-02-28	1200	67	2001-04-24	1200	37
2000-12-10	1200	49	2001-03-01	1200	46	2001-04-25	1200	35
2000-12-11	1200	108	2001-03-02	1200	60	2001-04-26	1200	43
2000-12-12	1200	88	2001-03-03	1200	62	2001-04-27	1200	29
2000-12-13	1200	38	2001-03-04	1200	201	2001-04-28	1200	20
2000-12-14	1200	46	2001-03-05	1200	84	2001-04-29	1200	36
2000-12-15	1200	43	2001-03-06	1200	61	2001-04-30	1200	41
2000-12-16	1200	233	2001-03-07	1200	54	2001-05-01	1200	19
2000-12-17	1200	61	2001-03-08	1200	57	2001-05-02	1800	28
2000-12-18	1200	41	2001-03-09	1200	60	2001-05-03	1800	36
2000-12-19	1200	37	2001-03-10	1200	44	2001-05-04	1800	50
2000-12-20	1200	40	2001-03-11	1200	65	2001-05-05	1800	39
2001-01-16	1200	44	2001-03-12	1200	71	2001-05-06	1800	14
2001-01-17	1200	65	2001-03-13	1200	77	2001-05-07	1800	40
2001-01-18	1200	53	2001-03-14	1200	38	2001-05-08	1800	75
2001-01-19	1200	52	2001-03-15	1200	48	2001-05-09	1800	132
2001-01-20	1200	49	2001-03-16	1200	78	2001-05-10	1800	49
2001-01-21	1200	65	2001-03-17	1200	41	2001-05-11	1800	414
2001-01-22	1200	53	2001-03-18	1200	38	2001-05-12	1800	80
2001-01-23	1200	82	2001-03-19	1200	40	2001-05-13	1800	45
2001-01-24	1200	46	2001-03-20	1200	41	2001-05-14	1800	52
2001-01-25	1200	60	2001-03-21	1200	45	2001-05-15	1800	44
2001-01-26	1200	39	2001-03-22	1200	41	2001-05-16	1800	30
2001-01-27	1200	34	2001-03-23	1200	43	2001-05-17	1800	30
2001-01-28	1200	53	2001-03-24	1200	45	2001-05-18	1800	59
2001-01-29	1200	44	2001-03-25	1200	43	2001-05-19	1800	29
2001-01-30	1200	95	2001-03-26	1200	51	2001-05-20	1800	26
2001-01-31	1200	52	2001-03-27	1200	48	2001-05-21	1800	49
2001-02-01	1200	40	2001-03-28	1200	50	2001-05-22	1800	22
2001-02-02	1200	31	2001-03-29	1200	46	2001-05-23	1800	24
2001-02-03	1200	51	2001-03-30	1200	39	2001-05-24	1800	32
2001-02-04	1200	44	2001-03-31	1200	38	2001-05-25	1800	25
2001-02-05	1200	39	2001-04-01	1200	42	2001-05-26	1800	28
2001-02-06	1200	43	2001-04-02	1200	43	2001-05-27	1800	26
2001-02-07	1200	41	2001-04-03	1200	133	2001-05-28	1800	18
2001-02-08	1200	47	2001-04-04	1200	45	2001-05-29	1800	18
2001-02-09	1200	52	2001-04-05	1200	33	2001-05-30	1800	17
2001-02-10	1200	177	2001-04-06	1200	24	2001-05-31	1800	28
2001-02-11	1200	40	2001-04-07	1200	27	2001-06-01	1800	15
2001-02-12	1200	48	2001-04-08	1200	25	2001-06-02	1800	16
2001-02-13	1200	47	2001-04-09	1200	28	2001-06-03	1800	17
2001-02-14	1200	52	2001-04-10	1200	27	2001-06-04	1800	16
2001-02-15	1200	687	2001-04-11	1200	30	2001-06-05	1800	14
2001-02-16	1200	72	2001-04-12	1200	36	2001-06-06	1800	17

03376350 SOUTH FORK PATOKA RIVER NEAR SPURGEON, IN

Results for suspended-sediment data collected for the South Fork Patoka River. The data were collected through a cooperative investigation with the Division of Reclamation of the Indiana Department of Natural Resources with oversight from the Patoka South Fork Watershed Steering Committee. Samples were collected by a automated sampler located in the gage house. No data adjustments were made with respect to in-stream suspended-sediment data.

 $LOCATION.-Lat~38^{o}17'49'', long~87^{o}15'37'', in~NW^{1}/_{4}~SW^{1}/_{4}~sec.~36, T.2~S., R.8~W, Pike~County, Hydrologic~Unit~05120209, on~the~left~bank, 150~ft~upstream~of~the~bridge~on~State~Road~61, 0.5~mi~north~of~Enos~Corner, and 3.1~mi~north~of~Spurgeon, IN.$

DRAINAGE AREA.--42.8 mi².

REMARKS.--Runoff affected by un-reclaimed surface mined lands.

		SUSPENDED SEDIMENT			SUSPENDED SEDIMENT			SUSPENDED SEDIMENT
Date	Time	(mg/L)	Date	Time	(mg/L)	Date	Time	(mg/L)
2001-06-07	1800	28	2001-08-03	0600	94	2001-09-27	0800	11
2001-06-08	1800	32	2001-08-04	0600	12	2001-09-28	0800	11
2001-06-09	1800	11	2001-08-05	0600	17	2001-09-29	0800	21
2001-06-10	1800	11	2001-08-06	0600	9.7	2001-09-30	0800	16
2001-06-11	1800	24	2001-08-07	0600	9.6	2001-10-01	0800	22
2001-06-12	1800	12	2001-08-08	1800	2.2	2001-10-02	0800	17
2001-06-13	1800	15	2001-08-09	1800	7.8	2001-10-03	0800	28
2001-06-14	1800	8.2	2001-08-10	1800	4.4	2001-10-04	0800	14
2001-06-15	1800	10	2001-08-11	1800	12	2001-10-05	0800	33
2001-06-16	1800	8.9	2001-08-12	1800	6.1	2001-10-06	0800	58
2001-06-17	1800	25	2001-08-13	1800	14	2001-10-07	0800	25
2001-06-18	1800	64	2001-08-14	1800	3.3	2001-10-08	0800	35
2001-06-19	1800	8.3	2001-08-15	1800	3.6	2001-10-09	0800	47
2001-06-20	1800	20	2001-08-16	1800	2.2	2001-10-10	0800	46
2001-06-21	1800	137	2001-08-17	1800	2.5	2001-10-11	0800	29
2001-06-22	1800	49	2001-08-18	1800	7.7	2001-10-12	0800	46
2001-06-23	1800	12	2001-08-19	1800	17	2001-10-13	0800	14
2001-06-24	1800	20	2001-08-20	1800	11	2001-10-14	0800	130
2001-06-25	1800	13	2001-08-21	1800	4.1	2001-10-15	0800	73
2001-06-26	1800	18	2001-08-22	1800	0.9	2001-10-16	0800	35
2001-06-27	1800	17	2001-08-23	1800	1.2	2001-10-17	0800	22
2001-06-28	0600	24	2001-08-24	1800	181	2001-10-18	0800	24
2001-06-29	0600	8.3	2001-08-25	1800	77	2001-10-19	0800	34
2001-06-30	0600	12	2001-08-26	1800	10	2001-10-20	0800	30
2001-07-01	0600	13	2001-08-27	1800	7.2	2001-10-21	0800	25
2001-07-02	0600	7.8	2001-08-28	1800	6.8	2001-10-22	0800	11
2001-07-03 2001-07-04	0600 0600	11 9.0	2001-08-29 2001-08-30	1800 1800	9.3 18	2001-10-23 2001-10-24	0800 0800	15 184
		9.0 6.4			31			184 59
2001-07-05 2001-07-06	0600 0600	7.1	2001-08-31 2001-09-01	1800 1800	29	2001-10-25 2001-10-26	0800 0800	31
2001-07-08	0600	5.2	2001-09-01	1800	18	2001-10-26	0800	19
2001-07-08	0600	2.7	2001-09-02	1800	36	2001-10-27	0800	20
2001-07-08	0600	156	2001-09-03	1800	38	2001-10-28	0800	22
2001-07-03	0600	51	2001-09-05	1800	32	2001-10-30	0800	41
2001-07-10	0600	14	2001-09-06	1800	9.3	2001-10-30	0800	35
2001-07-12	0600	15	2001-09-07	1800	231	2001-11-01	0800	24
2001-07-13	0600	13	2001-09-08	1800	68	2001-11-02	0800	20
2001-07-16	0600	51	2001-09-09	1800	51	2001-11-03	0800	12
2001-07-17	0600	45	2001-09-10	1800	26	2001-11-04	0800	16
2001-07-18	0600	43	2001-09-11	1800	17	2001-11-05	0800	15
2001-07-19	0600	35	2001-09-12	1800	24	2001-11-06	0800	4.5
2001-07-20	0600	55	2001-09-13	1800	25	2001-11-07	0800	12
2001-07-21	0600	15	2001-09-14	1800	9.6	2001-11-08	0800	17
2001-07-22	0600	23	2001-09-15	1800	44	2001-11-09	0800	10
2001-07-23	0600	25	2001-09-16	1800	15	2001-11-10	0800	16
2001-07-24	0600	9.9	2001-09-17	1800	19	2001-11-11	0800	38
2001-07-25	0600	18	2001-09-18	1800	13	2001-11-12	0800	46
2001-07-26	0600	16	2001-09-19	1800	47	2001-11-13	0800	16
2001-07-27	0600	67	2001-09-20	1800	21	2001-11-14	0800	41
2001-07-28	0600	25	2001-09-21	1800	17	2001-11-15	0800	30
2001-07-29	0600	36	2001-09-22	1800	17	2001-11-16	0800	47
2001-07-30	0600	46	2001-09-23	1800	17	2001-11-17	0800	18
2001-07-31	0600	23	2001-09-24	1800	20	2001-11-18	0800	32
2001-08-01	0600	26	2001-09-25	1800	14	2001-11-19	0800	34
2001-08-02	0600	30	2001-09-26	1330	18	2001-11-20	0800	21

03376350 SOUTH FORK PATOKA RIVER NEAR SPURGEON, IN

Results for suspended-sediment data collected for the South Fork Patoka River. The data were collected through a cooperative investigation with the Division of Reclamation of the Indiana Department of Natural Resources with oversight from the Patoka South Fork Watershed Steering Committee. Samples were collected by a automated sampler at located in the gage house. No data adjustments were made with respect to in-stream suspended-sediment data.

 $LOCATION.-Lat~38^{o}17'49'', long~87^{o}15'37'', in~NW^{1}/_{4}~SW^{1}/_{4}~sec.~36, T.2~S., R.8~W, Pike~County, Hydrologic~Unit~05120209, on~the~left~bank, 150~ft~upstream~of~the~bridge~on~State~Road~61, 0.5~mi~north~of~Enos~Corner, and 3.1~mi~north~of~Spurgeon, IN.$

DRAINAGE AREA.--42.8 mi².

REMARKS.--Runoff affected by un-reclaimed surface mined lands.

		SUSPENDED SEDIMENT			SUSPENDED SEDIMENT			SUSPENDED SEDIMENT
Date	Time	(mg/L)	Date	Time	(mg/L)	Date	Time	(mg/L)
2001-11-20	0800	21	2002-01-14	0800	66	2002-05-05	1500	52
2001-11-21	0800	42	2002-01-15	0800	59	2002-05-06	1500	58
2001-11-22	0800	43	2002-01-16	0800	65	2002-05-07	1500	159
2001-11-23	0800	27	2002-01-17	0800	72	2002-05-08	1500	1655
2001-11-24	0800	15	2002-01-18	0800	81	2002-05-09	1500	214
2001-11-25	0800	30	2002-01-19	0800	61	2002-05-10	1500	65
2001-11-26	0800	32	2002-01-20	0800	71	2002-05-11	1500	52
2001-11-27	0800	199	2002-01-21	0800	48	2002-05-12	1500	60
2001-11-28	0800	143	2002-01-22	0800	59	2002-05-13	1500	184
2001-11-29	0800	144	2002-01-23	0800	63	2002-05-14	1500	229
2001-11-30	0800	63	2002-01-24	0800	724	2002-05-15	1500	89
2001-12-01	0800	86	2002-01-25	0800	107	2002-05-16	1500	82
2001-12-02	0800	40	2002-01-26	0800	56	2002-05-17	1500	84
2001-12-03	0800	34	2002-01-27	0800	49	2002-05-18	1500	86
2001-12-04	0800	40	2002-01-28	0800	51	2002-05-19	1500	86
2001-12-05	0800	36	2002-01-29	0800	44	2002-05-20	1500	81
2001-12-06	0800	34	2002-01-30	0800	63	2002-05-21	1300	74
2001-12-07	0800	52	2002-01-31	0800	33	2002-05-22	0600	94
2001-12-08	0800	40	2002-03-28	1500	53	2002-05-23	0600	91
2001-12-09	0800	38	2002-03-29	1500	555	2002-05-24	0600	89
2001-12-10	0800	37	2002-03-30	1500	720	2002-05-25	0600	95
2001-12-11	0800	36	2002-03-31	1500	79	2002-05-26	0600	84
2001-12-12	0800	44	2002-04-01	1500	56	2002-05-27	0600	79
2001-12-13	0800	55	2002-04-02	1500	60	2002-05-28	0600	77
2001-12-14	0800	125	2002-04-03	1500	55	2002-05-29	0600	76
2001-12-15	0800	53	2002-04-04	1500	57	2002-05-30	0600	80
2001-12-16	0800	41	2002-04-05	1500	59	2002-05-31	0600	86
2001-12-17	0800	380	2002-04-06	1500	59	2002-06-01	0600	87
2001-12-18	0800	44	2002-04-07	1500	64	2002-06-02	0600	98
2001-12-19	0800	79	2002-04-08	1500	64	2002-06-03	0600	88
2001-12-20	0800	64	2002-04-09	1500	73	2002-06-04	0600	87
2001-12-21	0800	39	2002-04-10	1500	61	2002-06-05	0600	87
2001-12-22	0800	49	2002-04-11	1500	58	2002-06-06	0600	94
2001-12-23	0800	92	2002-04-12	1500	52	2002-06-07	0600	81
2001-12-24	0800	62	2002-04-14	1500	1510	2002-06-08	0600	92
2001-12-25	0800	57	2002-04-15	1500	196	2002-06-09	0600	108
2001-12-26	0800	49	2002-04-16	1500	81	2002-06-10	0600	101
2001-12-27	0800	56	2002-04-17	1500	93	2002-06-11	0600	96
2001-12-28	0800	60	2002-04-18	1500	49	2002-06-12	0600	83
2001-12-29	0800	121	2002-04-19	1500	54	2002-06-13	0600	111
2001-12-30	0800	76	2002-04-20	1500	49	2002-06-14	0600	69
2001-12-31	0800	74	2002-04-21	1500	49	2002-06-15	0600	122
2002-01-01	0800	93	2002-04-22	1500	194	2002-06-16	0600	100
2002-01-02	0800	117	2002-04-23	1500	52	2002-06-17	0600	104
2002-01-03	0800	89	2002-04-24	1500	219	2002-06-18	0600	117
2002-01-04	0800	111	2002-04-25	1500	49	2002-06-19	0600	110
2002-01-05	0800	81	2002-04-26	1500	44	2002-06-20	0600	100
2002-01-06	0800	75	2002-04-27	1500	489	2002-06-21	0600	81
2002-01-07	0800	64	2002-04-28	1500	183	2002-06-22	0600	73
2002-01-08	0800	91	2002-04-29	1500	225	2002-06-23	0600	103
2002-01-09	0800	66	2002-04-30	1500	69	2002-06-24	0600	74
2002-01-10	0800	67	2002-05-01	1500	55	2002-06-25	0600	74
2002-01-11	0800	63	2002-05-02	1500	192	2002-06-26	0600	152
2002-01-12	0800	53	2002-05-03	1500	127	2002-06-27	0600	117
2002-01-13	0800	54	2002-05-04	1500	51	2002-06-28	0600	72

03376350 SOUTH FORK PATOKA RIVER NEAR SPURGEON, IN

Results for suspended-sediment data collected for the South Fork Patoka River. The data were collected through a cooperative investigation with the Division of Reclamation of the Indiana Department of Natural Resources with oversight from the Patoka South Fork Watershed Steering Committee. Samples were collected by a automated sampler located in the gage house. No data adjustments were made with respect to in-stream suspended-sediment data.

 $LOCATION.\text{--Lat } 38^{0}17^{\prime}49^{\prime\prime}, long \ 87^{0}15^{\prime}37^{\prime\prime}, in \ NW^{1}/_{4} \ SW^{1}/_{4} \ sec. \ 36, T.2 \ S., R.8 \ W, Pike \ County, Hydrologic Unit \ 05120209, on the left bank, 150 ft upstream of the bridge on State Road 61, 0.5 mi north of Enos Corner, and 3.1 mi north of Spurgeon, IN.$

DRAINAGE AREA.--42.8 mi².

REMARKS.--Runoff affected by un-reclaimed surface mined lands.

		SUSPENDED SEDIMENT			SUSPENDED SEDIMENT
Date	Time	(mg/L)	Date	Time	(mg/L)
2002-06-29	0600	86	2002-08-23	1800	7.2
2002-06-30	0600	54	2002-08-24	1800	44
2002-07-01	0600	82	2002-08-25	1800	22
2002-07-02	0600	66	2002-08-26	1800	3.3
2002-07-03	0600	26	2002-08-27	1800	53
2002-07-04	0600	40	2002-08-28	1800	7.1
2002-07-05	0600	54	2002-08-29	1800	13
2002-07-06	0600	45	2002-08-30	1800	33
2002-07-07	0600	59	2002-08-31	1800	45
2002-07-08	0600	31	2002-09-01	1800	12
2002-07-09	0600	43	2002-09-02	1800	38
2002-07-10	0600	64	2002-09-03	1800	8.7
2002-07-11	0600	61	2002-09-04	1800	16
2002-07-12	0600	85	2002-09-05	1800	56
2002-07-13	0600	75	2002-09-06	1800	426
2002-07-14	0600	46	2002-09-07	1800	80
2002-07-15	0600	59	2002-09-08	1800	21
2002-07-16	0600	56	2002-09-09	1800	32
2002-07-17	0600	60	2002-09-10	1800	26
2002-07-18	0600	39	2002-09-11	1800	17
2002-07-19	0600	57	2002-09-12	1800	102
2002-07-20	0600	38	2002-09-13	1800	23
2002-07-21	0600	31	2002-09-14	1800	30
2002-07-22	0600	33	2002-09-15	1800	24
2002-07-23	0600	20	2002-09-16	1800	151
2002-07-24	0600	19	2002-09-17	1800	45
2002-07-25	0600	27	2002-09-18	1800	34
2002-07-26	0600	14	2002-09-19	1800	13
2002-07-27	0600	36	2002-09-20	1800	208
2002-07-28	0600	69	2002-09-21	1800	38
2002-07-29	0600	15	2002-09-22	1800	62
2002-07-30	0600	12	2002-09-23	1800	48
2002-07-31	0600	13	2002-09-24	1800	52
2002-08-01	0600	41	2002-09-25	1800	54
2002-08-02	0600	38	2002-09-26	1800	34
2002-08-03	0600	21	2002-09-27	1800	83
2002-08-04 2002-08-05	0600	16	2002-09-28	1800	94
2002-08-05	0600 1800	15 1.0	2002-09-29 2002-09-30	1800 1800	57 64
2002-08-06	1800	2.5	2002-09-30	1800	04
2002-08-07	1800	2.1			
2002-08-08	1800	2.0			
2002-08-09	1800	7.1			
2002-08-10	1800	10			
2002-08-12	1800	1.3			
2002-08-13	1800	2.1			
2002-08-14	1800	2.3			
2002-08-15	1800	10			
2002-08-16	1800	11			
2002-08-17	1800	4.3			
2002-08-18	1800	10			
2002-08-19	1800	5.9			
2002-08-20	1800	23			
2002-08-21	1800	9.1			
2002-08-22	1800	5.0			

03376500 PATOKA RIVER NEAR PRINCETON, IN

LOCATION.--Lat 38°23'25", long 87°32'55", in sec. 107, T.1 S., R.10 W., Gibson County, Hydrologic Unit 05120209, (PATOKA, IN quadrangle), on right downstream side of bridge on State Highway 65, 0.5 mi downstream from Indian Creek, 2 mi northeast of Princeton, and at mile 21.4.

DRAINAGE AREA.--822 mi².

90 PERCENT EXCEEDS

PERIOD OF RECORD.--August 1934 to current year. Published as "at Patoka" August 1934 to September 1940. Records published for both sites October 1939 to September 1940 (monthly discharge only at present site, for October, November 1939, published in WSP 1305).

REVISED RECORDS.--WSP 1275: 1952. WSP 1335: 1935-36, 1938-39, 1949(M), 1940-50. WSP 1385: 1951-52. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 390.00 ft above National Geodetic Vertical Datum of 1929. Jan. 21, 1941 to Oct. 23, 1986, water-stage recorder at dam 0.1 mi downstream and at datum 4.14 ft higher. See WSP 1725 for history of changes prior to Jan. 21, 1941.

REMARKS.--Records good. Flow regulated by Patoka Lake.

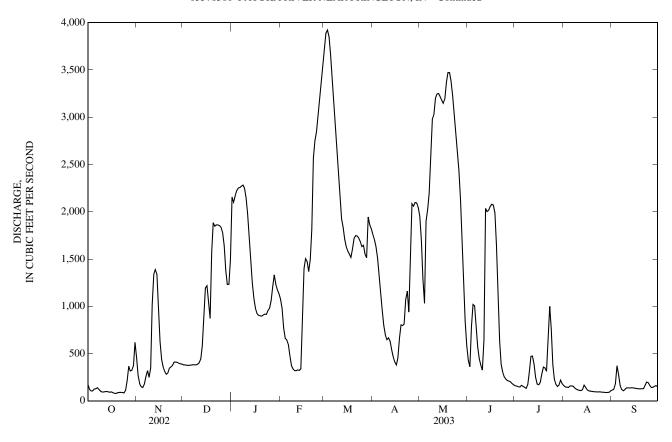
DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

				D/111	J 1 111111 11 1	THECES					
DAY OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 172 2 120 3 104 4 106	456 268 180 148	381 380 377 374	2,160 2,100 2,170 2,220	1,080 976 771 661	3,710 3,890 3,920 3,850	1,760 1,700 1,630 1,510	1,950 1,690 1,290 1,030	431 361 789 1,020	160 155 149 147	161 148 145 141	113 122 179 371
5 126	141	378	2,250	645	3,660	1,350	1,900	1,000	164	157	280
6 128 7 139 8 120 9 101 10 93	177 259 319 248 348	378 382 380 380 387	2,260 2,270 2,280 2,250 2,140	596 472 373 336 320	3,390 3,150 2,920 2,680 2,450	1,160 951 796 695 646	2,020 2,190 2,560 2,980 3,030	774 568 447 377 325	153 142 132 172 305	158 155 137 122 115	164 121 107 118 136
11 94 12 97 13 99 14 95 15 91	1,020 1,340 1,390 1,340 1,010	402 442 581 927 1,190	1,970 1,740 1,470 1,240 1,080	318 327 322 337 855	2,200 1,930 1,830 1,710 1,630	666 634 542 468 411	3,200 3,240 3,250 3,220 3,180	643 2,030 2,000 2,020 2,060	471 474 389 251 177	111 108 119 166 143	137 136 138 138 135
16 95 17 85 18 79 19 78 20 86	627 437 358 310 280	1,220 1,060 873 1,580 1,880	978 921 905 898 896	1,400 1,500 1,470 1,370 1,500	1,580 1,550 1,520 1,610 1,720	380 453 663 803 796	3,150 3,190 3,370 3,470 3,470	2,080 2,070 1,990 1,650 1,040	170 196 287 356 348	116 106 102 100 98	132 129 127 127 129
21 89 22 90 23 88 24 83 25 113	294 345 359 376 410	1,850 1,860 1,860 1,850 1,840	908 917 914 957 980	1,810 2,570 2,750 2,850 3,020	1,750 1,740 1,720 1,680 1,630	813 1,070 1,160 939 1,600	3,380 3,220 3,050 2,840 2,660	633 385 301 253 229	313 665 999 762 382	95 95 94 95 92	128 165 198 192 162
26 214 27 365 28 315 29 323 30 371 31 619	411 407 397 391 388	1,780 1,640 1,370 1,230 1,230 1,490	1,060 1,200 1,330 1,230 1,170 1,130	3,210 3,380 3,540 	1,650 1,550 1,510 1,940 1,860 1,820	2,090 2,060 2,100 2,090 2,050	2,440 2,130 1,690 1,200 843 582	214 208 200 182 169	229 173 151 167 219 181	91 89 88 89 91 106	142 143 154 161 149
TOTAL 4,778 MEAN 154 MAX 619 MIN 78 CFSM 0. IN. 0.2		31,952 1,031 1,880 374 1.25 1.45	45,994 1,484 2,280 896 1.80 2.08	38,759 1,384 3,540 318 1.68 1.75	69,750 2,250 3,920 1,510 2.74 3.16	33,986 1,133 2,100 380 1.38 1.54	77,415 2,497 3,470 582 3.04 3.50	26,449 882 2,080 169 1.07 1.20	9,039 292 999 132 0.35 0.41	3,633 117 166 88 0.14 0.16	
STATISTICS OF	MONTHLY M	EAN DATA	FOR WATE	ER YEARS	1935 - 2003,	BY WATE	R YEAR (W	/Y)			
MEAN 256 MAX 2,573 (WY) (194 MIN 1 (WY) (194	53 9.83	1,018 4,232 (2002) 10.2 (1944)	1,516 8,365 (1937) 44.3 (1944)	1,797 5,570 (1950) 64.2 (1964)	2,194 8,531 (1945) 61.5 (1941)	1,944 4,664 (1989) 240 (2001)	1,541 6,810 (1961) 117 (1941)	814 4,322 (1996) 7.93 (1936)	442 3,075 (1958) 15.0 (1944)	312 3,915 (1979) 4.60 (1936)	8.12
SUMMARY STA	TISTICS]	FOR 2002 C.	ALENDAR	YEAR	FOR 200	3 WATER	YEAR	WATER	YEARS 19	935 - 2003
ANNUAL TOTA ANNUAL MEAN HIGHEST ANNU LOWEST ANNU	I JAL MEAN		536,023 1,469			360,82 98			1)80 51	1950 1954
HIGHEST DAIL' LOWEST DAIL' ANNUAL SEVE MAXIMUM PEA MAXIMUM PEA ANNUAL RUNC	' MEAN N-DAY MINIM IK FLOW IK STAGE DFF (CFSM)	IUM		Sep Sep	13	3,93 1	78 Oc 35 Oc 30 Ma 8.32 Ma 1.20	r 3 et 19 et 18 r 2 r 2	18,5 18,7	0.00 A 0.00 A 700 . 26.80 .	Jan 26, 1937 Aug 29, 1936 Aug 29, 1936 Jan 26, 1937 Jan 26, 1937
ANNUAL RUNC 10 PERCENT EX 50 PERCENT EX	CEEDS CEEDS		24 3,660 644	ļ		1 2,34 56	58		2,8	17.26 340 388 30	

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03376500 PATOKA RIVER NEAR PRINCETON, IN—Continued

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03377500 WABASH RIVER AT MOUNT CARMEL, IL

LOCATION.--Lat $38^{\circ}24'07''$, long $87^{\circ}45'10''$, in $SE^{1}_{4}NW^{1}_{4}$ sec.28, T.1 S., R.12 W., Wabash County, Illinois, Hydrologic Unit 05120113, (MOUNT CARMEL, IL-IN quadrangle), on right bank on downstream side of Southern Railway bridge at Mount Carmel, 0.2 mi downstream from Patoka River, 0.2 mi upstream of State Road 64 bridge, and at mile 94.4.

DRAINAGE AREA.--28,635 mi².

PERIOD OF RECORD,--January 1908 to September 1913 (gage heights only), October 1927 to current year. Gage-height records collected in this vicinity November 1874 to December 1878, are contained in files of Louisville office of the U.S. Army Corps of Engineers and since June 1884, are contained in reports of National Weather Service.

REVISED RECORDS.--WDR IN-73-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 369.46 ft above National Geodetic Vertical Datum of 1929. Oct. 1, 1949, to Feb. 8, 1977, at datum 2.00 ft higher. See WSP 1725 for history of changes prior to Sept. 30, 1949.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow partially regulated by upstream reservoirs.

EXTREMES OUTSIDE THE PERIOD OF RECORD.--(1874-78, 1884 to 1985) Maximum discharge, 428,000 ft³/s Mar. 30, 1913, gage height, 33.0 ft, present site and datum

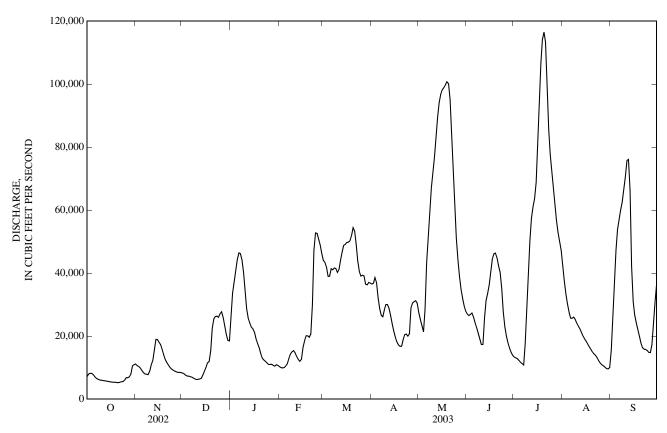
DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2	7,140 7,970	11,100 10,700	8,290 8,060	26,000 33,600	10,300 9,990	44,000 43,400	36,500 36,700	27,500 25,200	27,000 26,500	13,400 13,100	42,600 37,500	15,600 25,200
2 3 4	8,190	10,700	7,590	37,400	9,910	41,900	38,600	23,400	26,900	12,900	33,300	38,200
	8,200	9,920	7,340	40,600	10,100	39,000	36,900	21,400	27,300	12,300	30,300	47,300
5	7,750	9,140	7,300	44,300	10,500	39,000	32,200	28,500	26,000	11,700	27,700	53,800
6	7,110	8,440	7,130	46,400	11,200	41,400	28,800	43,300	24,200	11,300	25,700	57,100
7 8	6,600 6,300	8,010 7,910	6,980 6,700	46,200 44,200	13,000 14,300	41,000 41,600	26,600 26,100	51,400 58,700	22,600 20,900	10,800 17,600	25,700 26,000	60,000 62,600
9	6,120	7,760	6,420	40,300	15,100	41,500	28,400	67,100	19,000	29,800	25,300	66,400
10	6,030	8,830	6,220	34,300	15,400	40,200	30,000	72,000	17,300	39,100	24,100	70,600
11	5,940	10,800	6,320	28,700	14,700	41,100	30,000	76,900	17,400	50,400	23,100	75,700
12	5,850	12,200	6,400	25,700	13,500	44,100	28,800	83,600	25,900	57,400	22,300	76,100
13 14	5,780 5,670	15,700 19,000	6,580	24,200	12,600 12,000	46,700 48,800	26,500	89,400	31,300	61,100	21,100	66,200
15	5,590	18,900	7,620 8,810	22,800 22,300	12,600	48,800	24,000 21,600	94,000 96,700	33,600 36,200	63,600 68,800	20,000 19,100	42,100 30,900
		,			,			,			,	
16 17	5,500 5,410	18,100 17,300	10,100 11,500	21,200 19,100	16,400 18,500	49,700 49,800	19,600	98,100 98,900	40,400 44,400	81,600 95,500	18,300 17,400	26,700 24,200
18	5,370	17,300	11,900	17,700	20,100	50,200	18,200 17,200	98,900	46,100	107,000	16,600	22,100
19	5,360	14,100	15,400	16,300	20,100	51,900	16,800	101,000	46,400	114,000	15,800	20,000
20	5,280	12,600	22,500	14,500	19,600	54,500	16,800	100,000	44,800	116,000	14,900	17,700
21	5,260	11,600	25,500	e13,000	20,600	53,400	18,800	95,100	42,200	113,000	14,300	16,300
21 22 23	5,340	10,800	26,300	e12,400	29,900	49,000	20,500	84,500	40,200	101,000	13,900	15,900
23	5,530	10,100	26,300	e12,000	47,200	43,800	20,600	71,600	35,000	85,500	13,100	15,800
24 25	5,590 6,020	9,530 9,200	26,000 27,100	e11,500 e11,000	52,700 52,600	40,500 39,100	20,000 20,700	60,000 51,100	27,700 22,900	77,600 72,300	12,200 11,400	15,400 14,800
	*		*	,	,		1	,				
26	6,820	8,930	27,700	e11,000	50,800	39,300	28,900	44,300	20,000	66,900	10,900	14,800
27	6,790 7,060	8,700 8,470	25,900 23,100	e11,100 e10,700	48,900 46,200	39,100 36,500	30,500 31,000	38,800 34,900	17,900 16,200	61,500 56,700	10,600 10,100	17,300 23,600
28 29	7,000	8,520	20,500	10,500	40,200	36,300	31,200	31,900	14,900	52,800	9,730	31,100
30	10,600	8,410	18,700	10,900		37,000	30,400	29,600	13,900	50,000	9,590	36,600
31	10,900		18,500	10,700		36,800		27,900		47,200	9,990	
TOTAL	205,000	340,970	444,760	730,600	628,800	1,349,700	792,900	1,926,500	855,100	1,771,900	612,610	1,100,100
MEAN	6,613	11,370	14,350	23,570	22,460	43,540	26,430	62,150	28,500	57,160	19,760	36,670
MAX	10,900	19,000	27,700	46,400	52,700	54,500	38,600	101,000	46,400	116,000	42,600	76,100
MIN CFSM	5,260 0.23	7,760 0.40	6,220 0.50	10,500 0.82	9,910 0.78	36,300 1.52	16,800 0.92	21,400 2.17	13,900 1.00	10,800 2.00	9,590 0.69	14,800 1.28
IN.	0.23	0.40	0.58	0.82	0.78	1.75	1.03	2.50	1.11	2.30	0.80	1.43
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1928 - 2003,	BY WATE	ER YEAR (W	Y)			
MEAN	9,747	15,560	25,700	36,910	40,950	49,820	49,930	43,070	28,900	19,810	12,170	9,326
MAX	42,230	87,950	92,340	199,300	147,100	108,700	106,400	148,200	80,120	73,580	75,530	50,670
(WY)	(2002)	(1994)	(1986)	(1950)	(1950)	(1985)	(1938)	(2002)	(1998)	(1958)	(1979)	(1989)
MIN	2,465	2,632	2,266	2,861	3,758	4,815	11,900	5,805	5,035	3,366	2,372	2,572
(WY)	(1941)	(1931)	(1964)	(1977)	(1931)	(1941)	(1941)	(1934)	(1988)	(1936)	(1936)	(1940)

03377500 WABASH RIVER AT MOUNT CARMEL, IL—Continued

SUMMARY STATISTICS	FOR 2002 CALE	ENDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEAR	S 1928 - 2003
ANNUAL TOTAL	13,841,220		10,758,940			
ANNUAL MEAN	37,920		29,480		28,430	
HIGHEST ANNUAL MEAN					56,740	1950
LOWEST ANNUAL MEAN					6,144	1941
HIGHEST DAILY MEAN	236,000	May 17	116,000	Jul 20	302,000	May 25, 1943
LOWEST DAILY MEAN	5,130	Sep 17	5,260	Oct 21	1,650	Sep 27, 1941
ANNUAL SEVEN-DAY MINIMUM	5,180	Sep 13	5,360	Oct 16	1,700	Dec 19, 1963
MAXIMUM PEAK FLOW		•	117,000	Jul 20	305,000	May 25, 1943
MAXIMUM PEAK STAGE			24.85	Jul 20	31.75	Jan 7, 1991
ANNUAL RUNOFF (CFSM)	1.32		1.03		0.99	
ANNUAL RUNOFF (INCHES)	17.98		13.98		13.49	
10 PERCENT EXCEEDS	83,000		60,400		68,000	
50 PERCENT EXCEEDS	20,800		22,600		16,700	
90 PERCENT EXCEEDS	6,340		7,700		4,400	

e Estimated



$03378500\,$ WABASH RIVER AT NEW HARMONY, IN

LOCATION.--Lat $38^{\circ}07'53''$, long $87^{\circ}56'32''$ in $SE^{1}_{4}SE^{1}_{4}$ sec. 35, T.4 S., R.14 W., Posey County, Hydrologic Unit 05120113, (NEW HARMONY, IN quadrangle), at bridge on State Highway 66 at New Harmony, at Indiana-Illinois state line, 2.3 mi downstream from (Wabash River including Black River, Hoggatt 1975), and at mile 53.1.

DRAINAGE AREA.--29,234 mi².

WATER STAGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 353.20 ft above National Geodetic Vertical Datum of 1929. (Prior to October 1992, erroneously published as 353.30 ft above National Geodetic Vertical Datum of 1929).

REMARKS.--Water-quality data collected (by USGS Kentucky district) October 1974 to 1986; 1999 to current year.

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, 17.72 ft, July 21; mimimum gage height, 1.22 ft, Oct. 21, and 22.

GAGE HEIGHT, FEET WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1.81 2.05 2.17 2.21 2.09	2.89 2.79 2.73 2.62 2.46	2.19 2.13 2.04 1.95 1.91	6.91 8.29 8.96 9.51 10.13	2.75 2.67 2.67 2.64 2.77	 9.32	8.45 8.49 8.79 8.57 7.62	6.57 6.07 5.68 5.35 7.33	6.57 6.58 6.31	3.53 3.45 3.37 3.21 3.06	9.71 8.71 7.85 7.21 6.61	3.87 6.01 8.65 10.36 11.49
6 7 8 9 10	1.89 1.72 1.61 1.55 1.53	2.25 2.13 2.07 2.05 2.39	1.86 1.81 1.73 1.65 1.59	10.45 10.43 10.10 9.39 8.19	2.89 3.25 3.55 3.74 3.81	9.68 9.55 9.58 9.55 9.35	6.91 6.44 6.27 6.68 7.03	9.99 11.53 12.82 14.06 14.89	5.91 5.59 5.21 4.83 4.49	2.97 2.83 4.27 6.81 8.71	6.19 6.13 6.19 6.03 5.79	12.15 12.75 13.42 14.07 14.63
11 12 13 14 15	1.49 1.47 1.41 1.40 1.36	2.95 3.19 3.87 4.63 4.66	1.60 1.62 1.71 2.08 2.39	7.01 6.29 5.92 5.60 5.45	3.69 3.45 3.25 3.17 3.51	9.43 10.01 10.68 11.07 11.15	7.07 6.82 6.36 5.84 5.33	15.34 15.77 16.18 16.53 16.73	4.69 7.01 7.79 8.04 8.55	10.86 12.10 12.85 13.39 14.23	5.59 5.39 5.17 4.93 4.73	15.04 15.05 13.71 10.20 7.61
16 17 18 19 20	1.33 1.29 1.27 1.27 1.24	4.47 4.31 4.02 3.61 3.28	2.64 2.98 3.18 4.37 5.79	5.21 4.75 4.35 4.08 3.71	4.33 4.67 4.95 5.04 5.17	11.17 11.13 11.19 11.62 12.09	4.93 4.61 4.43 4.25 4.23	16.81 16.84 16.89 16.88 16.89	9.28 10.04 10.30 10.19 9.83	15.20 16.11 16.81 17.37 17.60	4.57 4.37 4.19 4.00 3.83	6.51 5.91 5.45 4.95 4.47
21 22 23 24 25	1.23 1.23 1.30 1.33 1.51	3.03 2.85 2.67 2.55 2.45	6.43 6.57 6.55 6.37 6.49	3.44 3.25 2.77 2.67 2.71	5.52 8.33 11.26 12.14	11.96 11.27 10.23 9.41 9.07	4.68 5.03 5.05 4.94 5.15	16.67 16.16 15.01 13.47 12.09	9.48 9.03 8.02 6.67 5.65	17.62 17.17 16.31 15.45 14.73	3.69 3.59 3.43 3.23 3.05	4.17 4.01 3.99 3.90 3.79
26 27 28 29 30 31	1.77 1.73 1.81 2.11 2.87 2.90	2.37 2.31 2.23 2.22 2.21	6.63 6.27 5.67 5.16 4.81 5.07	2.84 2.87 2.87 3.07 3.09 2.84	 	9.09 9.04 8.59 8.53 8.59 8.55	6.95 7.27 7.31 7.33 7.15	10.63 9.38 8.49 7.79 7.22 6.76	5.03 4.55 4.17 3.88 3.64	14.01 13.21 12.47 11.72 11.15 10.61	2.91 2.85 2.73 2.63 2.63 2.64	3.81 4.20 5.59 7.21 8.31
MEAN MAX MIN	1.68 2.90 1.23	2.94 4.66 2.05	3.65 6.63 1.59	5.71 10.45 2.67	 	 	6.33 8.79 4.23	12.35 16.89 5.35	 	11.07 17.62 2.83	4.86 9.71 2.63	8.18 15.05 3.79

03378500 WABASH RIVER AT NEW HARMONY, IN-Continued

(National Stream-Quality Accounting Network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD .--

CHEMICAL ANALYSES.--October 1974 to 1986. Data collected for water years 1997 and 1998 were published in the Kentucky Water Resources Data reports, and are stored in the Indiana NWIS/QW data base. October 1999 to current year.

SEDIMENT DISCHARGE.--Partial record station--October 1974 to 1985.

PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE.--October 1974 to September 1980.

WATER TEMPERATURES.--October 1974 to September 1980.

REMARKS.--Water discharge obtained from station Wabash River at Mount Carmel, IL. (03377500). Water quality data obtained from USGS Kentucky district office.

(--, no data; Other QA, grab sample at center vertical (surface only); E, laboratory estimated value; M, presence of material verified but not quantified; <, numeric result is less than the value shown)

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Turbid- ity, wat unf lab, Hach 2100AN NTU (99872)	UV absorb- ance, 254 nm, wat flt units /cm (50624)	UV absorb- ance, 280 nm, wat flt units /cm (61726)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Hard- ness, water, unfltrd mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
NOV 05	1240	Environmental	9,100	41	0.096	0.072	10.4	8.2	584	10.0	230	62.0
DEC	1240	Environmentai	9,100	41	0.096	0.072	10.4	0.2	364	10.0	230	02.0
17	1220	Environmental	11,500	30	0.087	0.066	12.4	7.8	704	6.0	300	78.6
17	1228	Blank										0.05
FEB												
11	1250	Environmental	14,700	27	0.074	0.055	14.2	8.2	679	3.0	270	70.6
11	1258	Blank			0.001	0.001						
25	1240	Environmental	52,600	180	0.126	0.098	12.8	7.8	315	2.0	120	33.2
MAR												
11	1150	Environmental	41,000				12.2	7.9	446	5.5	180	49.5
11	1200	Replicate									180	49.4
25	1140	Environmental	38,900	110	0.111	0.083	9.6	7.8	481	13.0	210	57.5
APR	1140	F ' 1	26,000	50	0.005	0.070	0.0	7.0	522	10.5	240	62.0
08	1140 1210	Environmental Environmental	26,000	56 58	0.095 0.085	0.070 0.063	9.8 11.3	7.9 8.4	533 590	12.5 17.5	240 270	63.8 70.0
22 22	1210	Blank	20,500	38 			11.3	8.4	390 	17.5	270	0.03
MAY	1210	Dialik										0.03
05	1230	Environmental	28,600	190	0.118	0.088	7.1	8.0	456	18.5	190	50.2
05	1240	Replicate	20,000	190	0.119	0.089					130	32.8
19	1230	Environmental	101,000	50	0.185	0.139	6.0	7.3	404	20.0	180	49.5
JUN	1200		101,000	20	0.100	0.107	0.0	,		20.0	100	.,
04	1320	Environmental	27,300	57	0.111	0.081	8.4	8.1	539	18.0	230	60.1
04	1320	Blank										
24	1230	Environmental	27,700	E69	0.131	0.098	8.1	7.8	312	24.0	220	58.8
JUL												
15	1250	Environmental	68,800	58	0.175	0.132	7.8	7.7	321	29.0	130	37.5
15	1258	Blank			< 0.004	< 0.004						
AUG	1200	-	22 200		0.400		0.5	0.4		40.0	2.10	<i></i>
12	1200	Environmental	22,300	52	0.132	0.097	8.5	8.1	517	19.0	240	62.7
12 SEP	1210	Other QA		48	0.134	0.099					240	62.7
08	1210	Environmental	62,600	77	0.173	0.129	7.7	7.7	323	28.5	140	38.3
00	1210	Environmental	02,000	11	0.173	0.129	1.1	1.1	323	20.3	140	30.3

03378500 WABASH RIVER AT NEW HARMONY, IN—Continued

				Alka-	Bicar-						Ammonia		
Date NOV	Magnes- ium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	linity, wat flt inc tit field, mg/L as CaCO3 (39086)	bonate, wat flt incrm. titr., field, mg/L (00453)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	on evap. at 180degC wat flt mg/L (70300)	org-N, water, fltrd, mg/L as N (00623)	org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)
05 DEC	19.4	4.02	26.5	173	211	34.1	0.22	5.34	70.5	348	0.32	0.73	< 0.04
17 17 FEB	25.4 <0.008	3.41 0.03	35.2 <0.09	194	237	42.8 0.27	0.26 <0.01	5.52 <0.13	97.8 0.03	443	0.29	0.57	<0.04 0.029
11 11	22.2	3.11	34.4	194	237	53.5	0.22	5.88	66.8	403	0.33	0.58	0.05
25 MAR	9.90	2.97	13.2	83	101	21.9	0.13	5.22	35.0	189	0.48	1.2	0.14
11 11 25	14.3 14.6 17.2	2.46 2.33 2.82	18.5 18.9 16.5	124 125 140	151 153 171	30.6 30.6 26.3	0.14 0.15 0.17	6.34 6.42 6.20	43.6 43.9 45.6	260 259 286	 0.43	 1.0	 E0.03
APR 08 22 22	18.5 22.4 <0.008	2.68 2.71 <0.01	16.9 21.3 <0.09	168 188 	205 230 	30.0 34.0 <0.01	0.18 0.20 <0.01	5.40 0.68 <0.13	50.2 62.7 <0.01	324 352	0.31 0.32	0.69 1.3	<0.04 <0.04 <0.015
MAY 05 05 19	16.5 10.8 13.9	3.31 2.04 4.41	15.6 9.95 8.80	140 138 125	171 169 152	26.0 25.5 17.9	0.18 0.18 0.18	4.06 2.77 7.68	49.8 49.7 28.5	276 277 244	0.36 0.37 0.62	1.6 1.6 0.90	<0.04 E0.02 <0.04
JUN 04	18.5	2.83	14.9	176	214	26.4	0.22	5.30	50.1	318	0.34	1.1	< 0.015
04 24	17.7	3.67	12.2	164	200	22.1	0.21	7.67	38.4	280	E0.43	E0.98	< 0.04
JUL 15 15	9.66	4.34	6.27	105	128	12.4	<0.17	6.81	18.1	196 	0.46	0.99	<0.04
AUG 12 12 SEP	19.9 19.8	4.11 4.02	16.7 16.7	176	214	25.4 25.1	0.23 0.23	5.88 5.76	41.8 41.9	311 300	0.37 0.39	1.1 1.1	<0.04 <0.04
08	11.9	4.42	7.32	113	137	13.4	0.20	7.86	21.2	210	0.46	1.1	< 0.04
			WATER-0	QUALITY	DATA, WA	ATER YEA	R OCTOB	ER 2002 TO	O SEPTEM	BER 2003			
	Nitrite +		Ortho- phos-	Partic- ulate			m . 1	Inor-			Pheo-	Chloro-	
Date	nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	phate, water, fltrd, mg/L as P (00671)	nitro- gen, susp, water, mg/L (49570)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	phytin a, phyto- plank- ton, ug/L (62360)	phyll a phyto- plank- ton, fluoro, ug/L (70953)	Aluminum, water, fltrd, ug/L (01106)
NOV 05	nitrate water fltrd, mg/L as N	water, fltrd, mg/L as N	phate, water, fltrd, mg/L as P	nitro- gen, susp, water, mg/L	phorus, water, fltrd, mg/L	phorus, water, unfltrd mg/L	carbon, suspnd sedimnt total, mg/L	carbon, suspnd sedimnt total, mg/L	carbon, suspnd sedimnt total, mg/L	carbon, water, fltrd, mg/L	a, phyto- plank- ton, ug/L	phyto- plank- ton, fluoro, ug/L	inum, water, fltrd, ug/L
NOV 05 DEC 17 17	nitrate water fltrd, mg/L as N (00631)	water, fltrd, mg/L as N (00613)	phate, water, fltrd, mg/L as P (00671)	nitro- gen, susp, water, mg/L (49570)	phorus, water, fltrd, mg/L (00666)	phorus, water, unfltrd mg/L (00665)	carbon, suspnd sedimnt total, mg/L (00694)	carbon, suspnd sedimnt total, mg/L (00688)	carbon, suspnd sedimnt total, mg/L (00689)	carbon, water, fltrd, mg/L (00681)	a, phyto- plank- ton, ug/L (62360)	phyto- plank- ton, fluoro, ug/L (70953)	inum, water, fltrd, ug/L (01106)
NOV 05 DEC 17 17 FEB 11 11 25	nitrate water fltrd, mg/L as N (00631) 1.77	water, fltrd, mg/L as N (00613) 0.008 E0.006	phate, water, fltrd, mg/L as P (00671) 0.072	nitrogen, susp, water, mg/L (49570) 0.33	phorus, water, fltrd, mg/L (00666) 0.086	phorus, water, unfltrd mg/L (00665) 0.19	carbon, suspnd sedimnt total, mg/L (00694) 3.5 2.0	carbon, suspnd sedimnt total, mg/L (00688) <0.1	carbon, suspnd sedimnt total, mg/L (00689) 3.5	carbon, water, fltrd, mg/L (00681)	a, phyto-plank-ton, ug/L (62360) 24.5 7.3	phyto- plank- ton, fluoro, ug/L (70953)	inum, water, fltrd, ug/L (01106)
NOV 05 DEC 17 17 FEB 11 25 MAR 11 25	nitrate water fltrd, mg/L as N (00631) 1.77 2.44 <0.022 2.93	water, fltrd, mg/L as N (00613) 0.008 E0.006 <0.002	phate, water, fltrd, mg/L as P (00671) 0.072 0.104 <0.007	nitro- gen, susp, water, mg/L (49570) 0.33 0.24 0.19 <0.02	phorus, water, fltrd, mg/L (00666) 0.086 0.119 	phorus, water, unfltrd mg/L (00665) 0.19 0.19 	carbon, suspnd sedimnt total, mg/L (00694) 3.5 2.0 1.7 <0.1	carbon, suspnd sedimnt total, mg/L (00688) <0.1 <0.1 <0.1	carbon, suspnd sedimnt total, mg/L (00689) 3.5 1.9 1.7 <0.1	carbon, water, fltrd, mg/L (00681) 3.7 3.2 2.7 0.5	a, phyto-plank-ton, ug/L (62360) 24.5 7.3 3.7	phyto- plank- ton, fluoro, ug/L (70953) 19.1 19.7 9.4	inum, water, fltrd, ug/L (01106)
NOV 05 DEC 17 17 FEB 11 25 MAR 11 25 APR 08 22 22	nitrate water fltrd, mg/L as N (00631) 1.77 2.44 <0.022 2.93 1.91	water, fltrd, mg/L as N (00613) 0.008 E0.006 <0.002 0.016 0.011	phate, water, fltrd, mg/L as P (00671) 0.072 0.104 <0.007 0.096 	nitro- gen, susp, water, mg/L (49570) 0.33 0.24 0.19 <0.02 0.63	phorus, water, fltrd, mg/L (00666) 0.086 0.119 0.110	phorus, water, unfltrd mg/L (00665) 0.19 0.19 0.41	carbon, suspnd sedimnt total, mg/L (00694) 3.5 2.0 1.7 <0.1 6.3	carbon, suspnd sedimnt total, mg/L (00688) <0.1 <0.1 <0.1 <0.1 <0.4 < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < <	carbon, suspnd sedimnt total, mg/L (00689) 3.5 1.9 1.7 <0.1 6.0	carbon, water, fltrd, mg/L (00681) 3.7 3.2 2.7 0.5 4.3	a, phyto-plank-ton, ug/L (62360) 24.5 7.3 3.7 4.5 4.2	phyto- plank- ton, fluoro, ug/L (70953) 19.1 19.7 9.4 5.7 5.6	inum, water, fltrd, ug/L (01106)
NOV 05 DEC 17 17 FEB 11 25 MAR 11 25 APR 08 22 22 MAY 05 05 19	nitrate water fltrd, mg/L as N (00631) 1.77 2.44 <0.022 2.93 1.91 3.57 3.48 2.36	water, fltrd, mg/L as N (00613) 0.008 E0.006 <0.002 0.016 0.011 0.028 0.015 0.009	phate, water, fltrd, mg/L as P (00671) 0.072 0.104 <0.007 0.096 0.089 0.072 0.057 0.011	nitro- gen, susp, water, mg/L (49570) 0.33 0.24 0.19 <0.02 0.63 0.52 0.35 0.77	phorus, water, fltrd, mg/L (00666) 0.086 0.119 0.110 0.105	phorus, water, unfiltrd mg/L (00665) 0.19 0.19 0.41 0.29 0.17 0.21	carbon, suspnd sedimnt total, mg/L (00694) 3.5 2.0 1.7 <0.1 6.3 5.3 3.1 5.4	carbon, suspnd sedimnt total, mg/L (00688) <0.1 <0.1 0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	carbon, suspnd sedimnt total, mg/L (00689) 3.5 1.9 1.7 <0.1 6.0 5.2 3.1 5.3	carbon, water, fltrd, mg/L (00681) 3.7 3.2 2.7 0.5 4.3 3.8 3.4 3.0	a, phyto-plank-ton, ug/L (62360) 24.5 7.3 3.7 4.5 4.2 10.1 12.4 57.4	phyto- plank- ton, fluoro, ug/L (70953) 19.1 19.7 9.4 5.7 5.6 14.3 7.8 47.0	inum, water, fltrd, ug/L (01106)
NOV 05 DEC 17 17 FEB 11 25 MAR 11 25 APR 08 22 22 MAY 05 05 19 JUN 04	nitrate water flurd, mg/L as N (00631) 1.77 2.44 <0.022 2.93 1.91 3.57 3.48 2.36 <0.022 1.65 1.64 4.68 3.33	water, fltrd, mg/L as N (00613) 0.008 E0.006 <0.002 0.016 0.011 0.028 0.015 0.009 <0.002 0.014 0.014 0.074 0.010	phate, water, fltrd, mg/L as P (00671) 0.072 0.104 <0.007 0.096 0.089 0.072 0.057 0.011 <0.007 0.038 0.037 0.076 0.060	nitro- gen, susp, water, mg/L (49570) 0.33 0.24 0.19 <0.02 0.63 0.52 0.35 0.77 0.92 0.96 0.27 0.63	phorus, water, fltrd, mg/L (00666) 0.086 0.119 0.110 0.0050 0.025 0.050 0.049 0.097 0.079	phorus, water, unfitrd mg/L (00665) 0.19 0.19 0.19 0.41 0.29 0.17 0.21 0.21 0.23	carbon, suspnd sedimnt total, mg/L (00694) 3.5 2.0 1.7 <0.1 6.3 5.3 3.1 5.4 7.5 7.6 2.3 5.3	carbon, suspnd sedimnt total, mg/L (00688) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	carbon, suspnd sedimnt total, mg/L (00689) 3.5 1.9 1.7 <0.1 6.0 5.2 3.1 5.3 7.4 7.4 2.2 5.3	carbon, water, fltrd, mg/L (00681) 3.7 3.2 2.7 0.5 4.3 3.8 3.4 3.0 3.9 3.9 5.6 3.3	a, phyto-plank-ton, ug/L (62360) 24.5 7.3 3.7 4.5 4.2 10.1 12.4 57.4 33.5 34.3 5.0	phyto-plank-ton, fluoro, ug/L (70953) 19.1 19.7 9.4 5.7 5.6 14.3 7.8 47.0 31.5 33.1 5.4	inum, water, fltrd, ug/L (01106)
NOV 05 DEC 17 17 FEB 11 25 MAR 11 25 APR 08 22 22 MAY 05 05 19 JUN 04 04 24	nitrate water flurd, mg/L as N (00631) 1.77 2.44 <0.022 2.93 1.91 3.57 3.48 2.36 <0.022 1.65 1.64 4.68	water, fltrd, mg/L as N (00613) 0.008 E0.006 <0.002 0.016 0.011 0.028 0.015 0.009 <0.002 0.014 0.014 0.074	phate, water, fltrd, mg/L as P (00671) 0.072 0.104 <0.007 0.096 0.089 0.072 0.057 0.011 <0.007	nitro-gen, susp, water, mg/L (49570) 0.33 0.24 0.19 <0.02 0.63 0.52 0.35 0.77 0.92 0.96 0.27	phorus, water, fltrd, mg/L (00666) 0.086 0.119 0.110 0.005 0.086 0.072 0.025 0.050 0.049 0.097	phorus, water, unfiltrd mg/L (00665) 0.19 0.19 0.19 0.41 0.29 0.17 0.21 0.21	carbon, suspnd sedimnt total, mg/L (00694) 3.5 2.0 1.7 <0.1 6.3 5.3 3.1 5.4 7.5 7.6 2.3	carbon, suspnd sedimnt total, mg/L (00688) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 0.1 <0.1 0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	carbon, suspnd sedimnt total, mg/L (00689) 3.5 1.9 1.7 <0.1 6.0 5.2 3.1 5.3 7.4 7.4 2.2	carbon, water, fltrd, mg/L (00681) 3.7 3.2 2.7 0.5 4.3 3.8 3.4 3.0 3.9 5.6	a, phyto-plank-ton, ug/L (62360) 24.5 7.3 3.7 4.5 4.2 10.1 12.4 57.4 33.5 34.3 5.0	phyto-plank-ton, fluoro, ug/L (70953) 19.1 19.7 9.4 5.7 5.6 14.3 7.8 47.0 31.5 33.1 5.4	inum, water, fltrd, ug/L (01106)
NOV 05 DEC 17 17 FEB 11 25 MAR 11 25 APR 08 22 22 MAY 05 05 19 JUN 04 04 24 JUL 15	nitrate water flurd, mg/L as N (00631) 1.77 2.44 <0.022 2.93 1.91 3.57 3.48 2.36 <0.022 1.65 1.64 4.68 3.33	water, fltrd, mg/L as N (00613) 0.008 E0.006 <0.002 0.016 0.011 0.028 0.015 0.009 <0.002 0.014 0.014 0.074	phate, water, fltrd, mg/L as P (00671) 0.072 0.104 <0.007 0.096 0.089 0.072 0.057 0.011 <0.007 0.038 0.037 0.076 0.060	nitro-gen, susp, water, mg/L (49570) 0.33 0.24 0.19 <0.02 0.63 0.52 0.35 0.77 0.92 0.96 0.27 0.63	phorus, water, fltrd, mg/L (00666) 0.086 0.119 0.110 0.086 0.072 0.025 0.050 0.049 0.097	phorus, water, unfiltrd mg/L (00665) 0.19 0.19 0.41 0.29 0.17 0.21 0.21	carbon, suspnd sedimnt total, mg/L (00694) 3.5 2.0 1.7 <0.1 6.3 5.3 3.1 5.4 7.5 7.6 2.3 5.3	carbon, suspnd sedimnt total, mg/L (00688) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	carbon, suspnd sedimnt total, mg/L (00689) 3.5 1.9 1.7 <0.1 6.0 5.2 3.1 5.3 7.4 7.4 2.2 5.3	carbon, water, fltrd, mg/L (00681) 3.7 3.2 2.7 0.5 4.3 3.8 3.4 3.0 3.9 3.9 5.6 3.3	a, phyto-plank-ton, ug/L (62360) 24.5 7.3 3.7 4.5 4.2 10.1 12.4 57.4 33.5 34.3 5.0 30.7	phyto-plank-ton, fluoro, ug/L (70953) 19.1 19.7 9.4 5.7 5.6 14.3 7.8 47.0 31.5 33.1 5.4 32.1	inum, water, fltrd, ug/L (01106)
NOV 05 DEC 17 17 FEB 11 25 MAR 11 25 APR 08 22 APR 05 05 JUN 04 04 04 19 JUN 19	nitrate water flurd, mg/L as N (00631) 1.77 2.44 <0.022 2.93 1.91 3.57 3.48 2.36 <0.022 1.65 1.64 4.68 3.33 E4.45 2.98	water, fltrd, mg/L as N (00613) 0.008 E0.006 <0.002 0.016	phate, water, fltrd, mg/L as P (00671) 0.072 0.104 <0.007 0.096 0.089 0.072 0.057 0.011 <0.007 0.038 0.037 0.076 0.060 E0.074	nitro- gen, susp, water, mg/L (49570) 0.33 0.24 0.19 <0.02 0.63 0.52 0.35 0.77 0.92 0.96 0.27 0.63 0.62 0.42	phorus, water, fltrd, mg/L (00666) 0.086 0.119 0.110 0.105 0.086 0.072 0.025 0.050 0.049 0.097 0.079 E0.089	phorus, water, unfiltrd mg/L (00665) 0.19 0.19 0.19 0.41 0.29 0.17 0.21 1.21 1.21 0.23 E0.26 0.29	carbon, suspnd sedimnt total, mg/L (00694) 3.5 2.0 1.7 <0.1 6.3 5.3 3.1 5.4 7.5 7.6 2.3 5.3 5.8 3.7	carbon, suspnd sedimnt total, mg/L (00688) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 0.4 0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	carbon, suspnd sedimnt total, mg/L (00689) 3.5 1.9 1.7 <0.1 6.0 5.2 3.1 5.3 7.4 7.4 2.2 5.3 5.0 3.7	carbon, water, fltrd, (00681) 3.7 3.2 2.7 0.5 4.3 3.8 3.4 3.0 3.9 5.6 3.3 4.0 5.0	a, phyto-plank-ton, ug/L (62360) 24.5 7.3 3.7 4.5 4.2 10.1 12.4 57.4 33.5 34.3 5.0 30.7 16.6 13.4	phyto-plank-ton, fluoro, ug/L (70953) 19.1 19.7 9.4 5.7 5.6 14.3 7.8 47.0 31.5 33.1 5.4 32.1 27.3	inum, water, fltrd, ug/L (01106)

$03378500~WABASH~RIVER~AT~NEW~HARMONY, IN\\--Continued$

	Anti-			Beryll-			Chrom-						Mangan-
	mony,	Arsenic	Barium,	ium,	Boron,	Cadmium	ium,	Cobalt	Copper,	Iron,	Lead,	Lithium	ese,
	water,												
	fltrd,												
Date	ug/L												
	(01095)	(01000)	(01005)	(01010)	(01020)	(01025)	(01030)	(01035)	(01040)	(01046)	(01049)	(01130)	(01056)
NOV	(0-0,0)	(0.000)	(0.000)	(0-0-0)	()	(010-0)	(01000)	(01000)	(0-0.0)	(0-0.0)	(0-01)	(01100)	(0-000)
05		1.4			136					<10		4.8	
DEC													
17		1.4			144					E7		5.9	
17		< 0.3			<7					<10		< 0.5	
FEB													
11		1.2			111					E5		4.0	
11													
25		0.6			41					23		1.4	
MAR													
11		0.7			43					11		1.8	
11		0.7			44					E10		1.8	
25		1.0			53					10		2.2	
APR													
08		1.1			59					E7		2.5	
22 22		1.1			78					<10		3.0	
22		< 0.3			<7					<10		< 0.5	
MAY													
05		0.9			70					<10		2.5	
05		0.6			44					E5		1.6	
19		1.3			45					E8		1.3	
JUN													
04	< 0.30	1.3	45	< 0.06	71	E0.03	< 0.8	0.28	2.0	<8	< 0.08	2.4	2.9
04													
24		1.4			58					<8		1.6	
JUL													
15		1.4			44					13		1.0	
15													
AUG													
12		1.9			87					E5		2.3	
12		1.9			86					<8		2.3	
SEP													
08		1.4			53					13		1.4	

03378500 WABASH RIVER AT NEW HARMONY, IN—Continued

Date	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Stront- ium, water, fltrd, ug/L (01080)	Vanad- ium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)	2,6-Diethylaniline water fltrd 0.7u GF ug/L (82660)	CIAT, water, fltrd, ug/L (04040)	Aceto- chlor, water, fltrd, ug/L (49260)	Ala- chlor, water, fltrd, ug/L (46342)	alpha- HCH, water, fltrd, ug/L (34253)	Atrazine, water, fltrd, ug/L (39632)
NOV	()	(/	(/	()	(/	(/	(/	(/	()	(/	,	(/	(
05			0.6		231	1.4		< 0.006	E0.063	0.025	< 0.004	< 0.005	0.205
DEC					254	1.2		0.006	E0.004	0.140	0.004	0.005	0.267
17			1.1		254	1.3		< 0.006	E0.034	0.142	< 0.004	< 0.005	0.267
17 FEB			< 0.5		< 0.20	< 0.1							
11			1.0		248	3.0		< 0.006	E0.034	0.008	< 0.004	< 0.005	0.092
11													
25			0.5		102	0.9		< 0.006	E0.035	0.017	< 0.004	< 0.005	0.099
MAR													
11			0.6		146	0.7							
11			0.7		149	0.8							
25			0.9		178	2.0		< 0.006	E0.045	0.012	0.005	< 0.005	0.132
APR 08			1.0		209	2.9		< 0.006	E0.040	0.010	E0.004	< 0.005	0.158
22			1.0		240	2.9		< 0.006	E0.040 E0.049	0.010	< 0.004	< 0.005	0.138
22			<0.5		< 0.20	E0.1							
MAY			νο.5		VO.20	20.1							
05			0.6		134	1.1		< 0.006	E0.196	0.115	< 0.004	< 0.005	4.62
05			E0.3		86.6	0.7		< 0.006	E0.234	0.112	< 0.004	< 0.005	4.64
19			0.7		138	1.1		< 0.006	E0.624	2.12	0.072	< 0.005	11.9
JUN	4.1	2.02	0.0	0.20	210	1.2		0.006	E0 211	0.720	0.046	0.005	5.01
04 04	4.1	2.03	0.8	< 0.20	210	1.3	M	<0.006 <0.006	E0.311 <0.006	0.728 <0.006	0.046 <0.004	<0.005 <0.005	5.81 <0.007
24			0.7		175	1.5		< 0.006	E0.520	E0.462	E0.030	< 0.005	E3.52
JUL			0.7		175	1.5		<0.000	L0.520	L0.402	L0.030	<0.003	13.32
15			0.5		112	1.9		< 0.006	E0.220	0.302	0.026	< 0.005	1.89
15													
AUG													
12			0.6		229	2.3		< 0.006	E0.103	0.058	< 0.004	< 0.005	0.522
12			0.7		225	2.3							
SEP 08			E0.4		109	2.0		< 0.006	E0.075	0.042	0.006	-0.005	0.202
08			EU.4		109	2.0		<0.006	E0.075	0.042	0.006	< 0.005	0.293

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Date	Azin- phos- methyl, water, fltrd 0.7u GF ug/L (82686)	Ben- flur- alin, water, fltrd 0.7u GF ug/L (82673)	Butyl- ate, water, fltrd, ug/L (04028)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Carbo- furan, water, fltrd 0.7u GF ug/L (82674)	Chlor- pyrifos water, fltrd, ug/L (38933)	cis- Per- methrin water fltrd 0.7u GF ug/L (82687)	Cyana- zine, water, fltrd, ug/L (04041)	DCPA, water fltrd 0.7u GF ug/L (82682)	Diazi- non, water, fltrd, ug/L (39572)	Dieldrin, water, fltrd, ug/L (39381)	Disul- foton, water, fltrd 0.7u GF ug/L (82677)	EPTC, water, fltrd 0.7u GF ug/L (82668)
NOV 05	< 0.050	< 0.010	< 0.002	< 0.041	< 0.020	< 0.005	< 0.006	< 0.018	< 0.003	< 0.005	< 0.005	< 0.02	< 0.002
DEC	.0.050	-0.010	.0.000	E0.017	.0.000	.0.005	.0.006	.0.010	.0.002	.0.006	.0.005	.0.02	.0.000
17 17	<0.050	<0.010	<0.002	E0.017	<0.020	<0.005	<0.006	<0.018	<0.003	<0.006	<0.005	<0.02	<0.002
FEB													
11	< 0.050	< 0.010	< 0.002	< 0.041	< 0.020	< 0.005	< 0.006	< 0.018	< 0.003	< 0.005	< 0.005	< 0.02	< 0.002
11 25	< 0.050	<0.010	< 0.002	< 0.041	<0.020	< 0.005	< 0.006	<0.018	< 0.003	< 0.005	<0.005	<0.02	< 0.002
MAR	<0.030	<0.010	<0.002	<0.041	<0.020	<0.003	<0.000	<0.016	<0.003	<0.003	<0.003	<0.02	<0.002
11													
11													
25	< 0.050	< 0.010	< 0.002	< 0.041	< 0.020	< 0.005	< 0.006	< 0.018	< 0.003	< 0.005	< 0.005	< 0.02	< 0.002
APR 08	< 0.050	< 0.010	< 0.002	< 0.041	< 0.020	< 0.005	< 0.006	< 0.018	< 0.003	< 0.005	< 0.005	< 0.02	< 0.002
	< 0.050	< 0.010	< 0.002	< 0.041	< 0.020	< 0.005	< 0.006	< 0.018	< 0.003	< 0.005	< 0.005	< 0.02	< 0.002
22 22													
MAY													
05	< 0.050	< 0.010	< 0.002	< 0.041	< 0.020	< 0.005	< 0.006	< 0.018	< 0.003	< 0.005	< 0.005	< 0.02	< 0.002
05 19	<0.050 <0.050	<0.010 <0.010	<0.002 <0.002	<0.041 <0.041	<0.020 <0.020	<0.005 <0.005	<0.006 <0.006	<0.018 <0.018	<0.003 <0.003	<0.005 <0.005	<0.005 <0.005	<0.02 <0.02	<0.002 <0.002
JUN	<0.030	<0.010	<0.002	<0.041	<0.020	<0.003	<0.000	<0.016	<0.003	<0.003	<0.003	<0.02	<0.002
04	< 0.050	< 0.010	< 0.002	< 0.041	E0.030	0.005	< 0.006	< 0.018	< 0.003	E0.004	< 0.005	< 0.02	< 0.002
04	< 0.050	< 0.010	< 0.002	< 0.041	< 0.020	< 0.005	< 0.006	< 0.018	< 0.003	< 0.005	< 0.005	< 0.02	< 0.002
24	< 0.050	< 0.010	< 0.002	< 0.041	E0.006	< 0.005	< 0.006	< 0.018	< 0.003	< 0.005	< 0.005	< 0.02	< 0.002
JUL	0.050	0.040	0.000	T0 000	T0 006	0.005	0.006	0.010	0.000	0.006	0.010	0.00	0.000
15	< 0.050	< 0.010	< 0.002	E0.002	E0.006	< 0.005	< 0.006	< 0.018	< 0.003	0.006	0.010	< 0.02	< 0.002
15 AUG													
12	< 0.050	< 0.010	< 0.002	< 0.041	< 0.020	< 0.005	< 0.006	< 0.018	< 0.003	E0.002	< 0.005	< 0.02	< 0.002
12													
SEP													
08	< 0.050	< 0.010	< 0.002	< 0.041	< 0.020	< 0.005	< 0.006	< 0.018	< 0.003	0.006	< 0.005	< 0.02	< 0.002

$03378500~WABASH~RIVER~AT~NEW~HARMONY, IN\\--Continued$

Date	Ethal- flur- alin, water, fltrd 0.7u GF ug/L (82663)	Etho- prop, water, fltrd 0.7u GF ug/L (82672)	Fonofos water, fltrd, ug/L (04095)	Lindane water, fltrd, ug/L (39341)	Linuron water fltrd 0.7u GF ug/L (82666)	Malathion, water, fltrd, ug/L (39532)	Methyl para- thion, water, fltrd 0.7u GF ug/L (82667)	Metola- chlor, water, fltrd, ug/L (39415)	Metri- buzin, water, fltrd, ug/L (82630)	Molinate, water, fltrd 0.7u GF ug/L (82671)	Napropamide, water, fltrd 0.7u GF ug/L (82684)	p,p-' DDE, water, fltrd, ug/L (34653)	Parathion, water, fltrd, ug/L (39542)
NOV 05	< 0.009	< 0.005	< 0.003	< 0.004	< 0.035	< 0.027	< 0.006	0.103	0.006	< 0.002	< 0.007	< 0.003	< 0.010
DEC	<0.009	<0.003	<0.003	<0.004	<0.033	<0.027	<0.000	0.103	0.000	<0.002	<0.007	<0.003	<0.010
17	< 0.009	< 0.005	< 0.003	< 0.004	< 0.035	< 0.027	< 0.006	0.042	0.050	< 0.002	< 0.007	< 0.003	< 0.010
17													
FEB													
11	< 0.009	< 0.005	< 0.003	< 0.004	< 0.035	< 0.027	< 0.006	0.037	< 0.006	< 0.002	< 0.007	< 0.003	< 0.010
11													
25	< 0.009	< 0.005	< 0.003	< 0.004	< 0.035	< 0.027	< 0.006	0.048	0.015	< 0.002	< 0.007	< 0.003	< 0.010
MAR													
11 11													
25	< 0.009	< 0.005	< 0.003	< 0.004	< 0.035	< 0.027	< 0.006	0.145	0.013	< 0.005	< 0.007	< 0.003	< 0.010
APR	<0.007	<0.003	<0.003	₹0.004	<0.055	<0.027	<0.000	0.143	0.013	<0.003	<0.007	<0.003	<0.010
08	< 0.009	< 0.005	< 0.003	< 0.004	< 0.035	< 0.027	< 0.006	0.052	< 0.006	< 0.002	< 0.007	< 0.003	< 0.010
	< 0.009	< 0.005	< 0.003	< 0.004	< 0.035	< 0.027	< 0.006	0.121	< 0.006	< 0.002	< 0.007	< 0.003	< 0.010
22 22													
MAY													
05	< 0.009	< 0.005	< 0.003	< 0.004	< 0.035	< 0.027	< 0.006	0.938	0.009	< 0.002	< 0.007	< 0.003	< 0.010
05	< 0.009	< 0.005	< 0.003	< 0.004	< 0.035	< 0.027	< 0.006	0.937	< 0.010	< 0.002	< 0.007	< 0.003	< 0.010
19	< 0.009	< 0.005	< 0.003	< 0.004	< 0.035	< 0.027	< 0.006	2.80	0.035	< 0.002	< 0.007	< 0.003	< 0.010
JUN 04	< 0.009	< 0.005	< 0.003	< 0.004	< 0.035	< 0.027	< 0.006	1.11	0.020	< 0.002	< 0.007	< 0.003	< 0.010
04	<0.009	< 0.005	< 0.003	< 0.004	< 0.035	<0.027	< 0.006	< 0.013	< 0.020	< 0.002	< 0.007	< 0.003	< 0.010
24	< 0.009	< 0.005	< 0.003	< 0.004	< 0.035	< 0.027	< 0.006	E1.22	E0.020	< 0.002	< 0.007	< 0.003	< 0.010
JUL	(0.00)	νο.σσσ	νο.σσσ	40.00 1	10.055	10.027	νο.σσσ	21.22	20.020	Q0.002	νο.σση	10.005	10.010
15	< 0.009	< 0.005	< 0.003	< 0.004	< 0.035	< 0.027	< 0.006	0.749	0.015	< 0.002	< 0.007	< 0.003	< 0.010
15													
AUG													
12	< 0.009	< 0.005	< 0.003	< 0.004	< 0.035	< 0.027	< 0.006	0.261	< 0.006	< 0.002	< 0.007	< 0.003	< 0.010
12													
SEP	< 0.009	<0.005	< 0.003	<0.004	< 0.035	< 0.027	< 0.006	0.169	< 0.006	< 0.002	< 0.007	< 0.003	< 0.010
08	<0.009	< 0.005	<0.003	< 0.004	<0.033	<0.027	<0.006	0.168	<0.006	<0.002	<0.007	<0.003	<0.010

03378500 WABASH RIVER AT NEW HARMONY, IN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

		Pendi-											
	Peb-	meth-			Pron-		Pro-	Propar-		Tebu-	Terba-	Terbu-	Thio-
	ulate,	alin,	Phorate	Prome-	amide,	Propa-	panil,	gite,	Sima-	thiuron	cil,	fos,	bencarb
	water,	water,	water	ton,	water,	chlor,	water,	water,	zine,	water	water,	water,	water
	fltrd	fltrd	fltrd	water,	fltrd	water,	fltrd	fltrd	water,	fltrd	fltrd	fltrd	fltrd
	0.7u GF	0.7u GF	0.7u GF	fltrd,	0.7u GF	fltrd,	0.7u GF	0.7u GF	fltrd,	0.7u GF	0.7u GF	0.7u GF	0.7u GF
Date	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
	(82669)	(82683)	(82664)	(04037)	(82676)	(04024)	(82679)	(82685)	(04035)	(82670)	(82665)	(82675)	(82681)
NOV	10.004	-0.022	-0.011	0.02	-0.004	< 0.010	-0.011	< 0.02	0.185	-0.02	< 0.034	< 0.02	< 0.005
05 DEC	< 0.004	< 0.022	< 0.011	0.02	< 0.004	<0.010	< 0.011	<0.02	0.185	< 0.02	<0.034	<0.02	<0.005
17	< 0.004	< 0.022	< 0.011	E0.01	< 0.004	< 0.010	< 0.011	< 0.02	0.841	< 0.02	< 0.034	< 0.02	< 0.005
17													
FEB													
11	< 0.004	< 0.022	< 0.011	< 0.01	< 0.004	< 0.010	< 0.011	< 0.02	0.296	< 0.02	< 0.034	< 0.02	< 0.005
11													
25	< 0.004	< 0.022	< 0.011	< 0.01	< 0.004	< 0.010	< 0.011	< 0.02	1.34	< 0.02	< 0.034	< 0.02	< 0.005
MAR													
11													
11													
25	< 0.004	< 0.022	< 0.011	E0.01	< 0.004	< 0.010	< 0.011	< 0.02	0.304	< 0.02	< 0.034	< 0.02	< 0.005
APR	0.004		0.011	0.04	0.004	0.010	0.044	0.00		0.00	0.024	0.00	0.005
08	< 0.004	< 0.022	< 0.011	< 0.01	< 0.004	< 0.010	< 0.011	< 0.02	0.144	< 0.02	< 0.034	< 0.02	< 0.005
22	< 0.004	< 0.022	< 0.011	0.02	< 0.004	< 0.010	< 0.011	< 0.02	0.250	< 0.02	< 0.034	< 0.02	< 0.005
22													
MAY 05	< 0.004	< 0.022	< 0.011	0.02	< 0.004	< 0.010	< 0.011	< 0.02	1.00	< 0.02	< 0.034	< 0.02	< 0.005
05	< 0.004	<0.022	< 0.011	0.02	< 0.004	< 0.010	< 0.011	<0.02	0.985	<0.02	< 0.034	<0.02	< 0.005
19	< 0.004	< 0.022	< 0.011	E0.02	< 0.004	< 0.010	< 0.011	<0.02	0.837	< 0.02	< 0.034	<0.02	< 0.005
JUN	<0.004	<0.022	<0.011	E0.02	<0.004	<0.010	<0.011	<0.02	0.657	<0.02	<0.034	<0.02	<0.003
04	< 0.004	< 0.022	< 0.011	0.02	< 0.004	< 0.010	< 0.011	< 0.02	0.336	< 0.02	< 0.034	< 0.02	< 0.005
04	< 0.004	< 0.022	< 0.011	< 0.01	< 0.004	< 0.010	< 0.011	< 0.02	< 0.005	< 0.02	< 0.034	< 0.02	< 0.005
24	< 0.004	< 0.022	< 0.011	E0.03	< 0.004	< 0.010	< 0.011	< 0.02	E0.334	< 0.02	< 0.034	< 0.02	< 0.005
JUL													
15	< 0.004	< 0.022	< 0.011	0.04	< 0.004	< 0.010	< 0.011	< 0.02	0.085	< 0.02	< 0.034	< 0.02	< 0.005
15													
AUG													
12	< 0.004	< 0.022	< 0.011	0.04	< 0.004	< 0.010	< 0.011	< 0.02	0.044	< 0.02	< 0.034	< 0.02	< 0.005
12													
SEP													
08	< 0.004	< 0.022	< 0.011	0.02	< 0.004	< 0.010	< 0.011	< 0.02	0.026	< 0.02	< 0.034	< 0.02	< 0.005

	,				
Date	Tri- allate, water, fltrd 0.7u GF ug/L (82678)	Tri- flur- alin, water, fltrd 0.7u GF ug/L (82661)	Uranium natural water, fltrd, ug/L (22703)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Suspended sediment concentration mg/L (80154)
NOV					
05	< 0.002	< 0.009		97	69
DEC					
17	< 0.002	< 0.009		99	41
17					
FEB					
11	< 0.002	< 0.009		97	48
11					
25	< 0.002	< 0.009		92	370
MAR					
11				89	133
11				89	135
25	< 0.002	< 0.009		96	191
APR					-, -
08	< 0.002	< 0.009		97	109
22	< 0.002	< 0.009		97	113
22					
MAY					
05	< 0.002	< 0.009		99	431
05	<0.002	<0.00 <i>)</i>		98	439
19	< 0.002	< 0.009		84	96
JUN	<0.002	(0.00)		0-1	70
04	< 0.002	< 0.009	1.22	97	125
04	< 0.002	< 0.009	1.22	<i></i>	123
24	< 0.002	< 0.009		95	163
JUL	<0.002	<0.009		93	103
15	< 0.002	< 0.009		89	172
15					
AUG	-0.002	.0.000		00	101
12	< 0.002	< 0.009		99	101
12					
SEP	0.002	0.000		00	207
08	< 0.002	< 0.009		89	207

03378550 BIG CREEK NEAR WADESVILLE, IN

LOCATION.--Lat $38^{\circ}04'58''$, long $87^{\circ}46'10''$, in $SW^{1}/_{4}SW^{1}/_{4}$ sec. 16, T.5 S., R.12 W., Posey County, Hydrologic Unit 05120113, (WADESVILLE, IN quadrangle), on left bank at downstream side of bridge on State Highway 66, 0.6 mi northwest of Blairsville, 0.8 mi upstream from County Road 250 North, and 1.6 mi southeast of Wadesville.

DRAINAGE AREA.--104 mi².

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

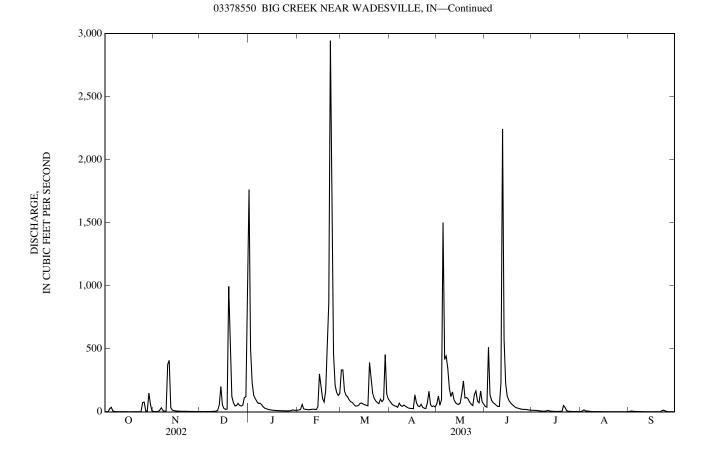
GAGE.--Water-stage recorder. Datum of gage is 370.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for estimated daily discharges and those below 1.0 ft³/s, which are poor.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1.5 1.1 0.91 25 36	4.0 2.6 2.1 2.8 14	2.4 2.2 2.1 2.0 2.3	1,760 501 230 132 105	13 14 19 58 24	331 333 166 130 119	86 67 55 47 45	63 125 51 94 1,500	42 37 512 136 91	12 12 11 11 9.0	2.1 6.7 16 8.1 5.7	2.2 6.0 5.6 4.0 3.3
6 7 8 9 10	6.7 2.9 1.8 1.4 1.5	33 8.8 4.9 3.6 374	2.6 2.7 3.2 3.9 3.9	81 68 68 58 40	20 19 16 17 20	95 79 74 59 46	35 69 49 43 53	415 443 347 186 120	73 63 52 43 43	7.4 5.9 5.3 4.9 7.7	5.5 3.5 2.3 2.0 1.9	2.6 2.2 1.8 1.6 1.6
11 12 13 14 15	1.5 1.6 1.5 1.1 0.94	408 33 14 9.3 7.7	5.7 13 54 201 56	29 e25 e20 e17 e15	21 20 18 39 301	46 50 67 70 61	44 37 30 27 26	157 95 72 62 59	233 2,240 573 223 125	10 6.7 5.4 4.3 3.6	1.8 1.8 1.7 1.6 1.5	1.4 1.3 1.1 0.97 0.89
16 17 18 19 20	0.78 0.71 0.64 1.1 1.3	6.6 5.5 4.4 4.4 4.3	27 20 22 995 484	e13 e12 e11 e10 e9.6	202 107 78 166 514	56 52 48 392 257	25 134 71 46 41	70 147 245 109 113	92 74 59 49 39	3.3 3.3 3.5 4.0 3.9	1.4 1.1 1.0 0.99 1.1	1.1 1.3 1.2 1.0 0.82
21 22 23 24 25	1.3 1.4 1.2 0.95 73	4.6 4.0 3.6 3.4 3.1	121 75 48 49 67	e9.0 e8.6 e8.2 e7.8 e7.7	868 2,940 1,970 462 211	147 107 86 73 65	60 36 28 27 75	103 77 62 49 135	32 28 25 21 20	50 35 8.4 4.6 3.7	1.1 1.0 0.99 0.99	0.77 11 13 7.2 3.1
26 27 28 29 30 31	78 7.5 3.3 148 59 8.1	3.0 2.7 2.7 2.8 2.7	51 46 53 112 121 607	e7.8 e8.2 e9.7 15 12	154 130 144 	100 80 97 453 141 102	162 57 41 47 37	165 85 72 165 78 61	19 20 17 15 12	2.9 2.5 2.4 2.5 2.2 2.0	0.99 0.99 0.99 0.99 1.2 1.9	0.96
TOTAL MEAN MAX MIN CFSM IN.	471.73 15.2 148 0.64 0.15 0.17	979.6 32.7 408 2.1 0.31 0.35	3,255.0 105 995 2.0 1.01 1.16	3,310.6 107 1,760 7.7 1.03 1.18	8,565 306 2,940 13 2.94 3.06	3,982 128 453 46 1.24 1.42	1,600 53.3 162 25 0.51 0.57	5,525 178 1,500 49 1.71 1.98	5,008 167 2,240 12 1.61 1.79	250.4 8.08 50 2.0 0.08 0.09	80.03 2.58 16 0.99 0.02 0.03	13 0.77 0.03
STATIST	TICS OF MC	NTHLY MI	EAN DATA	FOR WAT	ER YEARS	1966 - 2003,	BY WATE	R YEAR (W	/Y)			
MEAN MAX (WY) MIN (WY)	24.7 228 (2002) 0.019 (1969)	83.2 513 (1986) 0.61 (2000)	138 710 (1983) 0.30 (1966)	141 559 (1982) 0.13 (1977)	191 727 (1990) 9.15 (1992)	212 581 (1975) 14.3 (1981)	195 702 (1996) 8.73 (1981)	163 742 (1990) 2.98 (1988)	93.3 347 (1996) 0.62 (1988)	70.4 264 (1992) 0.33 (1994)	42.4 341 (1977) 0.18 (1988)	
SUMMA	RY STATIS	TICS	1	FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	YEAR	WATER	YEARS 1	966 - 2003
LOWEST HIGHES	L MEAN Γ ANNUAL Γ ANNUAL Γ DAILY M	MEAN EAN		46,051 126 4,090	6	13	33,11 9 2,94	90.7	5 22	2	15 07 38.7	2002 1987 Apr 29, 1996
ANNUAI MAXIMU MAXIMU	DAILY MI SEVEN-D JM PEAK F JM PEAK S RUNOFF	AY MINIM LOW TAGE	UM	().10 Sep).17 Sep		4,86 1	0.94 Oc 60 Feb	t 18 t 14 o 22 o 22	10,4		Jul 22, 1966 Jul 29, 1966 Apr 29, 1996 Apr 29, 1996
ANNUAI 10 PERC 50 PERC	L RUNOFF (ENT EXCEI ENT EXCEI ENT EXCEI	(INCHES) EDS EDS		16 256 25	5.47 5		16	1.84		2	14.98 210 17 0.26	

e Estimated



04092677 GRAND CALUMET RIVER AT INDUSTRIAL HWY AT GARY, IN

LOCATION.--Lat 41°36′29", long 87°23′39", in NW \(\frac{1}{4}\) NW \(\frac{1}{4}\) sec. 6, T.37 N., R.8W., Lake County, Hydrologic Unit 04040001, (HIGHLAND, IN quadrangle), on left bank, 30 feet upstream of U.S. 12 (Industrial Highway), 100 feet streamward of the centerline of Interstate 90, 2,000 feet downstream of Norfolk and Western railroad bridge, 6,000 feet southeast of Gary Airport terminal.

DRAINAGE AREA.--Indeterminate.

10 PERCENT EXCEEDS

50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

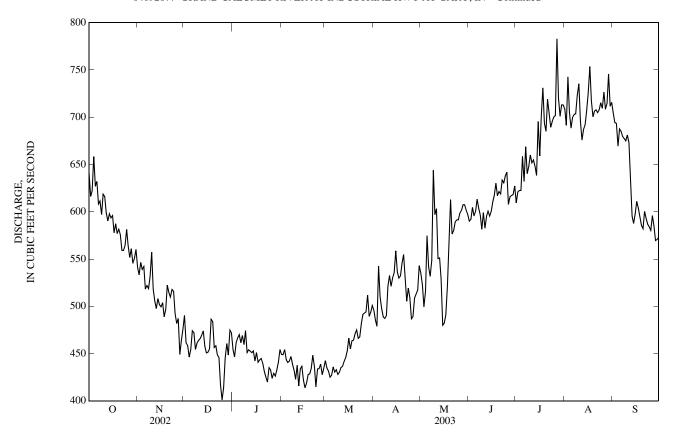
PERIOD OF RECORD.--October 1991 to September 1994, (gage heights only), October 1994 to current year.

GAGE.--Water-stage recorder and Acoustic Doppler Velocity Meter. Datum of gage is 580.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for estimated daily discharges, which are poor. Discharge is primarily from industrial and city effluent. Gage sensors were removed and gage temporarily shutdown from May 2, 2001 through December 5, 2001, due to bridge replacement.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB APR MAY JUN JUL AUG SEP MAR 551 TOTAL 18,320 15,300 14,171 13,835 12,159 14,213 15,493 17,449 18,299 20,981 22,032 18,754 MEAN MAX MIN STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2003, BY WATER YEAR (WY) **MEAN** MAX (WY) (1999)(2003)(2003)(2000)(1999)(1999)(1999)(2002)(2002)(2002)(2003)(2002)MIN 40Ó (1996)(1996)(WY) (1995)(1996)(2002)(1996)(1996)(1996)(1995)(1995)(1995)(1995)SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1995 - 2003 ANNUAL TOTAL 201,006 204,168 ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN Jul 5 Jul 27 Jul 27, 2003 LOWEST DAILY MEAN Jan 13 Dec 25 Apr 27, 1996 Apr 25, 1996 Jul 27, 2003 ANNUAL SEVEN-DAY MINIMUM Feb 12 Jan 12 MAXIMUM PEAK FLOW 1.130 Jul 27 1.130 MAXIMUM PEAK STAGE 3.36 Jul 27 4.81 Jun 13, 1994

04092677 GRAND CALUMET RIVER AT INDUSTRIAL HWY AT GARY, IN—Continued



04092750 INDIANA HARBOR CANAL AT EAST CHICAGO, IN

LOCATION.--Lat 41°38'57", long 87°28'07", in NE ½ sec. 20, T.37N., R.9W., Lake County, Hydrologic Unit 04040001, (WHITING, IN quadrangle), on left bank at the site of the former Canal Street drawbridge, 3,200 ft east of U.S. Highway 20, 3,500 ft north of U.S. Highway 12, 4,300 ft south of 129th Street, and 1,000 ft west of the crossing of the centerlines of Cline Avenue and the Indiana Harbor Canal.

DRAINAGE AREA.--Indeterminate.

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

REVISED RECORDS.--WDR IN-96-1: Instantaneous peak flow date.

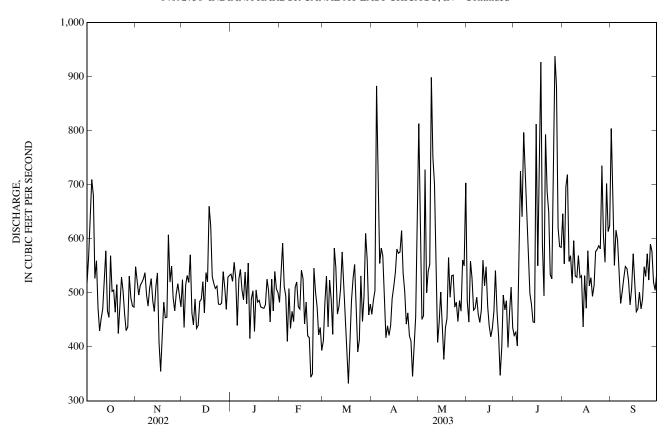
GAGE.--Water-stage recorder, Acoustic Doppler Velocity Meter. Datum of gage not established. Prior to Sept. 22, 2000, gage was located 0.8 mi downstream.

REMARKS.--Records fair. Positive discharges indicate flow towards Lake Michigan; negative discharges indicate flow away from Lake Michigan.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

2 567 523 446 521 532 481 486 596 446 427 554 673 3 634 496 514 556 592 531 504 451 559 402 697 551 4 710 513 532 528 511 437 883 457 527 543 719 616 5 681 519 519 440 494 523 758 728 468 725 558 598 6 5 527 526 570 526 440 488 543 598 423 583 540 492 797 518 488 8 473 496 441 505 434 598 423 583 540 492 797 518 488 8 473 496 441 505 434 598 423 583 540 492 797 518 488 9 429 475 489 487 466 547 500 899 445 663 531 527 10 452 509 434 538 447 461 417 751 460 568 529 541 11 470 526 440 480 510 475 570 421 543 513 479 528 413 513 513 479 528 513 577 12 515 485 484 584 555 520 507 421 543 513 479 528 511 501 439 430 511 501 439 528 527 572 16 56 84 407 538 428 428 428 428 428 428 428 428 428 42						DAII	LY MEAN V	ALUES					
2 567 523 446 521 532 481 486 596 446 427 554 673 3 634 496 514 556 592 531 504 451 559 402 697 551 4 710 513 532 528 511 437 883 457 527 543 719 616 5 681 519 519 440 494 523 758 728 468 725 558 598 6 5 527 526 570 526 440 488 543 598 423 583 540 492 797 518 488 8 473 496 441 505 434 598 423 583 540 492 797 518 488 8 473 496 441 505 434 598 423 583 540 492 797 518 488 9 429 475 489 487 466 547 500 899 445 663 531 527 10 452 509 434 538 447 461 417 751 460 568 529 541 11 470 526 440 480 510 475 570 421 543 513 479 528 413 513 513 479 528 513 577 12 515 485 484 584 555 520 507 421 543 513 479 528 511 501 439 430 511 501 439 528 527 572 16 56 84 407 538 428 428 428 428 428 428 428 428 428 42	DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
To Sep Say	2 3 4	567 634 710	523 496 513	436 514 532	521 556 528	532 592 511	481 531 437	486 504 883	596 451 457	446 559 527	427 402 543	554 697 719	804 637 551 616 598
12	7 8 9	559 473 429	537 496 475	463 441 489	543 505 487	508 434 466	423 583 547	583 569 500	540 553 899	492 460 445	797 740 663	518 596 531	538 480 502 527 549
17	12 13 14	515 578 467	485 466 512	484 488 521	555 415 489	520 474 470	507 576 489	421 439 489	543 408 443	513 548 475	479 446 445	528 531 437	545 524 478 507 572
22 479 607 508 471 350 481 502 531 347 687 576 548 23 529 520 512 478 546 391 442 533 398 650 580 24 504 549 479 525 502 413 463 474 496 534 587 572 25 460 492 478 504 474 531 420 482 469 526 581 524 26 430 467 481 446 422 447 411 447 485 636 735 590 27 437 498 539 525 436 493 345 486 399 938 604 577 28 531 517 509 467 393 610 404 466 465 882 557 520 29 490 496 469 539 561 456 561 510 621 702 503 30 476 474 529 507 459 684 550 435 586 613 534 31 473 532 500 479 703 703 784 MEAN 510 495 508 498 470 481 519 544 470 624 573 542 MMIN 425 354 434 415 344 332 345 377 347 402 437 465 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2003, BY WATER YEAR (WY) MEAN 587 591 622 621 627 644 620 638 599 582 591 571 MAX 752 916 1,094 963 843 1,111 922 1,016 724 761 759 759 (WY) (1997) (1997) (1997) (1997) (1997) (1999) (1999) (1999) (1999) (1998) (1998) (1998) (1998) SUMMARY STATISTICS FOR 202 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1994 - 2003 ANNUAL TOTAL 198,268 ANNUAL MEAN 1390 May 12 938 Jul 27 461 Oct 21, 199 ANNUAL MEAN 140 HANNUAL MEAN 150 MAY 1390 May 12 938 Jul 27 - 641 Oct 21, 199 ANNUAL SEVENDAY MINIMUM 1438 Jun 30 420 Apr 23 - 1480 Oct 15, 199 ANNUAL MEAN 1390 MAY 12 938 Jul 27 - 641 Oct 21, 199 ANNUAL SEVENDAY MINIMUM 1438 Jun 30 420 Apr 23 - 1480 Oct 15, 199 ANNUAL MEAN 1390 MAY 11 332 Mar 17 - 641 Oct 21, 199 ANNUAL SEVENDAY MINIMUM 1438 Jun 30 420 Apr 23 - 1480 Oct 15, 199 ANNUAL SEVENDAY MINIMUM 1438 Jun 30 420 Apr 23 - 1480 Oct 15, 199 ANNUAL SEVENDAY MINIMUM 1438 Jun 30 420 Apr 23 - 1480 Oct 15, 199 ANNUAL SEVENDAY MINIMUM 1438 Jun 30 420 Apr 23 - 1480 Oct 15, 199 ANNUAL SEVENDAY MINIMUM 1438 Jun 30 420 Apr 23 - 1480 Oct 15, 199 ANNUAL SEVENDAY MINIMUM 1438 Jun 30 420 Apr 23 - 1480 Oct 15, 199 ANNUAL SEVENDAY MINIMUM 1438 Jun 30 0 Cot 5 14.41 Mar 9, 199 10 PERCENTEXCEEDS 668	17 18 19	503 505 464	354 420 482	520 660 624	505 483 486	443 483 420	332 411 487	581 573 575	377 435 452	434 466 541	732 927 590	578 513 528	527 465 470 501 470
27 437 498 539 525 436 493 345 486 399 938 604 577 28 531 517 509 467 393 610 404 466 465 882 557 520 29 490 496 469 539 561 456 561 510 621 702 505 30 476 474 529 507 459 684 550 435 586 613 534 31 473 532 500 479 703 584 624 TOTAL 15,823 14,860 15,743 15,431 13,148 14,918 15,558 16,869 14,103 19,337 17,770 16,249 MEAN 510 495 508 498 470 481 519 544 470 624 573 542 MAX 710 607 660 556 592 610 883 899 560 938 735 844 MIN 425 354 434 415 344 332 345 377 347 402 437 465 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2003, BY WATER YEAR (WY) MEAN 587 591 622 621 627 644 620 638 599 582 591 571 MAX 752 916 1,094 963 843 1,111 922 1,016 724 761 759 759 (WY) (1997) (1997) (1997) (1997) (1997) (1999) (1996) (1996) MIN 418 407 429 467 470 481 498 508 439 471 467 416 (WY) (1998) (1998) (1998) (1998) (1998) (1998) (1998) (1998) (1998) SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1994 - 2003 ANNUAL TOTAL 198,268 189,809 ANNUAL MEAN 543 520 608 HIGHEST ANNUAL MEAN 1,390 May 12 938 Jul 27 2,120 Mar 21, 199 LOWEST ANNUAL MEAN 1,390 May 12 938 Jul 27 2,120 Mar 21, 199 LOWEST DAILLY MEAN 354 Nov 17 332 Mar 17 -641 Oct 21, 199 MAXIMUM PEAK FLOW 5,810 May 1 8,970 Jun 3, 200 MAXIMUM PEAK FLOW 5,810 May 1 8,970 Jun 3, 200 MAXIMUM PEAK FLOW 5,810 May 1 8,970 Jun 3, 200 MAXIMUM PEAK FLOW 668 MAXIMUM PEAK STAGE 10.30 Oct 5 14,411 Mar 9, 199 IO PERCENT EXCEEDS 658	22 23 24	479 529 504	607 520 549	508 512 479	471 478 525	350 546 502	481 391 413	502 442 463	531 533 474	347 398 496	687 650 534	576 580 587	488 548 530 572 524
MEAN 510 495 508 498 470 481 519 544 470 624 573 542 MAX 710 607 660 556 592 610 883 899 560 938 735 804 MIN 425 354 434 415 344 332 345 377 347 402 437 465 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2003, BY WATER YEAR (WY) MEAN 587 591 622 621 627 644 620 638 599 582 591 571 MAX 752 916 1,094 963 843 1,111 922 1,016 724 761 759 759 (WY) (1997) (1997) (1997) (1997) (1997) (1997) (1999) (1999) (1999) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1998	27 28 29 30	437 531 490 476	498 517 496 474	539 509 469 529	525 467 539 507	436 393 	493 610 561 459	345 404 456 684	486 466 561 550	399 465 510 435	938 882 621 586	604 557 702 613	590 577 520 505 534
MEAN 587 591 622 621 627 644 620 638 599 582 591 571 MAX 752 916 1,094 963 843 1,111 922 1,016 724 761 759 759 (WY) (1997) (1997) (1997) (1999) (1999) (1999) (1996)	MEAN MAX	510 710	495 607	508 660	498 556	470 592	481 610	519 883	544 899	470 560	624 938	573 735	16,249 542 804 465
MAX 752 916 1,094 963 843 1,111 922 1,016 724 761 759 759 (WY) (1997) (1997) (1997) (1997) (1999) (1999) (1999) (1996) (1998) (1998) (1998) (1998) (1998) <td< td=""><td>STATIST</td><td>TCS OF MC</td><td>ONTHLY M</td><td>EAN DATA</td><td>FOR WATE</td><td>R YEARS</td><td>1994 - 2003</td><td>, BY WATE</td><td>R YEAR (W</td><td>Y)</td><td></td><td></td><td></td></td<>	STATIST	TCS OF MC	ONTHLY M	EAN DATA	FOR WATE	R YEARS	1994 - 2003	, BY WATE	R YEAR (W	Y)			
ANNUAL TOTAL 198,268 189,809 ANNUAL MEAN 543 520 608 HIGHEST ANNUAL MEAN 727 199 LOWEST ANNUAL MEAN 462 199 HIGHEST DAILY MEAN 1,390 May 12 938 Jul 27 2,120 Mar 21, 199 LOWEST DAILY MEAN 354 Nov 17 332 Mar 17 -641 Oct 21, 199 ANNUAL SEVEN-DAY MINIMUM 438 Jun 30 420 Apr 23 -180 Oct 15, 199 MAXIMUM PEAK FLOW 5,100 May 1 8,970 Jun 3, 200 MAXIMUM PEAK STAGE 10,30 Oct 5 14.41 Mar 9, 199 10 PERCENT EXCEEDS 658 622 767	MAX (WY) MIN	752 (1997) 418	916 (1997) 407	1,094 (1997) 429	963 (1997) 467	843 (1997) 470	1,111 (1999) 481	922 (1999) 498	1,016 (1999) 508	724 (1996) 439	761 (1996) 471	759 (1996) 467	571 759 (1996) 416 (1997)
ANNUAL MEAN 543 520 608 HIGHEST ANNUAL MEAN 727 199 LOWEST ANNUAL MEAN 462 199 HIGHEST DAILY MEAN 1,390 May 12 938 Jul 27 2,120 Mar 21, 199 LOWEST DAILY MEAN 354 Nov 17 332 Mar 17 -641 Oct 21, 199 ANNUAL SEVEN-DAY MINIMUM 438 Jun 30 420 Apr 23 -180 Oct 15, 199 MAXIMUM PEAK FLOW 5,810 May 1 8,970 Jun 3, 200 MAXIMUM PEAK STAGE 10,30 Oct 5 14,41 Mar 9, 199 HOPERCENT EXCEEDS 658 622 767	SUMMAI	RY STATIS	STICS		FOR 2002 CA	LENDAR	YEAR	FOR 200	3 WATER Y	'EAR	WATER	YEARS 19	94 - 2003
50 PERCENT EXCEEDS 528 507 581 90 PERCENT EXCEEDS 445 429 445	ANNUAL ANNUAL HIGHEST LOWEST HIGHEST LOWEST ANNUAL MAXIMU 10 PERCI 50 PERCI	L TOTAL L MEAN T ANNUAL T ANNUAL T DAILY M S DAILY M S EVEN-D JM PEAK S ENT EXCEL ENT EXCEL	. MEAN MEAN EAN EAN AY MINIM FLOW TTAGE EDS EDS		198,268 543 1,390 354 438 658 528	May Nov	12 17	189,80 52 93 33 42 5,81 1 62 50	8 Jul 22 Mai 00 Apr 00 May 0.30 Oct	1 27 : 17 : 23 : 1	6 7 4 2,1 -6 -1 8,9	508 727 162 20 M 441 C 80 C 770 Ju 14.41 M	1999 1998 Iar 21, 1999 Oct 21, 1993 Oct 15, 1993 un 3, 2002

04092750 INDIANA HARBOR CANAL AT EAST CHICAGO, IN—Continued



04093000 DEEP RIVER AT LAKE GEORGE OUTLET AT HOBART, IN

LOCATION.--Lat $41^{\circ}32'10''$, long $87^{\circ}15'25''$, in $NW^{1}/_{4}NW^{1}/_{4}$ sec. 32, T.36 N., R.7 W., Lake County, Hydrologic Unit 04040001, (GARY, IN quadrangle), on left bank at upstream side of bridge on Ridge Road in Hobart, 300 ft upstream from Duck Creek, and 400 ft downstream from Lake George Dam, 3.3 mi north of Ainsworth, IN.

DRAINAGE AREA.--124 mi².

PERIOD OF RECORD.--April 1947 to current year.

REVISED RECORDS.--WSP 1337: 1953. WSP 1507: 1956. WDR IN-72-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 588.17 ft above National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to July 29, 1952, nonrecording gage, and July 30, 1952, to July 20, 1955, water-stage recorder at site 400 ft upstream at datum 11.80 ft higher.

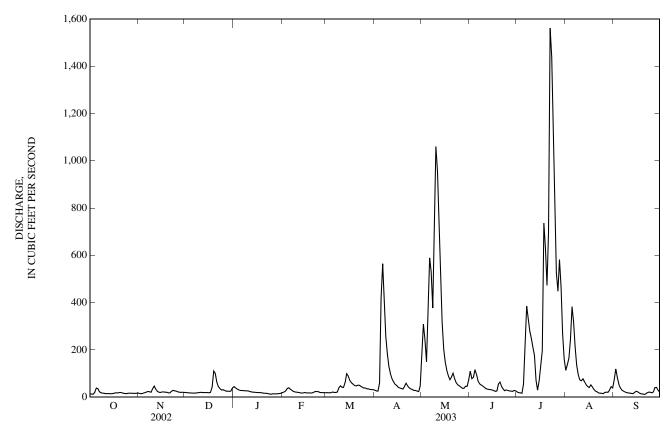
REMARKS.--Records fair. Flow subject to regulation by operation of Lake George Dam.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	17	20	45	19	19	29	193	109	22	114	75
2	13	15	19	39	22	19	26	309	78	19	137	119
3	13	15	19	34	26	18	26	245	85	18	165	82
4	20	17	18	31	36	19	60	150	117	16	244	53
5	39	19	18	29	40	22	418	319	95	55	383	38
6	36	21	17	28	34	20	565	589	68	207	319	29
7	23	24	17	28	29	20	411	531	56	385	211	25
8	18	23	18	27	24	22	257	377	52	330	135	21
9	17	20	18	27	22	39	182	628	47	280	95	19
10	17	36	20	27	21	48	130	1,060	42	249	73	18
11	15	47	20	24	20	42	98	956	36	210	69	17
12	15	34	20	22	19	41	78	705	34	178	78	16
13	15	25	19	21	18	63	64	491	33	71	65	15
14	15	21	20	21	18	99	54	318	32	30	53	20
15	15	20	19	20	19	89	49	203	31	69	45	25
16	16	22	19	19	19	71	42	149	27	134	41	23
17	18	22	20	19	18	61	39	113	25	196	52	18
18	19	21	42	19	18	56	36	89	26	736	43	14
19	18	21	111	18	18	50	35	74	55	633	32	14
20	20	18	101	17	18	47	46	85	64	473	26	12
21	19	18	63	17	21	50	59	102	45	699	22	13
22	17	24	45	16	24	51	47	78	35	1,560	18	18
23	16	29	36	14	24	46	39	62	27	1,440	17	21
24	15	27	30	13	23	42	35	53	30	1,040	17	21
25	16	26	31	13	20	38	32	48	29	702	15	18
26 27 28 29 30 31	17 17 16 16 16 16	23 21 20 21 20	28 25 25 25 26 39	14 14 14 15 15	19 19 19 	39 35 35 32 33 31	29 28 25 24 47	43 38 37 46 46 75	26 26 25 28 27	527 448 583 465 270 160	20 21 21 30 44 39	22 40 41 29 22
TOTAL	558	687	948	676	627	1,297	3,010	8,212	1,410	12,205	2,644	898
MEAN	18.0	22.9	30.6	21.8	22.4	41.8	100	265	47.0	394	85.3	29.9
MAX	39	47	111	45	40	99	565	1,060	117	1,560	383	119
MIN	13	15	17	13	18	18	24	37	25	16	15	12
CFSM	0.15	0.18	0.25	0.18	0.18	0.34	0.81	2.14	0.38	3.18	0.69	0.24
IN.	0.17	0.21	0.28	0.20	0.19	0.39	0.90	2.46	0.42	3.66	0.79	0.27
STATIST	ICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1948 - 2003	BY WATE	R YEAR (W	YY)			
MEAN	57.7	90.0	108	116	151	212	210	154	116	68.7	48.8	46.7
MAX	433	499	393	475	456	688	477	454	557	394	427	312
(WY)	(1955)	(1986)	(1983)	(1993)	(1997)	(1979)	(1950)	(1970)	(1993)	(2003)	(1990)	(1993)
MIN	6.42	10.7	12.5	10.8	14.7	38.3	23.1	21.8	16.4	10.7	8.81	6.91
(WY)	(1957)	(1957)	(1963)	(1977)	(1964)	(1957)	(1963)	(1958)	(1988)	(1988)	(1964)	(1948)

04093000 DEEP RIVER AT LAKE GEORGE OUTLET AT HOBART, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	NDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEARS	S 1948 - 2003
ANNUAL TOTAL	39,302.4		33,172			
ANNUAL MEAN	108		90.9		115	
HIGHEST ANNUAL MEAN					234	1993
LOWEST ANNUAL MEAN					35.3	1963
HIGHEST DAILY MEAN	2,150	May 13	1,560	Jul 22	3,900	Nov 28, 1990
LOWEST DAILY MEAN	9.0	Sep 9	12	Sep 20	0.00	Nov 5, 1978
ANNUAL SEVEN-DAY MINIMUM	10	Sep 6	14	Jan 23	0.04	Aug 29, 1996
MAXIMUM PEAK FLOW		•	1,700	Jul 22	4,230	Nov 28, 1990
MAXIMUM PEAK STAGE			12.20	Jul 22	19.48	Oct 11, 1954
ANNUAL RUNOFF (CFSM)	0.87		0.73		0.92	
ANNUAL RUNOFF (INCHES)	11.79		9.95		12.57	
10 PERCENT EXCEEDS	279		224		272	
50 PERCENT EXCEEDS	33		28		48	
90 PERCENT EXCEEDS	14		17		14	



04094000 LITTLE CALUMET RIVER AT PORTER, IN

LOCATION.--Lat $41^{\circ}37^{\circ}18^{\circ}$, long $87^{\circ}05^{\circ}13^{\circ}$, in NE $^{1}_{4}$ NE $^{1}_{4}$ sec.34, T.37 N., R.6 W., Porter County, Hydrologic Unit 04040001, (CHESTERTON, IN quadrangle), on right bank at downstream end of county road bridge, 200 ft upstream from bridge on U.S. Highway 20, 0.8 mi northwest of Porter, and 4.5 mi upstream from Salt Creek.

DRAINAGE AREA.--66.2 mi².

PERIOD OF RECORD.--May 1945 to current year.

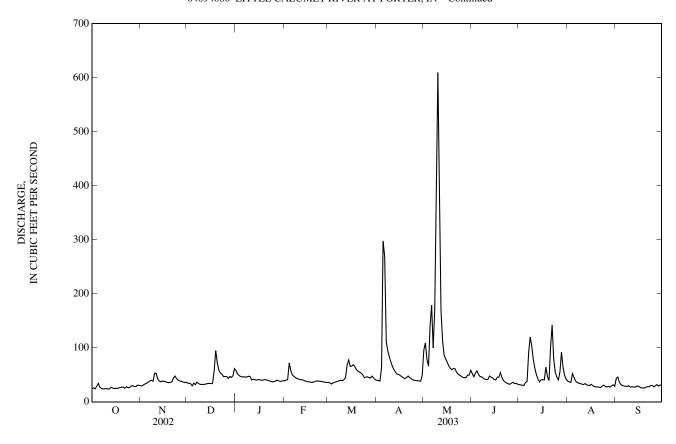
REVISED RECORDS.--WSP 1084: 1945. WSP 1337: 1946-47. WDR IN-72-1: Drainage area. WDR IN-83-1: 1982.

GAGE.--Water-stage recorder. Datum of gage is 603.48 ft above National Geodetic Vertical Datum of 1929. Prior to June 26, 1952, nonrecording gage at same site and datum

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

					YEAR OCT		ET PER SEC TO SEPTE ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	30	35	58	e39	e36	40	96	52	32	38	43
2	26	30	34	52	e40	e35	40	109	46	31	37	46
3	24	32	33	49	e41	e33	38	79	53	31	36	36
4	29	33	30	47	72	e35	63	66	57	30	52	32
5	34	35	35	46	e58	e36	298	139	51	36	45	30
6	27	37	32	46	e50	e37	269	179	47	38	39	29
7	25	39	36	46	e47	e38	111	99	46	92	36	29
8	24	40	34	46	e45	e39	95	172	44	120	34	28
9	24	38	32	47	e43	e40	83	308	42	103	34	30
10	24	53	32	47	e42	e39	74	609	41	78	33	27
11	24	53	32	40	e41	e41	65	281	41	61	32	28
12	24	42	32	e42	e41	e45	59	170	48	50	34	27
13	27	38	33	e41	e40	68	55	112	46	42	32	27
14	26	37	34	e40	e39	77	51	87	44	37	31	29
15	25	39	34	e41	e38	66	51	79	41	41	30	29
16	25	38	34	e41	e37	66	49	73	40	41	32	28
17	25	37	34	e40	e37	69	46	66	46	41	30	26
18	26	36	57	e40	e36	65	45	62	45	64	28	26
19	26	35	95	e41	e36	59	43	59	54	47	28	25
20	27	36	73	e41	e37	57	45	62	45	39	28	27
21	27	37	59	e40	e38	55	48	61	39	100	27	28
22	25	44	54	e39	e39	53	45	55	36	142	27	28
23	28	48	51	e38	e38	50	42	51	35	79	29	30
24	26	43	47	e37	e38	45	41	49	33	55	31	30
25	26	40	47	e37	e37	46	40	47	32	46	28	28
26 27 28 29 30 31	29 30 28 28 31 31	39 38 37 36 36	47 43 47 45 48 62	e38 e40 e39 e38 e38	e37 e36 e36 	46 45 44 48 44 41	39 39 39 38 49	45 44 45 50 49 58	34 36 34 34 33	41 56 92 63 49 42	27 29 27 29 31 29	30 32 29 31 30
TOTAL	825	1,156	1,341	1,314	1,158	1,498	2,040	3,461	1,275	1,819	1,003	898
MEAN	26.6	38.5	43.3	42.4	41.4	48.3	68.0	112	42.5	58.7	32.4	29.9
MAX	34	53	95	58	72	77	298	609	57	142	52	46
MIN	24	30	30	37	36	33	38	44	32	30	27	25
CFSM	0.40	0.58	0.65	0.64	0.62	0.73	1.03	1.69	0.64	0.89	0.49	0.45
IN.	0.46	0.65	0.75	0.74	0.65	0.84	1.15	1.94	0.72	1.02	0.56	0.50
		ONTHLY M										
MEAN	59.0	74.9	78.6	79.3	95.4	120	116	88.9	73.7	48.0	42.4	42.9
MAX	414	285	186	202	208	319	292	277	272	190	277	143
(WY)	(1955)	(1991)	(1966)	(1993)	(1997)	(1982)	(1947)	(1996)	(1993)	(1981)	(1990)	(1972)
MIN	22.3	27.4	24.5	27.0	30.9	48.3	44.6	33.5	25.6	22.2	23.1	21.4
(WY)	(1964)	(1954)	(1964)	(1977)	(1964)	(2003)	(1963)	(1958)	(1965)	(1988)	(1964)	(1953)
SUMMA	RY STATIS	STICS]	FOR 2002 C.	ALENDAR	YEAR	FOR 200	3 WATER Y	YEAR	WATER	YEARS 194	6 - 2003
ANNUAL HIGHEST LOWEST HIGHEST LOWEST	Γ ANNUAI Γ ANNUAL Γ DAILY M Γ DAILY M	MEAN MEAN	UM	23,858 65 908 21 22	May Sep	24	60	18.7 19 May 14 Oc	7 10 t	1	17 Au	1991 1964 v 28, 1990 g 24, 1965 g 20, 1965
MAXIMU MAXIMU ANNUAI ANNUAI 10 PERCI 50 PERCI	XIMUM PEAK FLOW XIMUM PEAK STAGE NUAL RUNOFF (CFSM) NUAL RUNOFF (INCHES) 13.41 ERCENT EXCEEDS 110 ERCENT EXCEEDS 43 ERCENT EXCEEDS 25				79		10	1	880 No	v 28, 1990 et 10, 1954		

04094000 LITTLE CALUMET RIVER AT PORTER, IN—Continued



04095090 BURNS DITCH AT PORTAGE, IN

LOCATION.--Lat 41°37'20", long 87°10'35", in NE ¼NW ¼ sec. 36, T.37 N., R.7 W., Porter County, Hydrologic Unit 04040001, (PORTAGE, IN quadrangle), on right bank at an industrial road bridge, 1,300 feet north of U.S. Highway 12, 0.7 mi south of the mouth, 1.2 mi west of the State Road 249 overpass over U.S. Highway 12, 2.4 mi east of County Line Road, 3.2 mi north of the intersection of Central Avenue and Willow Creek Road in Portage.

DRAINAGE AREA.--331 mi².

PERIOD OF RECORD.--February 2, 1995 to current year.

REVISED RECORDS .-- WDR IN-01-1: 1998-2000 (M).

GAGE.--Water-stage recorder and Acoustic Doppler Velocity Meter. Datum of gage is 575 ft above National Geodetic Vertical Datum of 1929 from topographic map.

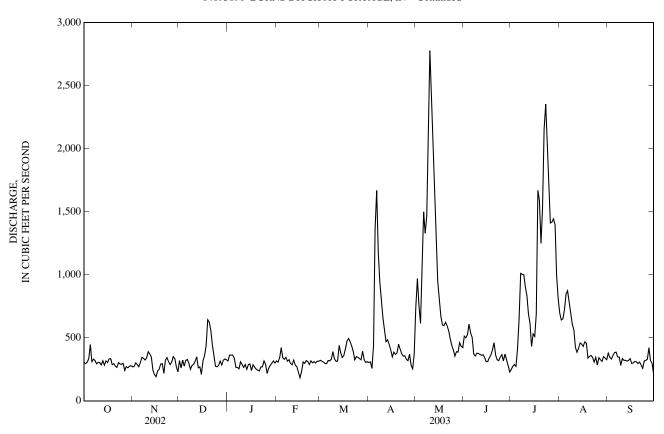
REMARKS.--Records poor. Peak stage and peak flow for the period of record probably occured on May 10, 1996 during period of missing record.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

LOWEST ANNUAL MEAN 288 1999 HIGHEST DAILY MEAN 5,260 May 13 2,780 May 10 8,000 May 10, 1990 LOWEST DAILY MEAN 191 Nov 16 183 Feb 16 83 Oct 16, 1993 ANNUAL SEVEN-DAY MINIMUM 242 Nov 15 242 Nov 15 95 Oct 13, 1993	DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
To To To To To To To To	2	e294	272	261	362	e307	e315	309	969	500	273	641	e347
	3	e306	301	323	363	341	e308	256	761	525	287	650	e332
	4	333	288	276	364	421	e297	443	615	609	273	720	e360
12	7	331	343	e298	e265	e345	e318	1,180	1,330	372	1,010	788	348
	8	320	337	249	e254	e314	e329	945	1,470	356	1,000	706	347
	9	294	324	e280	310	e327	e390	786	1,920	378	1,000	609	282
17 332 236 357 c287 c232 c412 386 672 341 689 468 c302 18 335 250 437 c266 c308 472 369 602 363 1,670 458 c313 19 287 292 643 c252 c297 495 380 596 403 1,590 338 c309 20 295 294 625 c243 c319 470 449 623 462 1,250 3552 c296 21 276 218 c558 237 c311 c437 412 596 363 1,530 360 308 22 265 323 c443 268 c287 c392 373 557 325 2,160 345 285 23 302 343 c358 270 311 c437 c326 355 493 319 2,350 307 259 24 292 311 274 c318 301 c350 358 439 347 2,120 344 c317 25 290 287 270 c290 c311 c345 329 405 367 1,790 285 320 26 296 308 c280 217 c300 c335 318 354 317 1,410 342 c332 27 241 350 c315 c257 c315 c326 370 390 371 1,420 c326 421 28 271 334 c285 c281 c313 393 284 386 325 c1,440 c313 319 299 262 269 322 c299 c332 c316 c36 363 348 354 317 c326 421 28 271 334 c285 c281 c313 393 284 386 325 c1,440 c332 297 30 275 229 332 c316 c336 c358 433 228 997 c339 209 31 279 c325 c299 c336 c363 c364 c364	12	286	371	348	e288	e323	e315	468	2,000	362	690	385	321
	13	318	348	262	e250	e283	439	484	1,480	365	611	415	315
	14	283	242	e268	e287	e272	e382	e448	1,180	344	432	459	320
22 265 323 e443 268 e287 e392 373 557 325 2,160 345 285 23 302 343 e358 270 317 e326 355 493 319 2,350 307 259 24 292 311 274 e318 301 e350 358 439 347 2,120 344 e317 25 290 287 270 e290 e311 e345 329 405 367 1,790 285 320 26 296 308 e280 217 e300 e335 318 354 317 1,410 342 e332 27 241 350 e315 e257 e315 e326 370 390 371 1,410 342 e332 28 271 334 e285 c281 e313 393 284 386 325 e1,440 6313	17	332	236	357	e287	e232	e412	386	672	341	689	468	e302
	18	335	250	437	e266	e308	472	369	602	363	1,670	458	e313
	19	287	292	643	e252	e297	495	380	596	403	1,590	338	e309
27 241 350 e315 e257 e315 e326 370 390 371 1,420 e326 421 28 271 3334 e285 e281 e313 393 284 386 325 e1,440 e313 319 29 262 269 322 e297 325 255 461 280 1,400 e350 297 30 275 229 332 e316 e304 368 433 228 997 e339 209 31 279 325 e299 e311 422 809 e326 TOTAL 9,354 8,845 10,487 8,848 8,523 11,071 15,634 29,540 11,548 32,286 14,908 9,936 MEAN 302 295 338 285 304 357 521 953 385 1,041 481 323 MAX 446 389 643 364 421 495 1,670 2,780 609 2,350 873 421 MIN 241 191 211 217 183 294 255 354 228 248 285 209 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2003, BY WATER YEAR (WY) MEAN 356 362 400 415 579 547 610 736 628 464 362 272 MAX 976 540 569 587 1,305 981 1,094 1,539 1,187 1,041 505 398 (WY) (2002) (2002) (2002) (1998) (2002) (1998) (2002) (1998) (2002) (2002) (2002) (2002) (2002) (2002) (2002) (2002) (2002) (1998) (2002) (1998) (1996) (1996) (1996) (1997) (1999) (1999) (1997) (1999) (1997) (1999) (1997) (1999) (1997) SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1995 - 2003 ANNUAL MEAN 605 468 468 477 HIGHEST DAILLY MEAN 5,260 May 13 2,780 May 10 8,000 May 10, 1997 LOWEST DAILLY MEAN 5,260 May 13 2,780 May 10 8,000 May 10, 1997 LOWEST DAILLY MEAN 5,260 May 13 2,780 May 10 8,000 May 10, 1998 LOWEST DAILLY MEAN 5,260 May 13 5,780 May 10 8,000 May 10, 1998 LOWEST DAILLY MEAN 5,260 May 13 5,780 May 10 8,000 May 10, 1998 LOWEST DAILLY MEAN 5,260 May 13 5,780 May 10 8,000 May 10, 1998 LOWEST DAILLY MEAN 5,260 May 13 5,780 May 10 8,000 May 10, 1998 LOWEST DAILLY MEAN 5,260 May 13 5,780 May 10 8,000 May 10, 1998 LOWEST DAILLY MEAN 5,260	22	265	323	e443	268	e287	e392	373	557	325	2,160	345	285
	23	302	343	e358	270	317	e326	355	493	319	2,350	307	259
	24	292	311	274	e318	301	e350	358	439	347	2,120	344	e317
MEAN 302 295 338 285 304 357 521 953 385 1,041 481 323 MAX 446 389 643 364 421 495 1,670 2,780 609 2,350 873 421 MIN 241 191 211 217 183 294 255 354 228 248 285 209 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2003, BY WATER YEAR (WY) MEAN 356 362 400 415 579 547 610 736 628 464 362 272 MAX 976 540 569 587 1,305 981 1,094 1,539 1,187 1,041 505 398 (WY) (2002) (2002) (2002) (2002) (2000) (2003) (1995) (1995) MIN 107 144 179 231 255 321 358 28	27 28 29 30	241 271 262 275	350 334 269 229	e315 e285 322 332	e257 e281 e297 e316	e315 e313 	e326 393 325 e304	370 284 255 368	390 386 461 433	371 325 280 228	1,420 e1,440 1,400 997	e326 e313 e350 e339	421 319 297 209
MEAN 356 362 400 415 579 547 610 736 628 464 362 272 MAX 976 540 569 587 1,305 981 1,094 1,539 1,187 1,041 505 398 (WY) (2002) (2002) (2002) (2002) (2000) (2003) (1995) (1995) MIN 107 144 179 231 255 321 358 288 237 214 205 147 (WY) (1996) (1999) (1996) (1996) (1997) (1999) (1999) (1999) (1997) (1999) (1997) (1999) (1997) (1999) (1997) (1999) (1997) (1999) (1997) (1999) (1997) (1999) (1997) (1999) (1997) (1999) (1997) (1999) (1997) (1999) (1997) (1999) (1997) (1999) (1997) (1999) (1997)	MEAN	302	295	338	285	304	357	521	953	385	1,041	481	323
	MAX	446	389	643	364	421	495	1,670	2,780	609	2,350	873	421
MAX 976 540 569 587 1,305 981 1,094 1,539 1,187 1,041 505 398 (WY) (2002) (2002) (2002) (2002) (2000) (2003) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1997) (1997) (1999) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997)									•				
ANNUAL TOTAL 220,750 170,739 ANNUAL MEAN 605 468 477 HIGHEST ANNUAL MEAN 702 2000 LOWEST ANNUAL MEAN 288 1999 HIGHEST DAILY MEAN 191 Nov 16 183 Feb 16 83 Oct 16, 1992 ANNUAL SEVEN-DAY MINIMUM 242 Nov 15 242 Nov 15 95 Oct 13, 1993	MAX	976	540	569	587	1,305	981	1,094	1,539	1,187	1,041	505	398
	(WY)	(2002)	(2002)	(2002)	(1998)	(2001)	(2002)	(2002)	(2002)	(2000)	(2003)	(1995)	(1995)
	MIN	107	144	179	231	255	321	358	288	237	214	205	147
ANNUAL MEAN 605 468 477 HIGHEST ANNUAL MEAN 702 2000 LOWEST ANNUAL MEAN 288 1999 HIGHEST DAILY MEAN 5,260 May 13 2,780 May 10 8,000 May 10, 1990 LOWEST DAILY MEAN 191 Nov 16 183 Feb 16 83 Oct 16, 1990 ANNUAL SEVEN-DAY MINIMUM 242 Nov 15 242 Nov 15 95 Oct 13, 1990	SUMMA	RY STATIS	STICS		FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	/EAR	WATER	YEARS 199	95 - 2003
	ANNUAI HIGHES' LOWEST HIGHES' LOWEST ANNUAI MAXIMU MAXIMU 10 PERC	L MEAN T ANNUAI T ANNUAL T DAILY M T DAILY M L SEVEN-I UM PEAK UM PEAK ENT EXCE	MEAN MEAN MEAN DAY MINIM FLOW STAGE EEDS	1UM	5,260 191 242	Nov	16	2,78 18 24 unknow unknow 82	0 May 3 Feb 2 Nov n n 3	16	7 2 8,0	102 188 1000 Ma 183 O 195 O	ct 16, 1995

e Estimated

04095090 BURNS DITCH AT PORTAGE, IN—Continued



04095380 TRAIL CREEK AT MICHIGAN CITY HARBOR, IN

LOCATION.—Lat 41°43'22", long 86°54'15", sec. 29, T.38 N., R.4 W., LaPorte County, Hydrologic Unit 04040001, (MICHIGAN CITY WEST, IN quadrangle), on right bank in the northeast drawbridge tower, 2000 ft north of Michigan Street, 2,600 ft southeast of lake end of west breakwater, 0.5 mi southwest of Washington Park, 3000 ft downstream of U.S. Hwy 12 bridge in Michigan City.

DRAINAGE AREA.--59.1 mi².

PERIOD OF RECORD.--October 1994 to current year.

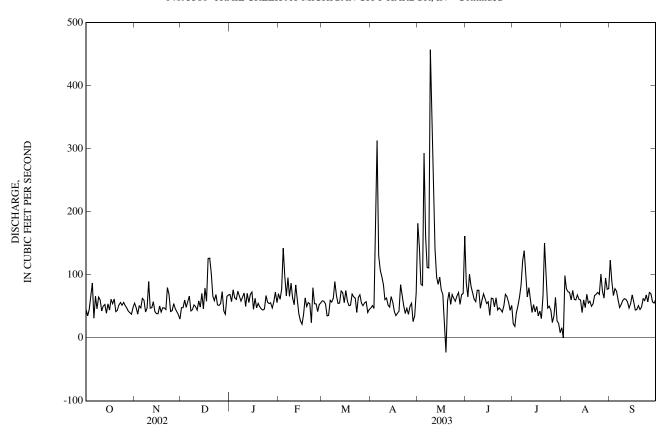
GAGE.--Water-stage recorder and Acoustic Velocity Meter. Datum of gage is 575 ft above National Geodetic Vertical Datum of 1929 from topographic map.

REMARKS.--Records poor. Positive discharges indicate flow towards Lake Michigan; negative discharges indicate flow away from Lake Michigan.

					EAR OCT		ET PER SEC TO SEPTE ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	55	48	e69	70	59	47	181	87	22	16	e123
2	35	48	48	e57	61	58	51	144	65	18	-0.07	e90
3	44	37	60	76	77	54	47	85	101	40	99	e67
4	67	51	48	63	142	35	159	83	82	51	78	e78
5	87	48	58	61	98	36	313	e293	71	64	e73	e74
6	31	62	66	74	67	59	131	160	61	84	e72	e60
7	66	60	43	66	95	57	107	112	57	123	e60	e48
8	46	41	45	58	66	63	97	111	75	138	e75	e53
9	65	47	52	64	87	89	85	457	75	97	e61	e59
10	60	89	50	71	63	67	61	297	47	65	e60	e62
11	43	47	44	50	53	55	63	214	60	79	e68	e61
12	50	48	59	70	84	55	52	142	70	59	e61	e57
13	53	57	49	56	60	74	49	97	62	40	e60	e47
14	39	42	70	69	38	72	65	85	54	53	e40	e54
15	54	38	46	73	27	56	57	96	57	41	e60	e68
16	44	38	79	e45	22	75	42	76	36	50	e48	e57
17	61	50	58	e63	37	58	35	69	63	35	e69	e44
18	54	41	126	e47	63	51	39	15	62	42	e55	e45
19	62	48	126	e55	50	52	42	-23	49	31	e58	e51
20	41	47	103	e49	56	69	84	59	63	66	e50	e45
21	43	45	e66	46	54	65	69	72	44	150	e54	e49
22	52	80	e59	e44	24	63	51	53	48	100	e67	e62
23	56	69	e69	e46	79	40	39	69	45	47	e69	e59
24	52	42	e52	67	54	64	47	63	41	50	e72	e68
25	56	43	e51	57	54	68	37	58	51	44	e69	e57
26 27 28 29 30 31	51 47 42 40 37 48	54 e46 41 e37 e30	e54 e73 e43 e38 e66 e68	54 56 48 57 73 56	42 53 55 	55 51 55 57 40 45	50 55 26 34 72	66 72 53 69 70 161	69 65 56 43 51	24 35 64 27 23 8.0	e101 e74 e63 e95 e77 e78	e72 e70 e57 e55 e60
TOTAL	1,571	48 e68 56			1,731	1,797	2,106	3,559	1,810	1,770.0	1,981.93	1,852
MEAN	50.7	1,571 1,481 1,917 1,840			61.8	58.0	70.2	115	60.3	57.1	63.9	61.7
MAX	87	50.7 49.4 61.8 59.4			142	89	313	457	101	150	101	123
MIN	31	87 89 126 76			22	35	26	-23	36	8.0	-0.07	44
				FOR WATE				`	<i></i>			
MEAN	105	113	123	124	135	134	148	146	118	105	93.8	88.2
MAX	127	173	185	176	208	191	201	216	192	150	126	113
(WY)	(1998)	(1995)	(1997)	(1995)	(2001)	(2002)	(2002)	(2002)	(2000)	(1998)	(1995)	(2000)
MIN	50.7	49.4	61.8	59.4	61.8	58.0	70.2	111	60.3	57.1	63.9	61.7
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2001)	(2003)	(2003)	(2003)	(2003)
SUMMA	SUMMARY STATISTICS FO				LENDAR	YEAR	FOR 200	3 WATER Y	/EAR	WATER	YEARS 199	4 - 2003
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU 10 PERCI 50 PERCI	L MEAN I ANNUAL I ANNUAL I DAILY M I DAILY M	MEAN IEAN EAN OAY MINIM FLOW STAGE EDS EDS	UM	39,523, 108 822 -29 20 204 80 44	7 May Jul Jul	6	45 -2 2 unknow unknow 8 5	74.2 77 May 13 May 15 Ju		1	118 45 64.2	1995 2003 unknown unknown unknown unknown unknown

e Estimated

04095380 TRAIL CREEK AT MICHIGAN CITY HARBOR, IN—Continued



04096100 GALENA RIVER NEAR LAPORTE, IN

LOCATION.--Lat 41°44'54", long 86°40'30", in $SE^{1}_{4}NW^{1}_{4}$ sec.17, T.38 N., R.2 W., LaPorte County, Hydrologic Unit 04040001, (SPRINGVILLE, IN quadrangle), on left bank at downstream side of bridge on County Road 125 East, 1.3 mi south of Indiana- Michigan State line, 7.5 mi west of LaPorte-St. Joseph County 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 October 2003 (discontinued).

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 National Geodetic Vertical Datum of 1929.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum instantaneous gage height may have occurred Nov. 28, 1990 during period of no gage height record.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

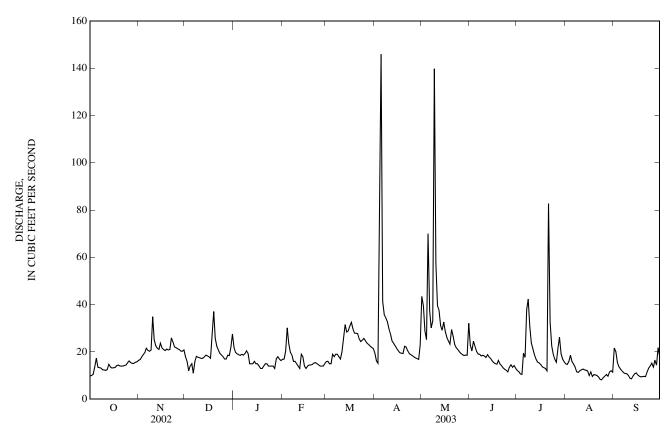
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	9.7 10 10 14 17	16 17 18 19 20	e18 e16 e12 e14 e15	22 20 19 19	17 17 20 30 23	16 16 e15 e15 e19	20 16 15 46 146	43 39 29 25 70	23 20 25 22 20	12 12 11 10 19	15 15 16 19 16	22 20 16 14 13
6 7 8 9 10	13 13 13 12 12	22 21 20 21 35	e11 e16 18 18	19 19 19 20 19	20 19 e16 e16 e15	e18 e19 e19 e18 e17	41 36 34 33 30	38 30 33 140 57	19 19 18 19 18	18 38 42 31 24	15 14 12 11 12	12 11 11 11 10
11 12 13 14 15	12 12 15 14 13	25 23 22 21 24	17 17 18 19 18	e15 e15 e15 e16 e15	e14 e13 e19 e18 e14	e20 26 32 28 29	28 25 24 23 21	40 38 31 29 33	18 19 18 17 16	21 19 17 16 15	12 13 12 12 12	8.8 8.6 9.8 11
16 17 18 19 20	13 13 14 14 14	22 21 21 21 21	18 17 28 37 26	e15 e14 e13 e13 e14	e13 e14 14 14 15	31 32 30 28 28	20 20 19 19 22	29 26 25 23 29	15 15 15 16 15	15 14 13 13 12	10 12 9.6 10	10 9.7 9.4 9.5 9.7
21 22 23 24 25	14 14 14 14 15	21 26 24 22 22	22 21 19 19 e18	e15 e15 e14 e14 e14	15 15 15 15 e14	28 25 24 25 26	22 20 19 19 18	27 23 22 21 20	14 13 13 12 12	83 33 23 19 17	9.9 9.4 8.3 8.2 9.1	9.5 11 13 14 15
26 27 28 29 30 31	16 15 15 15 16 16	21 21 20 20 21	e17 e17 19 18 22 28	e14 e13 e17 e18 e17 16	e14 e14 e15 	25 24 23 22 22 21	18 17 17 17 23	19 19 18 19 19	14 15 13 14 13	16 22 26 19 17 16	9.8 10 9.7 12 12 11	14 17 14 22 18
TOTAL MEAN MAX MIN CFSM IN.	421.7 13.6 17 9.7 0.79 0.91	648 21.6 35 16 1.26 1.40	591 19.1 37 11 1.11 1.28	507 16.4 22 13 0.95 1.10	458 16.4 30 13 0.95 0.99	721 23.3 32 15 1.35 1.56	828 27.6 146 15 1.60 1.79	1,046 33.7 140 18 1.96 2.26	500 16.7 25 12 0.97 1.08	663 21.4 83 10 1.24 1.43	367.0 11.8 19 8.2 0.69 0.79	385.0 12.8 22 8.6 0.75 0.83
STATIST	ICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1970 - 2003	, BY WATE	ER YEAR (W	Y)			
MEAN MAX (WY) MIN (WY)	22.9 47.5 (2002) 13.6 (2003)	29.6 64.4 (1991) 15.7 (2000)	29.5 51.8 (1973) 15.6 (1990)	26.9 54.5 (1998) 15.0 (1976)	31.3 65.3 (1997) 16.4 (2003)	36.5 70.1 (1982) 19.4 (1981)	33.8 56.0 (1970) 18.2 (1971)	27.7 65.5 (1996) 15.5 (1992)	23.8 69.7 (1993) 12.3 (1971)	17.6 39.0 (1996) 10.3 (1988)	15.5 28.5 (1996) 9.71 (1970)	16.4 32.6 (1993) 8.98 (2002)

04096100 GALENA RIVER NEAR LAPORTE, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1970 - 2003
ANNUAL TOTAL	8,358.9	7,135.7	
ANNUAL MEAN	22.9	19.5	25.9
HIGHEST ANNUAL MEAN			35.4 1993
LOWEST ANNUAL MEAN			19.1 2000
HIGHEST DAILY MEAN	387 May 12	146 Apr 5	650 Nov 28, 1990
LOWEST DAILY MEAN	7.2 Sep 8	8.2 Aug 24	6.7 Sep 13, 1973
ANNUAL SEVEN-DAY MINIMUM	7.8 Sep 7	9.2 Aug 22	7.6 Aug 27, 1970
MAXIMUM PEAK FLOW	•	222 Apr 5	900 Nov 28, 1990
MAXIMUM PEAK STAGE		4.70 Apr 5	7.04 Jun 8, 1993
ANNUAL RUNOFF (CFSM)	1.33	1.14	1.51
ANNUAL RUNOFF (INCHES)	18.08	15.43	20.47
10 PERCENT EXCEEDS	32	29	41
50 PERCENT EXCEEDS	20	17	21
90 PERCENT EXCEEDS	10	12	12

e Estimated



04099510 PIGEON CREEK NEAR ANGOLA, IN

LOCATION.--Lat $41^{\circ}38'04''$, long $85^{\circ}06'35''$, in NW $^{1}_{4}$ SE $^{1}_{4}$ sec.26, T.37 N., R.12 E., Steuben County, Hydrologic Unit 04050001, (ANGOLA WEST, IN quadrangle), on left bank 5 ft upstream from bridge on U.S. Highway 20, 1.3 mi downstream from outlet of Hogback Lake, 1.3 mi southeast of Flint, and 5.8 mi west of Angola.

DRAINAGE AREA.--106 mi², of which 22.5 mi² does not contribute directly to surface runoff.

PERIOD OF RECORD.--October 1945 to current year. Prior to October 1947, published as "near Flint". Published as Pigeon Creek at Hogback Lake Outlet near Angola, October 1947 to September 1971, and Pigeon Creek and Hogback Lake near Angola, October 1971 to September 1974.

REVISED RECORDS.--WSP 1144: 1948. WSP 2111: Drainage area. WDR IN 92-1: 1991.

GAGE.--Water-stage recorder. Datum of gage is 940.00 ft above National Geodetic Vertical Datum of 1929. Prior to October 1947, nonrecording gage at site 0.3 mi downstream at different datum. Oct. 1947 to Aug. 3, 1953, nonrecording gage at site 1.2 mi upstream at same datum. Aug. 4, 1953, to Apr. 3, 1974, recording gage at site 1.3 mi upstream at same datum. Apr. 18, 1974, to Sept. 2, 1974, nonrecording gage at same site and datum.

REMARKS .-- Records fair.

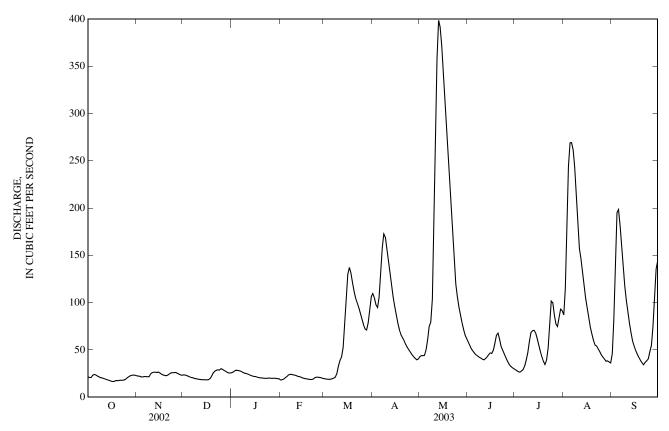
DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	21 21 21 23 24	23 22 22 21 22	24 23 23 22 21	26 27 28 28 28	18 18 19 20 22	20 19 19 19 19	110 105 98 95 106	43 44 44 44 50	58 55 51 49 46	29 28 27 26 28	87 115 184 244 269	46 81 150 195 198
6 7 8 9 10	23 22 21 21 20	22 22 22 22 22 25	21 21 20 20 19	28 27 26 25 25	23 24 24 24 24 23	19 20 21 25 33	129 158 173 169 157	61 75 79 104 169	45 43 42 41 40	29 33 39 47 58	269 262 243 214 182	181 158 136 118 102
11 12 13 14 15	20 19 19 18 17	26 26 26 26 27	19 19 18 18	24 24 23 22 22	23 22 22 21 20	39 42 53 77 106	144 130 117 106 96	254 358 399 392 372	39 41 43 45 47	68 70 71 68 62	157 146 132 117 105	90 78 68 59 54
16 17 18 19 20	17 17 17 18 17	25 24 23 23 23	18 18 20 22 26	22 21 21 20 20	20 19 19 19	130 137 131 121 112	87 78 71 66 63	336 299 263 230 200	46 49 57 65 68	55 49 43 38 34	94 83 74 66 60	49 45 42 39 36
21 22 23 24 25	18 18 18 18 19	23 25 26 26 26	27 28 29 29 30	20 20 20 20 20 20	19 19 21 21 21	105 100 95 89 83	60 56 53 50 47	176 156 137 120 107	61 53 50 46 42	39 52 80 102 100	55 54 51 48 45	34 37 38 40 48
26 27 28 29 30 31	20 22 23 23 23 23 23	26 25 24 24 23	29 28 27 26 26 26	20 20 20 20 20 20 20	21 20 20 	77 72 71 79 93 106	45 43 41 40 40	95 87 79 71 66 62	38 35 33 31 30	87 77 75 84 93 92	42 40 38 38 37 36	55 74 106 136 144
TOTAL MEAN MAX MIN CFSM IN.	621 20.0 24 17 0.24 0.28	720 24.0 27 21 0.29 0.32	715 23.1 30 18 0.28 0.32	707 22.8 28 20 0.27 0.31	581 20.8 24 18 0.25 0.26	2,132 68.8 137 19 0.82 0.95	2,733 91.1 173 40 1.09 1.22	4,972 160 399 43 1.92 2.22	1,389 46.3 68 30 0.55 0.62	1,783 57.5 102 26 0.69 0.79	3,587 116 269 36 1.39 1.60	2,637 87.9 198 34 1.05 1.17
STATIST	TCS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1946 - 2003	BY WATE	R YEAR (W	YY)			
MEAN MAX (WY) MIN (WY)	36.7 181 (2002) 4.12 (1965)	53.5 195 (1993) 4.51 (1965)	75.7 195 (1968) 7.20 (1964)	92.7 385 (1993) 7.95 (1964)	110 343 (2001) 8.55 (1963)	157 437 (1982) 20.4 (1964)	163 491 (1950) 48.1 (1946)	118 423 (1996) 29.8 (1963)	81.5 362 (1996) 21.6 (1988)	50.1 164 (1981) 10.8 (1963)	39.1 126 (1981) 8.12 (1964)	33.5 119 (1981) 5.83 (1963)

04099510 PIGEON CREEK NEAR ANGOLA, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	ENDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEAR	S 1946 - 2003
ANNUAL TOTAL	34,398		22,577			
ANNUAL MEAN	94.2		61.9		84.1	
HIGHEST ANNUAL MEAN					151	1950
LOWEST ANNUAL MEAN					19.5	1964
HIGHEST DAILY MEAN	645	May 16	399	May 13	996	May 21, 1996
LOWEST DAILY MEAN	17	Sep 16	17	Oct 15	3.4	Oct 25, 1964
ANNUAL SEVEN-DAY MINIMUM	17	Oct 14	17	Oct 14	3.5	Oct 22, 1964
MAXIMUM PEAK FLOW			408	May 13	1,000	May 21, 1996
MAXIMUM PEAK STAGE			8.67	May 13	13.90	Mar 22, 1982
ANNUAL RUNOFF (CFSM)	1.13		0.74	•	1.01	
ANNUAL RUNOFF (INCHES)	15.32		10.06		13.69	
10 PERCENT EXCEEDS	260		136		188	
50 PERCENT EXCEEDS	42		38		54	
90 PERCENT EXCEEDS	20		20		17	



04099750 PIGEON RIVER NEAR SCOTT, IN

LOCATION.--Lat $41^{\circ}44^{\circ}56^{\circ}$, long $85^{\circ}34^{\circ}35^{\circ}$, in $SE^{1}_{4}NW^{1}_{4}$ sec.14, T.38 N., R.8 E., Lagrange County, Hydrologic Unit 04050001, (SHIPSHEWANA, IN quadrangle), on right bank 20 ft downstream from bridge on County Road 750 North, 1,200 ft downstream from Page Ditch, 0.7 mi south of Indiana-Michigan State line, and 1.2 mi northwest of Scott.

DRAINAGE AREA.--361 mi² of which 53.9 mi² does not contribute directly to surface runoff.

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

REVISED RECORDS.--WSP 2111: Drainage area. WDR IN-92-1: 1991.

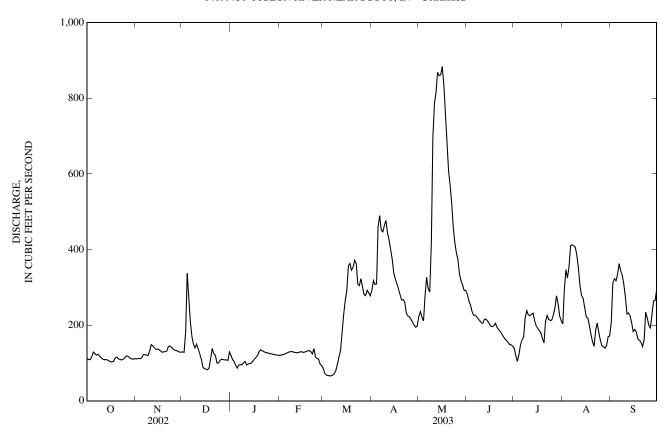
GAGE.--Water-stage recorder. Datum of gage is 815.00 ft above National Geodetic Vertical Datum of 1929.

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

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

					DAII	LINEAN	ALUES						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	112 109 109 116 129	112 111 112 111 114	130 128 183 337 e280	120 110 104 94 87	e120 e121 e122 e123 e125	e85 e72 e68 e67 e66	292 318 308 309 460	223 236 222 211 277	283 264 254 237 227	138 119 105 123 148	203 294 347 325 355	208 311 323 317 334	
6 7 8 9 10	125 121 123 118 114	122 122 121 119 132	e210 e170 e150 e140 e150	95 96 95 100 104	e127 e129 e130 e130 e129	e66 e68 e72 e80 e97	489 452 447 464 477	327 297 288 419 697	227 222 217 212 206	161 170 220 238 227	410 413 410 406 385	363 345 332 309 275	
11 12 13 14 15	110 108 109 108 106	149 146 141 136 137	139 124 111 89 85	e95 e97 e99 e100 e105	e128 e127 e128 e129 e130	e116 e134 179 228 266	444 426 400 375 338	787 816 869 860 862	206 216 216 211 205	225 228 232 213 199	351 304 279 271 248	230 233 225 207 183	
16 17 18 19 20	103 103 105 113 115	135 132 128 130 130	84 82 87 113 138	e110 e115 e120 e130 e135	e128 e129 e130 e132 133	291 357 363 345 353	322 310 296 281 267	884 836 760 682 608	197 196 199 205 195	191 186 179 165 153	222 219 199 175 157	189 182 164 160 155	
21 22 23 24 25	111 110 108 110 113	132 143 145 141 137	125 121 100 100 e107	e132 e130 e128 e127 e126	130 124 138 e116 e112	372 363 309 305 323	268 262 231 225 222	571 524 462 419 392	188 183 177 170 164	210 226 215 213 214	144 186 206 182 161	143 161 234 219 200	
26 27 28 29 30 31	119 118 115 111 111 110	134 133 131 129 128	e110 e109 e108 108 107 129	e125 e124 e123 e122 e121 e121	e110 e96 e93 	301 282 278 292 286 278	216 207 201 195 197	373 334 318 306 292 292	160 155 149 148 145	227 246 278 257 225 212	145 144 139 146 170 171	193 225 264 265 295	
TOTAL MEAN MAX MIN CFSM IN.	3,492 113 129 103 0.37 0.42	3,893 130 149 111 0.42 0.47	4,154 134 337 82 0.44 0.50	3,490 113 135 87 0.37 0.42	3,469 124 138 93 0.40 0.42	6,762 218 372 66 0.71 0.82	9,699 323 489 195 1.05 1.18	15,444 498 884 211 1.62 1.87	6,034 201 283 145 0.66 0.73	6,143 198 278 105 0.65 0.74	7,767 251 413 139 0.82 0.94	7,244 241 363 143 0.79 0.88	
STATIST	ΓICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1968 - 2003	, BY WATE	R YEAR (W	YY)				
MEAN MAX (WY) MIN (WY)	223 575 (1987) 96.3 (1972)	290 684 (1993) 96.7 (1972)	353 719 (1983) 134 (2003)	383 1,169 (1993) 113 (2003)	443 875 (2001) 124 (2003)	579 1,389 (1982) 218 (2003)	588 1,089 (1978) 323 (2003)	466 976 (1996) 233 (1971)	381 1,103 (1981) 132 (1988)	257 654 (1981) 104 (1988)	219 516 (1981) 92.5 (1988)	202 538 (1981) 85.8 (1971)	
SUMMA	RY STATIS	STICS]	FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	/EAR	WATER	YEARS 196	68 - 2003	
ANNUAL HIGHES LOWES	ANNUAL TOTAL 128,558 ANNUAL MEAN 352 HIGHEST ANNUAL MEAN OWEST ANNUAL MEAN HIGHEST DAILY MEAN 1,650 OWEST DAILY MEAN 82				2	14		91 13 34 May	_/ 16	5	364 545 207 340 Ma	1993 1972 ar 21, 1982	
LOWEST ANNUAL MAXIMI MAXIMI	LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (CFSM)			1,650 May 14 82 Dec 17 93 Dec 13			66 Mar 5 42 Oct 21, 68 Mar 2 68 Mar 2, 892 May 16 2,370 Mar 21, 5.35 May 16 7.85 Mar 21,			et 21, 1971 ar 2, 2003 ar 21, 1982 ar 21, 1982			
					5.58 5		16	9.40 63 64 06		ϵ	7.85 Mar 21, 1982 1.18 16.09 679 290 144		

04099750 PIGEON RIVER NEAR SCOTT, IN—Continued



04099808 LITTLE ELKHART RIVER AT MIDDLEBURY, IN

LOCATION.—Lat $41^{\circ}40^{\circ}31^{\circ}$, long $85^{\circ}42^{\circ}01^{\circ}$, in $NE^{1}/_{4}SE^{1}/_{4}$ sec. 10, T.37 N., R.7 E., Elkhart County, Hydrologic Unit 04050001, (MIDDLEBURY, IN quadrangle), on left bank 15 ft downstream from bridge on County Road 16, 0.1 mi east of Middlebury, 0.4 mi upstream from intersection of State Road 13 bridge and Little Elkhart River, 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 October 2003 (discontinued).

REVISED RECORDS.--WDR IN-82-1: 1980, 1981. WDR IN-92-1: 1991.

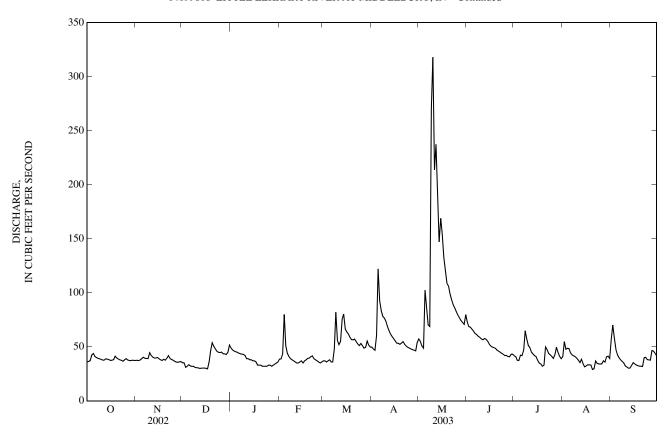
GAGE.--Water-stage recorder. Datum of gage is 810.00 ft above National Geodetic Vertical Datum of 1929.

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

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	36 36 37 42 44	37 38 37 38 39	35 35 e31 e32 33	49 47 46 45 45	39 39 43 80 e51	e37 e37 e36 e37 e38	50 48 47 61 122	57 55 51 49 102	73 69 68 66 64	42 41 37 37 42	41 55 48 49 48	57 70 58 47 43
6 7 8 9 10	41 40 39 39 38	40 39 39 39 45	32 32 32 31 31	44 44 43 43 42	e44 e41 e39 e38 e37	e36 e36 e48 e82 e56	92 83 78 77 74	85 70 69 271 318	62 61 60 59 57	42 47 65 57 51	44 42 42 41 39	40 38 36 35 32
11 12 13 14 15	38 38 39 39 38	42 40 40 40 40	30 30 30 30 30 30	e39 e39 e38 e38 e37	e36 e35 e35 e36 e37	e52 55 76 80 66	69 65 62 59 57	214 237 185 147 169	56 58 57 55 53	49 45 43 42 41	38 35 39 34 32	31 30 30 33 35
16 17 18 19 20	37 38 38 41 40	39 38 37 38 38	30 30 36 47 54	e37 e36 e33 e33	e35 e37 e38 39 40	64 62 59 57 56	55 53 53 52 54	154 133 120 109 106	51 50 49 49 47	37 35 34 32 33	32 33 33 33 29	34 33 33 32 32
21 22 23 24 25	39 38 37 37 38	39 42 39 38 38	50 48 46 45 45	e32 e32 e32 e32 e33	41 42 e39 e38 e37	57 55 53 51 53	55 52 51 49 49	99 93 89 86 83	46 45 44 43 42	50 47 44 42 41	30 37 35 34 34	32 40 40 38 38
26 27 28 29 30 31	39 38 37 37 38 37	37 36 36 36 36	45 44 43 43 45 52	e33 e32 e33 e34 e35 e36	e36 e35 e36 	51 49 49 55 52 50	48 47 47 46 54	79 77 74 72 71 80	42 41 41 43 43	39 43 50 45 41 39	34 37 36 41 41 39	38 47 46 44 42
TOTAL MEAN MAX MIN CFSM IN.	1,193 38.5 44 36 0.42 0.48	1,160 38.7 45 36 0.42 0.47	1,177 38.0 54 30 0.41 0.48	1,175 37.9 49 32 0.41 0.48	1,123 40.1 80 35 0.44 0.46	1,645 53.1 82 36 0.58 0.67	1,809 60.3 122 46 0.66 0.73	3,604 116 318 49 1.27 1.46	1,594 53.1 73 41 0.58 0.65	1,333 43.0 65 32 0.47 0.54	1,185 38.2 55 29 0.42 0.48	1,184 39.5 70 30 0.43 0.48
STATIST	ΓICS OF MO	ONTHLY M	EAN DATA	FOR WATI	ER YEARS	1980 - 2003	BY WATE	R YEAR (W	YY)			
MEAN MAX (WY) MIN (WY)	75.1 172 (1991) 36.0 (1995)	91.0 202 (1986) 38.6 (1981)	101 207 (1991) 36.4 (2001)	107 307 (1993) 37.9 (2003)	123 280 (1985) 40.1 (2003)	139 404 (1982) 53.1 (2003)	132 210 (1985) 60.3 (2003)	112 264 (1996) 55.3 (1988)	98.7 278 (1993) 36.7 (1988)	68.2 189 (1981) 34.9 (2001)	60.5 160 (1998) 37.7 (2001)	59.0 118 (1981) 35.5 (2002)
SUMMA	RY STATIS	STICS]	FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	/EAR	WATER	YEARS 198	0 - 2003
ANNUAL HIGHES LOWEST ANNUAL MAXIMI MAXIMI ANNUAL ANNUAL 10 PERC 50 PERC	L TOTAL L MEAN T ANNUAL T ANNUAL T ADAILY M T DAILY M L SEVEN-E UM PEAK I UM PEAK I L RUNOFF ENT EXCE ENT EXCE	MEAN IEAN EAN DAY MINIM FLOW STAGE (CFSM) (INCHES) EDS EDS	UM		May Dec Dec Dec80	11	31 2 3 50	19.8 18 May 29 Aug 30 Dec	g 20 c 11 / 9	1 2,0 2,4	22 Aug 24 Aug 370 Fel	1993 2003 b 24, 1985 g 14, 2001 g 8, 2001 b 24, 1985 b 24, 1985

04099808 LITTLE ELKHART RIVER AT MIDDLEBURY, IN—Continued



04099850 PINE CREEK NEAR ELKHART, IN

LOCATION.--Lat $41^{\circ}40^{\circ}53^{\circ}$, long $85^{\circ}52^{\circ}57^{\circ}$, in NE $^{1}/_{4}$ NW $^{1}/_{4}$ sec.7, T.37 N., R.6 E., Elkhart County, Hydrologic Unit 04050001, (ELKHART, IN quadrangle), 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, 3.1 mi east of Elkhart, and at mile 2.0.

DRAINAGE AREA.--31.0 mi^2 , of which 8.75 mi^2 does not contribute directly to surface runoff.

PERIOD OF RECORD.--October 1979 to October 2003 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 755.00 ft above National Geodetic Vertical Datum of 1929.

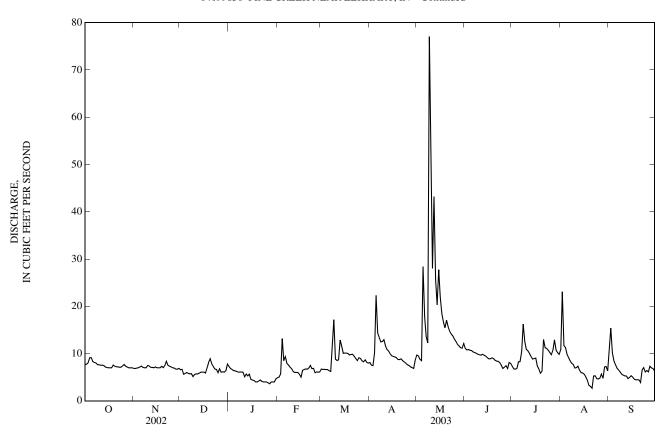
REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAILY MEAN VALUES												
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
7.7	6.9	6.6	7.3	4.9	6.7	8.1	9.7	11	7.3	11	11	
7.7	6.8	6.7	6.8	5.0	6.6	7.5	9.5	11	6.8	23	15	
8.1	6.9	5.6	6.6	5.7	6.7	7.4	8.8	11	6.7	12	10	
9.1	7.0	5.8	6.4	13	6.6	10	8.5	11	6.9	11	8.4	
9.1	7.1	6.0	6.3	8.5	6.6	22	28	11	8.3	9.8	7.6	
8.3	7.3	5.8	6.2	9.3	6.3	14	18	10	8.3	9.2	6.9	
8.1	7.1	5.7	6.1	7.9	6.2	13	14	10	10	8.4	6.5	
8.0	7.0	5.8	6.1	7.6	12	12	12	10	16	8.0	6.1	
7.7	7.0	5.1	6.1	e7.1	17	13	77	9.8	13	7.7	5.6	
7.6	7.5	5.5	6.0	e6.8	8.8	13	52	9.7	11	6.9	5.4	
7.5	7.4	5.7	5.1	e6.2	8.5	12	28	9.6	11	7.0	5.3	
7.5	7.1	5.7	5.7	e6.0	8.7	11	43	9.8	10	7.3	5.3	
7.4	7.1	5.8	5.3	e6.0	13	11	26	9.7	9.4	6.5	4.7	
7.1	7.0	6.1	5.6	e6.0	12	10	20	9.5	8.8	5.9	5.0	
7.0	7.2	6.1	4.5	e5.6	10	9.5	28	9.2	8.9	5.9	5.3	
7.0	7.0	6.1	e4.4	e5.0	10	9.4	22	8.9	9.0	5.6	5.0	
7.0	7.0	5.9	e4.3	6.4	10	9.3	18	8.9	7.4	5.1	4.6	
7.0	7.0	7.0	e4.0	6.6	10	9.1	17	9.1	6.7	4.4	4.4	
7.6	7.3	8.2	e4.0	6.8	9.7	8.7	15	9.0	5.8	3.3	4.5	
7.3	7.0	8.9	e4.2	6.7	9.8	8.7	17	8.6	6.2	3.1	4.4	
7.2	7.5	7.8	e4.4	6.9	9.9	8.9	16	8.4	13	2.7	3.9	
7.2	8.4	7.2	e4.1	7.5	9.4	8.5	15	8.4	11	5.2	6.6	
7.1	7.5	6.7	e4.0	6.8	9.0	8.2	14	8.1	11	5.3	7.0	
7.1	7.3	6.6	e4.0	6.9	8.5	7.9	14	7.5	11	4.7	6.1	
7.4	7.2	6.0	e4.0	5.9	9.1	7.6	13	6.8	10	4.6	6.4	
7.7 7.3 7.1 7.0 7.0 7.0	7.0 6.9 6.7 6.7 6.9	6.8 6.0 6.2 6.1 6.4 7.8	e3.8 e3.6 e4.0 e4.0 4.0 4.7	6.1 6.1 6.1 	9.0 8.5 8.2 8.7 8.2 8.0	7.5 7.2 7.0 6.9 8.6	13 12 12 11 11 11	7.1 7.4 6.8 8.1 7.9	9.8 11 13 11 10 9.8	4.8 5.7 4.8 7.2 7.3 6.3	6.1 7.3 6.9 6.8 6.2	
232.9	213.8	197.7	155.6	189.4	281.7	297.0	614.5	273.3	298.1	219.7	194.3	
7.51	7.13	6.38	5.02	6.76	9.09	9.90	19.8	9.11	9.62	7.09	6.48	
9.1	8.4	8.9	7.3	13	17	22	77	11	16	23	15	
7.0	6.7	5.1	3.6	4.9	6.2	6.9	8.5	6.8	5.8	2.7	3.9	
0.24	0.23	0.21	0.16	0.22	0.29	0.32	0.64	0.29	0.31	0.23	0.21	
0.28	0.26	0.24	0.19	0.23	0.34	0.36	0.74	0.33	0.36	0.26	0.23	
TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1980 - 2003	, BY WATE	R YEAR (W	YY)				
14.5	16.1	18.7	18.7	22.3	25.4	25.1	21.7	21.5	15.2	12.8	11.8	
42.4	32.8	52.7	45.6	47.6	82.3	42.7	50.7	68.1	39.2	26.7	23.7	
(1991)	(1986)	(1991)	(1993)	(1985)	(1982)	(1999)	(1996)	(1993)	(1981)	(1997)	(1981)	
4.12	5.26	4.44	4.96	6.76	9.09	9.90	8.00	7.79	6.17	5.01	3.22	
(2001)	(2001)	(2001)	(2001)	(2003)	(2003)	(2003)	(2000)	(1988)	(2001)	(2000)	(2000)	
SUMMARY STATISTICS				ALENDAR	YEAR	FOR 200	FOR 2003 WATER YEAR			WATER YEARS 1980 - 2003		
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 90 PERCENT EXCEEDS			6,391.1 17.5 175 Feb 1 5.1 Dec 9 5.6 Dec 6			3,168.0 8.68 77				1.8 Au 2.2 Se 507 De	1993 2000 cc 30, 1990 g 9, 2001 pp 2, 2000 cc 30, 1990 al 26, 1981	
	7.7 7.7 7.7 7.7 7.7 8.1 9.1 9.1 8.3 8.1 8.0 7.7 7.6 7.5 7.5 7.4 7.1 7.0 7.0 7.0 7.0 7.0 7.6 7.3 7.2 7.1 7.1 7.4 7.7 7.3 7.1 7.0 7.0 7.0 232.9 7.51 9.1 7.0 0.24 0.28 CICS OF MO 14.5 42.4 (1991) 4.12 (2001) RY STATIS L TOTAL L MENUAL T ANNUAL T COST T COS	7.7 6.9 7.7 6.8 8.1 6.9 9.1 7.0 9.1 7.1 8.3 7.3 8.1 7.1 8.0 7.0 7.7 7.0 7.6 7.5 7.5 7.4 7.5 7.1 7.4 7.1 7.1 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.1 7.2 7.0 7.0 7.0 7.0 7.1 7.3 7.4 7.1 7.1 7.5 7.1 7.3 7.4 7.2 7.7 7.0 7.6 6.3 7.3 7.0 7.2 7.5 7.2 8.4 7.1 7.5 7.1 7.3 7.4 7.2 7.7 7.0 7.3 6.9 7.1 6.7 7.0 6.7 7.0 6.9 7.0 232.9 213.8 7.51 7.13 9.1 8.4 7.0 6.7 7.0 6.9 7.0 232.9 213.8 7.51 7.13 9.1 8.4 7.0 6.7 7.0 6.9 7.0 232.9 213.8 7.51 7.13 9.1 8.4 7.0 6.7 7.0 6.9 7.0 1986) 4.12 5.26 (2001) CICS OF MONTHLY M 14.5 16.1 42.4 32.8 (1991) (1986) 4.12 5.26 (2001) CICS OF MONTHLY M 14.5 16.1 42.4 32.8 (1991) (1986) 4.12 5.26 (2001) CICS OF MONTHLY M 14.5 16.1 42.4 32.8 (1991) (1986) 4.12 5.26 (2001) CICS OF MONTHLY M 14.5 16.1 42.4 32.8 (1991) (1986) 4.12 5.26 (2001) CICS OF MONTHLY MEAN T ANNUAL MEAN T DAILY MEAN T ANNUAL MEAN T DAILY MEAN L SEVEN-DAY MINIM UM PEAK STAGE L RUNOFF (INCHES) ENT EXCEEDS ENT EXCEEDS	7.7 6.9 6.6 7.7 6.8 6.7 8.1 6.9 5.6 9.1 7.0 5.8 9.1 7.1 6.0 8.3 7.3 5.8 8.1 7.1 5.7 8.0 7.0 5.8 7.7 7.0 5.1 7.6 7.5 5.5 7.5 7.4 5.7 7.5 7.1 5.7 7.4 7.1 5.8 7.1 7.0 6.1 7.0 7.0 6.1 7.0 7.0 6.1 7.0 7.0 7.0 6.1 7.0 7.0 7.0 7.0 7.6 7.3 8.2 7.3 7.0 8.9 7.2 7.5 7.8 7.2 8.4 7.2 7.1 7.5 6.7 7.1 7.3 6.6 7.4 7.2 6.0 7.7 7.0 6.8 7.3 7.0 8.9 7.2 7.5 7.8 7.2 8.4 7.2 7.1 7.5 6.7 7.1 7.3 6.6 7.4 7.2 6.0 7.7 7.0 6.8 7.3 6.9 6.0 7.1 6.7 6.2 7.0 6.7 6.1 7.0 6.9 6.4 7.0 7.8 232.9 213.8 197.7 7.51 7.13 6.38 9.1 8.4 8.9 7.0 6.7 6.1 7.0 6.9 6.4 7.0 7.8 232.9 213.8 197.7 7.51 7.13 6.38 9.1 8.4 8.9 7.0 6.7 5.1 0.24 0.23 0.21 0.28 0.26 0.24 CICS OF MONTHLY MEAN DATA 14.5 16.1 18.7 42.4 32.8 52.7 (1991) (1986) (1991) 4.12 5.26 4.44 (2001) (2001) (2001) RY STATISTICS L TOTAL L MEAN T ANNUAL MEA	7.7 6.9 6.6 7.3 7.7 6.8 6.7 6.8 8.1 6.9 5.6 6.6 9.1 7.0 5.8 6.4 9.1 7.1 6.0 6.3 8.3 7.3 5.8 6.2 8.1 7.1 5.7 6.1 8.0 7.0 5.8 6.1 7.7 7.0 5.1 6.1 7.6 7.5 5.5 6.0 7.5 7.4 5.7 5.1 7.5 7.1 5.7 5.7 7.4 7.1 5.8 5.3 7.1 7.0 6.1 5.6 7.0 7.2 6.1 4.5 7.0 7.0 6.1 6.4 7.0 7.0 7.0 6.1 6.4 7.0 7.0 7.0 6.1 6.4 7.0 7.0 7.0 6.1 6.4 7.0 7.0 7.0 8.9 6.0 7.5 7.3 8.2 6.0 7.3 8.2 6.0 7.3 7.0 7.0 8.9 6.2 7.2 7.5 7.8 6.4 7.1 7.3 6.6 6.4 7.1 7.3 6.6 6.4 7.4 7.2 6.0 6.0 6.0 7.7 7.0 6.8 6.3 7.1 6.7 6.2 6.0 7.0 7.0 6.9 6.4 4.0 7.0 7.0 6.9 6.4 4.0 7.0 6.9 6.0 6.0 6.0 6.0 7.0 6.9 6.0 6.0 6.0 6.0 7.0 6.9 6.0 6.0 6.0 6.0 7.0 6.9 6.0 6.0 6.0 6.0 7.0 6.9 6.0 6.0 6.0 6.0 7.0 6.9 6.0 6.0 6.0 6.0 7.0 6.9 6.0 6.0 6.0 6.0 7.0 6.9 6.0 6.0 6.0 6.0 7.0 6.9 6.0 6.0 6.	OCT NOV DEC JAN FEB 7.7 6.9 6.6 7.3 4.9 7.7 6.8 6.7 6.8 5.0 8.1 6.9 5.6 6.6 5.7 9.1 7.0 5.8 6.4 13 9.1 7.1 6.0 6.3 8.5 8.3 7.3 5.8 6.2 9.3 8.1 7.1 5.7 6.1 7.9 8.0 7.0 5.8 6.1 7.6 7.7 7.0 5.8 6.1 7.6 7.7 7.0 5.8 6.1 7.6 7.7 7.0 5.1 6.1 6.1 6.1 7.9 8.0 7.0 5.8 6.1 7.6 7.5 7.4 5.7 5.7 5.7 6.0 6.8 7.5 7.4 5.7 5.7 5.7 6.0 6.8 7.5 7.1 5.7 5.7 5.7 6.0 7.0 7.0 6.1 4.5 6.6 7.1 7.0 6.1 4.5 6.6 7.0 7.0 7.0 6.1 4.5 6.6 7.0 7.0 7.0 5.9 6.1 4.5 6.6 7.6 7.3 8.2 64.0 6.8 7.3 7.0 8.9 64.2 6.7 7.2 7.5 7.8 64.4 6.9 7.2 7.5 7.8 64.4 6.9 7.1 7.5 6.7 64.0 6.8 7.1 7.3 6.6 64.0 6.9 7.1 7.0 6.8 6.8 6.3 6.1 7.1 7.3 6.6 64.0 6.9 7.4 7.2 6.0 64.0 6.9 7.4 7.2 6.0 64.0 6.9 7.4 7.2 6.0 64.0 6.9 7.4 7.2 6.0 64.0 6.9 7.4 7.2 6.0 64.0 6.9 7.4 7.2 6.0 64.0 6.9 7.4 7.2 6.0 64.0 6.9 7.4 7.2 6.0 64.0 6.9 7.4 7.2 6.0 6.0 6.0 7.0 6.7 6.1 6.1 64.0 6.9 7.1 7.3 6.6 64.0 6.9 7.4 7.2 6.0 64.0 6.9 7.4 7.2 6.0 64.0 6.9 7.4 7.2 6.0 64.0 6.9 7.4 7.2 6.0 64.0 6.9 7.4 7.2 6.0 64.0 6.9 7.4 7.2 6.0 64.0 6.9 7.4 7.2 6.0 64.0 6.9 7.4 7.2 6.0 64.0 6.9 7.4 7.2 6.0 64.0 6.9 7.4 7.2 6.0 64.0 6.9 7.5 7.1 6.7 6.2 64.0 6.1 7.0 6.7 6.1 6.1 64.0 6.2 7.0 6.7 6.1 6.0 6.0 6.1 7.0 6.7 6.1 6.1 64.0 6.9 7.0 6.7 6.1 6.1 64.0 6.9 7.0 6.7 6.1 6.1 64.0 6.9 7.0 6.7 6.1 6.0 6.0 6.1 7.0 6.7 6.1 6.0 6.0 6.1 7.0 6.7 6.1 6.0 6.0 6.1 7.0 6.7 6.1 6.0 6.0 6.1 7.0 6.7 6.1 6.0 6.0 6.1 7.0 6.7 6.1 6.0 6.0 6.1 7.0 6.7 6.1 6.1 64.0 6.1 7.0 6.7 6.1 6.1 64.0 6.1 7.0 6.7 6.1 6.0 6.0 6.0 7.0 6.9 6.4 4.0 6.1 7.0 6.7 6.1 6.1 64.0 6.1 7.0 6.7 6.1 6.0 6.0 6.0 6.0 7.0 6.0 6.0 6.0 6.0 6.0 6.0 7.0 6.0 6.0 6.0 6.0 6.	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5.8 6.1 7.6 12 12 12 19 7.7 7.0 5.1 6.1 67.1 17 13 77 9.8 7.6 7.5 7.4 5.7 5.1 6.2 8.5 12 28 9.6 7.5 7.1 5.7 5.7 6.0 66.8 8.8 13 52 9.7 7.5 7.4 5.7 5.1 6.0 66.8 18.1 11 43 9.8 7.4 7.1 5.7 6.1 4.5 6.0 13 11 26 9.7 7.1 7.0 6.1 5.6 6.0 13 11 26 9.7 7.1 7.0 6.1 5.6 6.0 13 11 26 9.7 7.1 7.0 6.1 4.5 6.6 6.0 12 10 20 9.5 7.0 7.2 6.1 4.5 6.6 6.0 12 10 20 9.5 7.0 7.0 7.2 6.1 4.5 6.8 6.0 12 10 20 9.5 7.0 7.0 7.0 6.1 6.4 6.8 9.7 8.7 11 43 9.8 7.0 7.0 7.0 6.1 6.4 6.8 9.7 8.7 11 9.0 11 9.0 7.0 7.0 7.0 6.1 6.4 6.8 9.7 8.7 15 9.0 7.1 7.3 7.0 8.9 e4.2 6.7 9.8 8.7 17 8.7 15 9.0 7.2 7.5 7.8 6.4 6.9 9.9 8.9 16 8.4 7.1 7.5 6.7 6.0 6.8 9.0 8.2 14 8.1 7.1 7.5 6.7 6.0 6.8 9.0 8.2 14 8.1 7.1 7.5 6.7 6.0 6.8 9.0 8.2 14 8.1 7.1 7.5 6.7 6.0 6.8 9.0 8.2 14 8.1 7.1 7.3 6.6 6.0 6.8 9.0 8.2 14 8.1 7.1 7.3 6.9 6.0 0.0 6.8 9.0 8.2 14 8.1 7.1 7.3 6.9 6.0 0.0 6.8 9.0 8.2 14 8.1 7.1 7.3 6.9 6.0 0.0 6.8 9.0 8.5 7.9 14 7.5 7.1 7.3 6.9 6.0 0.0 6.8 9.0 8.5 7.9 14 7.5 7.1 7.1 6.7 6.2 0.0 0.0 0.0 8.5 9.9 1.7 6.0 13 6.8 7.7 7.0 6.1 8.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	OCT NOV DEC JAN FEB MAR APR MAY JUN JUL 7.7 6.9 6.6 7.3 4.9 6.7 8.1 9.7 11 7.3 7.7 6.8 6.7 6.8 5.0 6.6 7.5 9.5 11 6.8 8.1 6.9 5.6 6.6 5.7 6.7 7.4 8.8 11 6.7 9.1 7.0 5.8 6.4 13 6.6 10 8.5 11 6.9 9.1 7.1 6.0 6.3 8.5 6.6 22 28 11 8.3 8.2 7.3 5.8 6.2 7.9 6.2 13 14 18 10 8.3 8.3 7.3 5.8 6.2 7.9 6.2 13 14 18 10 8.3 8.0 7.0 5.8 6.4 17.9 6.2 13 14 10 8.3 8.0 7.0 5.8 1.6 1 7.6 12 12 12 12 10 6.8 8.0 7.0 5.8 1.6 1 7.6 12 12 12 12 10 16 8.0 7.0 5.8 5.5 6.0 66.8 8.8 13 52 9.7 11 7.5 7.4 5.7 5.1 6.2 8.8 13 52 9.7 11 7.5 7.4 5.7 5.1 6.2 8.8 11 22 8 9.6 11 7.5 7.1 5.7 5.7 6.0 8.7 11 43 9.8 10 7.1 1.7 0.0 6.1 5.6 6.0 12 10 20 9.5 8.8 7.0 7.0 6.1 4.5 6.6 10 9.5 28 9.2 7.0 7.0 6.1 4.4 6.0 12 10 20 9.5 8.9 7.0 7.0 6.1 4.4 6.0 12 10 20 9.5 8.8 7.0 7.0 7.0 6.1 4.4 6.0 12 10 20 9.5 8.8 7.0 7.0 7.0 6.1 4.4 6.0 12 10 20 9.5 8.8 7.0 7.0 7.0 6.1 4.4 6.0 6.8 10 9.5 11 17 9.1 6.7 7.0 7.0 5.9 6.4 3.6 6.4 10 9.3 18 8.9 7.4 7.0 7.0 7.0 6.0 6.4 6.8 9.7 8.7 15 9.0 6.2 7.0 7.0 6.0 6.0 8.7 11 70 1.7 9.1 6.7 7.0 7.0 6.0 6.0 8.7 11 70 1.7 9.1 6.7 7.0 7.0 5.9 6.4 6.6 10 9.1 17 9.1 6.7 7.0 7.0 6.0 6.0 8.9 6.2 14 8.5 15 8.4 11 7.1 7.3 6.6 6.0 6.0 12 10 9.5 28 9.2 8.9 9.0 1.0 9.4 22 8.9 9.0 7.0 7.0 6.0 6.0 8.9 9.9 9.9 16 8.8 11 7.1 7.5 6.7 6 6.0 8.0 12 10 9.5 18 8.9 7.0 7.0 7.0 6.0 6.0 8.9 8.5 7.9 14 7.5 9.0 8.8 7.1 7.1 7.5 6.6 6.0 12 10 9.1 17 9.1 6.7 7.2 7.5 7.8 6.4 6.9 9.9 9.9 9.9 16 8.8 11 7.1 7.5 6.7 6 6.0 6.0 8.9 9.9 16 8.5 11 7.1 7.3 6.6 6.0 6.0 6.9 8.5 7.9 14 7.5 11 7.1 7.5 6.7 6 6.0 6.0 8.9 9.9 16 8.8 11 7.1 7.3 6.6 6.0 6.0 6.9 8.5 7.9 14 7.5 11 7.4 7.1 7.1 7.5 6.7 6.0 6.0 8.8 9.0 8.2 14 8.1 11 7.1 7.3 6.6 6.0 6.0 6.9 8.5 7.9 14 7.5 11 7.4 7.1 7.1 7.5 6.7 6.0 6.0 8.0 8.8 8.7 17 8.6 6.2 8.2 14 8.4 8.9 7.3 13 13 12 12 12 7.2 13 13 11 8.6 6.2 8.8 10 7.7 7.0 6.8 8.3 8.8 6.1 9.0 7.5 13 7.1 9.8 8.9 8.8 10 9.0 9.0 9.9 9.9 19.8 9.1 19.8 9.1 19.9 19.9 19.	OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG 7.7 6.9 6.6 7.3 4.9 6.7 8.1 9.7 11 7.3 11 7.7 6.8 6.7 6.8 5.0 6.6 7.7 4.8 8.1 1.7 1 7.3 11 9.1 7.0 5.8 6.4 18.5 6.6 10 8.5 11 6.9 11 9.1 7.1 6.0 6.3 8.5 6.6 10 8.5 11 6.9 11 9.1 7.1 5.7 6.0 6.3 8.5 6.6 10 8.5 11 6.9 18 8.3 7.3 5.8 6.2 9.3 6.3 14 18 10 8.3 9.2 8.1 7.1 5.7 6.1 7.9 6.2 13 14 10 10 8.4 8.0 7.0 5.8 6.1 7.6 12 12 12 12 10 10 8.4 8.0 7.0 5.8 6.1 7.6 12 12 12 12 10 10 8.4 7.7 7.0 5.5 6.0 6.1 6.1 7.9 6.2 13 14 10 10 8.4 8.0 7.7 5.5 5.5 6.0 6.8 8.8 13 57 9.8 13 7.7 9.8 13 7.7 7.5 7.5 7.5 5.5 6.0 6.8 8.8 13 7.7 9.8 13 7.7 9.8 13 7.7 7.5 7.7 7.0 5.1 6.0 6.8 8.8 13 52 9.7 11 6.9 7.5 7.4 5.7 5.7 5.7 6.0 6.8 8.8 13 9.2 28 9.6 11 7.0 7.5 7.1 5.7 5.7 5.7 6.0 6.8 8.8 13 9.2 28 9.6 11 7.0 7.5 7.1 5.7 5.7 5.7 6.0 6.0 8.7 11 43 9.8 10 7.3 7.4 7.1 5.8 5.3 6.0 13 11 26 9.7 9.8 8.5 9.7 7.0 7.0 6.1 4.5 6.6 10 12 10 20 9.5 8.8 5.9 7.0 7.0 6.1 6.4 4.5 6.6 10 13 11 26 9.7 9.8 8.5 9.7 7.0 7.0 6.1 6.4 4.5 6.6 10 9.5 28 9.2 8.9 9.0 5.6 7.0 7.0 6.1 6.4 4.5 6.6 10 9.5 28 9.2 8.9 9.5 5.6 7.0 7.0 6.1 6.4 4.5 6.6 10 9.5 8.8 9.7 4.4 5.7 7.0 7.0 6.1 6.4 6.8 9.7 9.8 8.7 17 9.8 8.7 17 9.8 6.2 3.1 7.0 7.0 6.1 6.4 6.8 9.7 9.8 8.7 17 9.9 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	

e Estimated

04099850 PINE CREEK NEAR ELKHART, IN—Continued



04100222 NORTH BRANCH ELKHART RIVER AT COSPERVILLE, IN

LOCATION.--Lat 41°28'54", long 85°28'32", in $NE_4^1NW_4^1$ sec. 22, T.35 N., R.9 E., Noble County, Hydrologic Unit 04050001, (ALBION, IN quadrangle), 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.

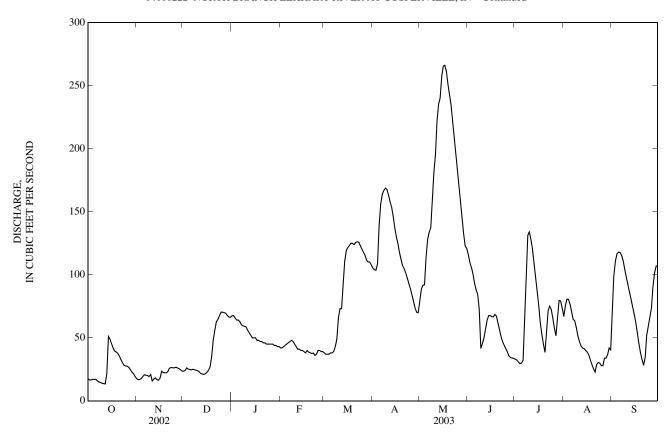
GAGE.--Water-stage recorder. Datum of gage is 880.12 ft above National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources).

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated at times by dam at Waldron Lake.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	18	18	24	67	e42	e38	105	79	116	33	67	67	
2	17	17	24	68	e42	e37	104	89	110	32	75	99	
3	17	17	26	66	e43	e37	104	92	106	31	81	111	
4	17	18	25	64	e44	e37	109	92	101	29	80	117	
5	17	19	25	64	e45	e38	138	114	93	30	77	118	
6	17	21	25	63	e46	e38	156	128	88	32	71	118	
7	16	20	25	60	e47	e39	164	134	84	60	65	115	
8	15	20	25	60	e48	e43	167	137	73	99	64	111	
9	14	19	24	59	e47	e49	169	161	41	131	58	104	
10	14	21	24	59	e45	e66	168	181	45	134	51	98	
11	14	16	23	e56	e43	73	163	196	50	128	47	92	
12	13	17	22	e54	e41	73	158	222	57	120	44	86	
13	22	18	21	e52	e41	92	154	235	64	110	42	81	
14	51	17	21	e50	e40	110	147	240	68	99	41	75	
15	49	16	21	e50	e40	119	138	257	68	87	40	69	
16	45	18	23	e50	e39	121	130	266	67	75	39	62	
17	42	24	24	e48	e38	123	125	266	67	62	36	54	
18	39	22	27	e48	40	125	118	261	69	53	33	46	
19	39	22	35	e47	39	125	112	251	67	45	29	38	
20	38	22	48	e47	38	124	107	243	61	38	26	33	
21	36	23	56	e46	38	126	105	235	56	54	23	28	
22	33	26	63	e46	38	126	102	221	51	71	29	34	
23	30	26	65	e45	e36	126	97	207	47	75	30	52	
24	28	26	68	e45	e37	123	93	194	44	73	30	60	
25	28	26	70	e45	e40	121	89	182	41	65	28	66	
26 27 28 29 30 31	27 27 25 23 22 19	27 26 26 25 24	70 70 69 68 67 66	e45 e45 e44 e44 e43 e43	e40 e39 e39 	118 116 111 110 110	84 79 74 70 70	169 157 145 132 123 121	39 36 34 34 34	58 52 66 80 79 74	28 34 34 36 42 40	73 90 101 107 107	
TOTAL	812	637	1,244	1,623	1,155	2,802	3,599	5,530	1,911	2,175	1,420	2,412	
MEAN	26.2	21.2	40.1	52.4	41.2	90.4	120	178	63.7	70.2	45.8	80.4	
MAX	51	27	70	68	48	126	169	266	116	134	81	118	
MIN	13	16	21	43	36	37	70	79	34	29	23	28	
CFSM	0.18	0.15	0.28	0.37	0.29	0.64	0.84	1.26	0.45	0.49	0.32	0.57	
IN.	0.21	0.17	0.33	0.43	0.30	0.73	0.94	1.45	0.50	0.57	0.37	0.63	
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WATI	ER YEARS	1972 - 2003	BY WATE	R YEAR (W	Y)				
MEAN	79.4	112	136	153	160	244	238	173	140	81.5	60.5	62.5	
MAX	272	314	341	542	307	553	530	354	405	211	171	161	
(WY)	(1987)	(1973)	(1986)	(1993)	(2001)	(1985)	(1985)	(1996)	(1996)	(1981)	(1997)	(1972)	
MIN	17.8	17.8	40.1	42.2	41.2	87.2	111	67.2	18.1	16.4	18.3	9.59	
(WY)	(1975)	(1972)	(2003)	(1977)	(2003)	(2000)	(2000)	(1988)	(1988)	(1988)	(1978)	(1999)	
SUMMA	RY STATIS	STICS	1	FOR 2002 CALENDAR YEAR				FOR 2003 WATER YEAR			WATER YEARS 1972 - 2003		
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 90 PERCENT EXCEEDS			UM	42,084.9 115 402 May 18 5.1 Sep 24 6.2 Sep 20 0.81 11.03 303 69 14			25,320 69.4 266 May 16 13 Oct 12 15 Oct 6 266 May 16 5.25 May 16 0.49 6.63 130 51 22			136 222 69.4 2003 916 Mar 22, 1982 2.2 Jul 7, 1988 2.8 Jul 3, 1988 919 Mar 23, 1982 8.12 Mar 23, 1982 0.96 13.05 291 105 29			

e Estimated

04100222 NORTH BRANCH ELKHART RIVER AT COSPERVILLE, IN—Continued



STREAMS TRIBUTARY TO LAKE MICHIGAN

04100252 FORKER CREEK NEAR BURR OAK, IN

LOCATION.--Lat $41^{\circ}19^{\circ}58^{\circ}$, long $85^{\circ}25^{\circ}25^{\circ}$, in SE $_{4}^{1}$ NE $_{4}^{1}$ sec. 12, T.33 N., R.9 E., Noble County, Hydrologic Unit 04050001, (MERRIAN, IN quadrangle), on right bank 300 ft downstream from bridge on State Highway 9, and 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 October 2003 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 889.00 ft above National Geodetic Vertical Datum of 1929 (Indiana Department of Highways bench mark).

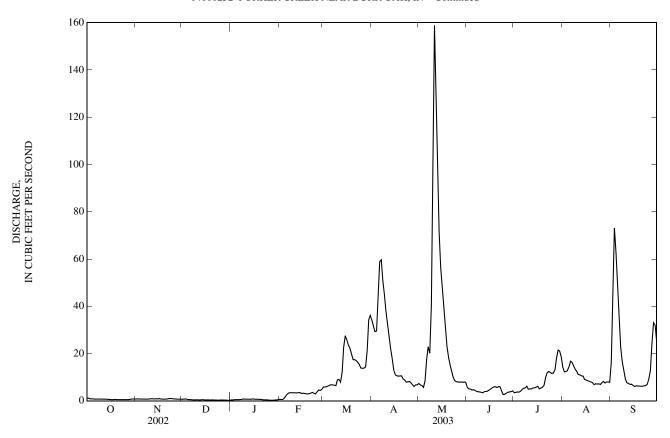
REMARKS.--Records poor. Occasional regulation at Miller Lake Outlet.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

				Dilli	E I WIEZII	TILCES					
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
e1.2	0.76	0.68	0.36	0.64	5.9	34	7.3	5.8	3.4	14	16
e1.1	0.81	0.71	0.38	0.58	5.8	32	6.7	5.1	3.6	12	51
e0.86	0.79	0.80	0.46	0.56	5.9	29	6.4	5.0	3.7	12	73
0.85	0.76	0.61	0.51	1.0	6.2	30	5.7	4.6	3.7	13	63
0.78	0.75	0.51	0.51	2.0	6.6	42	8.4	4.7	4.0	14	46
0.76	0.75	0.52	0.51	2.8	6.8	59	18	4.4	4.8	17	33
0.76	0.76	0.45	0.55	3.3	6.7	60	23	4.0	5.3	16	23
0.73	0.72	0.42	0.63	3.5	6.6	e51	20	3.8	5.5	15	17
0.75	0.76	0.42	0.78	3.4	6.4	e45	40	3.7	6.2	13	13
0.73	0.81	0.45	0.70	3.4	8.9	e38	127	3.6	4.9	12	9.2
0.70	0.87	0.41	0.73	3.4	9.1	e32	159	3.4	5.0	11	7.6
0.70	0.90	0.38	0.67	3.3	7.8	e27	131	3.9	5.1	11	7.4
0.72	0.76	0.43	0.67	3.4	12	e22	99	4.0	5.4	11	6.9
0.65	0.91	0.48	0.71	3.5	23	e18	72	4.1	5.4	10	7.0
0.61	0.81	0.42	0.82	3.1	28	e13	56	4.6	5.7	9.0	6.5
0.52	0.95	0.37	0.68	3.2	26	e11	48	5.0	6.1	8.7	6.1
0.51	0.78	0.42	0.68	3.1	24	11	38	5.5	5.0	8.5	6.4
0.51	0.76	0.35	0.68	3.0	22	10	30	5.9	5.4	8.2	6.3
0.57	0.71	0.35	0.62	2.9	20	11	23	6.0	5.7	7.9	6.2
0.52	0.70	0.42	0.60	3.0	17	11	18	5.6	6.5	7.7	6.2
0.51	0.78	0.34	0.46	3.3	17	9.2	15	6.0	9.6	6.8	6.2
0.50	0.86	0.34	0.42	3.6	17	8.8	12	5.9	12	7.3	6.4
0.49	0.97	0.32	0.42	3.2	16	7.9	9.9	4.0	12	7.1	6.4
0.50	0.93	0.25	0.42	2.9	15	8.0	8.6	2.6	12	7.2	7.0
0.49	0.84	0.34	0.35	3.8	14	8.2	8.1	2.8	12	6.9	9.2
0.52 0.52 0.55 0.71 0.78 0.77	0.80 0.75 0.69 0.74 0.68	0.34 0.34 0.32 0.30 0.21 0.22	0.25 0.28 0.24 0.35 0.38 0.52	4.6 4.4 4.8 	14 14 14 21 34 36	7.6 6.8 6.1 6.8 6.7	8.0 7.8 8.0 7.8 8.0 7.8	3.3 3.6 3.8 3.9 4.2	12 13 18 21 21	7.7 8.2 7.5 8.0 8.0 7.8	13 24 33 32 25
20.87	23.86	12.92	16.34	83.68	466.7	662.1	1,037.5	132.8	262.0	313.5	573.0
0.67	0.80	0.42	0.53	2.99	15.1	22.1	33.5	4.43	8.45	10.1	19.1
1.2	0.97	0.80	0.82	4.8	36	60	159	6.0	21	17	73
0.49	0.68	0.21	0.24	0.56	5.8	6.1	5.7	2.6	3.4	6.8	6.1
0.04	0.04	0.02	0.03	0.16	0.78	1.15	1.74	0.23	0.44	0.53	0.99
0.04	0.05	0.03	0.03	0.16	0.90	1.28	2.01	0.26	0.51	0.61	1.11
ΓICS OF M	ONTHLY M	IEAN DATA	A FOR WAT	ER YEARS	1970 - 2003	, BY WATE	R YEAR (W	Y)			
7.89	12.9	18.1	17.5	23.7	33.7	33.6	19.8	18.8	8.66	4.91	5.36
50.6	48.8	52.5	67.1	62.5	111	60.5	41.9	90.7	49.5	36.4	33.4
(1991)	(1989)	(1978)	(1993)	(1985)	(1982)	(1978)	(1996)	(1981)	(1986)	(1990)	(1990)
0.31	0.25	0.21	0.53	2.96	9.28	9.61	4.70	1.98	0.41	0.25	0.23
(1995)	(1995)	(2000)	(2003)	(1979)	(2000)	(1971)	(1988)	(1988)	(1971)	(1971)	(1978)
RY STATI	STICS		FOR 2002 C	CALENDAR	YEAR	FOR 200	3 WATER Y	EAR	WATER	YEARS 19	70 - 2003
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				6.7 2 May 0.21 Dec 0.30 Dec 0.87 1.82 3 6.4	30	15	9.88 59 May 0.21 Dec 0.30 Dec 67 May 5.23 May 0.51 6.99	230 225 711		0.10 No 0.12 C 480 F	1982 2000 eb 25, 1985 ov 12, 1994 oct 2, 1996 eb 24, 1985 ec 30, 1990
	e1.2 e1.1 e0.86 0.85 0.78 0.76 0.76 0.76 0.73 0.73 0.70 0.70 0.72 0.65 0.61 0.52 0.51 0.57 0.52 0.51 0.50 0.49 0.50 0.49 0.52 0.55 0.71 0.78 0.77 20.87 0.67 1.2 0.49 0.04 0.04 CICS OF Moreover and the second of t	e1.2	e1.2	e1.2	CCT NOV DEC JAN FEB e1.2 0.76 0.68 0.36 0.64 e1.1 0.81 0.71 0.38 0.58 e0.86 0.79 0.80 0.46 0.56 0.85 0.76 0.61 0.51 1.0 0.78 0.75 0.51 0.51 2.0 0.76 0.75 0.52 0.51 2.8 0.76 0.76 0.45 0.55 3.3 0.73 0.72 0.42 0.63 3.5 0.75 0.76 0.42 0.78 3.4 0.73 0.81 0.45 0.70 3.4 0.70 0.87 0.41 0.73 3.4 0.70 0.87 0.41 0.73 3.4 0.70 0.87 0.41 0.73 3.4 0.70 0.87 0.41 0.73 3.4 0.65 0.91 0.48 0.71 3.5 0.61 0.81 0.42 0.82 3.1 0.52 0.95 0.37 0.68 3.2 0.51 0.78 0.42 0.68 3.1 0.51 0.76 0.35 0.68 3.0 0.57 0.71 0.35 0.62 2.9 0.52 0.70 0.42 0.60 3.0 0.57 0.71 0.35 0.62 2.9 0.52 0.70 0.42 0.60 3.0 0.51 0.78 0.34 0.46 3.3 0.50 0.86 0.34 0.42 3.6 0.49 0.97 0.32 0.42 3.2 0.50 0.86 0.34 0.42 3.6 0.49 0.97 0.32 0.42 2.9 0.49 0.84 0.34 0.35 3.8 0.52 0.80 0.34 0.25 4.6 0.52 0.75 0.34 0.25 4.6 0.52 0.75 0.34 0.35 3.8 0.52 0.80 0.34 0.25 4.6 0.52 0.75 0.34 0.25 4.6 0.52 0.75 0.34 0.25 4.6 0.52 0.75 0.34 0.28 4.8 0.52 0.80 0.34 0.25 4.6 0.52 0.75 0.34 0.28 4.8 0.51 0.74 0.30 0.35 0.8 0.52 0.80 0.34 0.25 4.6 0.52 0.75 0.34 0.25 4.6 0.52 0.75 0.34 0.28 4.4 0.55 0.69 0.32 0.42 2.9 0.49 0.84 0.34 0.35 3.8 0.52 0.80 0.34 0.25 4.6 0.52 0.75 0.34 0.28 4.4 0.55 0.69 0.32 0.42 2.9 0.49 0.84 0.34 0.35 3.8 0.52 0.80 0.34 0.25 4.6 0.52 0.75 0.34 0.28 4.4 0.55 0.69 0.32 0.24 4.8 0.71 0.74 0.30 0.35 0.78 0.68 0.21 0.38 0.79 0.80 0.82 4.8 0.67 0.80 0.42 0.53 2.99 1.2 0.97 0.80 0.82 4.8 0.67 0.80 0.42 0.53 2.99 1.2 0.97 0.80 0.82 4.8 0.67 0.80 0.42 0.53 2.99 1.2 0.97 0.80 0.82 4.8 0.67 0.80 0.42 0.53 2.99 1.2 0.97 0.80 0.82 4.8 0.60 0.90 0.90 0.90 0.90 0.90 0.90 0.90	OCT NOV DEC JAN FEB MAR e1.2 0.76 0.68 0.36 0.64 5.9 e1.1 0.81 0.71 0.38 0.58 5.8 e0.86 0.79 0.80 0.46 0.56 5.9 0.85 0.76 0.61 0.51 1.0 6.2 0.78 0.75 0.51 0.51 2.0 6.6 0.76 0.75 0.52 0.51 2.8 6.8 0.76 0.76 0.76 0.45 0.55 3.3 6.7 0.73 0.72 0.42 0.63 3.5 6.6 0.75 0.76 0.42 0.78 3.4 6.4 0.73 0.72 0.42 0.63 3.5 6.6 0.75 0.76 0.45 0.70 3.4 8.9 0.70 0.87 0.41 0.73 3.4 9.1 0.70 0.87 0.41 0.73 3.4 9.1 0.70 0.90 0.38 0.67 3.3 7.8 0.72 0.76 0.43 0.67 3.4 12 0.65 0.91 0.48 0.71 3.5 23 0.65 0.91 0.48 0.71 3.5 23 0.61 0.81 0.42 0.82 3.1 28 0.52 0.95 0.37 0.68 3.2 26 0.51 0.76 0.35 0.68 3.0 22 0.57 0.71 0.35 0.62 2.9 20 0.51 0.76 0.35 0.68 3.0 22 0.57 0.71 0.35 0.62 2.9 20 0.52 0.70 0.42 0.60 3.0 17 0.51 0.78 0.34 0.46 3.3 17 0.50 0.86 0.34 0.42 3.6 17 0.50 0.86 0.34 0.42 3.6 17 0.50 0.86 0.34 0.42 3.2 16 0.52 0.93 0.25 0.42 2.9 15 0.49 0.84 0.34 0.35 3.8 14 0.52 0.80 0.34 0.25 4.6 14 0.55 0.69 0.32 0.24 4.8 14 0.50 0.90 0.30 0.35 21 0.70 0.80 0.42 0.53 2.99 15.1 0.70 0.70 0.90 0.30 0.30 0.30 0.30 0.16 0.78 0.60 0.40 0.04 0.02 0.03 0.16 0.78 0.60 0.40 0.04 0.02 0.03 0.16 0.78 0.60 0.40 0.04 0.02 0.03 0.16 0.78 0.04 0.04 0.04 0.02 0.03 0.16 0.78 0.04 0.04 0.05 0.03 0.03 0.16 0.78 0.04 0.04 0.05 0.03 0.03 0.16 0.78 0.04 0.04 0.05 0.03 0.03 0.00 0.00 0.00 0.00 0.00	e1.2	OCT NOV DEC JAN FEB MAR APR MAY c1.2 0.76 0.68 0.36 0.64 5.9 34 7.3 c1.1 0.81 0.71 0.38 0.58 5.8 32 6.7 c1.1 0.81 0.71 0.38 0.58 5.8 32 6.7 c1.2 0.76 0.61 0.51 1.0 6.2 30 5.7 c1.2 0.76 0.61 0.51 1.0 6.2 30 5.7 c1.3 0.75 0.51 0.51 0.51 0.6 42 8.4 c1.4 0.76 0.75 0.52 0.51 0.51 0.6 642 8.4 c1.5 0.76 0.76 0.45 0.55 33 6.7 60 0.23 c1.73 0.72 0.42 0.63 3.5 6.6 est 20 c1.75 0.76 0.42 0.63 3.5 6.6 est 20 c1.75 0.76 0.42 0.78 3.4 6.4 e45 40 c1.75 0.70 0.87 0.41 0.73 3.4 9.1 e32 159 c1.70 0.70 0.87 0.41 0.73 3.4 9.1 e32 159 c1.70 0.70 0.90 0.38 0.67 3.3 7.8 e27 131 c1.70 0.70 0.81 0.42 0.82 3.1 28 e13 56 c1.6 0.51 0.78 0.42 0.88 3.1 28 e13 56 c1.5 0.50 0.91 0.48 0.71 3.5 23 e18 72 c1.6 0.5 0.91 0.48 0.71 3.5 23 e18 72 c1.6 0.5 0.91 0.48 0.71 3.5 23 e18 72 c1.6 0.5 0.95 0.37 0.68 3.1 24 11 38 c1.5 0.51 0.78 0.42 0.68 3.1 24 11 38 c1.5 0.51 0.78 0.42 0.68 3.1 24 11 38 c1.5 0.51 0.78 0.42 0.60 3.0 17 11 18 c1.5 0.51 0.78 0.42 0.60 3.0 17 11 18 c1.5 0.51 0.78 0.34 0.46 3.3 17 9.2 15 c1.5 0.52 0.90 0.32 0.60 3.0 17 11 18 c1.5 0.51 0.78 0.34 0.42 3.6 17 8.8 12 c1.5 0.52 0.70 0.42 0.60 3.0 17 11 18 c1.5 0.51 0.78 0.34 0.42 3.6 17 8.8 12 c1.5 0.52 0.70 0.42 0.60 3.0 17 11 18 c1.5 0.51 0.78 0.34 0.42 3.6 17 8.8 12 c1.5 0.50 0.86 0.34 0.42 3.6 17 8.8 12 c1.5 0.50 0.86 0.34 0.42 3.6 17 8.8 12 c1.5 0.50 0.86 0.34 0.42 3.6 17 8.8 12 c1.5 0.50 0.93 0.35 0.68 3.0 22 10 30 c1.5 0.50 0.93 0.25 0.42 3.2 166 7.9 9.9 c1.5 0.50 0.93 0.25 0.42 3.9 15 8.0 8.6 c1.5 0.52 0.70 0.42 0.60 3.0 17 11 18 c1.5 0.50 0.86 0.34 0.42 3.6 17 8.8 12 c1.5 0.50 0.93 0.34 0.42 3.6 17 8.8 12 c1.5 0.50 0.93 0.34 0.42 3.6 17 8.8 12 c1.5 0.50 0.93 0.35 0.88 3.0 22 10 c1.5 0.50 0.93 0.25 0.42 3.9 16 7.9 9.9 c1.5 0.50 0.93 0.25 0.42 3.9 16 7.9 9.9 c1.5 0.50 0.93 0.25 0.42 3.9 16 7.9 9.9 c1.5 0.50 0.93 0.25 0.42 3.9 16 7.9 9.9 c1.5 0.50 0.93 0.25 0.25 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.3	COCT NOV DEC JAN FEB MAR APR MAY JUN	OCT	OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG

e Estimated

04100252 FORKER CREEK NEAR BURR OAK, IN—Continued



04100377 SOLOMON CREEK NEAR SYRACUSE, IN

LOCATION.--Lat $41^{\circ}27'30''$, long $85^{\circ}43'12''$, in NW $^{1}_{4}$ SE $^{1}_{4}$ sec.28, T.35 N., R.7 E., Elkhart County, Hydrologic Unit 04050001, (LAKE WAWASEE, IN quadrangle), on right bank 40 ft upstream from County Road 52 East bridge over Solomon Creek, and 2.5 mi northeast of Syracuse, and 6.8 mi west of Ligonier.

DRAINAGE AREA.--36.1 mi².

PERIOD OF RECORD.--October 1987 to October 2003 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 840.00 ft above National Geodetic Vertical Datum of 1929.

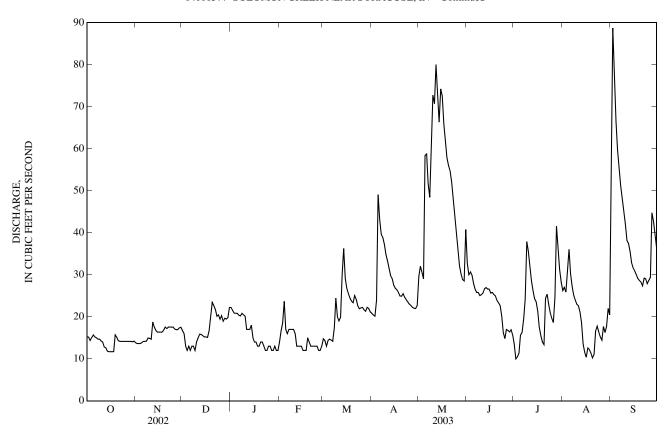
REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

				DAII	LI MILAIN	ALUES					
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
15 15 14 15 16	14 14 14 14 14	17 e16 e13 e12 e13	22 22 21 21 21	e14 17 19 24 e17	15 14 e13 14 15	21 20 20 24 49	30 32 31 29 58	33 30 31 30 28	13 9.9 10 11 16	26 27 26 31 36	54 89 77 67 60
15 15 15 15 14	14 14 14 15 15	e12 e13 e13 e12 e14	20 20 21 20 20	e16 e17 e17 e17 e17	14 14 17 24 e20	43 40 39 37 35	59 52 48 64 73	27 26 26 25 25	16 19 24 38 36	30 27 25 24 23	55 51 48 45 42
14 13 13 12 12	15 19 18 17 16	e15 16 16 15 15	e17 e17 e17 e18 e15	e16 e13 e13 e13 e13	e19 20 30 36 29	33 32 30 29 28	71 80 74 66 74	26 27 27 27 27	32 29 26 24 24	23 21 19 14 12	38 37 36 33 32
12 12 12 16 15	16 16 16 17 18	15 15 17 20 23	e14 e14 e13 e13 e14	e12 e12 e12 e15 e14	27 26 25 24 23	27 26 26 25 25	73 66 61 58 56	26 26 25 25 24	21 17 15 14 13	10 13 12 11 10	31 30 29 29 28
14 14 14 14 14	17 18 18 18 18	23 22 20 20 19	e14 e13 e12 e12 e13	e13 e13 e13 e13	25 24 23 22 22	26 25 24 24 23	55 52 49 45 41	23 23 20 16 15	24 25 23 21 20	11 17 18 16 15	27 29 29 28 29
14 14 14 14 14	17 17 17 17 17	20 19 20 19 20 22	e13 e12 e12 e13 e12 e12	e12 e12 e13	22 22 21 22 22 22	23 22 22 22 22 23	36 32 30 29 29 41	17 17 16 17 16	19 25 42 36 31 28	14 18 16 18 22 20	29 45 43 39 36
434 14.0 16 12 0.39 0.45	484 16.1 19 14 0.45 0.50	526 17.0 23 12 0.47 0.54	498 16.1 22 12 0.45 0.51	410 14.6 24 12 0.41 0.42	665 21.5 36 13 0.59 0.69	843 28.1 49 20 0.78 0.87	1,594 51.4 80 29 1.42 1.64	721 24.0 33 15 0.67 0.74	701.9 22.6 42 9.9 0.63 0.72	605 19.5 36 10 0.54 0.62	1,245 41.5 89 27 1.15 1.28
ICS OF MO	ONTHLY M	EAN DATA	A FOR WATI	ER YEARS	1988 - 2003	BY WATE	R YEAR (W	Y)			
26.0 72.8 (2002) 11.2 (1996)	30.5 60.1 (1993) 12.5 (2000)	32.0 60.3 (1991) 14.8 (1990)	39.5 94.8 (1993) 13.7 (2000)	40.5 79.9 (2001) 14.6 (2003)	44.0 75.4 (1998) 18.7 (2000)	51.1 91.2 (2002) 23.4 (2000)	44.5 86.9 (2002) 24.4 (1989)	47.0 82.3 (1993) 16.5 (1988)	29.0 56.3 (1997) 12.1 (1988)	21.5 38.3 (2001) 10.5 (1988)	21.8 41.5 (2003) 11.7 (1994)
RY STATIS	STICS		FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	EAR	WATER	YEARS 198	8 - 2003
ANNUAL T DAILY M DAILY M SEVEN-D JM PEAK F RUNOFF RUNOFF ENT EXCE	MEAN IEAN EAN AY MINIM FLOW STAGE (CFSM) (INCHES) EDS EDS	UM	242 6 8 1 16 86 32	2. May 5.8 Sep 8.6 Aug	1	\$ 1 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	3.9 Sep 9.9 Jul 11 Aug 11 Sep 3.98 Sep 0.66 8.99 41	1 2 ; 15 2 2		6.3 Sej 7.0 Sej 333 Jui	2002 2000 n 9, 1993 p 6, 2000 p 2, 2000 n 8, 1993 n 8, 1993
	15 15 14 15 16 15 16 15 15 15 15 15 15 15 14 14 14 13 13 12 12 12 12 12 16 15 14 14 14 14 14 14 14 14 14 14 14 14 14	15 14 15 14 15 14 16 14 15 14 16 14 15 14 15 14 15 14 15 14 15 15 14 15 15 14 15 15 14 15 15 14 15 15 14 15 15 14 15 15 14 15 14 15 13 19 13 18 12 17 12 16 12 16 12 16 12 16 12 16 12 16 12 16 14 17 15 18 14 17 14 18 14 18 14 18 14 18 14 18 14 18 14 18 14 18 14 18 14 18 14 17 14 17 14 17 14 17 14 17 14 17 14 17 14 17 14 17 14 17 14 17 14 17 14 17 14 17 14 17 14 17 14 17 14 17 14 17 15 18 16 19 17 19 10 10 10 10 10 10 10 10 10 10 10 10 10	15 14 17 15 14 e16 14 14 e13 15 14 e12 16 14 e13 15 14 e12 16 14 e13 15 15 e12 15 14 e13 15 15 e12 14 15 e14 14 15 e15 13 19 16 13 18 16 12 17 15 12 16 15 12 16 15 12 16 15 12 16 15 12 16 17 12 16 15 12 16 17 16 17 20 15 18 23 14 17 23 14 18 22 14 18 20 14 18 19 14 17 20 14 18 19 14 17 19 14 17 19 14 17 19 14 17 19 14 17 19 14 17 19 14 17 19 14 17 19 14 17 19 14 17 19 14 17 19 14 17 19 14 17 20 14 17 19 14 17 19 14 17 19 14 17 20 15 18 23 16 17 20 17 20 18 20 19 20 19 20 19 20 10 20	15 14 17 22 14 14 14 e16 22 14 14 14 e13 21 15 14 e12 21 16 14 e13 21 15 14 e13 21 15 14 e13 21 15 14 e13 20 15 14 e13 20 15 14 e13 20 15 14 e13 21 15 15 e14 e13 20 16 15 14 e13 21 17 15 e14 e13 20 18 16 e17 19 17 15 e18 10 16 e17 11 15 e18 11 16 15 e15 11 16 15 e14 11 16 15 e15 11 16 15 e14 11 16 15 e15 11 16 15 e14 11 17 19 e13 11 18 16 e17 11 18 20 e12 11 18 20 e12 11 18 19 e13 11 18 19 e13 11 18 19 e13 11 17 20 e13 11 18 19 e13 11 17 20 e12 11 17 19 e13 11 17 20 e12 11 17 20 e13 11 20 e12 11 20 e12 11 21 21 20 e12 12 21 21 21 20 e12 13 22 20 20 14 21 21 20 e12 14 21 21 20 e12 15 21 21 21 21 20 e12 16 21 21 21 21 20 e12 17 21 21 21 20 e12 18 21 21 21 20 e12 19 21 21 21 21 20 e12 19 21 21 21 21 20 e12 10 21 21 21 21 20 e12 11 21 21 21 21 20 e12 11 21 21 21 21 21 21 21 21 21 21 21 21 2	OCT NOV DEC JAN FEB 15	OCT NOV DEC JAN FEB MAR 15	15	OCT NOV DEC JAN FEB MAR APR MAY 15 14 17 22 e14 15 21 30 15 14 e16 22 17 14 20 32 15 14 e13 21 19 e13 20 31 15 14 e12 21 24 14 24 29 16 14 e13 21 e17 15 49 58 15 14 e13 20 e16 14 43 59 15 14 e13 20 e17 14 40 52 15 14 e13 20 e17 17 39 48 15 15 14 e13 20 e17 17 39 48 15 15 14 e13 20 e17 17 39 48 15 15 14 e13 20 e17 17 39 48 15 15 14 e13 20 e17 17 39 48 15 15 14 e13 20 e17 24 37 64 11 15 e14 20 e17 20 e17 20 35 73 14 15 e14 e13 21 e17 17 39 48 15 15 15 e12 20 e17 e20 35 73 14 15 e14 e13 21 e17 77 24 37 64 14 15 e14 20 e17 e20 35 73 14 15 e15 e14 e17 e13 20 32 80 13 18 16 e17 e13 30 30 74 12 16 15 e18 e13 36 29 66 12 16 15 e18 e13 36 29 28 74 12 16 15 e14 e12 27 27 73 12 16 15 e14 e12 26 26 66 66 12 16 15 e14 e12 26 26 66 66 12 16 17 e13 e12 25 26 61 12 16 15 e14 e12 26 26 66 66 12 16 17 e13 e12 25 26 61 14 17 23 e14 e14 23 25 56 14 17 23 e14 e14 23 25 56 14 18 22 e13 e13 24 25 58 15 18 23 e14 e14 23 25 26 55 14 18 20 e12 e13 23 24 49 14 18 20 e12 e13 22 22 23 34 14 18 20 e12 e13 22 22 24 49 14 18 20 e12 e13 22 22 24 49 14 18 20 e12 e13 23 24 49 14 17 20 e13 e13 22 24 49 14 18 20 e12 e13 22 22 23 34 14 17 20 e13 e13 22 24 49 14 17 19 e13 e13 22 22 30 14 17 17 19 e13 e13 22 22 30 14 17 19 e13 e13 22 23 34 14 17 19 e13 e13 22 24 35 15 EXPENDAY MINIMUM 26.0 30.5 32.0 39.5 40.5 44.0 51.1 44.5 10 AND	OCT NOV DEC JAN FEB MAR APR MAY JUN 15 14 17 22 e14 15 21 30 33 33 15 14 e16 22 17 114 20 32 30 33 14 14 14 e13 21 19 e13 20 31 31 15 14 e12 21 24 414 24 29 30 16 14 e13 21 e17 15 49 58 28 15 14 e13 20 e16 14 40 52 26 15 14 e13 20 e17 14 40 52 26 15 14 e13 21 e17 17 39 48 26 15 14 e13 21 e17 17 39 48 26 15 14 e13 20 e17 24 37 64 25 15 14 e13 20 e17 24 37 64 25 15 15 14 e13 20 e17 24 37 64 25 15 14 e13 20 e17 24 37 64 25 16 15 14 e13 20 e17 24 37 64 25 17 15 15 e12 20 e16 e19 33 71 26 18 19 16 e17 e13 20 32 80 27 11 15 15 e14 e15 e17 e16 e19 33 71 26 13 19 16 e17 e13 20 32 80 27 12 17 15 e18 e13 36 29 28 74 27 12 16 15 e15 e15 e17 e13 29 28 74 27 12 16 15 e14 e12 26 26 66 66 26 12 16 17 e13 e12 29 28 74 27 12 16 15 e14 e12 25 26 66 12 25 16 17 e13 e14 e12 26 26 26 66 26 17 12 16 15 e14 e12 26 26 26 66 26 18 23 e14 e14 23 25 56 24 14 18 20 e12 e13 e15 24 25 58 25 14 18 23 e14 e14 23 25 25 56 24 14 18 20 e12 e13 e15 24 25 58 25 14 18 20 e12 e13 e22 27 27 7 73 26 16 17 e13 e13 e15 24 25 56 21 14 18 20 e12 e13 e22 23 34 11 15 18 20 e12 e13 22 24 45 16 14 18 20 e12 e13 22 22 23 36 17 14 18 20 e12 e13 22 24 45 16 14 18 20 e12 e13 22 22 23 36 17 14 18 20 e12 e13 22 22 23 36 17 14 17 20 e13 e12 e13 22 22 23 36 17 14 18 20 e12 e13 22 24 45 16 14 17 20 e13 e12 e13 22 22 23 36 17 14 17 20 e13 e12 e13 22 22 23 36 17 14 17 19 e12 e13 e12 e12 e13 20 e12 e13 22 24 45 16 14 17 19 e12 e13 e13 22 22 24 36 49 80 33 12 14 18 20 e12 e13 e13 20 e12 e13 22 24 45 16 14 17 19 e13 e12 e13 e13 20 e14 e19 23 25 56 24 17 14 17 19 e12 e13 e13 22 22 23 36 17 14 17 19 e13 e12 e13 e13 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT NOV DEC	OCT NOV DEC

e Estimated

04100377 SOLOMON CREEK NEAR SYRACUSE, IN—Continued



04100500 ELKHART RIVER AT GOSHEN, IN

LOCATION.--Lat $41^{\circ}35^{\circ}36^{\circ}$, long $85^{\circ}50^{\circ}55^{\circ}$, in NE $^{1}_{4}$ NE $^{1}_{4}$ sec.8, T.36 N., R.6 E., Elkhart County, Hydrologic Unit 04050001, (GOSHEN, IN quadrangle), on right bank 20 ft downstream from River Avenue bridge at Goshen, 0.4 mi upstream from Rock Run, 9.1 mi northwest of Millersburg and at mile 16.1.

DRAINAGE AREA.--594 mi².

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

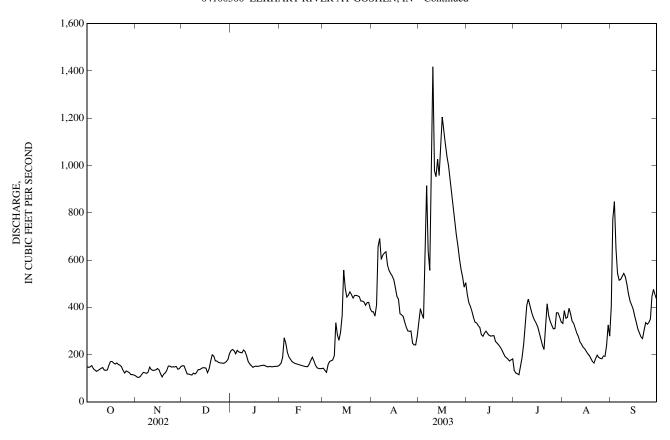
REVISED RECORDS.--WSP 1337: 1939(M). WSP 1557: 1954. WSP 2111: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 769.43 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 20, 1931, nonrecording gage at same site and datum.

REMARKS.--Records fair except estimated daily discharges, which are poor. Occasional low-flow regulation at Goshen Dam, 3.4 mi upstream.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	148	110	153	216	155	e142	381	332	454	133	332	404
2	145	105	152	221	163	e133	381	394	419	122	386	773
3	148	103	135	216	188	e125	362	372	403	119	353	848
4	153	107	e118	203	271	157	410	352	382	115	358	646
5	140	116	e117	218	249	170	656	611	355	149	396	545
6	134	124	e115	211	e210	174	691	915	337	187	373	514
7	129	122	113	209	e190	176	602	639	333	245	340	518
8	133	121	121	207	e180	195	620	556	322	333	332	531
9	137	125	118	219	e170	334	630	994	315	409	312	543
10	142	146	124	213	e166	283	635	1,420	284	434	290	529
11	145	137	136	194	e162	260	579	978	277	408	276	496
12	134	133	136	e170	e160	295	556	952	291	382	253	456
13	134	134	141	e160	e158	364	543	1,030	299	361	244	426
14	135	135	145	e153	e156	557	533	958	288	345	231	410
15	155	141	144	e146	e154	480	517	1,090	281	333	225	392
16	171	136	142	e150	e152	443	484	1,210	278	317	214	362
17	171	118	123	e151	e150	451	447	1,150	279	291	203	336
18	164	105	140	e150	e149	465	434	1,090	280	265	196	309
19	160	117	173	e151	e149	453	373	1,040	256	240	183	292
20	164	122	199	e153	e160	439	368	998	249	221	170	275
21	158	134	194	e154	175	450	362	942	241	327	164	268
22	155	151	174	e155	188	450	337	880	232	415	183	305
23	149	151	172	e152	174	448	316	826	220	364	197	335
24	134	146	e167	e149	e155	445	300	767	207	341	188	329
25	122	149	e165	e148	e144	426	298	707	193	324	184	335
26 27 28 29 30 31	130 127 124 115 115 113	148 150 138 140 149	e164 e163 e165 e170 179 203	e150 e148 e149 e150 e150 e151	e141 e140 e141 	426 422 409 420 421 393	299 248 241 241 278	660 603 561 527 485 504	186 180 172 178 182	309 310 377 377 360 338	182 194 193 238 325 278	350 445 476 452 433
TOTAL	4,384	3,913	4,661	5,367	4,750	10,806	13,122	24,543	8,373	9,251	7,993	
MEAN	141	130	150	173	170	349	437	792	279	298	258	
MAX	171	151	203	221	271	557	691	1,420	454	434	396	
MIN	113	103	113	146	140	125	241	332	172	115	164	
CFSM	0.24	0.22	0.25	0.29	0.29	0.59	0.74	1.33	0.47	0.50	0.4	
IN.	0.27	0.25	0.29	0.34	0.30	0.68	0.82	1.54	0.52	0.58	0.5	
STATIST	TICS OF MO	ONTHLY M		FOR WAT	ER YEARS	1932 - 2003,		,				
MEAN	318	392	495	590	702	930	942	718	514	357	271	58.5
MAX	1,652	1,132	1,276	2,058	1,657	2,497	2,424	2,354	1,521	1,079	712	
(WY)	(1955)	(1973)	(1983)	(1993)	(1959)	(1982)	(1950)	(1943)	(1996)	(1951)	(1958	
MIN	75.9	95.9	122	122	108	301	363	222	101	94.0	73.0	
(WY)	(1965)	(1965)	(1964)	(1963)	(1963)	(1964)	(1946)	(1958)	(1934)	(1934)	(1941	
SUMMA	RY STATIS	STICS]	FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	YEAR	WATER	YEARS 1	1932 - 2003
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS				FOR 2002 CALENDAR YEAR 227,643 624 4,160 May 13 103 Nov 3 110 Oct 29			110,496 303 1,420 May 10 103 Nov 3 110 Oct 29 1,550 May 10 4.96 May 10 0.51 6.92 549			539 1,005 197 197 6,010 Feb 24, 1985 7.0 Aug 11, 1964 50 Sep 21, 1941 6,360 Feb 24, 1985 11.94 Mar 14, 1982 7.0 Aug 11, 1964 0.91 12.33 1,110		
	ENT EXCE			415 134			22 13			389 155		

04100500 ELKHART RIVER AT GOSHEN, IN—Continued



04101000 ST. JOSEPH RIVER AT ELKHART, IN

LOCATION.--Lat $41^{\circ}41^{\circ}30^{\circ}$, $\log 85^{\circ}58^{\circ}30^{\circ}$, in $SW^{1}_{4}NE^{1}_{4}$ sec.5, T.37 N., R.5 E., Elkhart County, Hydrologic Unit 04050001, (ELKHART, IN quadrangle), 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 National Geodetic Vertical Datum of 1929.

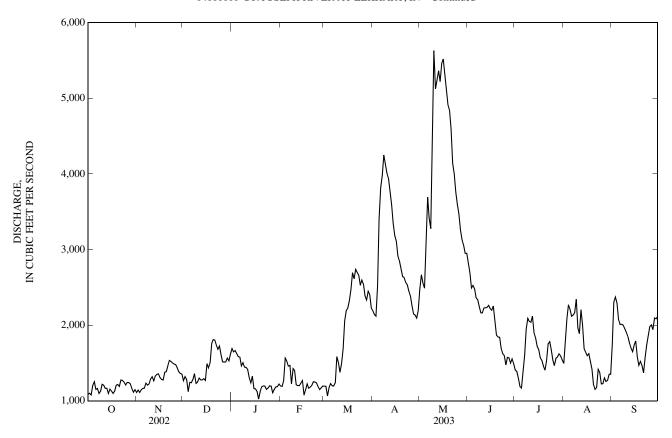
REMARKS.--Records good. The flow is regulated by Elkhart Hydroelectric Plant.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,090	1,110	1,270	1,690	1,200	1,190	2,190	2,470	2,820	1,410	1,500	1,740
2	1,100	1,140	1,320	1,650	1,190	1,190	2,140	2,670	2,700	1,390	1,800	2,300
3	1,080	1,110	1,280	1,660	1,270	1,060	2,120	2,560	2,490	1,300	2,090	2,370
4	1,200	1,150	1,120	1,630	1,560	1,170	2,520	2,490	2,530	1,190	2,270	2,290
5	1,250	1,160	1,240	1,590	1,530	1,230	3,400	3,190	2,480	1,170	2,210	2,080
6	1,150	1,170	1,240	1,580	1,460	1,200	3,820	3,690	2,360	1,400	2,120	2,010
7	1,160	1,230	1,280	1,460	1,470	1,200	3,980	3,420	2,340	1,610	2,130	2,010
8	1,100	1,210	1,360	1,500	1,220	1,240	4,250	3,280	2,250	1,950	2,170	2,000
9	1,130	1,220	1,230	1,450	1,430	1,590	4,130	4,510	2,160	2,090	2,340	1,960
10	1,220	1,290	1,250	1,440	1,400	1,500	4,010	5,630	2,160	2,050	1,960	1,910
11	1,210	1,320	1,300	1,420	1,210	1,380	3,940	5,120	2,230	2,040	1,890	1,850
12	1,170	1,260	1,280	1,310	1,200	1,490	3,770	5,230	2,230	2,120	2,210	1,770
13	1,170	1,330	1,280	1,240	1,200	1,690	3,590	5,360	2,240	1,900	2,010	1,700
14	1,100	1,350	1,290	1,320	1,230	2,060	3,350	5,220	2,260	1,830	1,690	1,650
15	1,150	1,360	1,270	1,160	1,270	2,200	3,190	5,460	2,220	1,720	1,640	1,740
16	1,130	1,310	1,490	1,160	1,080	2,230	3,110	5,520	2,200	1,680	1,600	1,790
17	1,100	1,280	1,430	1,120	1,140	2,330	2,920	5,330	2,250	1,570	1,620	1,580
18	1,130	1,280	1,500	1,020	1,220	2,470	2,850	5,120	2,070	1,530	1,520	1,470
19	1,210	1,380	1,760	1,120	1,170	2,690	2,750	4,910	1,870	1,460	1,420	1,520
20	1,220	1,380	1,810	1,180	1,180	2,610	2,640	4,840	1,840	1,410	1,220	1,470
21	1,190	1,460	1,800	1,200	1,200	2,740	2,630	4,590	1,840	1,530	1,150	1,370
22	1,280	1,530	1,740	1,190	1,250	2,700	2,570	4,140	1,690	1,750	1,180	1,580
23	1,270	1,520	1,680	1,150	1,250	2,660	2,530	4,010	1,620	1,780	1,420	1,740
24	1,250	1,500	1,720	1,170	1,240	2,530	2,450	3,760	1,600	1,680	1,380	1,860
25	1,210	1,490	1,610	1,200	1,190	2,600	2,390	3,600	1,470	1,540	1,220	1,980
26 27 28 29 30 31	1,240 1,240 1,230 1,160 1,110 1,150	1,480 1,440 1,380 1,360 1,350	1,520 1,510 1,520 1,570 1,530 1,620	1,190 1,110 1,150 1,180 1,190 1,220	1,150 1,170 1,190 	2,540 2,390 2,330 2,450 2,410 2,230	2,260 2,150 2,140 2,090 2,190	3,470 3,250 3,130 3,060 2,950 2,950	1,570 1,570 1,500 1,560 1,490	1,470 1,560 1,580 1,620 1,590 1,540	1,230 1,300 1,250 1,270 1,350 1,350	2,000 1,940 2,100 2,080 2,120
TOTAL	36,400	39,550	44,820	40,650	35,270	61,300	88,070	124,930	61,610	50,460	51,510	55,980
MEAN	1,174	1,318	1,446	1,311	1,260	1,977	2,936	4,030	2,054	1,628	1,662	1,866
MAX	1,280	1,530	1,810	1,690	1,560	2,740	4,250	5,630	2,820	2,120	2,340	2,370
MIN	1,080	1,110	1,120	1,020	1,080	1,060	2,090	2,470	1,470	1,170	1,150	1,370
CFSM	0.35	0.39	0.43	0.39	0.37	0.59	0.87	1.20	0.61	0.48	0.49	0.55
IN.	0.40	0.44	0.49	0.45	0.39	0.68	0.97	1.38	0.68	0.56	0.57	0.62
STATIST	TCS OF MO	ONTHLY M	EAN DATA	A FOR WATI	ER YEARS	1948 - 2003	, BY WATE	R YEAR (W	Y)			
MEAN	2,197	2,614	3,164	3,544	3,885	5,029	5,153	4,135	3,259	2,350	1,955	1,885
MAX	5,752	5,883	5,795	9,270	7,039	10,760	12,690	7,725	7,535	4,409	4,180	3,855
(WY)	(1987)	(1993)	(1991)	(1993)	(1968)	(1982)	(1950)	(1956)	(1989)	(1968)	(1981)	(1981)
MIN	791	856	958	1,127	1,120	1,679	2,633	1,911	1,280	898	737	721
(WY)	(1964)	(1965)	(1964)	(1964)	(1963)	(1964)	(1958)	(1958)	(1988)	(1988)	(1964)	(1964)
SUMMA	RY STATIS	STICS		FOR 2002 C.	ALENDAR	YEAR	FOR 200	3 WATER Y	/EAR	WATER	YEARS 19	948 - 2003
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN				1,103,603 3,024 10,200		13	690,550 1,892 5,630 May 10			3,2 5,2 1,2 18,5	264 283 600 M	1950 1964 Iar 21, 1982
LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (CFSM)			IUM	900 962 0			1,020 Jan 18 1,130 Oct 29 5,960 May 15 21.28 May 15 0.56				661 A 800 F	ug 5, 1964 ug 2, 1964 feb 27, 1985 Iar 21, 1982
ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS					.18			7.62 80 60			13.14 790 780	

STREAMS TRIBUTARY TO LAKE MICHIGAN

04101000 ST. JOSEPH RIVER AT ELKHART, IN—Continued



04101370 JUDAY CREEK NEAR SOUTH BEND, IN

LOCATION.--Lat $41^{\circ}43^{\circ}43^{\circ}$, $\log 85^{\circ}15^{\circ}46^{\circ}$, in $NW^{1}_{4}SE^{1}_{4}$ sec .23, T. 38 N., R. 2 E., St. Joseph County, Hydrologic Unit 04050001, (SOUTH BEND WEST, IN quadrangle), on right bank at downstream side of bridge on access road to Izaak Walton League property, 0.1 mi south of Darden Road in Roseland, 0.5 mi northeast of intersection of St. Joseph River and Interstate 80/90, 0.6 mi from mouth.

DRAINAGE AREA.--Approx. 38 mi².

PERIOD OF RECORD.--October 1992 to current year.

GAGE.--Water-stage recorder. Datum of gage is about 690.00 ft above National Geodetic Vertical Datum of 1929.

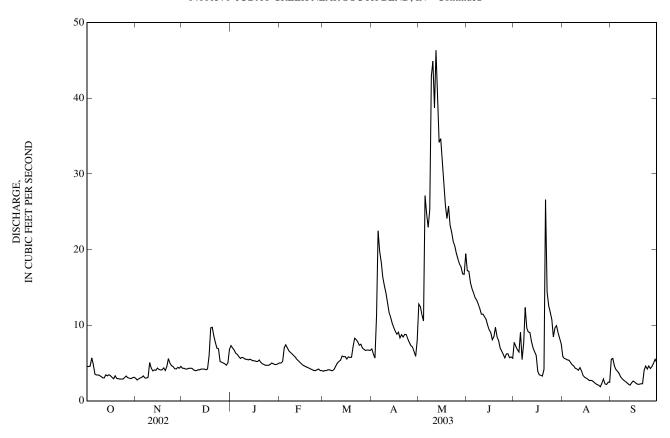
REMARKS.--Records fair except for estimated daily discharges, which are poor

REMARI	KSRecord	s fair except	for estimate	ed daily disch	narges, which	h are poor.						
	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	4.5 4.5 4.6 5.7 4.8	3.0 2.8 2.9 3.0 3.1	e4.3 e4.2 e4.2 e4.3	7.3 7.0 6.7 6.3 6.1	e5.0 e5.0 e5.2 e7.0 e7.4	e3.9 e4.0 e4.0 e4.1 e4.1	6.9 6.2 5.7 11 22	13 12 11 11 27	17 17 16 15 14	7.7 7.2 6.8 6.5 9.1	5.9 5.6 5.5 5.4 5.4	5.5 5.6 4.6 4.1 3.9
6 7 8 9 10	3.5 3.4 3.4 3.3 3.2	3.3 3.0 3.0 3.1 5.1	e4.3 e4.3 e4.1 e4.0 e4.0	5.8 5.6 5.7 5.7 e5.5	e7.0 e6.6 e6.4 e6.2 e6.0	e4.0 e4.0 e4.2 e4.6 e5.0	20 18 16 15 14	25 23 25 43 45	14 13 13 12 11	5.5 7.6 12 9.6 9.1	5.1 4.8 4.6 4.3 4.2	3.6 3.2 2.9 2.7 2.6
11 12 13 14 15	3.0 3.0 3.4 3.3 3.5	4.3 4.0 4.1 4.0 4.3	e4.1 e4.1 e4.2 e4.2 e4.2	e5.5 e5.4 e5.5 e5.4 e5.3	e5.8 e5.5 e5.3 e5.1 e4.9	e5.2 5.4 5.9 5.8 5.8	13 12 11 10 9.7	39 46 40 34 35	11 11 11 10 9.4	9.0 7.9 7.0 6.5 6.0	4.0 4.4 4.0 3.4 3.1	2.4 2.2 2.1 2.4 2.6
16 17 18 19 20	3.3 3.1 2.9 3.3 3.0	4.1 4.1 4.1 4.3 4.0	e4.1 e4.2 e6.0 9.6 9.7	e5.3 e5.2 e5.2 e5.4 e5.1	e4.7 e4.6 e4.5 e4.4 e4.3	5.5 5.8 5.7 5.8 7.2	9.2 8.8 9.1 8.3 8.7	32 29 26 24 26	9.0 8.1 8.5 9.7 8.5	3.9 3.4 3.4 3.3 4.2	3.0 2.9 2.7 2.7 2.6	2.5 2.3 2.2 2.2 2.3
21 22 23 24 25	2.9 2.9 2.9 2.9 3.1	4.5 5.6 5.0 4.6 4.5	8.6 7.7 6.9 6.9 e5.2	e4.9 e4.8 e4.7 e4.7 e4.7	e4.2 e4.1 e4.0 e4.0 e4.1	8.3 8.1 7.8 7.4 7.5	8.4 8.8 8.8 8.2 7.7	23 22 21 20 20	7.9 7.0 6.6 6.1 5.7	27 14 13 12 11	2.4 2.3 2.1 2.1 1.9	2.3 4.1 4.6 4.2 4.6
26 27 28 29 30 31	3.3 3.1 3.0 2.9 3.0 3.1	4.3 4.2 4.4 4.3 4.6	e5.1 e5.0 e4.9 4.7 5.0 6.8	e4.8 e5.0 e4.9 e4.8 e4.8 e4.9	e4.2 e4.0 e4.0 	7.0 6.8 6.6 6.7 6.7	7.3 7.1 6.5 5.9 8.0	19 18 18 17 17	6.2 6.2 5.7 5.8 5.6	8.5 9.7 9.9 9.0 8.3 7.5	2.3 2.9 2.2 2.2 2.5 2.5	4.3 4.5 5.0 5.5 5.1
TOTAL MEAN MAX MIN	105.8 3.41 5.7 2.9	119.6 3.99 5.6 2.8	163.2 5.26 9.7 4.0	168.0 5.42 7.3 4.7	143.5 5.12 7.4 4.0	179.6 5.79 8.3 3.9	311.3 10.4 22 5.7	780 25.2 46 11	301.0 10.0 17 5.6	265.6 8.57 27 3.3	109.0 3.52 5.9 1.9	106.1 3.54 5.6 2.1
	TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS			`				
MEAN MAX (WY) MIN (WY)	13.0 27.3 (1994) 3.41 (2003)	15.7 31.6 (1994) 3.32 (2000)	15.4 23.6 (1993) 4.49 (2000)	18.4 38.3 (1993) 5.42 (2003)	19.1 30.5 (1997) 5.12 (2003)	22.0 33.8 (1993) 5.79 (2003)	25.3 47.0 (1998) 10.4 (2003)	23.2 32.7 (2002) 11.3 (2001)	21.1 44.9 (1993) 10.0 (2003)	14.9 28.6 (1996) 7.18 (2001)	13.4 36.4 (1995) 3.52 (2003)	10.9 24.0 (1993) 3.54 (2003)
SUMMA	RY STATIS	STICS		FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER	YEAR	WATER	YEARS 199	93 - 2003
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS			UM	73 2 3 26 12	3. May 2.8 Nov 3.0 Oct	2	2	1.9 Au 2.2 Au 49 Ma	y 12 g 25 g 20 y 9 b 17		1.9 Au 2.2 Au 226 Ju	1993 2003 nn 9, 1993 gg 25, 2003 gg 20, 2003 nn 9, 1993 nn 7, 2001

e Estimated

b Ice jam

04101370 JUDAY CREEK NEAR SOUTH BEND, IN—Continued



04177720 FISH CREEK AT HAMILTON, IN

LOCATION.--Lat $41^{\circ}31'55''$, long $84^{\circ}54'12''$, in $SE^{1}/_{4}SW^{1}/_{4}$ sec.34, T.36 N., R.14 E., Steuben County, Hydrologic Unit 04100003, (HAMILTON, IN quadrangle), 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 National Geodetic Vertical Datum of 1929.

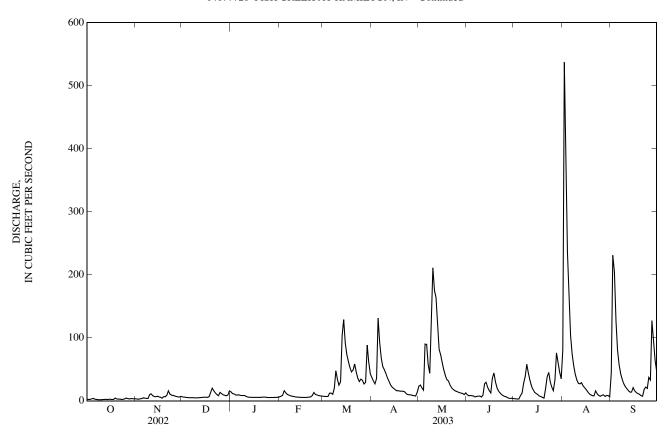
REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

					DAII	LI WILAN V	ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2	2.5 2.1	3.3 2.9	6.3 e6.0	14 12	e6.2 e7.4	e7.2 e7.0	37 31	23 25	9.7 7.9	3.4 3.3	80 537	44 231
3 4	2.3 3.0	2.4 3.3	e5.6 e5.2	11 9.4	8.6 16	e6.8 e7.0	27 35	20 17	8.5 8.1	2.8 3.1	406 236	205 126
5	3.8	3.6	e5.1	9.1	e13	12	131	90	7.6	8.3	156	81
6 7	2.5 2.3	4.9 4.2	e5.0	9.6 8.7	e10 e9.0	12	92 68	90 58	6.0 7.1	12 28	104 74	57 43
8	1.7	4.0	e5.0 e4.9	8.4	e8.0	10 20	54	44	7.4	38	56	34
9 10	1.8 1.8	3.7 9.9	e4.7 e4.7	8.5 8.1	e7.4 e6.8	48 34	49 43	134 211	7.6 6.1	58 44	42 33	27 22
11	2.0	11	4.9	e6.6	e6.4	25	36	175	8.8	33	28	19
12 13	2.1 2.5	8.0 6.8	5.0 5.3	e5.8 e5.7	e6.0 e5.8	30 104	31 25	164 122	27 30	24 18	27 29	16 14
14 15	2.0 2.5	6.4 7.3	5.6 5.8	e5.6 e5.5	e5.6 e5.5	129 91	22 20	82 73	21 16	14 12	24 21	14 21
16	2.4	6.2	5.7	e5.5	e5.4	74	18	60	13	10	18	16
17 18	2.0 2.3	5.6 4.2	5.4 6.4	e5.6 e5.5	e5.3 e5.4	62 53	16 16	49 40	35 44	7.7 6.7	14 11	13 11
19 20	4.4 3.1	6.7 6.4	13 20	e5.5 e5.6	e5.6 5.9	46 49	15 15	33 31	30 21	5.4 4.2	9.3 8.1	10 8.1
21	2.7	8.7	16	e5.8	6.4	59	15	25	15	19	7.9	7.2
22 23	2.7 2.2	16 10	13 10	e6.0 e5.8	8.4 13	46 36	14 11	20 18	12 9.8	38 45	16 11	18 22
24 25	2.3 3.1	9.1 8.6	8.0 13	e5.4 e5.2	e10 e9.3	31 34	10 9.6	16 15	8.0 6.9	30 22	8.5 7.2	20 37
26	4.3	7.6	11	e5.2	e8.4	33	9.5	14	6.3	16	8.7	33
27 28	3.5 3.1	6.9 6.2	9.6 8.7	e5.3 e5.3	e7.9 e7.6	27 29	8.5 8.3	13 12	4.5 3.8	33 76	9.5 7.0	127 96
29 30	3.6 3.4	6.1 6.9	8.1 9.1	e5.4 e5.5		88 62	7.6 13	12 9.8	4.1 3.8	61 46	8.4 8.3	64 47
31	3.1		16	e5.6		43		13		35	6.3	
TOTAL MEAN	83.1 2.68	196.9 6.56	252.1 8.13	216.2 6.97	220.3 7.87	1,315.0 42.4	887.5 29.6	1,708.8 55.1	396.0 13.2	756.9 24.4	2,012.2 64.9	1,483.3 49.4
MAX MIN	4.4	16 2.4	20 4.7	14	16	129 6.8	131 7.6	211 9.8	44 3.8	76 2.8	537 6.3	231 7.2
CFSM	1.7 0.07	0.18	0.22	5.2 0.19	5.3 0.21	1.13	0.79	1.47	0.35	0.65	1.73	1.32
IN.	0.08	0.20	0.25	0.21	0.22	1.30	0.88	1.70	0.39	0.75	2.00	1.47
								ER YEAR (W	<i></i>	15.0	140	12.0
MEAN MAX	14.3 76.8	27.1 117	36.2 91.3	36.9 161	49.1 130	68.1 219	61.2 112	40.8 174	29.7 118	15.0 64.3	14.2 64.9	12.0 49.4
(WY) MIN	(2002) 2.14	(1993) 2.46	(1991) 4.69	(1993) 5.96	(2001) 7.84	(1982) 21.6	(1978) 18.7	(1996) 8.24	(1981) 2.05	(1992) 2.02	(2003) 1.89	(2003) 1.88
(WY)	(1995)	(1972)	(2000)	(1977)	(1979)	(2000)	(1971)	(1985)	(1988)	(1988)	(1970)	(1988)
SUMMA	RY STATIS	STICS		FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	'EAR	WATER	YEARS 197	0 - 2003
ANNUAI ANNUAI	L TOTAL			10,794	4.9 9.6			28.3 26.1			33.6	
HIGHES	T ANNUAL			2,	7.0		•	20.1			54.7	1993
LOWEST ANNUAL MEAN HIGHEST DAILY MEAN				448	8 May	13	5:	37 Aug	, 2	1,2	17.8 220 Maj	1972 y 17, 1996
LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM					1.4 Sep 1.6 Sep		1.7 Oct 8 2.0 Oct 8			0.52 Aug 31, 1971 0.82 Aug 26, 1971		
MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE					5e p		5	81 Aug	; 2	1,510 May 17, 1996		
ANNUAL RUNOFF (CFSM)					0.79			9.37 Aug 0.70	, 2	14.49 May 17, 1996 0.90		
ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS				69			:	9.45 59			12.18 79	
	ENT EXCE ENT EXCE			12	2 2.3			9.9 3.6			16 3.0	
, 0 1 Little								0			2.0	

e Estimated

04177720 FISH CREEK AT HAMILTON, IN—Continued



04177810 FISH CREEK NEAR ARTIC, IN

LOCATION.--Lat 41°27′54″, long 84°48′53″, in NE¹₄SE¹/₄ sec. 29, T.35 N., R.15 E., DeKalb County, Hydrologic Unit 04100003, (BUTLER EAST, IN-OH quadrangle), on right bank 3 ft upstream from bridge on County Road 79, 0.6 mi south of Artic, 0.8 mi upstream from Indiana-Ohio state line and 3.8 mi north-northeast of Butler, IN.

DRAINAGE AREA.--98 mi² (approx.).

WATER DISCHARGE RECORDS

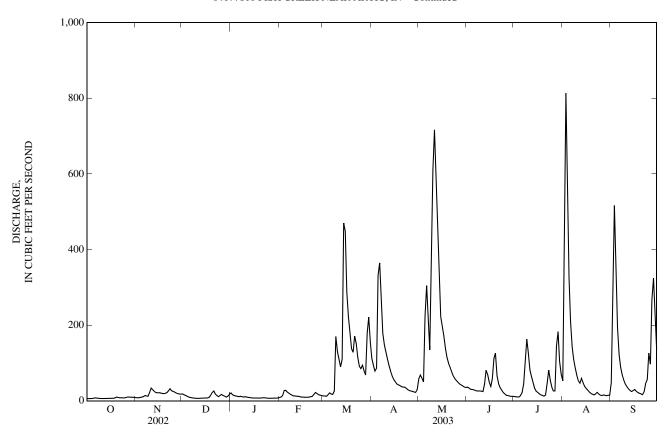
PERIOD OF RECORD.--April 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is 832.96 ft above National Geodetic Vertical Datum of 1929.

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

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	8.6	18	e21	e8.4	e13	112	58	36	11	53	48
2	6.0	e8.3	e16	e16	e9.9	e13	93	68	34	11	431	272
3	5.9	e8.0	e14	e14	e14	e12	79	60	31	10	813	517
4	6.1	e9.0	e12	e13	e27	e16	86	50	30	10	582	389
5	6.6	e10	e10	e12	e28	e21	332	224	29	14	325	193
6	7.7	e11	e8.8	e11	e23	e18	365	305	28	21	209	123
7	7.2	e14	e8.0	e12	e20	e17	266	216	26	45	143	89
8	7.0	e13	e7.4	e11	e17	e25	178	135	26	97	109	69
9	6.4	e12	e7.0	e10	e15	e170	148	292	26	163	86	55
10	6.1	22	e6.8	e11	e13	e130	129	609	26	127	67	44
11	6.1	34	e6.4	e10	e13	e110	110	716	25	82	53	37
12	6.1	29	e6.8	e9.2	e12	e90	93	535	45	65	47	32
13	6.4	25	e7.0	e8.4	e12	e110	78	421	81	49	59	27
14	6.4	22	e7.2	e8.0	e11	e470	66	319	69	34	48	25
15	6.6	21	e7.5	e7.4	e10	448	57	222	e50	26	38	27
16	6.5	22	e7.7	e7.4	e10	288	50	199	e38	22	33	30
17	6.8	21	e7.3	e7.6	e9.6	223	45	172	e58	19	28	25
18	6.7	20	e9.0	e7.2	e9.3	179	42	139	e112	16	23	22
19	7.8	19	e15	e7.2	e9.6	138	40	115	e126	14	20	20
20	9.8	20	e22	e7.6	e10	128	38	99	e66	12	17	18
21	8.6	22	e26	e7.8	e11	171	36	89	e45	15	16	16
22	8.0	26	e18	e8.2	e12	151	36	77	e35	45	18	24
23	7.9	32	e14	e7.8	e17	115	33	66	e28	81	22	46
24	7.8	27	e11	e7.2	e22	91	29	59	e22	55	18	56
25	7.9	25	e14	e6.8	e19	85	27	54	e18	36	15	126
26 27 28 29 30 31	8.7 10 9.9 9.6 9.2 9.4	23 20 19 18 18	e17 e14 e12 e10 e12 e17	e6.8 e7.0 e7.0 e7.2 e7.2 e7.6	e16 e15 e14 	94 80 68 179 221 155	26 25 23 23 30	49 45 42 40 37 35	15 14 12 12 12	26 26 145 183 104 70	14 15 15 13 15 14	97 268 325 227 136
TOTAL	231.4	578.9	368.9	291.6	407.8	4,029	2,695	5,547	1,175	1,634	3,359	3,383
MEAN	7.46	19.3	11.9	9.41	14.6	130	89.8	179	39.2	52.7	108	113
MAX	10	34	26	21	28	470	365	716	126	183	813	517
MIN	5.9	8.0	6.4	6.8	8.4	12	23	35	12	10	13	16
CFSM	0.08	0.20	0.12	0.10	0.15	1.33	0.92	1.83	0.40	0.54	1.11	1.15
IN.	0.09	0.22	0.14	0.11	0.15	1.53	1.02	2.11	0.45	0.62	1.28	1.28
				A FOR WAT								
MEAN	66.3	42.5	63.7	67.8	152	125	185	129	82.5	27.4	46.5	34.0
MAX	260	82.4	187	189	384	178	306	222	221	52.7	110	113
(WY)	(2002)	(2002)	(2002)	(1999)	(2001)	(2002)	(1999)	(2002)	(2000)	(2003)	(1998)	(2003)
MIN	5.73	7.33	11.9	9.41	14.6	66.8	89.8	61.2	25.6	14.2	7.82	4.32
(WY)	(2000)	(2000)	(2003)	(2003)	(2003)	(2000)	(2003)	(1998)	(1998)	(1999)	(1999)	(1999)
SUMMA	RY STATIS	STICS		FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER	YEAR	WATER	YEARS 199	98 - 2003
ANNUAI HIGHES' LOWEST HIGHES' LOWEST ANNUAI MAXIMU MAXIMU ANNUAI ANNUAI 10 PERCI 50 PERCI	ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			FOR 2002 CALENDAR YEAR 31,849.6 87.3 1,360 May 13 5.9 Sep 26 6.3 Sep 13 0.89 12.09 226 26			23,700.6 64.9 813			1,3 1,0	3.6 Se 3.8 Se 590 Ma	2002 2000 y 13, 2002 p 12, 1999 p 10, 1999 y 13, 2002 y 13, 2002

04177810 FISH CREEK NEAR ARTIC, IN—Continued



04177810 FISH CREEK NEAR ARTIC, IN—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY) WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

	Mean	Mean	Load	Mean	Mean	Load	Mean	Mean	Load
Day	discharge (cfs)	concen- tration (mg/l)	(tons/ day)	discharge (cfs)	concen- tration (mg/l)	(tons/ day)	discharge (cfs)	concen- tration (mg/l)	(tons/ day)
·		OCTOBER	• •	, ,	NOVEMBER	•	· · ·	DECEMBER	• • • • • • • • • • • • • • • • • • • •
1 2 3 4 5	6.2 6.0 5.9 6.1 6.6	75 85 96 98 96	1.2 1.4 1.5 1.6 1.7	8.6 e8.3 e8.0 e9.0 e10	76 41 89 81 42	1.8 0.91 1.9 2.0 1.1	18 e16 e14 e12 e10	154 142 128 115 101	7.6 6.1 4.9 3.7 2.7
6 7 8 9 10	7.7 7.2 7.0 6.4 6.1	156 111 178 96 112	3.3 2.1 3.3 1.7 1.9	e11 e14 e13 e12 22	35 65 114 107 120	1.0 2.4 4.0 3.5 7.2	e8.8 e8.0 e7.4 e7.0 e6.8	88 74 61 47 34	2.1 1.6 1.2 0.89 0.62
11 12 13 14 15	6.1 6.4 6.4 6.6	84 75 66 118 57	1.4 1.2 1.1 2.0 1.0	34 29 25 22 21	113 96 77 63 66	10 7.5 5.2 3.7 3.7	e6.4 e6.8 e7.0 e7.2 e7.5	22 20 20 20 20 20	0.38 0.37 0.38 0.39 0.40
16 17 18 19 20	6.5 6.8 6.7 7.8 9.8	98 131 106 106 114	1.7 2.4 1.9 2.2 3.0	22 21 20 19 20	72 76 71 106 52	4.2 4.2 3.7 5.5 2.8	e7.7 e7.3 e9.0 e15 e22	20 20 20 20 20 20	0.42 0.39 0.49 0.81 1.2
21 22 23 24 25	8.6 8.0 7.9 7.8 7.9	88 95 57 83 98	2.1 2.1 1.2 1.7 2.1	22 26 32 27 25	78 107 110 81 72	4.6 7.6 9.6 5.9 4.8	e26 e18 e14 e11 e14	20 20 20 20 20 20	1.4 0.98 0.76 0.60 0.75
26 27 28 29 30 31	8.7 10 9.9 9.6 9.2 9.4	50 71 97 85 73 55	1.2 1.9 2.6 2.2 1.8 1.4	23 20 19 18 18	81 97 92 128 157	5.0 5.4 4.8 6.2 7.5	e17 e14 e12 e10 e12 e17	20 20 20 20 20 20 20	0.92 0.76 0.65 0.54 0.65 0.92
TOTAL	231.4		57.9	578.9		137.71	368.9		45.57
1	e21	JANUARY 20	1.1	e8.4	FEBRUARY 20	0.45	e13	MARCH 20	0.70
2 3 4 5	e16 e14 e13 e12	20 20 20 20 20	0.87 0.76 0.70 0.65	e9.9 e14 e27 e28	20 20 20 20 20	0.43 0.53 0.75 1.5	e13 e12 e16 e21	20 20 20 20 20	0.70 0.65 0.86 1.1
6 7 8 9 10	e11 e12 e11 e10 e11	20 20 20 20 20 20	0.59 0.65 0.59 0.54 0.59	e23 e20 e17 e15 e13	20 20 20 20 20 20	1.2 1.1 0.92 0.81 0.70	e18 e17 e25 e170 e130	20 20 27 66 35	0.97 0.92 1.9 30 12
11 12 13 14 15	e10 e9.2 e8.4 e8.0 e7.4	20 20 20 20 20 20	0.54 0.50 0.45 0.43 0.40	e13 e12 e12 e11 e10	20 20 20 20 20 20	0.70 0.65 0.65 0.59 0.54	e110 e90 e110 e470 448	23 17 28 124 84	6.9 4.1 8.4 157 103
16 17 18 19 20	e7.4 e7.6 e7.2 e7.2 e7.6	20 20 20 20 20 20	0.40 0.41 0.39 0.39 0.41	e10 e9.6 e9.3 e9.6 e10	20 20 20 20 20 20	0.54 0.52 0.50 0.52 0.54	288 223 179 138 128	36 23 13 9 14	29 14 6.2 3.5 5.1
21 22 23 24 25	e7.8 e8.2 e7.8 e7.2 e6.8	20 20 20 20 20 20	0.42 0.44 0.42 0.39 0.37	e11 e12 e17 e22 e19	20 20 20 20 20 20	0.59 0.65 0.92 1.2 1.0	171 151 115 91 85	37 19 21 14 21	17 7.6 6.6 3.4 4.8
26 27 28 29 30 31	e6.8 e7.0 e7.0 e7.2 e7.2 e7.6	20 20 20 20 20 20 20	0.37 0.38 0.38 0.39 0.39 0.41	e16 e15 e14 	20 20 20 	0.87 0.81 0.76 	94 80 68 179 221 155	15 13 13 58 38 23	3.7 2.9 2.4 28 23 9.8
TOTAL	291.6		15.72	407.8		22.01	4,029		496.20

04177810 FISH CREEK NEAR ARTIC, IN—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)—CONTINUED WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

	Mean discharge	Mean concen- tration	Load (tons/	Mean discharge	Mean concen- tration	Load (tons/	Mean discharge	Mean concen- tration	Load (tons/
Day	(cfs)	(mg/l)	day)	(cfs)	(mg/l)	day)	(cfs)	(mg/l)	day)
		APRIL			MAY			JUNE	
1	112	20	6.0	58	81	13	36	55	5.4
2 3	93 79	26 37	6.6 7.8	68 60	40 32	7.3 5.2	34 31	43 56	4.0 4.7
4	86	44	13	50	29	3.9	30	54	4.5
5	332	128	111	224	188	108	29	45	3.5
6	365	56	55	305	54	45	28	46	3.5
7	266	30	23	216	34	20	26	44	3.1
8 9	178 148	21 16	10 6.3	135 292	29 137	10 117	26 26	44 47	3.1 3.3
10	129	20	6.8	609	92	147	26	41	2.8
11	110	30	9.0	716	42	84	25	42	2.8
12	93	34	8.5	535	27	40	45	59	7.6
13	78	50	11	421	24	27	81	61	13
14	66	46	8.2	319	34	29	69	51	9.5
15	57	48	7.3	222	25	15	e50	60	8.1
16	50	47	6.3	199	26	14	e38	47	4.8
17	45	54	6.5	172	24	11	e58	54	8.4
18	42	42	4.7	139	25	9.3	e112	73	22
19	40	49	5.3	115	26	8.1	e126	53	18
20	38	43	4.3	99	32	8.6	e66	49	8.9
21	36	43	4.2	89	26	6.2	e45	43	5.3
22	36	35	3.4	77	32	6.6	e35	47	4.4
23 24	33 29	39 39	3.4 3.1	66 59	27 32	4.8 5.1	e28 e22	58 40	4.4 2.4
24 25	29 27	39 44	3.2	54	31	4.5	e18	52	2.4
26	26	46	3.2	49	43	5.7	15	44	1.7
27	25	35	2.4	45 42	63	7.7	14	40	1.5
28 29	23 23	33 43	2.1 2.6	42	55 51	6.3 5.4	12 12	35 28	1.2 0.92
30	30	58	6.2	37	49	4.9	12	40	1.3
31				35	64	6.0			
TOTAL	2,695		350.4	5,547		785.6	1,175		166.62

04177810 FISH CREEK NEAR ARTIC, IN—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)—CONTINUED WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Day	Mean discharge (cfs)	Mean concen- tration (mg/l)	Load (tons/ day)	Mean discharge (cfs)	Mean concen- tration (mg/l)	Load (tons/ day)	Mean discharge (cfs)	Mean concen- tration (mg/l)	Load (tons/ day)
		JULY			AUGUST			SEPTEMBER	
1	11	46	1.4	53	45	6.4	48	63	9.8
2	11	32	0.93	431	111	112	272	117	82
3	10	38	1.1	813	27	59	517	34	46
4	10	28	0.77	582	15	24	389	30	31
5	14	37	1.4	325	22	19	193	42	22
6	21	42	2.4	209	29	16	123	44	14
7	45	72	9.6	143	34	13	89	56	14
8	97	101	28	109	32	9.3	69	43	7.9
9	163	89	39	86	30	7.0	55	60	9.1
10	127	49	17	67	30	5.5	44	24	2.9
11	82	42	9.3	53	30	4.3	37	22	2.2
12	65	38	6.7	47	34	4.3	32	23	2.0
13	49	38	5.0	59	45	7.3	27	18	1.4
14	34	42	3.8	48	38	5.0	25	16	1.1
15	26	30	2.1	38	29	3.0	27	18	1.3
16	22	26	1.6	33	27	2.3	30	16	1.3
17	19	29	1.4	28	31	2.3	25	12	0.84
18	16	29	1.2	23	42	2.6	22	15	0.89
19	14	25	0.96	20	38	2.0	20	15	0.78
20	12	33	1.1	17	58	2.7	18	10	0.51
21	15	37	1.5	16	57	2.4	16	10	0.44
22	45	68	9.4	18	76	3.7	24	29	2.1
23	81	74	16	22	37	2.2	46	32	3.9
24	55	52	7.7	18	51	2.5	56	38	9.5
25	36	52	5.2	15	37	1.5	126	114	41
26 27 28 29 30 31	26 26 145 183 104 70	39 50 127 85 49 44	2.7 3.6 53 43 14 8.3	14 15 15 13 15 14	44 21 29 23 15 18	1.6 0.89 1.2 0.84 0.60 0.69	97 268 325 227 136	49 103 48 32 19	13 72 42 20 6.8
TOTAL	1,634		299.16	3,359		325.12	3,383		461.76
YEAR	23,700.6	3,163.77							

e Estimated

04178000 ST. JOSEPH RIVER NEAR NEWVILLE, IN

LOCATION.--Lat $41^{\circ}23'08''$, long $84^{\circ}48'06''$, in SW $^{1}_{4}$ SW $^{1}_{4}$ sec. 18, T.5 N., R.1 E., Defiance County, Ohio, Hydrologic Unit 04100003, (BUTLER EAST, IN-OH quadrangle), on left downstream side at bridge on Ohio State Highway 249, 3.5 mi northeast of Newville, 6.5 mi northwest of Hicksville, OH, and at mile 42.3.

DRAINAGE AREA.--610 mi².

PERIOD OF RECORD.--October 1946 to current year. Monthly discharge only for some periods, published in WSP 1307.

REVISED RECORDS.--WSP 2112: Drainage area.

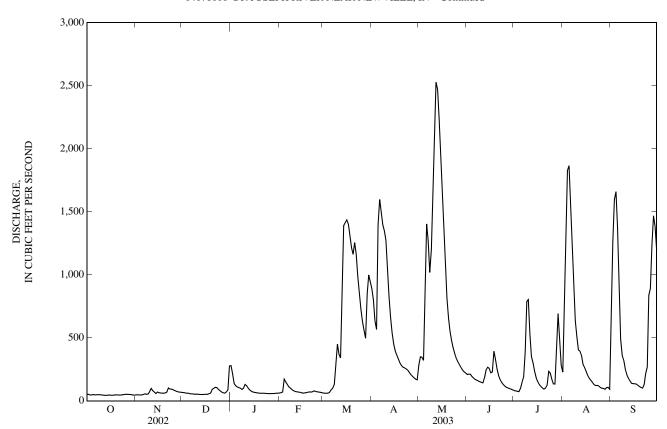
GAGE.--Water-stage recorder. Datum of gage is 795.40 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 22, 1947, nonrecording gage at same site and datum

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

598 1,260 1,600		
1,260 1,600		
1,660 1,380		
799 489 359 322 250		
206 178 156 139 136		
135 133 123 114 106		
101 128 215 269 837		
892 1,240 1,470 1,380 1,190		
20.3		
47 - 2003		
540 1,008 132 1964 9,790 May 18, 1996 14 Sep 10, 1964 15 Sep 10, 1964 10,400 May 18, 1996 17.96 0.89 12.03 1,480 237		
M S S M		

e Estimated

04178000 ST. JOSEPH RIVER NEAR NEWVILLE, IN—Continued



SEP

04179520 CEDAR CREEK AT 18TH STREET AT AUBURN, IN

 $LOCATION.--Lat\ 41^{\circ}21^{\circ}36^{\circ}, long\ 85^{\circ}02^{\circ}57^{\circ}, in\ NW^{1}_{4}SE^{1}_{4}\ sec.\ 32, T.34\ N., R.13\ E., Dekalb\ County,\ Hydrologic\ Unit\ 04100003,\ (AUBURN,\ IN\ quadrangle), on top\ of\ right\ upstream\ wingwall\ of\ the\ bridge\ on\ 18th\ Street,\ 0.3\ mi\ east\ of\ downtown\ Auburn,\ 1.46\ mi\ above\ John\ Diehl\ Ditch\ and\ at\ mile\ 20.94.$

JUN

JUL

AUG

DRAINAGE AREA.--87.3 mi².

OCT

DAY

PERIOD OF RECORD.--September 2001 to current year.

GAGE.--Water-stage recorder. Datum of gage is 844.02 ft above National Geodetic Vertical Datum of 1929.

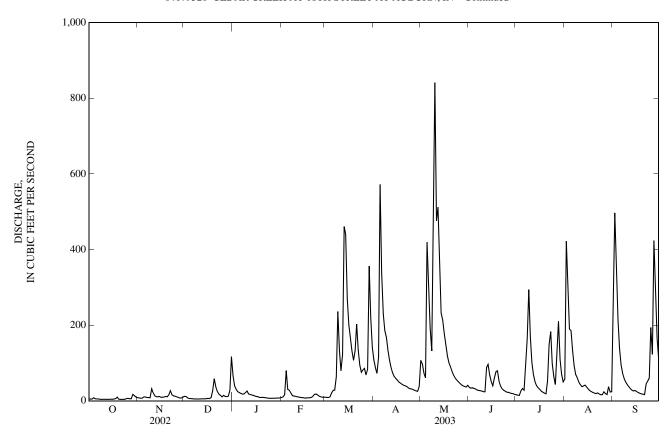
REMARKS.--Records fair except for estimated daily discharges, which are poor.

		DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES								
NOV	DEC	JAN	FEB	MAR	APR	MAY				
8.5	12	66	8.6	9.4	109	107				
7.7	11	40	10	9.3	87	97				
6.9	7.5	31	16	8.7	72	73				
7.1	6.1	25	80	11	116	61				

1 2 3 4 5	e5.0 e4.7 e4.6 8.1 5.2	8.5 7.7 6.9 7.1	12 11 7.5 6.1 5.8	66 40 31 25 22	8.6 10 16 80 e30	9.4 9.3 8.7 11 21	109 87 72 116 572	107 97 73 61 420	36 33 35 33 31	16 15 14 26 33	58 422 294 190 186	275 497 336 215 139
6	5.2	10	5.6	20	e28	28	337	329	28	28	134	94
7	4.8	8.8	4.8	18	e20	28	230	192	27	100	92	73
8	4.2	8.7	5.1	18	14	64	186	132	27	163	70	59
9	3.9	8.1	4.9	22	13	236	168	533	26	294	61	50
10	4.1	32	4.8	26	12	133	134	841	24	170	49	42
11	4.2	21	5.1	18	11	79	107	476	24	101	43	37
12	3.8	13	5.2	17	10	122	88	512	88	69	37	32
13	4.1	11	5.4	15	9.1	461	74	340	96	50	39	28
14	4.0	11	5.4	14	8.5	439	65	232	68	40	42	26
15	4.3	12	5.6	12	8.3	270	60	213	51	35	37	27
16	4.3	9.2	6.5	11	7.0	202	55	178	40	30	32	24
17	4.7	9.8	6.0	11	7.8	164	50	146	60	26	27	22
18	5.8	10	8.7	8.9	7.8	132	47	119	77	23	24	20
19	9.9	12	27	8.9	8.3	107	44	100	79	20	22	18
20	4.3	11	58	9.3	9.0	132	41	90	52	18	20	17
21	3.8	16	37	8.7	12	203	40	78	38	52	19	16
22	3.8	27	25	8.2	17	134	38	68	32	149	21	45
23	4.0	16	17	7.1	18	95	34	60	28	183	18	52
24	4.0	13	15	7.0	16	75	32	55	25	98	16	60
25	6.4	12	10	6.6	12	82	31	51	23	63	16	194
26 27 28 29 30 31	6.4 5.5 5.5 17 13 9.7	11 9.0 7.4 7.3 9.9	15 12 11 12 28 117	7.0 6.8 6.9 7.3 7.5 7.4	9.6 9.5 	86 68 83 356 221 141	30 28 26 25 37	46 42 40 38 36 41	22 21 19 19 17	43 133 210 109 70 50	24 19 17 37 24 24	123 424 265 164 112
TOTAL	178.3	356.4	499.5	493.6	423.5	4,200.4	2,963	5,746	1,179	2,431	2,114	3,486
MEAN	5.75	11.9	16.1	15.9	15.1	135	98.8	185	39.3	78.4	68.2	116
MAX	17	32	117	66	80	461	572	841	96	294	422	497
MIN	3.8	6.9	4.8	6.6	7.0	8.7	25	36	17	14	16	16
CFSM	0.06	0.13	0.18	0.18	0.17	1.50	1.09	2.05	0.44	0.87	0.76	1.29
IN.	0.07	0.15	0.21	0.20	0.17	1.73	1.22	2.37	0.49	1.00	0.87	1.44
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	2001 - 2003,	BY WATE	R YEAR (W	Y)			
MEAN	133	46.0	91.9	40.8	86.5	148	149	171	38.2	48.5	39.5	61.8
MAX	260	80.2	168	65.8	158	160	200	185	39.3	78.4	68.2	116
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2003)	(2003)	(2003)	(2003)	(2003)
MIN	5.75	11.9	16.1	15.9	15.1	135	98.8	156	37.2	18.6	10.9	7.36
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(2002)	(2002)	(2002)	(2002)
SUMMA	RY STATIS	STICS		FOR 2002 C	ALENDAR	YEAR		3 WATER Y	/EAR	WATER	YEARS 200	01 - 2003
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			IUM	934 3 2 (16 16) 27	1.00 4 Feb 3.8 Oct 4.0 Oct 0.78 0.53	12	24,07 6 84 1,17	11 May 3.8 Oc 4.0 Oc 70 May 8.23 May 0.73 9.93	t 12 t 8 v 10	1,1 2	3.8 Oc 4.0 Oc 70 Ma	2002 2003 bb 1, 2002 ct 12, 2002 ct 8, 2002 ty 10, 2003 y 10, 2003

e Estimated

04179520 CEDAR CREEK AT 18TH STREET AT AUBURN, IN—Continued



04180000 CEDAR CREEK NEAR CEDARVILLE, IN

LOCATION.--Lat $41^{\circ}13'08''$, long $85^{\circ}04'35''$, in NW $^{1}_{4}$ NW $^{1}_{4}$ sec.19, T.32 N., R.13 E., Allen County, Hydrologic Unit 04100003, (CEDARVILLE, IN quadrangle), on left bank at downstream side of bridge on Tonkle Road, 3 mi northwest of Cedarville, 5.8 mi upstream from mouth, and 10 mi south of Auburn.

DRAINAGE AREA.--270 mi².

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

REVISED RECORDS.--WSP 1912: Drainage area.

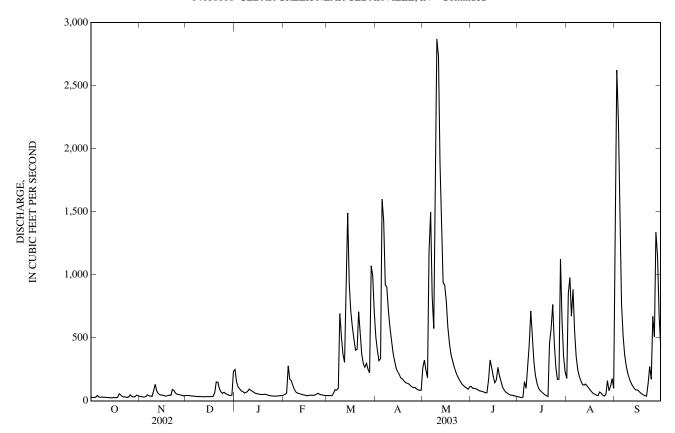
GAGE.--Water-stage recorder. Datum of gage is 780.09 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 4, 1947, nonrecording gage at same site and datum.

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

KENIAKKSRecords fair except for estimated daily discharges, which are poor.											
DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES											
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
30 27 27 28 43	36 33 31 30 34	43 42 e41 e39 38	248 151 109 96 79	e45 e52 61 277 e170	e42 e41 e41 e41 62	504 397 318 334 1,600	263 323 246 182 1,190	114 99 99 95 89	32 29 25 29 153	179 853 979 672 884	1,370 2,620 2,220 1,190 769
30 29 30 28 28	47 40 37 36 80	38 35 34 e34 e33	73 62 67 73 93	e160 e120 e90 e68 e61	88 85 100 693 507	1,430 920 902 718 583	1,500 834 573 1,460 2,870	81 77 73 70 64	99 275 441 713 528	558 352 251 195 159	515 366 277 219 177
27 26 25 23 26	130 77 58 48 45	33 33 33 34 33	e84 e77 e68 e60 e57	e58 e53 e50 e46 e44	369 305 1,010 1,490 923	474 381 315 259 231	2,730 1,890 1,490 938 917	64 167 324 264 195	307 201 138 101 81	132 124 132 119 102	145 120 101 87 87
25 25 28 55 46	45 39 38 41 45	33 34 36 64 150	e54 e52 e50 e50 e52	e40 e43 e44 45 44	709 584 488 402 410	208 181 174 158 144	796 585 456 369 318	143 164 265 199 154	70 58 48 41 34	86 70 58 51 45	78 64 54 47 41
34 33 30 27 30	43 90 81 61 53	148 97 71 59 68	e50 e45 e42 e40 e38	45 e52 e60 e52 e48	707 520 368 294 267	140 135 122 111 105	273 233 201 175 154	108 85 69 61 52	458 572 765 468 267	41 70 61 45 38	37 140 272 171 670
47 36 31 32 45 40	50 47 43 40 41	56 52 45 42 45 233	e39 e37 e38 e40 e42 e41	e46 e43 e42 	298 252 222 1,070 993 697	105 94 87 84 83	134 120 110 102 92 111	46 44 41 38 35	171 171 1,120 626 348 227	51 160 79 114 177 99	506 1,340 1,150 677 438
991 32.0 55 23 0.12 0.14	1,519 50.6 130 30 0.19 0.21	1,776 57.3 233 33 0.21 0.24	2,107 68.0 248 37 0.25 0.29	1,959 70.0 277 40 0.26 0.27	14,078 454 1,490 41 1.68 1.94	11,297 377 1,600 83 1.39 1.56	21,635 698 2,870 92 2.58 2.98	3,379 113 324 35 0.42 0.47	8,596 277 1,120 25 1.03 1.18	6,936 224 979 38 0.83 0.96	15,948 532 2,620 37 1.97 2.20
ICS OF M	ONTHLY MI	EAN DATA	FOR WATI	ER YEARS	1947 - 2003,	BY WATE	R YEAR (W	Y)			
121 814 (2002) 19.8 (1965)	181 936 (1993) 24.0 (1965)	278 908 (1967) 24.7 (1964)	313 1,393 (1950) 25.9 (1963)	400 1,290 (1959) 28.5 (1963)	504 1,724 (1982) 146 (1957)	471 1,130 (1950) 139 (1971)	293 947 (1956) 68.6 (1958)	213 1,046 (1981) 44.0 (1988)	123 515 (1986) 35.1 (1953)	87.7 331 (1997) 22.0 (1964)	93.8 532 (2003) 20.9 (1964)
RY STATIS	STICS		FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	/EAR	WATER	YEARS 19	47 - 2003
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS				9 Feb Sep Sep Sep81	15	2,87 2,87 2,2 3,24	70 May 23 Oc 25 Oc 40 May 8.86 May 0.92 12.43	t 14 t 11 ⁷ 11	5,2 5,5 6	85 85.3 20 E 13 G 18 S 80 E 13.38 E 0.95 12.88 01	1950 1964 lec 31, 1990 Oct 3, 1949 ep 27, 1949 lec 30, 1990 lec 30, 1990
	OCT 30 27 27 28 43 30 29 30 28 28 27 26 25 23 26 25 28 55 46 34 33 30 27 30 47 36 31 32 45 40 991 32.0 55 23 0.12 0.14 ICS OF Mo 121 814 (2002) 19.8 (1965) RY STATIS ANNUAL CANNUAL	OCT NOV 30 36 27 33 27 31 28 30 43 34 30 47 29 40 30 37 28 36 28 80 27 130 26 77 25 58 23 48 26 45 25 45 25 39 28 38 26 45 25 45 25 39 28 38 55 41 46 45 34 43 33 90 30 81 27 61 30 53 47 50 36 47 31 43 33 90 30 81 27 61 30 53 47 50 36 47 31 43 32 40 45 41 40 991 1,519 32.0 50.6 55 130 23 30 0.12 0.19 0.14 0.21 ICS OF MONTHLY MI 121 81 814 936 (2002) (1993) 19.8 24.0 (1965) (1965) RY STATISTICS TOTAL MEAN ANNUAL MEA	OCT NOV DEC 30	OCT NOV DEC JAN 30 36 43 248 27 33 42 151 27 31 e41 109 28 30 e39 96 43 34 38 79 30 47 38 73 29 40 35 62 30 37 34 67 28 36 e34 73 28 80 e33 93 27 130 33 e84 26 77 33 e77 25 58 33 e68 23 48 34 e60 26 45 33 e57 25 45 33 e57 27 130 34 e60 26 45 150 e52 34 43 148 e50 35 41 64 e50 46 45 150 e52 34 43 148 e50 33 90 97 e45 30 81 71 e42 27 61 59 e40 30 53 68 e38 47 50 56 e39 30 81 71 e42 27 61 59 e40 30 53 68 e38 47 50 56 e39 36 47 52 e37 31 43 45 e38 32 40 42 e40 45 40 233 e41 991 1,519 1,776 2,107 32.0 50.6 57.3 68.0 55 130 233 248 23 30 33 37 0.12 0.19 0.21 0.25 0.14 0.21 0.24 0.29 ICS OF MONTHLY MEAN DATA FOR WATI 121 181 278 313 814 936 908 1,393 (2002) (1993) (1967) (1950) 19.8 24.0 24.7 25.9 (1965) (1965) (1964) (1963) RY STATISTICS FOR 2002 C TOTAL MEAN ANNUAL MEAN ANNUA	DISCHARGE, WATER YEAR OCT DAII OCT NOV DEC JAN FEB 30 36 43 248 e45 27 33 42 151 e52 27 31 e41 109 61 28 30 e39 96 277 43 34 38 79 e170 30 47 38 73 e160 29 40 35 62 e120 30 37 34 67 e90 28 36 e34 73 e68 28 80 e33 93 e61 27 130 33 e84 e58 28 80 e33 93 e61 27 130 33 e84 e58 26 77 33 e77 e53 25 58 33 e68 e50 27 130 33 e77 e53 25 58 33 e68 e50 26 45 33 e57 e44 25 45 33 e54 e40 25 39 34 e52 e43 28 38 36 e34 e52 e43 28 38 36 e50 e44 26 45 55 41 64 e50 45 46 45 150 e52 44 34 43 148 e50 45 46 45 150 e52 44 34 43 148 e50 45 33 90 97 e45 e52 30 81 71 e42 e60 27 61 59 e40 e52 30 81 71 e42 e60 27 61 59 e40 e52 30 53 68 e38 e48 47 50 56 e39 e46 36 47 52 e37 e43 31 43 45 e38 e42 32 40 42 e40 e52 30 50 6 57.3 68.0 70.0 55 130 233 248 277 23 30 33 248 277 23 30 33 37 40 0.12 0.19 0.21 0.25 0.26 0.14 0.21 0.24 0.29 0.27 ICIS OF MONTHLY MEAN DATA FOR WATER YEARS 121 181 278 313 400 814 936 908 1.393 1.290 0.12 0.19 0.21 0.25 0.26 0.14 0.21 0.24 0.29 0.27 ICIS OF MONTHLY MEAN DATA FOR WATER YEARS 121 181 278 313 400 814 936 908 1.393 1.290 0.27 ICIS OF MONTHLY MEAN DATA FOR WATER YEARS 121 181 278 313 400 814 936 908 1.393 1.290 0.27 ICIS OF MONTHLY MEAN DATA FOR WATER YEARS 121 181 278 313 400 814 936 908 1.393 1.290 0.27 ICIS OF MONTHLY MEAN DATA FOR WATER YEARS 121 181 278 313 400 814 936 908 1.393 1.290 0.27 ICIS OF MONTHLY MEAN DATA FOR WATER YEARS 121 181 278 313 400 814 936 908 1.393 1.290 0.27 ICIS OF MONTHLY MEAN DATA FOR WATER YEARS 121 181 278 313 400 814 936 908 1.393 1.290 0.27 ICIS OF MONTHLY MEAN DATA FOR WATER YEARS 121 181 278 313 400 814 936 908 1.393 1.290 0.27 ICIS OF MONTHLY MEAN DATA FOR WATER YEARS 121 181 278 313 400 0.87 RUNOFF (INCHES) 11.81 827 EXCEEDS 562 87 EVEN-DAY MINIMUM 23 Sep M PEAK STAGE RUNOFF (INCHES) 11.81 827 EXTEXCEEDS 562	OCT NOV DEC JAN FEB MAR 30 36 43 248 e45 e42 27 33 42 151 e52 e41 28 30 e39 96 277 e41 43 34 38 79 e170 62 30 47 38 79 e170 62 30 47 38 73 e160 88 29 40 35 62 e120 85 30 37 34 67 e90 100 28 36 e34 73 e68 693 28 80 e33 93 e61 507 27 130 33 e84 e58 693 28 80 e33 93 e61 507 27 130 33 e84 e58 369 26 77 33 e77 e53 305 27 130 33 e84 e58 369 26 77 33 e77 e53 305 27 130 33 e84 e58 603 28 80 e33 93 e61 507 27 130 33 e77 e53 305 25 58 33 e68 e50 1010 26 45 33 e57 e44 923 27 41 e50 e52 e44 492 28 83 80 e34 92 29 40 70 e50 e50 e44 488 29 40 650 e46 1,490 20 45 e50 e44 488 21 e50 e52 44 410 22 e60 e50 e52 e60 e50 e52 e60 e50 e50 e50 e50 e50 e50 e50 e50 e50 e5	DISCHARGE CUBIC FEET PER SEC WATER YEAR OCTOBER 2002 TO SEPTE DAILLY MEAN VALUES	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES OCT	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003	DISCHARGE, CUBIC FEET PER SECOND DAILY MARN VALUES	DISCHARGE CUBIC FEET PER SECOND WATER VEAR OCTOBER 2002 TO SEPTEMBER 2003 SEPTEMBER 2003 DAILY MEAN VALUES

e Estimated

04180000 CEDAR CREEK NEAR CEDARVILLE, IN—Continued



$04180500~{ m ST.}$ JOSEPH RIVER NEAR FORT WAYNE, IN

LOCATION.--Lat $41^{\circ}10'41''$, long $85^{\circ}03'19''$, in NW $^{1}_{4}$ NE $^{1}_{4}$ sec.3, T.31 N., R.13 E., Allen County, Hydrologic Unit 04100003, (CEDARVILLE, IN quadrangle), on left bank 0.8 mi downstream from Ely Run, 1.3 mi upstream from Mayhew Road, 8.0 mi northeast of the Fort Wayne Court House, and at mile 10.71.

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.

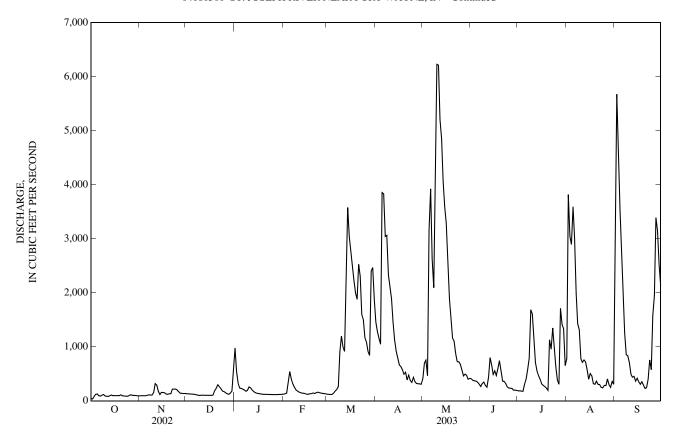
GAGE.--Water-stage recorder. Datum of gage is 754.00 ft above National Geodetic Vertical Datum of 1929 (levels by State of Indiana).

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by Cedarville Reservoir and some flow diverted into storage of Hurshtown Reservoir.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	93	132	978	e124	e122	1,460	405	407	184	783	2,320
2	35	95	e130	540	e130	e120	1,280	694	379	187	3,820	5,670
3	81	95	e128	326	e140	e119	1,160	751	372	179	3,040	4,840
4	121	94	e126	237	e350	e119	1,050	464	366	176	2,900	3,550
5	126	95	e123	e230	e540	e140	3,850	3,150	345	301	3,590	2,960
6	95	103	121	e215	e400	e180	3,830	3,920	311	397	3,020	2,110
7	89	111	112	e200	e310	e210	3,040	2,630	264	581	1,990	1,260
8	105	106	107	176	e250	e260	3,060	2,090	321	786	1,430	854
9	116	108	101	195	e200	e900	2,330	4,660	347	1,690	1,320	835
10	89	155	102	258	e180	e1,200	2,120	6,230	287	1,610	778	710
11	84	318	104	e240	e160	e1,000	1,890	6,210	253	1,170	714	493
12	82	291	103	e200	e150	913	1,460	5,200	439	708	756	437
13	94	178	101	e170	e140	2,740	1,120	4,850	801	549	723	453
14	106	117	102	e150	e140	3,580	923	4,070	661	466	578	365
15	94	158	102	e140	e130	3,040	788	3,590	489	400	400	419
16	97	153	102	e134	e120	2,790	663	3,290	556	310	505	352
17	95	149	101	e130	e125	2,500	636	2,460	469	285	460	307
18	98	126	108	e125	e130	2,230	574	1,890	600	263	317	352
19	94	120	190	e122	135	2,000	492	1,570	742	235	305	295
20	112	130	233	e120	146	1,880	529	1,160	558	195	365	230
21	94	131	298	e120	134	2,530	383	1,110	364	1,130	304	243
22	90	217	262	e119	e150	2,300	475	872	360	956	302	401
23	88	216	224	e118	e160	1,600	376	726	321	1,350	247	757
24	84	218	e180	e117	e150	1,500	340	723	260	996	241	576
25	90	202	e170	e116	e143	1,170	435	678	236	627	285	1,580
26 27 28 29 30 31	111 106 99 100 96 91	170 140 139 134 136	e150 e130 e120 e140 179 523	e115 e115 e116 e118 e119 e120	e137 e133 e130	1,090 918 839 2,400 2,470 1,870	355 321 317 314 305	570 460 493 473 401 416	233 230 197 198 193	389 306 1,710 1,410 1,340 653	283 406 298 248 360 306	1,950 3,390 3,150 2,520 2,140
TOTAL	2,904	4,498	4,804	6,179	5,137	44,730	35,876	66,206	11,559	21,539	31,074	
MEAN	93.7	150	155	199	183	1,443	1,196	2,136	385	695	1,002	
MAX	126	318	523	978	540	3,580	3,850	6,230	801	1,710	3,820	
MIN	35	93	101	115	120	119	305	401	193	176	241	
CFSM	0.09	0.14	0.15	0.19	0.17	1.36	1.13	2.01	0.36	0.66	0.95	
IN.	0.10	0.16	0.17	0.22	0.18	1.57	1.26	2.32	0.41	0.76	1.09	
STATIS		ONTHLY M	EAN DATA	FOR WAT		1984 - 2003,	BY WATE	R YEAR (W	YY)			
MEAN	587	903	1,134	1,314	1,643	1,847	1,826	1,196	964	464	393	81.5
MAX	2,797	3,330	2,421	4,615	3,728	3,612	3,071	3,675	2,915	1,413	1,157	
(WY)	(2002)	(1993)	(1991)	(1993)	(2001)	(1985)	(1999)	(1996)	(1989)	(1986)	(1998)	
MIN	78.6	98.8	155	145	183	689	607	272	153	122	111	
(WY)	(1995)	(2000)	(2003)	(2000)	(2003)	(2000)	(1986)	(1988)	(1988)	(1988)	(2002)	
SUMMA	RY STATIS	STICS]	FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	/EAR	WATER	YEARS 19	84 - 2003
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS			IUM	323,283 886 7,010 Feb 1 35 Oct 2 45 Sep 13 0.84 11.35 2,890			280,025 767 6,230 May 10 35 Oct 2 84 Oct 1 6,640 May 10 11.91 May 10 0.72 9.83 2,360			1,053 1,532 642 13,100 Feb 26, 1995 35 Oct 2, 2002 45 Sep 13, 2002 13,400 Jan 5, 1993 18.40 Jan 5, 1993 0.99 13.50 2,700 500		
	ENT EXCE			317 88			30 10				139	

e Estimated

04180500 ST. JOSEPH RIVER NEAR FORT WAYNE, IN—Continued



04181500 ST. MARYS RIVER AT DECATUR, IN

 $LOCATION.--Lat\ 40^{\circ}50'55",\ long\ 84^{\circ}56'16",\ in\ SW^{1}\!\!/_{4}SW^{1}\!\!/_{4}\ sec. 27,\ T.28\ N.,\ R.14\ E.,\ Adams\ County,\ Hydrologic\ Unit\ 04100004,\ (DECATUR,\ IN\ quadrangle),\ on\ left\ downstream\ side\ of\ bridge\ on\ U.S.\ Highway\ 27,\ 0.5\ mi\ upstream\ from\ Holthouse\ Ditch,\ 1.3\ mi\ north\ of\ Decatur,\ and\ at\ mile\ 29.1.$

DRAINAGE AREA.--621 mi².

PERIOD OF RECORD.--October 1946 to current year. Monthly discharge only for some periods, published in WSP 1307. Gage-height records collected at site 0.5 mi upstream January 1932 to November 1954, and at present site thereafter are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1174: 1948. WSP 1337: 1947. WSP 1627: 1950. WSP 1912: 1955, drainage area.

GAGE.--Water-stage recorder. Datum of gage is 760.44 ft above National Geodetic Vertical Datum of 1929. Prior to July 27, 1948, nonrecording gage at same site and datum.

REMARKS.--Records fair, except for estimated daily discharges, which are poor. Flow regulated by Grand Lake. Slight diversion from or into Wabash River Basin and into Miami and Erie Canal.

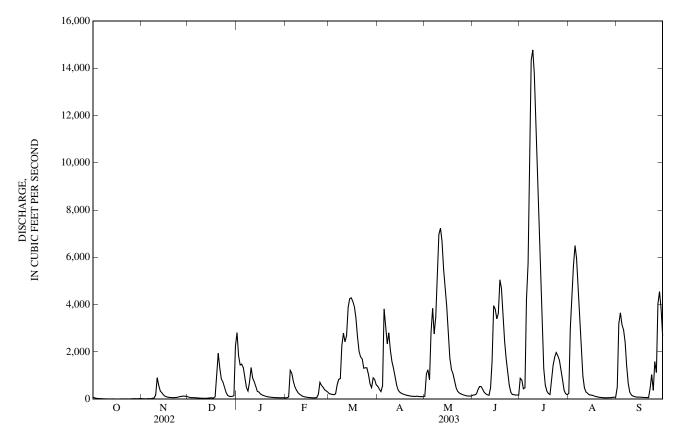
DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	26	91	2,820	e58	e230	539	120	176	886	252	517
2	57	20	69	1,840	e59	e215	419	1,070	182	808	3,000	3,180
3	37	17	64	1,440	e90	e200	320	1,240	225	439	4,250	3,650
4	29	18	65	1,480	1,220	e190	566	813	399	484	5,640	3,150
5	26	22	63	1,340	1,100	e230	3,820	2,830	533	4,230	6,500	2,950
6	22	23	57	934	753	612	3,050	3,840	534	5,730	5,960	2,420
7	18	19	48	505	e520	837	2,330	2,760	417	11,000	4,580	1,420
8	15	39	45	343	e380	868	2,800	3,480	291	14,300	3,210	666
9	e12	41	39	726	e270	2,260	2,060	5,100	225	14,800	2,010	296
10	e11	177	38	1,340	e210	2,800	1,590	6,980	187	13,800	977	177
11	e10	905	38	902	e160	2,420	1,300	7,230	162	11,800	486	132
12	e9.8	572	36	739	e120	2,690	945	6,690	476	9,230	303	110
13	e12	339	41	536	e100	3,880	597	5,500	1,600	6,610	254	94
14	e11	268	48	e326	e90	4,250	388	4,650	3,950	4,530	188	85
15	e10	182	56	e300	e78	4,290	297	3,920	3,820	2,930	174	87
16	e9.8	126	55	e220	e70	4,140	251	2,890	3,400	1,290	164	84
17	e9.6	97	47	e180	e65	3,910	218	1,740	3,630	600	138	77
18	e9.4	82	97	e150	61	3,440	194	1,260	5,050	337	116	73
19	e12	74	947	e130	58	2,630	173	1,080	4,690	241	99	71
20	e13	69	1,940	e110	59	2,010	157	778	3,610	194	86	69
21	e12	64	1,300	e98	68	1,790	144	493	2,440	770	76	66
22	12	69	847	e88	204	1,700	128	332	1,710	1,440	71	463
23	11	70	726	e80	714	1,310	123	266	1,140	1,780	65	1,040
24	11	80	517	e72	e580	1,330	117	224	586	1,970	62	376
25	17	101	289	e68	e500	1,320	117	195	286	1,840	58	1,590
26 27 28 29 30 31	17 21 18 21 21 31	115 125 131 125 111	e160 e120 e110 e120 e140 2,240	e65 e63 e61 e60 e59 e59	e400 e350 e300 	1,040 655 490 905 827 600	127 115 108 110 99	176 153 138 133 128 140	194 191 172 180 171	1,660 1,220 839 386 237 185	63 64 64 79 81 87	1,120 4,030 4,560 3,810 2,680
TOTAL	605.6	4,107	10,453	17,134	8,637	54,069	23,202	66,349	40,627	116,566	39,157	39,043
MEAN	19.5	137	337	553	308	1,744	773	2,140	1,354	3,760	1,263	1,301
MAX	80	905	2,240	2,820	1,220	4,290	3,820	7,230	5,050	14,800	6,500	4,560
MIN	9.4	17	36	59	58	190	99	120	162	185	58	66
CFSM	0.03	0.22	0.54	0.89	0.50	2.81	1.25	3.45	2.18	6.06	2.03	2.10
IN.	0.04	0.25	0.63	1.03	0.52	3.24	1.39	3.97	2.43	6.98	2.35	2.34
STATIST	ICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1947 - 2003	, BY WATE	R YEAR (W	/Y)			
MEAN	140	299	558	716	872	1,087	953	527	463	379	158	127
MAX	1,250	1,988	2,079	3,834	2,546	3,263	3,409	2,140	2,075	3,760	1,263	1,301
(WY)	(2002)	(1993)	(1991)	(1950)	(1950)	(1978)	(1957)	(2003)	(1981)	(2003)	(2003)	(2003)
MIN	7.52	13.7	12.8	21.0	30.5	125	79.3	55.6	28.1	20.6	15.5	12.6
(WY)	(1964)	(1965)	(1964)	(1961)	(1964)	(1981)	(1966)	(1988)	(1988)	(1965)	(1963)	(1963)

04181500 ST. MARYS RIVER AT DECATUR, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	NDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEARS 1947 - 2003		
ANNUAL TOTAL	164,537.6		419,949.6				
ANNUAL MEAN	451		1,151		518		
HIGHEST ANNUAL MEAN					1,151	2003	
LOWEST ANNUAL MEAN					140	1966	
HIGHEST DAILY MEAN	5,330	Mar 31	14,800	Jul 9	14,800	Jul 9, 2003	
LOWEST DAILY MEAN	9.4	Oct 18	9.4	Oct 18	5.4	Oct 18, 1960	
ANNUAL SEVEN-DAY MINIMUM	10	Oct 12	10	Oct 12	6.2	Oct 12, 1963	
MAXIMUM PEAK FLOW			15,000	Jul 9	15,000	Jul 9, 2003	
MAXIMUM PEAK STAGE			26.92	Jul 9	26.92	Jul 9, 2003	
ANNUAL RUNOFF (CFSM)	0.73		1.85		0.83		
ANNUAL RUNOFF (INCHES)	9.86		25.16		11.33		
10 PERCENT EXCEEDS	1,360		3,710		1,510		
50 PERCENT EXCEEDS	100		230		130		
90 PERCENT EXCEEDS	24		37		23		

e Estimated



04182000 ST. MARYS RIVER NEAR FORT WAYNE, IN

LOCATION.--Lat 40°59'16", long 85°06'43", in A. LaFontaine Reserve, T.29 N., R.12 E., Allen County, Hydrologic Unit 04100004, (POE, IN quadrangle), on left bank 130 ft downstream from Anthony Boulevard Extension, 0.8 mi downstream from Houk Ditch, 5 mi south of Fort Wayne, and 10.8 mi upstream

DRAINAGE AREA.--762 mi².

PERIOD OF RECORD.--October 1930 to current year. Monthly discharge only for some periods, published in WSP 1307. Fragmentary gage-height records for period November 1924 to October 1927 are available from the District Office.

REVISED RECORDS.--WSP 974: 1942. WSP 1337: 1933, 1947. WSP 1912: 1954, 1955, 1960, drainage area. WDR IN- 82-1: 1973, 1974, 1978, 1979.

GAGE.--Water-stage recorder. Datum of gage is 748.97 ft above National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to Apr. 13, 1939, nonrecording gage on upstream highway bridge at same datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. The flow is sometimes regulated by Grand Lake. Slight diversion from or into Wabash River Basin and into Miami and Erie Canal. During extreme floods, some water bypasses gage and flows through Houk Ditch and Paul Trier Ditch into the Maumee River. Period of record computations do not include 1934 water year.

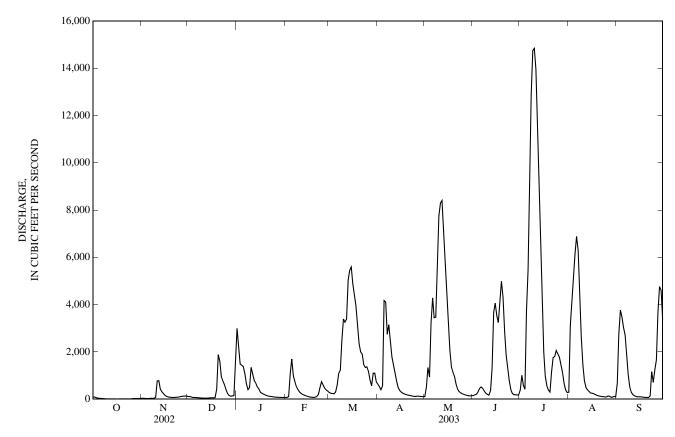
DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	35	111	2,990	e73	e275	634	108	156	380	294	667
2	89	39	111	2,220	e74	e250	527	506	182	1,010	3,120	2,750
3	63	32	87	1,490	e110	e240	400	1,340	206	583	3,960	3,770
4	44	29	e70	1,440	1,080	e230	560	933	304	421	4,910	3,470
5	37	25	e72	1,380	1,700	e300	4,170	3,230	452	3,730	6,160	3,030
6	34	29	e68	1,070	988	602	4,110	4,280	519	5,480	6,890	2,710
7	27	38	e64	654	e730	1,100	2,750	3,450	455	9,090	6,300	1,870
8	21	33	e56	403	e520	1,220	3,150	3,470	340	12,900	4,510	1,020
9	15	38	e50	493	e400	2,460	2,470	5,970	254	14,800	2,620	516
10	12	79	e47	1,350	e300	3,390	1,790	7,760	202	14,800	1,460	287
11	11	769	e43	1,070	e240	3,260	1,450	8,300	170	14,000	784	190
12	14	781	e42	791	e200	3,390	1,110	8,410	363	12,100	490	142
13	14	426	e43	673	e170	5,040	757	7,310	1,300	9,870	395	115
14	13	311	e51	e520	e140	5,440	497	5,860	3,670	7,200	324	100
15	12	237	e57	e430	e120	5,590	364	4,770	4,060	4,420	261	100
16	11	163	e61	e290	e100	4,880	296	3,460	3,530	1,990	253	100
17	11	119	e56	e250	e88	4,430	253	2,100	3,240	964	228	90
18	11	95	e68	e210	e80	3,950	221	1,360	4,130	564	193	79
19	13	83	428	e180	e73	3,150	197	1,140	4,990	386	163	73
20	13	76	1,880	e150	e84	2,340	175	954	4,310	300	140	72
21	14	72	1,600	e130	e110	2,000	166	637	2,850	1,140	125	69
22	12	73	952	e120	e200	1,900	149	420	1,870	1,760	115	138
23	12	80	763	e110	e480	1,460	131	317	1,300	1,800	104	1,160
24	12	84	614	e100	e740	1,330	121	267	775	2,060	97	714
25	14	95	397	e90	e600	1,370	116	227	399	1,920	91	1,230
26 27 28 29 30 31	21 31 25 27 26 33	111 123 128 134 125	239 e150 e125 e137 e150 1,770	e84 e79 e77 e75 e74 e73	e470 e390 e340 	1,180 815 565 1,090 1,100 732	127 129 116 111 110	202 179 158 146 139 149	239 190 190 173 181	1,790 1,450 1,140 674 391 281	131 126 83 82 117 101	1,660 3,650 4,760 4,610 3,380
TOTAL	775	4,462	10,362	19,066	10,600	65,079	27,157	77,552	41,000	129,394	44,627	42,522
MEAN	25.0	149	334	615	379	2,099	905	2,502	1,367	4,174	1,440	1,417
MAX	89	781	1,880	2,990	1,700	5,590	4,170	8,410	4,990	14,800	6,890	4,760
MIN	11	25	42	73	73	230	110	108	156	281	82	69
CFSM	0.03	0.20	0.44	0.81	0.50	2.76	1.19	3.28	1.79	5.48	1.89	1.86
IN.	0.04	0.22	0.51	0.93	0.52	3.18	1.33	3.79	2.00	6.32	2.18	2.08
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1931 - 2003	BY WATE	R YEAR (W	YY)			
MEAN	164	322	624	855	1,030	1,316	1,147	675	538	398	177	132
MAX	1,595	2,612	2,349	4,897	3,404	4,070	4,119	3,866	2,545	4,174	1,440	1,453
(WY)	(2002)	(1973)	(1978)	(1950)	(1959)	(1978)	(1957)	(1943)	(1981)	(2003)	(2003)	(1992)
MIN	8.28	16.9	16.7	21.3	45.4	87.0	90.7	59.9	34.3	11.9	13.9	11.6
(WY)	(1964)	(1965)	(1964)	(1977)	(1964)	(1941)	(1946)	(1931)	(1988)	(1936)	(1932)	(1944)

04182000 ST. MARYS RIVER NEAR FORT WAYNE, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	NDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEARS	3 1931 - 2003
ANNUAL TOTAL	202,238		472,596			
ANNUAL MEAN	554		1,295		623	
HIGHEST ANNUAL MEAN					1,295	2003
LOWEST ANNUAL MEAN					174	1966
HIGHEST DAILY MEAN	6,500	Apr 1	14,800	Jul 9	14,800	Jul 9, 2003
LOWEST DAILY MEAN	11	Oct 11	11	Oct 11	3.4	Oct 19, 1934
ANNUAL SEVEN-DAY MINIMUM	12	Oct 14	12	Oct 14	4.9	Oct 15, 1934
MAXIMUM PEAK FLOW			16,000	Jul 9	16,000	Jul 9, 2003
MAXIMUM PEAK STAGE			21.20	Jul 9	21.20	Jul 9, 2003
ANNUAL RUNOFF (CFSM)	0.73		1.70		0.82	
ANNUAL RUNOFF (INCHES)	9.87		23.07		11.11	
10 PERCENT EXCEEDS	1,590		4,000		1,800	
50 PERCENT EXCEEDS	125		300		151	
90 PERCENT EXCEEDS	32		41		25	

e Estimated



04182900 MAUMEE RIVER AT FORT WAYNE, IN

LOCATION.--Lat $41^{\circ}04^{\circ}55^{\circ}$, long $85^{\circ}06^{\circ}53^{\circ}$, in $SE^{1}_{4}NE^{1}_{4}$ sec. 1, T.30 N., R.12 E., Allen County, Hydrologic Unit 04100005, (FORT WAYNE EAST, IN quadrangle), on left bank at downstream side of Hosey Dam, 250 ft upstream of Anthony Boulevard, 1.2 mi below confluence of St. Joseph and St. Mary's Rivers and 1.5 mi upstream of Highway 930.

DRAINAGE AREA.--1,926 mi².

PERIOD OF RECORD.--October 1997 to current year.

GAGE.--Water-stage recorder. Datum of gage 730.07 ft above National Geodetic Vertical Datum of 1929. Prior to December 12, 1962, nonrecording gage on downstream side of bridge at same datum. Dec. 12, 1962 to Aug. 13, 1997 water-stage recorder at site 310 ft downstream at same datum.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 21.24 ft, July 10, 2003; minimum gage height, 0.75 ft, Sept. 29, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 21.24 ft, July 10; minimum gage height, 0.81 ft, Oct. 22.

GAGE HEIGHT, FEET WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1.20 1.23 1.13 1.48 1.43	1.05 1.06 1.05 1.01 1.17	1.42 1.40 1.28 1.30 1.30	8.03 5.96 4.78 4.67 4.51	1.31 1.38 2.00 4.11 4.20	2.18 1.96 2.03	5.10 4.78 4.22 7.96 14.48	2.90 4.57 5.20 3.97 14.62	2.24 2.30 2.45 2.68 2.62	2.45 3.12 2.48 6.42 10.31	8.80 12.24 11.72 13.15 14.84	10.51 14.33 13.32 11.21 10.11
6	1.15	1.10	1.33	3.76	3.02	2.37	12.64	13.21	3.26	12.34	14.65	8.47
7	1.02	1.12	1.32	2.72	2.77	3.17	11.24	11.00	2.04	16.54	12.75	5.69
8	0.99	1.08	1.27	2.34	2.35	4.75	10.96	10.11	2.37	19.10	9.49	4.60
9	1.14	1.10	1.23	2.93	2.09	7.13	8.87	18.29	2.33	21.10	7.57	3.61
10	1.11	3.34	1.24	4.72	1.85	7.36	7.91	18.62	2.19	20.95	4.72	2.96
11	1.08	3.77	1.22	3.66	1.72	6.86	6.91	18.80	1.82	20.06	3.82	2.15
12	0.97	3.07	1.23	3.05	1.63	7.52	6.00	18.08	4.02	18.35	3.56	1.97
13	0.88	2.04	1.24	2.55	1.60	12.86	4.64	16.85	7.93	15.94	3.26	2.54
14	1.08	1.78	1.25	2.10	1.55	13.23	3.99	15.00	9.35	12.40	2.90	2.47
15	0.93	1.72	1.29	1.80	1.48	13.59	3.47	13.61	8.87	8.46	2.13	1.71
16	0.96	1.57	1.28	1.75	1.44	12.64	3.18	11.30	8.35	5.08	2.46	2.27
17	0.98	1.47	1.34	1.76	1.42	11.79	3.01	8.53	8.20	3.33	2.45	1.68
18	1.28	1.37	1.49	2.48	1.36	10.62	2.75	6.62	9.49	2.69	1.67	1.77
19	1.48	1.34	3.08	2.07	1.39	9.53	2.56	6.05	10.46	2.18	1.88	1.87
20	1.00	1.34	5.71	2.24	1.44	9.66	2.55	5.13	9.06	1.96	2.13	1.28
21	0.91	1.46	4.62	1.46	1.47	9.11	2.11	4.78	6.56	9.02	1.72	1.73
22	0.85	1.62	3.42	1.57	2.17	8.23	2.47	3.31	5.27	7.69	1.81	3.69
23	0.95	1.57	3.07	2.08	2.29	6.14	1.91	3.35	4.30	7.78	1.65	5.36
24	0.94	1.54	2.62	2.06	2.49	6.74	2.01	3.23	2.96	6.66	1.37	4.44
25	1.33	1.52	2.03	1.31	2.55	5.95	2.25	3.12	2.24	5.97	1.87	7.96
26 27 28 29 30 31	1.13 1.14 1.06 1.07 1.05 1.06	1.53 1.48 1.48 1.48 1.46	1.79 1.74 1.70 1.73 2.40 7.45	1.49 1.99 1.30 1.27 1.28 1.29	2.56 2.59 2.49 	5.56 4.55 5.93 8.81 6.21	1.98 1.97 1.92 1.92 2.03	2.77 2.98 2.38 2.61 1.53 2.27	2.01 1.88 1.95 1.86 1.88	5.22 5.37 7.31 5.08 4.78 2.55	2.81 2.17 1.30 2.22 2.15 1.77	8.40 13.32 12.70 11.62 9.47
TOTAL MEAN MAX MIN	34.01 1.10 1.48 0.85	47.69 1.59 3.77 1.01	64.79 2.09 7.45 1.22	84.98 2.74 8.03 1.27	58.72 2.10 4.20 1.31	 	147.79 4.93 14.48 1.91	254.79 8.22 18.80 1.53	132.94 4.43 10.46 1.82	272.69 8.80 21.10 1.96	157.03 5.07 14.84 1.30	183.21 6.11 14.33 1.28

04183000 MAUMEE RIVER AT NEW HAVEN, IN

LOCATION.--Lat 41°05′06″, long 85°01′20″, in SE½, NE½, sec. 2, T.30 N., R.13 E., Allen County, Hydrologic Unit 04100005, (FORT WAYNE EAST, IN quadrangle), 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 National Geodetic Vertical Datum of 1929. Prior to Sept. 7, 1956, nonrecording gage, 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 2002 TO SEPTEMBER 2003

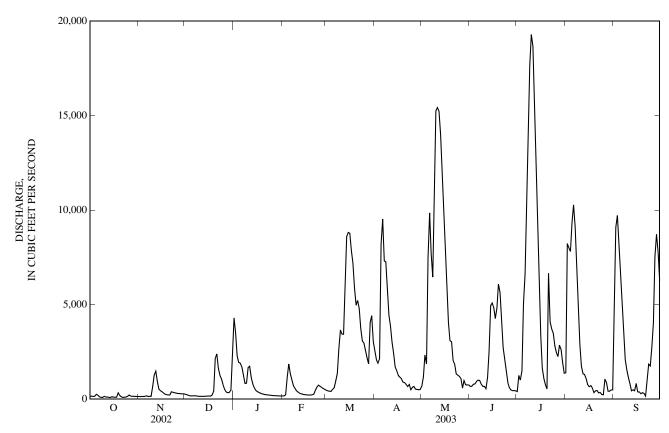
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	153	138	258	4,300	e170	e470	2,580	683	671	400	1,400	4,260
2	158	137	232	3,530	e176	e440	2,080	1,170	685	1,260	8,230	9,080
3	148	141	196	2,290	e230	e420	1,900	2,340	790	1,010	8,000	9,720
4	153	141	171	1,940	1,170	e410	2,140	1,850	806	1,500	7,810	7,980
5	257	147	177	1,900	1,860	517	8,190	7,490	943	5,050	9,360	6,460
6	210	176	178	1,700	1,340	603	9,530	9,850	1,000	6,620	10,300	5,240
7	121	143	179	1,260	e1,000	956	7,310	7,700	990	11,200	9,110	3,810
8	96	152	174	833	e700	1,360	7,260	6,460	799	13,800	7,160	2,100
9	94	146	154	844	e560	2,660	5,840	10,900	675	17,700	4,650	1,570
10	146	668	153	1,670	e440	3,660	4,450	15,200	676	19,300	2,880	1,160
11	114	1,270	153	1,740	e370	3,440	3,850	15,400	552	18,700	1,750	809
12	117	1,480	148	e1,150	e310	3,440	3,010	15,200	1,150	16,800	1,340	441
13	95	948	157	e800	e280	6,290	2,410	14,000	2,530	13,800	1,310	499
14	94	529	157	e600	e260	8,600	1,710	11,900	4,950	10,300	1,090	445
15	126	448	163	e450	e240	8,820	1,510	10,300	5,090	6,520	773	828
16	109	391	168	e400	e230	8,780	1,260	8,490	4,830	3,360	659	381
17	104	320	159	e350	e224	7,850	1,170	5,840	4,260	1,640	718	385
18	103	262	215	e310	e220	7,200	1,080	4,050	4,820	1,090	590	290
19	334	236	427	e280	219	5,870	901	3,100	6,090	773	343	340
20	195	223	2,150	e260	233	4,970	873	3,040	5,640	536	441	298
21	121	222	2,390	e240	261	5,220	782	2,060	3,970	6,650	459	155
22	92	390	1,630	e230	470	4,780	668	1,850	2,720	4,080	328	1,010
23	104	363	1,260	e220	633	3,740	776	1,340	2,090	3,710	353	1,850
24	113	340	1,080	e210	e740	3,080	496	1,270	1,470	3,500	251	1,760
25	147	321	759	e200	e680	2,980	631	1,210	873	2,820	228	2,720
26 27 28 29 30 31	217 162 152 145 152 140	306 298 285 280 279	522 e380 e340 e360 e470 2,110	e190 e186 e182 e177 e172 e170	e620 e560 e520 	2,590 2,200 1,870 4,070 4,410 3,030	667 526 516 499 514	1,090 587 988 765 753 752	603 482 446 454 438	2,470 2,250 2,860 2,630 1,950 1,370	1,070 883 427 419 484 489	4,030 7,530 8,720 7,780 6,260
TOTAL	4,472	11,180	17,070	28,784	14,716	114,726	75,129	167,628	61,493	185,649	83,305	97,911
MEAN	144	373	551	929	526	3,701	2,504	5,407	2,050	5,989	2,687	3,264
MAX	334	1,480	2,390	4,300	1,860	8,820	9,530	15,400	6,090	19,300	10,300	9,720
MIN	92	137	148	170	170	410	496	587	438	400	228	155
CFSM	0.07	0.19	0.28	0.47	0.27	1.88	1.27	2.75	1.04	3.04	1.37	1.66
IN.	0.08	0.21	0.32	0.54	0.28	2.17	1.42	3.17	1.16	3.51	1.58	1.85
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1957 - 2003,	BY WATE	R YEAR (W	Y)			
MEAN	630	1,210	2,056	1,931	2,701	3,682	3,440	2,019	1,656	1,104	616	577
MAX	5,219	6,523	6,292	7,203	7,649	11,460	7,955	6,914	6,480	5,989	2,687	3,264
(WY)	(2002)	(1993)	(1968)	(1993)	(1976)	(1982)	(1957)	(1996)	(1981)	(2003)	(2003)	(2003)
MIN	62.3	102	96.4	119	161	1,181	789	382	122	197	99.1	91.2
(WY)	(1964)	(1965)	(1964)	(1963)	(1964)	(1981)	(1971)	(1988)	(1988)	(1964)	(1962)	(1963)

04183000 MAUMEE RIVER AT NEW HAVEN, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	ENDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEARS 1957 - 2003		
ANNUAL TOTAL	612,911		862,063				
ANNUAL MEAN	1,679		2,362		1,796		
HIGHEST ANNUAL MEAN					2,975	1993	
LOWEST ANNUAL MEAN					669	1963	
HIGHEST DAILY MEAN	13,300	Feb 2	19,300	Jul 10	26,300	Mar 17, 1982	
LOWEST DAILY MEAN	88	Aug 29	92	Oct 22	48	Oct 6, 1963	
ANNUAL SEVEN-DAY MINIMUM	103	Sep 4	107	Oct 12	55	Oct 4, 1963	
MAXIMUM PEAK FLOW		•	19,400	Jul 10	26,600	Mar 17, 1982	
MAXIMUM PEAK STAGE			21.57	Jul 10	25.49	Mar 17, 1982	
ANNUAL RUNOFF (CFSM)	0.85		1.20		0.91		
ANNUAL RUNOFF (INCHES)	11.59		16.30		12.40		
10 PERCENT EXCEEDS	5,110		7,510		4,890		
50 PERCENT EXCEEDS	591		782		777		
90 PERCENT EXCEEDS	123		155		156		

e Estimated



05515000 KANKAKEE RIVER NEAR NORTH LIBERTY, IN

LOCATION.--Lat 41°33'50", long 86°29'50", in NW¹/₄NE¹/₄ sec.23, T.36 N., R.1 W., St. Joseph County, Hydrologic Unit 07120001, (NORTH LIBERTY, IN quadrangle), on left bank at upstream side of bridge on county highway named "New Road", 2.7 mi upstream from Little Kankakee River, 4 mi northwest of North Liberty, and at mile 126.9.

DRAINAGE AREA.--174 mi², of which 58.2 mi² does not contribute directly to surface runoff.

PERIOD OF RECORD .-- January 1951 to October 2003 (discontinued).

REVISED RECORDS.--WSP 1915: 1952, 1956-59. WSP 2115: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 680.04 ft above National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to June 26, 1956, nonrecording gage on downstream side of bridge; June 26, 1956 to Sept. 3, 1996, water-stage recorder on left bank at downstream side of bridge, all at same datum

REMARKS.--Records good except for estimated daily discharges and those above 300 ft3/s (backwater), which are poor.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

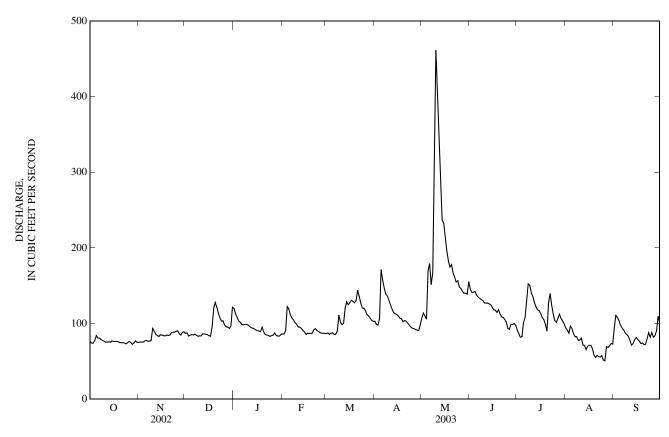
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	75	87	120	86	87	103	107	146	91	94	94
2	74	76	88	113	86	88	99	114	141	87	91	111
3	74	75	84	108	91	86	98	110	141	82	87	108
4	78	75	84	103	122	87	107	106	143	83	97	104
5	84	77	86	102	119	88	171	170	138	101	93	98
6 7 8 9 10	81 81 79 78 77	78 76 77 77 93	85 86 84 83 84	99 98 99 99	112 107 105 101 99	86 86 90 111 102	158 146 139 136 131	179 151 167 342 461	135 133 132 131 127	108 129 152 150 141	86 82 83 78 78	94 92 88 85 83
11	75	90	84	96	96	99	125	386	127	136	81	78
12	76	86	86	94	95	100	119	333	127	128	72	72
13	76	84	86	94	94	121	115	278	126	122	71	73
14	75	83	86	93	91	129	113	237	125	118	66	78
15	77	85	85	91	89	125	112	233	121	117	70	82
16	76	85	84	91	86	128	110	215	118	113	71	79
17	76	84	83	90	87	131	107	196	118	108	71	77
18	76	84	95	89	87	129	106	182	115	105	67	73
19	76	85	121	95	87	127	102	175	118	99	59	74
20	75	84	128	89	87	130	104	178	113	90	55	72
21	75	85	122	85	92	144	103	167	109	127	58	73
22	75	88	114	85	93	136	100	161	108	140	56	80
23	74	89	108	e84	91	127	98	155	105	124	56	88
24	73	89	103	e83	89	120	95	157	102	113	58	e82
25	75	90	104	e84	88	120	94	148	94	104	52	e88
26 27 28 29 30 31	76 75 72 74 77 75	90 86 85 88 89	98 96 95 93 97 122	85 88 84 83 83 86	87 87 87 	117 112 110 107 104 103	93 92 91 91 98	146 142 140 140 139 155	92 99 99 100 98	102 107 113 107 104 99	51 70 68 71 74 73	e82 e84 e90 e110 e100
TOTAL	2,362	2,508	2,941	2,891	2,641	3,430	3,356	5,970	3,581	3,500	2,239	2,592
MEAN	76.2	83.6	94.9	93.3	94.3	111	112	193	119	113	72.2	86.4
MAX	84	93	128	120	122	144	171	461	146	152	97	111
MIN	72	75	83	83	86	86	91	106	92	82	51	72
CFSM	0.44	0.48	0.55	0.54	0.54	0.64	0.64	1.11	0.69	0.65	0.42	0.50
IN.	0.50	0.54	0.63	0.62	0.56	0.73	0.72	1.28	0.77	0.75	0.48	0.55
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1951 - 2003	, BY WATE	R YEAR (W	YY)			
MEAN	135	153	165	165	178	219	210	180	159	127	106	104
MAX	333	303	341	367	298	471	310	335	410	390	273	222
(WY)	(1994)	(1991)	(1991)	(1991)	(1991)	(1982)	(1985)	(1996)	(1996)	(1996)	(1995)	(1993)
MIN	70.1	67.3	77.5	78.0	76.3	111	112	98.4	84.0	64.2	63.1	64.4
(WY)	(1954)	(1965)	(1961)	(1961)	(1963)	(2003)	(1987)	(1958)	(1971)	(1971)	(1964)	(1953)

05515000 KANKAKEE RIVER NEAR NORTH LIBERTY, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1951 - 2003		
ANNUAL TOTAL	50,104	38,011			
ANNUAL MEAN	137	104	158		
HIGHEST ANNUAL MEAN			245 1991		
LOWEST ANNUAL MEAN			95.4 1964		
HIGHEST DAILY MEAN	580 May 13	461 May 10	903 Mar 17, 1982		
LOWEST DAILY MEAN	60 Sep 9	51 Aug 26	44 Aug 4, 1988		
ANNUAL SEVEN-DAY MINIMUM	62 Sep 7	55 Aug 20	51 Sep 7, 1964		
MAXIMUM PEAK FLOW	1	483 May 9	908 Mar 17, 1982		
MAXIMUM PEAK STAGE		5.27 May 9	9.04 Jun 27, 1968		
ANNUAL RUNOFF (CFSM)	0.79	0.60	0.91		
ANNUAL RUNOFF (INCHES)	10.71	8.13	12.35		
10 PERCENT EXCEEDS	213	140	258		
50 PERCENT EXCEEDS	119	93	137		
90 PERCENT EXCEEDS	75	75	82		

e Estimated



05515500 KANKAKEE RIVER AT DAVIS, IN

LOCATION.--Lat 41°24′00", long 86°42′04", in SE ½NE½ sec.13, T.34 N., R.3 W., Starke County, Hydrologic Unit 07120001, (KINGSFORD HEIGHTS, IN quadrangle), on left bank at downstream side of bridge on U.S. Highway 30 at Davis, 0.5 mi downstream from Mill Creek, 4 mi east of Hanna, and at mile 110 9

DRAINAGE AREA.--537 mi², of which 137 mi² does not contribute directly to surface runoff.

PERIOD OF RECORD.--July 1905 to July 1906 and October 1924 to current year. Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WSP 1338: 1953. WSP 2115: Drainage area.

GAGE.--Water-stage recorder and Acoustic Doppler Velocity meter. Datum of gage is 664.68 ft above National Geodetic Vertical Datum of 1929. July 13, 1905, to July 21, 1906, nonrecording gage at site 50 ft downstream at different datum. July 28, 1925, to May 18, 1929, nonrecording gage on bridge 0.5 mi downstream at different datum. Apr. 19, 1931, to Nov. 3, 1953, nonrecording gage at present site and datum.

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

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

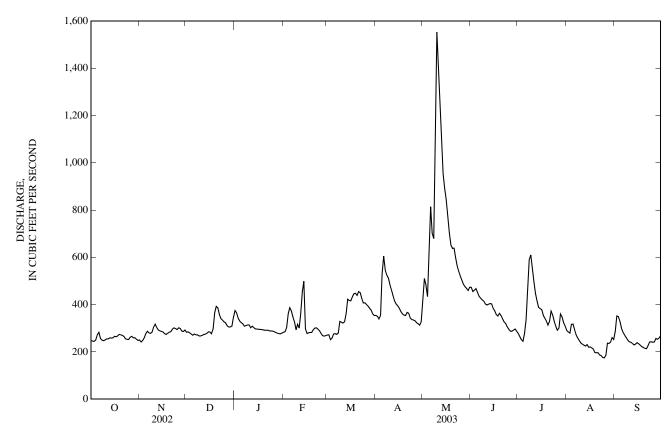
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	248	e250	283	375	e283	e271	355	424	473	278	290	287
2	246	e242	285	366	e286	e272	350	511	456	264	284	352
3	245	e249	280	344	e303	e252	339	484	462	252	279	349
4	250	e259	276	331	362	e258	354	434	468	245	317	329
5	273	e277	270	323	387	e275	528	590	451	277	318	300
6	e283	287	276	319	374	e277	605	814	435	336	295	282
7	257	281	272	309	347	274	546	703	427	467	272	271
8	250	278	272	311	e327	280	525	679	420	589	259	260
9	247	e283	268	314	e293	329	512	1,080	414	610	248	250
10	250	305	267	314	317	325	485	1,550	403	557	238	243
11	255	318	270	302	301	322	462	1,400	398	497	233	241
12	255	303	274	e309	e363	327	438	1,240	402	448	228	236
13	e259	293	275	303	e454	362	415	1,080	404	415	225	230
14	e259	289	279	298	e499	423	403	953	403	388	231	233
15	e260	287	285	e297	298	417	395	890	384	383	220	239
16	266	284	284	e296	278	416	385	843	374	379	221	234
17	264	277	276	e295	281	433	371	768	358	355	217	228
18	268	274	297	e295	282	446	361	700	352	342	212	222
19	274	279	366	e293	282	448	356	651	363	331	197	219
20	e272	283	392	e292	e294	439	354	638	354	313	197	215
21	e270	285	387	e292	e300	455	367	639	340	329	197	213
22	e266	296	359	e292	302	451	364	597	327	373	187	227
23	e255	301	341	e289	296	427	343	563	320	356	184	242
24	253	298	335	e289	289	407	337	541	306	329	176	243
25	252	294	327	e288	278	408	335	521	295	308	175	241
26 27 28 29 30 31	262 266 e260 e260 e253 e249	302 299 288 286 293	323 310 305 306 309 346	e286 e282 e280 e277 e276 e279	e269 e267 e269 	401 394 384 376 361 354	332 324 319 313 327	504 486 476 468 460 474	288 287 292 297 287	292 301 361 348 324 309	186 237 236 241 260 253	242 257 254 259 269
TOTAL	8,027	8,540	9,395	9,416	8,881	11,264	11,900	22,161	11,240	11,356	7,313	7,667
MEAN	259	285	303	304	317	363	397	715	375	366	236	256
MAX	283	318	392	375	499	455	605	1,550	473	610	318	352
MIN	245	242	267	276	267	252	313	424	287	245	175	213
CFSM	0.48	0.53	0.56	0.57	0.59	0.68	0.74	1.33	0.70	0.68	0.44	0.48
IN.	0.56	0.59	0.65	0.65	0.62	0.78	0.82	1.54	0.78	0.79	0.51	0.53
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 2003, BY WATER YEAR (WY)												
MEAN	410	475	517	543	585	715	736	632	532	426	359	344
MAX	1,162	988	1,191	1,275	990	1,376	1,218	1,067	1,076	983	804	718
(WY)	(1955)	(1991)	(1928)	(1993)	(1991)	(1985)	(1982)	(1983)	(1996)	(1996)	(1996)	(1972)
MIN	198	230	236	235	236	325	397	296	248	205	174	179
(WY)	(1964)	(1965)	(1964)	(1963)	(1964)	(1934)	(2003)	(1934)	(1934)	(1934)	(1941)	(1941)

05515500 KANKAKEE RIVER AT DAVIS, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	ENDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEARS 1926 - 2003		
ANNUAL TOTAL	182,746		127,160				
ANNUAL MEAN	501		348		522		
HIGHEST ANNUAL MEAN					823	1991	
LOWEST ANNUAL MEAN					293	1964	
HIGHEST DAILY MEAN	1,740	May 13	1,550	May 10	1,920	Mar 20, 1982	
LOWEST DAILY MEAN	195	Sep 13	175	Aug 25	154	Aug 30, 1941	
ANNUAL SEVEN-DAY MINIMUM	199	Sep 8	186	Aug 20	156	Aug 28, 1941	
MAXIMUM PEAK FLOW		•	1,590	May 10	1,920	Mar 20, 1982	
MAXIMUM PEAK STAGE			11.69	May 10	13.79	Jul 19, 1996	
ANNUAL RUNOFF (CFSM)	0.93		0.65	·	0.97		
ANNUAL RUNOFF (INCHES)	12.66		8.81		13.21		
10 PERCENT EXCEEDS	884		479		888		
50 PERCENT EXCEEDS	413		300		450		
90 PERCENT EXCEEDS	241		243		276		

e Estimated



05516500 YELLOW RIVER AT PLYMOUTH, IN

LOCATION.--Lat 41°20'25", long 86°18'16", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.13, T.33 N., R.2 E., Marshall County, Hydrologic Unit 07120001, (PLYMOUTH, IN quadrangle), on left bank 50 ft upstream from LaPorte Street footbridge in Plymouth, 1.1 mi downstream from Elmer Seltenright (formerly Baker) Ditch, 8.1 mi upstream from Wolf Creek, and at mile 40.3.

DRAINAGE AREA.--294 mi², of which 22 mi² does not contribute directly to surface runoff.

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

REVISED RECORDS.--WSP 1338: 1950-51. WSP 2115: Drainage area. WDR IN-73-1: 1972(M).

GAGE.--Water-stage recorder. Datum of gage is 764.78 ft above National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to Aug. 27, 1959, nonrecording gage at same site and datum.

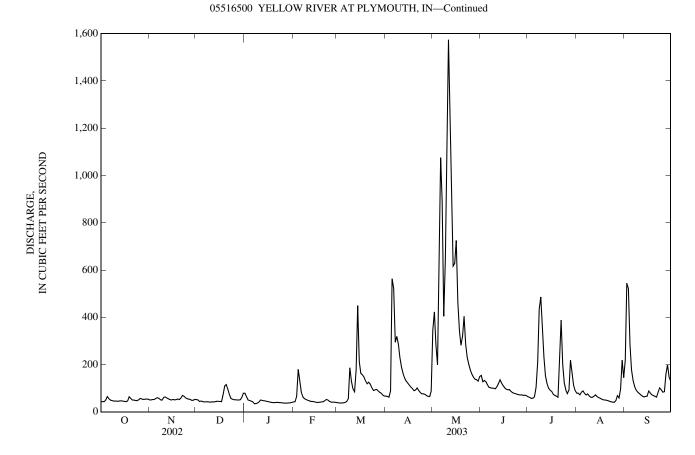
REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILV MEAN VALUES

					DAII	LY MEAN V	VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	50	52	79	e42	e39	67	346	154	63	79	219
2	e43	50	50	64	e43	e38	65	423	127	61	79	544
3	e43	52	43	50	65	e37	62	284	132	57	72	522
4	e50	52	46	48	179	e38	89	199	127	58	83	283
5	64	57	43	e45	134	e38	563	592	113	64	88	177
6	56	60	42	e42	e82	e40	522	1,080	103	104	78	132
7	49	57	42	34	e63	44	294	890	102	210	71	107
8	48	51	43	e35	e56	56	319	404	100	433	76	92
9	45	49	42	e37	e52	186	286	647	100	486	67	83
10	46	61	41	e42	e49	129	229	1,260	97	348	61	77
11	45	63	42	e50	e47	97	189	1,570	106	233	61	71
12	44	59	42	e48	e44	85	163	1,370	120	153	66	66
13	47	55	43	e47	e44	178	143	1,070	135	119	72	63
14	46	52	45	e46	e43	450	130	617	121	100	65	65
15	46	50	44	e44	e41	213	122	628	110	91	60	66
16	44	52	44	e43	e40	163	113	725	101	86	57	88
17	43	51	43	e41	e40	157	105	464	95	74	53	80
18	46	52	73	e40	e41	148	98	343	93	69	51	73
19	64	54	110	e39	e42	131	90	282	94	66	50	69
20	56	52	116	e39	e43	119	92	320	86	61	49	65
21	50	58	96	e40	47	125	101	404	81	198	47	62
22	50	69	74	e40	52	118	91	285	78	388	44	83
23	48	66	56	e39	50	102	82	231	76	201	43	101
24	47	59	e53	e39	e44	91	76	200	74	123	41	93
25	51	55	e51	e38	e41	92	76	177	72	93	40	83
26 27 28 29 30 31	57 54 53 53 54 53	54 52 48 49 53	e51 e50 e50 e51 62 79	e37 e37 e37 e38 e38 e40	e41 e41 e40 	95 89 83 79 71 67	74 68 66 65 88	159 146 138 136 129 149	71 72 69 70 68	77 92 219 164 112 90	48 68 59 95 218 145	85 159 199 146 131
TOTAL	1,539	1,642	1,719	1,336	1,546	3,398	4,528	15,668	2,947	4,693	2,186	4,084
MEAN	49.6	54.7	55.5	43.1	55.2	110	151	505	98.2	151	70.5	136
MAX	64	69	116	79	179	450	563	1,570	154	486	218	544
MIN	43	48	41	34	40	37	62	129	68	57	40	62
CFSM	0.17	0.19	0.19	0.15	0.19	0.37	0.51	1.72	0.33	0.51	0.24	0.46
IN.	0.19	0.21	0.22	0.17	0.20	0.43	0.57	1.98	0.37	0.59	0.28	0.52
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WATI	ER YEARS	1949 - 2003	, BY WATE	R YEAR (W	Y)			
MEAN	153	188	265	302	381	516	494	306	257	174	108	92.4
MAX	1,583	689	733	1,244	1,132	1,586	1,190	1,098	850	711	494	536
(WY)	(1955)	(1993)	(1983)	(1993)	(2001)	(1982)	(1950)	(1996)	(1996)	(1996)	(1958)	(1972)
MIN	23.7	20.9	30.4	26.5	35.7	79.5	99.8	65.4	51.2	39.4	31.2	22.4
(WY)	(1965)	(1965)	(1954)	(1963)	(1963)	(1957)	(1971)	(1958)	(1988)	(1988)	(1949)	(1949)
SUMMA	RY STATIS	STICS	1	FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	/EAR	WATER	YEARS 194	19 - 2003
ANNUA HIGHES LOWES' HIGHES LOWES' ANNUA MAXIM' MAXIM' ANNUA ANNUA	UM PEAK I UM PEAK S L RUNOFF L RUNOFF	MEAN IEAN EAN OAY MINIM FLOW STAGE (CFSM) (INCHES)	IUM	12	May Dec Dec Dec 0.93	10	1,5°	70 May 34 Jar 38 Jar 10 May 10.81 May 0.42 5.73	n 7 n 24 / 11	5,3 5,3	13 De 15 De 390 Oc 17.13 Oc 0.92 12.43	1993 1957 ct 13, 1954 cc 3, 1964 cc 2, 1964 ct 12, 1954
50 PERC	ENT EXCE ENT EXCE ENT EXCE	EDS		635 124 49	ļ		(30 67 42			571 131 39	

e Estimated

451



05517000 YELLOW RIVER AT KNOX, IN

LOCATION.--Lat 41°18'10", long 86°37'14", in SW \(^1/4\)Sw \(^1/4\) sec.14, T.33 N., R.2 W., Starke County, Hydrologic Unit 07120001, (KNOX EAST, IN quadrangle), on right bank 40 ft upstream from bridge on U.S. Highway 35 in Knox, 0.3 mi north of 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 National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). August 1905 to July 1906, nonrecording gage at same site at different datum. August 1943 to July 17, 1952, nonrecording gage at same site and datum

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

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

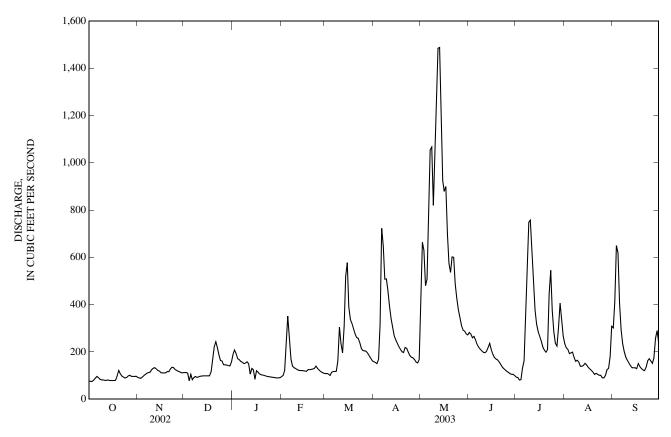
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	93	112	190	e95	e108	158	444	282	93	234	302
2	75	90	113	208	e100	e109	155	664	275	92	217	413
3	75	88	e110	193	e120	e106	150	629	260	81	210	650
4	80	93	e78	171	223	e100	168	480	266	82	192	619
5	89	99	e105	167	351	113	316	507	251	131	196	409
6	96	104	e82	160	e260	117	723	860	231	162	199	294
7	91	110	e92	156	e170	117	648	1,050	219	332	176	235
8	84	112	e96	150	e140	118	508	1,070	211	580	160	201
9	81	114	e92	153	e133	161	509	820	204	748	165	178
10	81	125	e94	158	e130	305	459	1,050	198	757	156	165
11 12 13 14 15	80 79 81 79 79	130 133 128 121 119	e97 98 99 99	e150 e106 e130 e124 e84	e125 e122 e121 e121 e120	236 196 308 520 578	393 342 303 269 251	1,240 1,480 1,490 1,260 925	196 203 218 236 211	614 483 378 319 286	139 139 143 152 145	153 142 133 133 133
16	79	112	99	e120	e119	390	236	879	191	266	135	129
17	79	111	99	e114	e118	338	222	900	177	246	128	150
18	80	111	116	e107	125	321	211	699	170	220	122	138
19	99	111	172	e103	125	300	201	575	167	207	115	129
20	121	117	221	e102	126	276	197	536	158	199	105	124
21	107	116	243	e100	128	261	218	602	148	210	109	120
22	98	128	218	e98	130	258	215	600	137	443	106	135
23	93	135	187	e96	140	239	199	488	130	545	101	162
24	90	133	163	e95	130	215	185	426	123	375	101	171
25	92	125	161	e94	e123	206	177	380	117	284	90	162
26 27 28 29 30 31	98 101 97 96 96 97	122 118 115 111 112	146 145 144 142 141 157	e93 e92 e91 e90 e90	e117 e113 e110 	205 203 195 184 173 162	175 167 157 153 167	344 312 293 288 276 272	114 108 105 105 100	237 224 301 406 332 267	90 100 125 130 181 309	152 174 258 290 238
TOTAL	2,749	3,436	4,020	3,876	3,935	7,118	8,232	21,839	5,511	9,900	4,670	6,692
MEAN	88.7	115	130	125	141	230	274	704	184	319	151	223
MAX	121	135	243	208	351	578	723	1,490	282	757	309	650
MIN	75	88	78	84	95	100	150	272	100	81	90	120
CFSM	0.20	0.26	0.30	0.29	0.32	0.53	0.63	1.62	0.42	0.73	0.35	0.51
IN.	0.24	0.29	0.34	0.33	0.34	0.61	0.70	1.87	0.47	0.85	0.40	0.57
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1944 - 2003,	BY WATE	R YEAR (W	Y)			
MEAN	257	296	385	440	527	709	713	512	418	288	205	178
MAX	1,939	883	1,070	1,580	1,289	2,127	1,714	1,154	1,113	955	652	692
(WY)	(1955)	(1973)	(1967)	(1993)	(2001)	(1982)	(1950)	(1996)	(1975)	(1996)	(1958)	(1972)
MIN	77.5	83.3	91.6	71.3	107	194	243	169	146	115	93.6	75.9
(WY)	(1965)	(1965)	(1964)	(1963)	(1963)	(1957)	(1958)	(1958)	(1988)	(1971)	(1964)	(1964)

05517000 YELLOW RIVER AT KNOX, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	ENDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEARS 1944 - 2003		
ANNUAL TOTAL	149,877		81,978				
ANNUAL MEAN	411		225		410		
HIGHEST ANNUAL MEAN					661	1950	
LOWEST ANNUAL MEAN					180	1964	
HIGHEST DAILY MEAN	2,880	May 16	1,490	May 13	5,600	Oct 15, 1954	
LOWEST DAILY MEAN	75	Oct 2	75	Oct 2	47	Jan 2, 1999	
ANNUAL SEVEN-DAY MINIMUM	79	Sep 28	79	Oct 11	50	Jan 21, 1963	
MAXIMUM PEAK FLOW		•	1,550	May 12	5,660	Oct 15, 1954	
MAXIMUM PEAK STAGE			7.87	May 12	13.75	Oct 15, 1954	
ANNUAL RUNOFF (CFSM)	0.94		0.52	•	0.94		
ANNUAL RUNOFF (INCHES)	12.82		7.01		12.81		
10 PERCENT EXCEEDS	934		467		882		
50 PERCENT EXCEEDS	236		150		266		
90 PERCENT EXCEEDS	90		93		112		

e Estimated



05517500 KANKAKEE RIVER AT DUNNS BRIDGE, IN

LOCATION.--Lat $41^{\circ}13'10''$, long $86^{\circ}58'07''$, in NE $^{1}_{4}$ SE $^{1}_{4}$ sec. 15, T.32 N., R.5 W., Porter County, Hydrologic Unit 07120001, (SAN PIERRE, IN quadrangle), on right bank at downstream side of county road 500E bridge at Dunns Bridge, 1.8 mi north of Tefft, 3.6 mi upstream from Davis Ditch, and at mile 90.8.

DRAINAGE AREA.--1,352 mi², of which 192 mi² does not contribute directly to surface runoff.

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

REVISED RECORDS.--WSP 1728: 1954(m). WSP 2115: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 649.65 ft above National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to July 17, 1956, nonrecording gage, and July 17, 1956 to Oct. 31 1998, water-stage recorder at site 250 ft downstream at same datum.

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

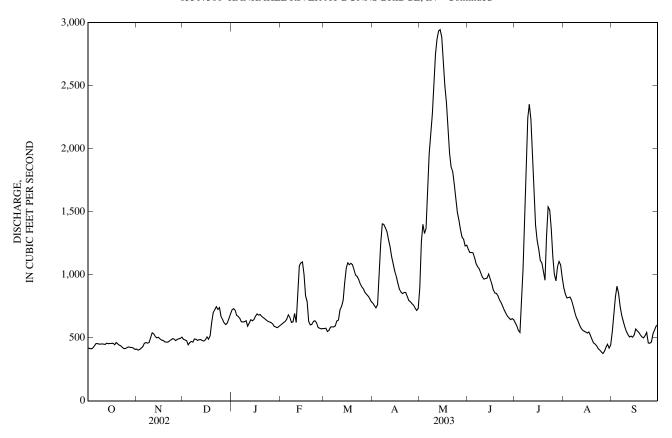
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

	0.00		550		FED	DI MEMILI	, DD			****		ann
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2	418 416	410 401	488 482	721 731	e600 e610	572 577	775 754	899 1,270	1,200 1,180	620 595	897 849	548 675
3	412	407	477	719	e620	550	738	1,400	1,180	559	817	823
4 5	418 434	418 430	445 462	678 669	e630 647	559 585	761 968	1,330 1,360	1,170 1,130	543 803	819 823	909 855
6 7	454 454	456 462	471 465	654 627	682 659	587 586	1,240 1,400	1,710 1,960	1,090 1,060	1,050 1,470	798 754	750 681
8	449	458	491	626	622	594	1,400	2,120	1,050	1,860	706	632
9	451	461	488	628	627	633	1,370	2,280	1,010	2,250	663	588
10	451	502	479	635	693	640	1,340	2,540	982	2,350	636	551
11 12	450 448	539 530	485 486	592 616	623 862	720 748	1,280 1,220	2,750 2,870	966 970	2,230 1,940	606 578	525 507
13	457	510	478	644	1,070	798	1,140	2,930	973	1,650	562	513
14	453	499 504	474	635	1,090	937 1,050	1,090	2,940	1,010	1,390	552 546	505
15	455		484	644	1,100		1,030	2,890	968	1,270	546	523
16 17	456 457	491 482	507 489	671 e690	1,000 834	1,090 1,080	986 932	2,680 2,500	929 879	1,200 1,110	537 546	570 554
18	445	479	515	e680	786	1,090	884	2,370	855	1,090	521	542
19 20	463 451	468 466	624 700	e685 e670	631 603	1,080 1,040	862 850	2,140 1,960	853 832	1,020 957	489 460	523 506
21 22	442 435	465 474	723 746	e660 e650	606 629	997 986	859 860	1,860 1,820	799 779	1,300 1,540	451 436	499 518
23	423	484	724	e640	635	962	828	1,720	749	1,510	413	541
24 25	414 416	493 490	739 667	e630 e625	620 582	926 903	796 785	1,600 1,500	721 695	1,370 1,140	403 389	459 457
26 27	423 428	477 488	645 617	e620 e610	575 571	888 860	771 759	1,430 1,360	672 658	1,000 951	375 392	466 530
28	424	493	605	e590	573	845	736	1,300	644	1,060	425	561
29 30	424 418	495 505	618 651	e585 e580		831 812	717 731	1,280 1,230	652 644	1,110 1,080	448 418	592 604
31	408		687	e590		785		1,240		980	442	
TOTAL	13,547	14,237	17,412	19,995	19,780	25,311	28,862	59,239	27,300	38,998	17,751	17,507
MEAN	437	475	562	645	706	816	962	1,911	910	1,258	573	584
MAX MIN	463 408	539 401	746 445	731 580	1,100 571	1,090 550	1,400 717	2,940 899	1,200 644	2,350 543	897 375	909 457
CFSM	0.32	0.35	0.42	0.48	0.52	0.60	0.71	1.41	0.67	0.93	0.42	0.43
IN.	0.37	0.39	0.48	0.55	0.54	0.70	0.79	1.63	0.75	1.07	0.49	0.48
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WATI	ER YEARS	1949 - 2003,	BY WATE	R YEAR (W	YY)			
MEAN	935	1,126	1,346	1,456	1,591	2,051	2,180	1,770	1,457	1,102	836	724
MAX (WY)	3,378 (1955)	2,562 (1973)	2,816 (1983)	3,845 (1991)	2,874 (1968)	4,229 (1985)	4,376 (1950)	3,231 (1983)	3,360 (1996)	2,622 (1996)	2,316 (1990)	1,924 (1993)
MIN	350	398	447	449	391	719	962	767	657	419	371	360
(WY)	(1964)	(1965)	(1964)	(1963)	(1963)	(1957)	(2003)	(1958)	(1988)	(1988)	(1964)	(1964)
SUMMA	RY STATIS	STICS]	FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER	YEAR	WATER	YEARS 194	19 - 2003
ANNUA	L TOTAL			464,779)		299,93					
	L MEAN T ANNUAL	MEAN		1,273	1		82	22			880	1991
	Γ ANNUAL									2,1	518	1964
HIGHES	T DAILY M	IEAN		4,160			2,94		y 14			ar 23, 1982
	Γ DAILY M L. SEVEN-D	EAN DAY MINIM	UM	326 352			37 40		g 26 g 22			n 25, 1963 n 24, 1963
MAXIM	UM PEAK I	FLOW			~~r	•	2,95	50 Ma	y 13	5,8	370 Ma	ar 23, 1982
	UM PEAK S L RUNOFF			0).94			9.18 May 0.61	y 13		13.38 Ma 1.02	ar 23, 1982
ANNUA	L RUNOFF	(INCHÉS)		12	79			8.25			13.86	
	ENT EXCE			2,660 989			1,36				530 40	
	ENT EXCE ENT EXCE			425			65 45				32	

e Estimated

05517500 KANKAKEE RIVER AT DUNNS BRIDGE, IN—Continued

455



05517530 KANKAKEE RIVER NEAR KOUTS, IN

 $LOCATION.--Lat\ 41^{\circ}15'14'', long\ 87^{\circ}02'02'', in\ SW^{1}/_{4}NE^{1}/_{4}\ sec.6,\ T.32\ N.,\ R.5\ W.,\ Jasper\ County,\ Hydrologic\ Unit\ 07120001,\ (KOUTS,\ IN\ quadrangle),\ on\ left\ bank,\ 20\ ft\ downstream\ from\ bridge\ on\ State\ Highway\ 49,\ 0.7\ mi\ upstream\ from\ Cook\ Ditch,\ 4.5\ mi\ south\ of\ Kouts,\ and\ at\ mile\ 86.7.$

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 National Geodetic Vertical Datum of 1929.

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

ecords fair excep	t for estimate	d daily disch	arges, which	h are poor.						
			YEAR OCT	OBER 2002	TO SEPTE					
T NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
2 393 3 407 9 393	461 466 490 473 446	738 760 732 704 699	e610 e620 e630 e640 e650	575 551 526 531 555	745 725 702 717 901	810 1,160 1,280 1,240 1,300	1,160 1,140 1,150 1,130 1,100	603 592 547 548 807	962 890 855 838 857	575 683 816 916 866
0 455 1 437 1 449	447 435 470 469 446	675 667 673 693 687	e690 e670 e650 e630 e690	590 592 605 646 642	1,160 1,330 1,350 1,300 1,270	1,610 1,860 2,040 2,290 2,570	1,060 1,040 1,030 1,010 992	1,100 1,540 1,930 2,340 2,460	820 787 720 677 679	745 659 615 555 521
5 514 6 489 3 472	471 483 475 445 465	650 610 643 659 645	e650 e620 967 996 1,020	718 739 797 900 977	1,200 1,170 1,100 1,050 995	2,720 2,830 2,870 2,880 2,850	973 968 988 1,010 985	2,330 2,040 1,720 1,470 1,340	636 606 594 562 556	508 474 489 495 509
0 442 6 422 3 440	483 506 535 631 728	e680 e700 e690 e700 e680	959 839 843 757 627	1,040 998 1,030 1,010 998	978 902 863 858 839	2,650 2,450 2,350 2,110 1,930	944 887 878 861 852	1,250 1,160 1,140 1,060 976	545 556 535 495 470	567 563 537 505 488
6 428 7 439 2 449	728 762 726 773 726	e670 e660 e640 e630 e640	610 604 613 627 589	937 961 936 920 889	852 846 820 790 773	1,810 1,750 1,660 1,570 1,450	799 773 743 697 661	1,530 1,870 1,670 1,500 1,250	459 427 383 373 361	471 506 540 491 468
8 454 7 491 7 498 7 473	706 679 659 628 680 710	e650 e640 e620 e600 e580 e600	583 573 564 	872 846 836 796 780 756	750 721 692 684 685	1,420 1,330 1,290 1,270 1,200 1,200	646 624 605 628 623	1,100 1,020 1,140 1,160 1,120 1,040	348 383 401 434 391 455	481 528 548 575 579
5 453 5 555 3 393 0.32 0.33	17,602 568 773 435 0.41 0.48	20,615 665 760 580 0.48 0.56	19,521 697 1,020 564 0.51 0.53	24,549 792 1,040 526 0.58 0.66	27,768 926 1,350 684 0.67 0.75	57,750 1,863 2,880 810 1.35 1.56	26,957 899 1,160 605 0.65 0.73	41,353 1,334 2,460 547 0.97 1.12	18,055 582 962 348 0.42 0.49	17,273 576 916 468 0.42 0.47
F MONTHLY M	IEAN DATA	FOR WATE	ER YEARS	1975 - 2003	BY WATE	R YEAR (W	Y)			
0 2,392 991) (1991) 5 437	1,511 2,889 (1991) 568 (2003)	1,495 3,787 (1991) 634 (1977)	1,646 2,784 (2001) 697 (2003)	2,264 4,613 (1985) 792 (2003)	2,350 4,229 (1985) 926 (2003)	1,890 3,255 (1983) 1,113 (1992)	1,685 3,403 (1996) 619 (1988)	1,208 2,642 (1996) 411 (1988)	921 2,432 (1990) 398 (1988)	796 2,014 (1993) 350 (1999)
TATISTICS]	FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	/EAR	WATER	YEARS 197	75 - 2003
LOWEST DAILY MEAN 299 Sep 5 348 Aug 26 281 Sep 1 ANNUAL SEVEN-DAY MINIMUM 331 Sep 4 382 Aug 22 306 Sep 1 MAXIMUM PEAK FLOW 2,900 May 14 6,420 Mar 2 MAXIMUM PEAK STAGE 9.99 May 14 14.52 Mar 2 ANNUAL RUNOFF (CFSM) 0.93 0.59 11.09 ANNUAL RUNOFF (INCHES) 12.66 8.07 14.78								1991 2003 ar 24, 1982 p 12, 1999 p 11, 1999 tr 24, 1982 ar 24, 1982		
	CT NOV 04 407 12 393 13 407 19 393 18 422 29 484 20 485 31 437 31 449 47 469 52 555 55 514 66 489 63 472 69 455 66 422 63 440 63 442 63 442 63 442 63 442 63 442 63 451 66 422 66 422 68 428 69 455 60 422 61 40 63 442 63 451 66 422 67 473 68 428 69 455 70 491 71 498 71 498 72 473 73 491 74 491 75 493 76 55 453 77 491 77 498 78 79 473 79 491 70 498 70 2,392 70 3,393 70 3,393 70 3,393 70 3,393 70 3,393 70 3,393 70 3,393 70 3,393 70 3,393 70 3,393 70 3,393 70 3,393 70 3,393 70 3,393 70 3,393 70 3,393 70 3,393 70 3,393 70 3,393	CT NOV DEC 24 407 461 22 393 466 33 407 490 49 393 473 48 422 446 29 484 447 50 455 435 51 437 470 51 449 469 47 469 446 52 555 471 55 514 483 66 489 475 63 472 445 69 455 465 66 422 535 66 422 535 66 422 535 66 422 535 66 422 535 66 422 535 67 431 483 68 489 475 68 454 679 69 49 49 69 49 49 49 69 49 40 60 60 40 60 60 60 60 60 60 60 60 60 60 60 60 60 60 6	DEC WATER CT NOV DEC JAN 14 407 461 738 12 393 466 760 13 407 490 732 19 393 473 704 18 422 446 699 19 484 447 675 10 455 435 667 11 437 470 673 11 449 469 693 17 469 446 687 18 514 483 610 18 6489 475 643 18 472 445 659 19 455 465 645 18 431 483 e680 19 455 465 645 18 451 728 e670 18 422 535 e690 18 442 728 e680 18 454 679 e640 17 439 726 e640 17 491 659 e620 18 454 679 e640 17 498 628 e600 17 473 680 e580 18 454 679 e640 17 498 628 e600 17 473 680 e580 17 473 680 e580 18 454 679 e640 17 498 628 e600 17 473 680 e580 18 453 568 665 18 454 679 e640 17 498 628 e600 17 473 680 e580 18 454 679 e640 17 498 628 e600 17 473 680 e580 18 454 679 e640 17 498 628 e600 17 473 680 e580 18 454 679 e640 17 498 628 e600 18 454 679 e640 19 41555 453 568 665 18 454 679 e640 19 41555 453 568 665 18 454 679 e640 19 41555 453 568 665 18 454 679 e640 19 41555 453 568 665 19 41555 453 568 6	DISCHARGE, WATER YEAR OCT DAII CT NOV DEC JAN FEB 144 407 461 738 e610 152 393 466 760 e620 153 407 490 732 e630 188 422 446 699 e650 189 484 447 675 e690 180 455 435 667 e670 181 437 470 673 e650 181 437 470 673 e650 181 437 470 673 e650 181 437 470 6673 e650 181 437 470 6673 e650 181 449 469 693 e630 187 469 446 687 e690 182 555 471 650 e650 183 472 445 659 996 185 514 483 610 e620 186 489 475 643 967 187 498 455 465 645 1,020 188 422 535 e690 843 189 455 465 645 1,020 180 442 506 e700 839 180 442 506 e700 839 181 449 631 e700 757 183 440 e640 589 184 540 679 e640 589 184 541 679 e640 573 187 491 659 e620 564 187 498 628 e600 184 743 680 e580 185 453 568 665 697 184 543 568 665 697 184 5453 568 665 697 185 453 568 665 697 184 535 568 665 697 184 535 568 665 697 184 535 568 665 697 184 535 568 665 697 184 535 568 665 697 184 535 568 665 697 184 535 568 665 697 184 535 568 665 697 184 535 568 665 697 184 535 568 665 697 184 535 568 665 697 185 555 773 760 1,020 185 5453 568 665 697 184 535 568 665 697 185 5453 568 665 697 184 535 568 665 697 184 535 568 665 697 184 535 568 665 697 184 535 568 665 697 184 535 568 665 697 184 535 568 665 697 184 535 568 665 697 185 555 773 760 1,020 185 5453 568 665 697 185 555 773 760 1,020 185 5453 568 665 697 185 555 773 760 1,020 185 5453 568 665 697 185 555 773 760 1,020 185 5453 568 665 697 185 555 773 760 1,020 185 5453 568 665 697 185 555 573 760 1,020 185 5453 568 665 697 185 555 573 770 770 770 770 770 770 770 770 770 7	CT NOV DEC JAN FEB MAR 14 407 461 738 e610 575 12 393 466 760 e620 551 13 407 490 732 e630 526 18 422 446 699 e650 555 18 422 446 699 e650 555 18 422 446 699 e650 555 19 484 447 675 e690 590 10 485 435 667 e670 592 11 437 470 673 e650 605 11 449 469 693 e630 646 17 469 446 687 e690 642 15 555 471 650 e650 718 16 489 475 643 967 797 18 455 465 645 1,020 977 18 457 465 645 1,020 977 18 457 466 640 631 e700 839 998 10 442 506 e700 839 998 13 440 631 e700 757 1,010 13 472 445 659 966 642 13 440 631 e700 757 1,010 13 442 728 e680 627 998 13 451 728 e670 610 937 14 499 726 e640 613 936 15 428 762 e660 604 961 17 499 726 e640 589 889 12 452 706 e650 583 872 18 454 679 e640 573 846 17 498 628 e600 756 18 70 473 680 e580 780 19 1,228 1,511 1,495 1,646 2,264 13,576 17,602 20,615 19,521 24,549 15 555 437 568 665 697 792 16 13,576 17,602 20,615 19,521 24,549 16 13,576 17,602 20,615 19,521 24,549 17 498 628 e600 756 18 1,283 1,511 1,495 1,646 2,264 18 1,283 1,511 1,495 1,646 2,264 19 1,991) (1991) (1991) (1991) (2001) (1985) 15 437 568 634 697 792 15 437 568 634 697 792 16 437 568 634 697 792 17 473 680 e580 780 18 1,228 1,511 1,495 1,646 2,264 19 1,528 1,511 1,495 1,646 2,264 10 2,392 2,889 3,787 2,784 4,613 10 2,392 2,899 3,787 2,784 4,613 10 2,392 2,899 3,787	DISCHARGE, CUBIC FEET PER SEC WATER YEAR OCTOBER 2002 TO SEPTE DAILY MEAN VALUES TO NOV DEC JAN FEB MAR APR 14 407 461 738 e610 575 745 12 393 466 760 e620 551 725 13 407 490 732 e630 526 702 18 422 446 699 e650 555 901 18 422 446 699 e650 555 901 18 422 446 699 e650 555 901 19 393 473 704 e640 531 717 19 484 447 675 e690 590 1,160 10 455 435 667 e670 592 1,330 11 437 470 673 e650 605 1,350 11 449 469 693 e630 646 1,300 17 469 446 687 e690 642 1,270 18 514 483 610 e620 739 1,170 18 515 441 483 e680 959 1,040 978 18 642 535 665 645 1,020 977 995 18 642 535 6690 843 1,030 863 18 440 631 e700 757 1,010 858 18 442 728 e680 627 998 839 18 444 773 653 627 920 799 18 455 465 645 645 645 645 645 645 645 645	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES TNOV DEC JAN FEB MAR APR MAY 14 407 461 738 6610 575 745 810 12 393 466 760 6620 551 725 1,160 13 407 490 732 6630 526 702 1,280 19 393 473 704 6640 531 717 1,240 19 393 473 704 6640 531 717 1,240 19 484 447 675 6690 590 1,160 1,610 29 484 447 675 6690 590 1,160 1,610 10 455 435 667 6670 592 1,330 1,860 11 437 470 673 6650 605 1,355 2,040 11 449 469 693 6630 646 1,300 2,290 11 469 446 687 6690 642 1,270 2,570 12 555 471 650 6650 718 1,200 2,720 13 514 483 610 6620 739 1,170 2,830 13 472 445 659 996 900 1,050 2,280 14 6489 475 643 967 797 1,100 2,870 15 514 483 610 6620 739 1,170 2,830 16 489 475 643 967 797 1,100 2,870 18 422 535 6690 843 1,030 863 2,350 18 422 445 659 996 900 1,050 2,880 18 422 535 6690 843 1,030 863 2,350 18 42 425 506 670 839 998 902 2,450 18 34 442 728 6680 959 1,040 978 2,650 18 34 442 728 6680 627 998 839 1,930 18 34 442 728 6680 677 998 839 1,930 18 34 442 728 6680 677 998 839 1,930 18 34 442 728 6680 677 998 839 1,930 18 34 442 728 6680 677 998 839 1,930 18 34 442 728 6680 677 998 839 1,930 18 34 440 631 6700 757 1,010 858 2,110 18 34 440 773 6630 627 920 790 1,570 18 45 45 679 6640 573 846 721 1,330 18 46 77 449 773 6630 627 920 790 1,570 18 8 454 667 6600 644 961 846 1,750 18 8 454 667 6600 679 998 889 773 1,450 18 8 454 667 6600 679 920 790 1,570 18 8 453 586 665 697 792 920 790 1,570 18 8 453 586 665 697 792 920 790 1,570 18 8 453 586 665 697 792 920 790 1,570 18 8 453 586 665 697 792 920 790 1,570 18 8 453 586 665 697 792 926 1,863 18 440 63 760 6600 798 889 773 1,450 18 8 454 667 6600 799 799 998 898 902 2,280 18 8 454 667 670 610 937 852 1,810 18 660 620 7998 839 1,930 18 660 620 7998 839 1,930 18 660 620 7998 839 1,930 18 660 620 7998 839 1,930 18 660 620 7998 839 1,930 18 660 620 7998 839 1,930 18 660 620 7998 839 1,930 18 660 620 7998 839 1,930 18 660 620 7998 839 1,930 18 660 620 7998 839 1,930 18 660 620 7998 839 1,930 18 660 62	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILLY MEAN VALUES	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SESTEMBER 2003

670

440

1,260

582

969

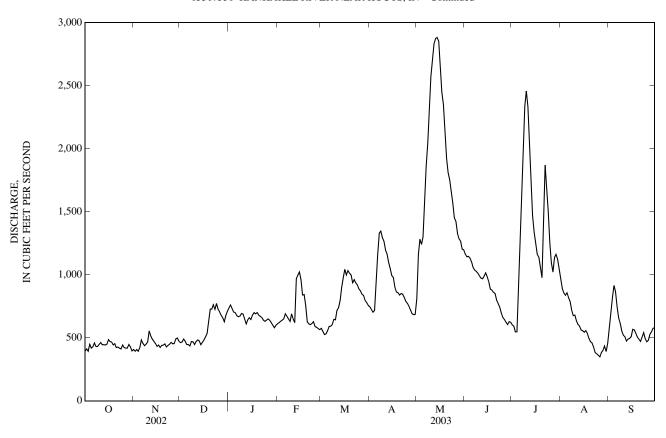
423

50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

e Estimated

05517530 KANKAKEE RIVER NEAR KOUTS, IN—Continued



05517890 COBB DITCH NEAR KOUTS, IN

 $LOCATION.-Lat\ 41^{\circ}20'19", long\ 87^{\circ}04'30", in\ NW^{1}_{4}SE^{1}_{4}\ sec.\ 2,\ T.33\ N.,\ R.6\ W., Porter\ County,\ Hydrologic\ Unit\ 07120001,\ (KOUTS,\ IN\ quadrangle),\ on\ left\ bank\ 15\ ft\ upstream\ from\ bridge\ on\ County\ Road\ 50\ West,\ 1.6\ mi\ upstream\ from\ mouth,\ 3\ mi\ northwest\ of\ Kouts,\ and\ 6.5\ mi\ northeast\ of\ Hebron.$

DRAINAGE AREA.--30.3 mi².

PERIOD OF RECORD.--July 1968 to October 2003, (discontinued). Prior to October 1971, published as State Ditch near Kouts.

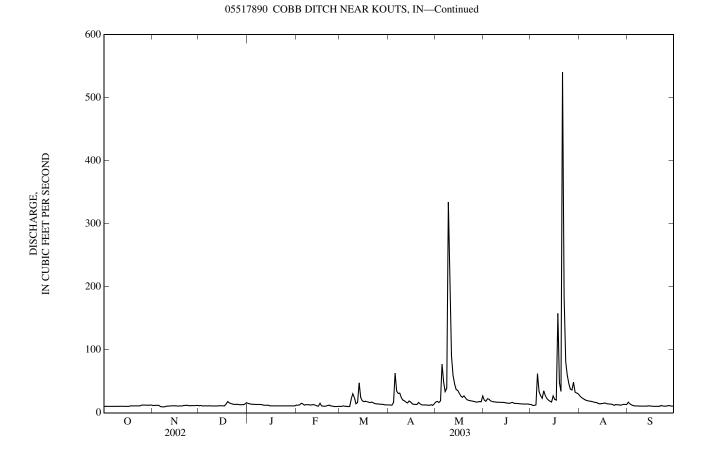
GAGE.--Water-stage recorder. Datum of gage is 652.00 ft above National Geodetic Vertical Datum of 1929 (Indiana Department of Highways bench mark). Prior to Oct. 19, 1978, water-stage recorder at site 1.4 mi downstream at same datum.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	10 10 10 10 10	12 12 12 12 12	11 12 11 11	15 14 14 13 14	12 12 13 15 14	10 10 11 10 10	13 12 12 16 63	17 18 16 19 77	20 18 22 22 19	13 12 12 13 62	27 25 23 21 20	17 14 13 12 11
6 7 8 9 10	10 10 10 10 10	10 9.5 9.5 9.6 11	11 11 11 11 11	13 13 13 13 13	12 13 e13 e13 12	10 10 22 30 24	34 31 31 24 20	49 34 39 335 184	18 18 17 17	34 27 23 35 27	19 19 18 18 17	11 11 11 11 11
11 12 13 14 15	10 10 10 10 10	11 11 11 11 11	11 11 11 11 11	e12 e12 e12 e12 e11	e13 e13 e12 11	14 16 48 25 19	19 17 16 19 17	91 60 46 37 36	17 17 17 16 16	23 20 18 17 27	16 16 15 14 15	11 11 11 11 11
16 17 18 19 20	10 10 e11 e11 e11	11 11 11 11 11	11 11 14 18 16	e11 e11 e11 e11	15 11 11 10 11	18 18 18 17 16	14 14 13 13 16	31 27 25 27 24	15 15 16 17 15	21 20 158 48 34	15 16 15 14 14	11 10 10 10 10
21 22 23 24 25	e11 e11 e11 e11	12 12 12 11 11	15 14 13 13 14	e11 e11 e11 e11	12 12 11 11 e10	17 16 15 14 14	14 13 12 13 12	21 20 19 19 18	15 15 15 14 14	541 183 81 60 46	14 13 12 13 13	10 12 11 11
26 27 28 29 30 31	12 12 12 12 12 12	11 11 11 12 12	13 13 13 13 14 16	e11 e11 e11 e11 e11	e10 e10 10 	14 14 14 13 13	12 12 13 12 14	18 17 17 18 17 27	14 14 14 14 13	38 36 48 33 32 30	13 12 13 13 13 13	11 12 11 11 10
TOTAL MEAN MAX MIN CFSM IN.	331 10.7 12 10 0.35 0.41	334.6 11.2 12 9.5 0.37 0.41	387 12.5 18 11 0.41 0.48	370 11.9 15 11 0.39 0.45	333 11.9 15 10 0.39 0.41	513 16.5 48 10 0.55 0.63	541 18.0 63 12 0.60 0.66	1,403 45.3 335 16 1.49 1.72	491 16.4 22 13 0.54 0.60	1,772 57.2 541 12 1.89 2.18	499 16.1 27 12 0.53 0.61	338 11.3 17 10 0.37 0.41
STATIST	ΓICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1969 - 2003	, BY WATE	R YEAR (W	Y)			
MEAN MAX (WY) MIN (WY)	21.2 67.8 (1991) 9.35 (2000)	29.5 112 (1986) 9.62 (2000)	31.1 88.9 (1991) 9.70 (2001)	32.1 86.8 (1993) 10.5 (2000)	38.8 82.8 (1997) 10.6 (1978)	50.4 142 (1982) 16.5 (2003)	48.4 103 (1975) 18.0 (2003)	41.4 89.4 (1974) 14.9 (1980)	38.3 121 (1997) 14.6 (1988)	27.5 77.7 (1996) 12.0 (1988)	20.7 99.0 (1990) 9.45 (2001)	17.9 60.6 (1993) 9.68 (2002)
SUMMA	RY STATIS	STICS		FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	'EAR	WATER	YEARS 19	69 - 2003
ANNUAL HIGHES LOWEST ANNUAL MAXIMI ANNUAL ANNUAL TO PERCO 50 PERCO	T ANNUAL Γ ANNUAL Τ DAILY M Γ DAILY M	MEAN IEAN EAN AY MINIM FLOW STAGE (CFSM) (INCHES) EDS EDS	IUM	496	7.7 May 7.7 Sep 8.7 Sep 0.91 2.42	7	54 1 80 1	20.0 41 Jul 9.5 Nov 10 Oct 08 Jul	121 77 1 1 121 121	9	6.0 Au 7.7 Au 60 No	1991 1977 ov 28, 1990 ug 15, 2001 ug 9, 2001 ov 28, 1990 ar 29, 1985

e Estimated



05518000 KANKAKEE RIVER AT SHELBY, IN

 $\begin{array}{l} \textbf{LOCATION.--Lat } \ 41^{\circ}10^{\circ}58^{\circ}, \ long \ 87^{\circ}20^{\circ}25^{\circ}, \ in \ SW^{1}_{4} \ NE^{1}_{4} \ sec. 33, \ T. 32 \ N., \ R. 8 \ W., \ Lake \ County, \ Hydrologic \ Unit \ 07120001, \ (SHELBY, \ IN \ quadrangle), \\ on \ right \ bank \ at \ upstream \ side \ of \ Highway \ 55 \ bridge, \ 1.0 \ mi \ south \ of \ Shelby, \ 7.8 \ mi \ upstream \ from \ Beaver \ Lake \ Ditch, \ and \ at \ mile \ 68.0. \end{array}$

DRAINAGE AREA.--1,779 mi², of which 201 mi² does not contribute directly to surface runoff.

PERIOD OF RECORD.--October 1922 to current year. Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WSP 1005: 1928(M). WSP 2115: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 628.13 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 19, 1934, nonrecording gage, Dec. 19, 1934, to Oct. 4, 1965, water-stage recorder on left bank 50 ft downstream, Oct. 5, 1965, to Sept. 21, 1966, nonrecording gage on right bank 200 ft downstream, and Sept. 21, 1966 to July 21, 1998, water-stage recorder on right bank 25 ft upstream from Monon railroad bridge and approximately 400 ft downstream, all at same datum.

REMARKS.--Records fair except those for Sept. 8 - 30, and estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

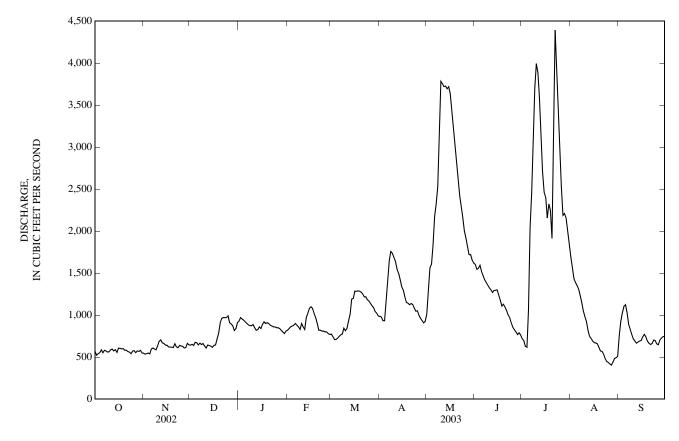
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	573	547	643	929	e820	775	985	1,020	1,600	720	1,700	759
2	524	535	653	970	e840	745	977	1,300	1,550	696	1,570	926
3	542	541	638	952	e860	710	933	1,560	1,560	629	1,440	1,030
4	552	549	676	e940	e870	710	932	1,610	1,590	618	1,390	1,110
5	587	539	671	e920	e880	724	1,160	1,830	1,520	1,060	1,350	1,120
6	552	597	646	e900	e900	747	1,430	2,180	1,470	2,040	1,310	1,020
7	582	609	666	e885	e880	765	1,650	2,320	1,420	2,460	1,240	892
8	574	596	650	875	e860	775	1,760	2,530	1,390	3,120	1,150	832
9	561	587	662	874	e830	845	1,740	3,070	1,360	3,700	1,050	770
10	564	635	633	888	e900	815	1,690	3,780	1,330	3,990	983	717
11	587	688	608	850	e860	843	1,640	3,750	1,300	3,880	927	690
12	595	705	644	820	e830	932	1,550	3,720	1,270	3,590	821	666
13	574	670	638	828	e974	1,010	1,500	3,730	1,290	3,140	749	680
14	589	663	631	e860	e1,020	1,190	1,420	3,690	1,300	2,700	724	692
15	556	643	615	e840	e1,080	1,200	1,340	3,720	1,300	2,460	691	698
16	607	643	640	e890	e1,100	1,280	1,300	3,640	1,240	2,400	673	742
17	605	621	645	e920	e1,080	1,280	1,220	3,420	1,180	2,160	668	771
18	598	620	718	e900	e1,020	1,290	1,150	3,220	1,110	2,320	659	743
19	602	618	789	e910	e970	1,290	1,140	3,030	1,130	2,250	617	690
20	581	613	909	e900	e900	1,280	1,120	2,800	1,090	1,910	574	664
21	584	660	962	e880	e820	1,250	1,140	2,610	1,050	2,880	568	651
22	566	624	971	e870	e820	1,220	1,130	2,420	1,000	4,390	537	662
23	559	612	970	e860	e810	1,220	1,080	2,300	969	3,970	481	704
24	540	640	972	e860	e810	1,180	1,050	2,160	908	3,490	449	696
25	572	632	992	e850	e800	1,170	1,050	2,010	855	3,000	437	657
26 27 28 29 30 31	578 553 574 568 582 550	629 608 614 664 646	910 895 872 817 839 910	e850 e840 e820 e800 e780 e810	e800 e780 e770 	1,140 1,110 1,090 1,040 1,020 989	999 962 935 908 925	1,920 1,820 1,720 1,720 1,650 1,620	826 800 768 789 762	2,530 2,190 2,210 2,160 2,000 1,850	418 404 441 485 493 511	648 703 727 745 744
TOTAL	17,731	18,548	23,485	27,071	24,884	31,635	36,816	77,870	35,727	76,513	25,510	23,149
MEAN	572	618	758	873	889	1,020	1,227	2,512	1,191	2,468	823	772
MAX	607	705	992	970	1,100	1,290	1,760	3,780	1,600	4,390	1,700	1,120
MIN	524	535	608	780	770	710	908	1,020	762	618	404	648
CFSM	0.32	0.35	0.43	0.49	0.50	0.57	0.69	1.41	0.67	1.39	0.46	0.43
IN.	0.37	0.39	0.49	0.57	0.52	0.66	0.77	1.63	0.75	1.60	0.53	0.48
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1924 - 2003	, BY WATE	R YEAR (W	YY)			
MEAN	1,076	1,332	1,611	1,803	1,976	2,536	2,750	2,315	1,825	1,297	970	866
MAX	3,529	3,413	4,502	4,867	3,658	5,570	5,365	4,409	4,347	3,228	3,058	2,843
(WY)	(1991)	(1973)	(1928)	(1991)	(1950)	(1985)	(1982)	(1943)	(1981)	(1996)	(1990)	(1993)
MIN	455	500	540	460	462	848	1,226	789	569	441	402	356
(WY)	(1954)	(2000)	(1964)	(1940)	(1963)	(1934)	(1925)	(1934)	(1934)	(1988)	(1988)	(1941)

05518000 KANKAKEE RIVER AT SHELBY, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALE	NDAR YEAR	FOR 2003 WA	TER YEAR	WATER YEARS 1924 - 2003		
ANNUAL TOTAL	609,832		418,939				
ANNUAL MEAN	1,671		1,148		1,694		
HIGHEST ANNUAL MEAN					2,767	1993	
LOWEST ANNUAL MEAN					775	1964	
HIGHEST DAILY MEAN	5,090	May 19	4,390	Jul 22	7,650	Mar 26, 1982	
LOWEST DAILY MEAN	358	Sep 9	404	Aug 27	260	Jan 13, 1954	
ANNUAL SEVEN-DAY MINIMUM	383	Sep 5	445	Aug 23	298	Aug 2, 1988	
MAXIMUM PEAK FLOW		_	4,510	Jul 22	7,650	Mar 26, 1982	
MAXIMUM PEAK STAGE			10.90	Jul 22	12.98	Mar 24, 1982	
ANNUAL RUNOFF (CFSM)	0.94		0.65		0.95		
ANNUAL RUNOFF (INCHES)	12.75		8.76		12.94		
10 PERCENT EXCEEDS	3,620		2,200		3,350		
50 PERCENT EXCEEDS	1,110		880		1,350		
90 PERCENT EXCEEDS	548		580		628		

e Estimated



05521000 IROQUOIS RIVER AT ROSEBUD, IN

LOCATION --Lat $41^{\circ}02'00''$, long $87^{\circ}10'49''$, in $NW^{1}_{4}SW^{1}_{4}$ sec. 24, T.30 N., R.7 W., Jasper County, Hydrologic Unit 07120002, (PARR, IN quadrangle), on right bank 100 ft downstream from bridge on county road 700W, 0.5 mi north of Rosebud, 0.5 mi downstream from the confluence of Swain and Dexter Ditches, 1.5 mi upstream from Davisson Ditch, 2 mi east of Parr, and at mile 93.5.

DRAINAGE AREA.--35.6 mi².

PERIOD OF RECORD .-- July 1948 to October 2003 (discontinued).

REVISED RECORDS.--WSP 1338: 1950-53. WSP 1728: 1959-60(M). WSP 1915: 1949-60. WSP 2115: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 661.47 ft above National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to Oct. 1, 1953, nonrecording gage on downstream side of county road bridge at same datum.

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

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES DAY OCT NOV DEC IAN EER MAR ARR MAY HIN HILL ALIC SER													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	3.5 3.3 3.6 5.1 5.0	4.9 5.1 5.8 5.5 6.6	e5.0 4.8 e4.5 e4.2 4.0	15 12 11 e8.0 e7.0	e6.2 e8.0 e12 34 e16	e4.5 e4.7 e4.8 e5.0 e5.2	13 12 12 19 50	17 17 15 16 37	17 17 19 18 17	9.3 7.7 7.0 8.5 242	50 57 77 63 54	24 32 24 20 16		
6 7 8 9 10	4.1 4.7 4.2 3.8 3.7	7.2 6.3 5.8 6.4 12	e3.9 3.8 3.7 e3.6 e3.5	e6.6 e6.2 e6.4 e7.0 e7.6	e11 e8.4 e7.5 e6.8 e6.2	e5.4 e6.0 e8.0 e13 e10	32 36 38 30 26	29 27 35 75 64	17 16 16 16 15	279 217 307 387 345	46 42 39 36 34	14 13 12 12 11		
11 12 13 14 15	3.6 3.7 4.1 3.8 3.8	9.7 8.1 7.4 7.2 7.3	3.4 3.5 3.9 4.0 3.7	e7.2 e7.4 e7.3 e6.8 e6.4	e5.8 e5.6 e5.2 e4.8 e4.8	e9.0 e8.0 e7.6 e7.4 8.7	24 22 20 19 18	56 39 33 31 39	15 16 19 25 22	246 173 122 91 122	32 30 28 27 26	11 11 10 11 9.9		
16 17 18 19 20	3.4 3.6 4.1 7.4 5.0	6.4 6.1 5.8 6.9 7.0	3.4 3.3 7.7 15	e6.0 e5.8 e5.6 e5.5 e5.4	e4.5 e4.3 e4.1 e4.2 e4.4	11 12 13 15 16	17 17 15 15	32 29 26 25 24	18 16 15 15 13	135 94 202 138 91	25 23 21 19	8.9 8.7 8.6 8.3 8.2		
21 22 23 24 25	4.2 3.8 3.6 3.7 4.7	7.3 7.3 6.1 5.8 5.5	10 8.6 e6.0 e5.0 e4.7	e5.2 e5.0 e4.8 e4.5 e4.3	e4.6 e4.8 e4.9 e4.8 e4.7	24 20 16 15 20	19 17 15 15	22 21 20 19 19	12 11 11 10 8.4	382 368 230 146 106	17 16 15 13	7.8 9.8 8.9 9.4 8.9		
26 27 28 29 30 31	4.6 4.2 4.0 5.4 5.9 5.0	5.4 5.3 5.3 5.6 5.6	5.3 e4.3 e4.2 5.3 e4.1 e4.0 5.6 e4.1 e4.2 5.6 e10 e4.5	e4.2 e4.0 e4.2 e4.5	e4.6 e4.5 e4.4 	21 18 17 15 14	14 13 13 12 14	17 17 18 18 17	8.6 8.0 9.6 11 9.5	84 79 103 80 66 56	12 12 11 12 11 12	11 28 19 15 12		
TOTAL MEAN MAX MIN CFSM IN.	132.6 4.28 7.4 3.3 0.12 0.14	196.7 6.56 12 4.9 0.18 0.21	183.2 5.91 20 3.3 0.17 0.19	200.3 6.46 15 4.0 0.18 0.21	201.1 7.18 34 4.1 0.20 0.21	367.3 11.8 24 4.5 0.33 0.38	600 20.0 50 12 0.56 0.63	873 28.2 75 15 0.79 0.91	441.1 14.7 25 8.0 0.41 0.46	4,923.5 159 387 7.0 4.46 5.14	892 28.8 77 11 0.81 0.93	403.4 13.4 32 7.8 0.38 0.42		
STATIST	ICS OF MO	ONTHLY M	EAN DATA	A FOR WATI	ER YEARS	1949 - 2003	, BY WATE	R YEAR (W	Y)					
MEAN MAX (WY) MIN (WY)	15.6 106 (1994) 1.19 (1965)	18.8 68.5 (1993) 1.80 (1965)	27.1 96.8 (1991) 2.43 (1964)	29.5 113 (1950) 3.52 (1963)	37.3 91.1 (1959) 3.13 (1964)	49.1 149 (1982) 7.69 (1957)	50.6 141 (1950) 17.2 (1986)	40.1 111 (1974) 10.2 (1958)	33.5 111 (1981) 5.47 (1988)	20.9 159 (2003) 3.08 (1988)	10.8 52.1 (1972) 1.97 (1964)	11.8 88.9 (1993) 1.53 (1964)		
SUMMAI	RY STATIS	STICS		FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	/EAR	WATER '	YEARS 19	49 - 2003		
LOWEST HIGHEST LOWEST ANNUAL MAXIMU MAXIMU ANNUAL ANNUAL	L MEAN T ANNUAL T ANNUAL T DAILY M DAILY M	MEAN IEAN EAN OAY MINIM FLOW STAGE (CFSM) (INCHES)	UM	315 3 3 0	May 3.3 Sep 3.5 Sep 0.82	30	38 47	25.8 37 Ju 3.3 Oc 3.6 Dec 75 Ju	1 9 t 2 :11 121	6	0.50 O 0.77 O 56 D	1993 1964 ec 30, 1990 ct 11, 1964 ct 11, 1964 ec 30, 1990 eb 10, 1959		
	ENT EXCE			68			4	10 1			53 17			

17

4.3

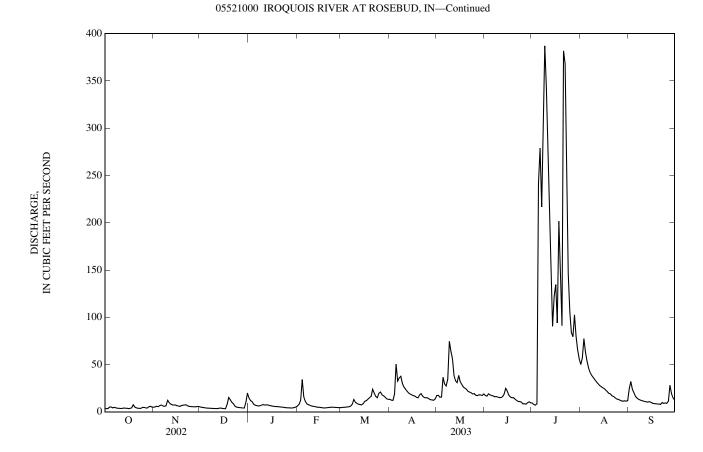
17

4.1

50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

e Estimated



05522500 IROQUOIS RIVER AT RENSSELAER, IN

LOCATION.--Lat 40°56'00", long 87°07'44", in NW¹/₄SE¹/₄ sec.29, T.29 N., R.6 W., Jasper County, Hydrologic Unit 07120002, (RENSSELAER, IN quadrangle), on right bank 20 ft downstream from bridge on State Highway 114, 0.8 mi east of Rensselaer, 1.5 mi downstream from Ryan Ditch, 5.5 mi upstream from Slough Creek, and at mile 84.9.

DRAINAGE AREA.--203 mi².

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

REVISED RECORDS.--WSP 2115: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 642.29 ft above National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to July 8, 1949, nonrecording gage at same site and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Streamflow affected by irrigation.

524

78

18

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN ш AUG SEP 26 109 75 e34 e30 58 108 130 16 24 30 61 e38 e31 57 174 98 53 394 229 3 16 22 25 e48 e48 e31 54 148 112 50 469 165 23 27 18 e44 144 e33 74 123 128 492 112 5 26 25 22 e42 120 e35 331 264 114 1,040 421 84 6 20 2.8 24 e41 79 e37 320 345 105 1.910 345 69 27 24 e40 105 2,110 280 18 e56 e44 264 251 61 25 24 e42 410 8 18 e47 e58 324 99 229 55 ğ 23 197 26 93 52 e45 261 2.470 16 e42 e88 643 10 23 49 17 33 e50 e39 e70 200 762 86 2.610 175 45 e47 e58 168 714 2,570 157 47 e36 12 15 36 24 e48 e35 e54 145 571 90 2,390 143 45 17 31 25 e47 e33 e52 123 408 138 2,150 132 45 13 27 17 28 e50 314 247 121 48 14 e46 e31 111 1,880 17 29 26 e42 51 382 171 111 48 15 104 1.680 16 17 28 26 e39 e30 51 97 355 128 1,570 101 44 27 22 e39 60 92 300 109 1,350 92 41 16 e28 17 31 27 e27 88 250 98 1,230 83 40 18 17 e38 67 19 24 27 55 e37 e28 72. 219 93 1,070 76 39 81 25 28 68 203 85 70 38 20 e29 76 100 914 e37 2.1 20 2.7 57 88 139 189 78 1.370 36 e36 e31 65 22 18 29 49 e34 e32 88 117 170 72 1,890 60 42 23 17 29 e37 e32 e33 75 98 155 67 1.980 55 44 24 e28 17 29 e33 e32 69 90 143 64 1.910 51 48 25 20 29 e30 e28 e31 78 90 131 56 1,700 50 47 26 27 e29 e27 e31 102 126 1,430 27 24 26 e28 50 135 e27 e30 76 114 1,190 46 28 21 24 e27 e26 81 70 110 53 1,040 42 116 e30 23 26 e27 e27 73 71 61 850 43 78 121 ---30 26 28 e40 e29 63 72 121 54 44 62 660 25 45 31 77 e31 58 118 516 3,959 TOTAL 840 1,011 1,205 8,443 2,903 43,950 2,100 594 1,233 1,914 5,040 61.7 19.2 MEAN 28.0 32.6 39.8 43.0 132 272 96.8 1.418 163 70.0 MAX 26 45 77 75 144 102 331 762 247 2,610 492 229 MIN 15 22 22 26 27 30 54 109 50 50 42 36 **CFSM** 0.09 0.14 0.16 0.20 0.21 0.30 0.65 1.34 0.48 6.98 0.80 0.34 0.53 0.11 0.15 0.19 0.23 0.22 0.35 0.73 8.05 0.92 0.38 IN. STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2003, BY WATER YEAR (WY) 92.4 119 175 201 253 250 129 55.3 64.3 MEAN 328 210 921 935 1.418 MAX 561 559 774 660 886 766 863 238 641 (1994) (1993) (1950)(1997)(1950)(1958)(1990)(1993)(WY) (1991)(1982)(1974)(2003)MIN 5.77 7.757.04 14.5 13.9 40.8 87.8 47.6 22.9 12.5 4.6Î 5.26 (1964)(1965)(1964)(1957)(1958)(1988)(1964)(1964)(WY) (1965)(1963)(1986)(1964)SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1949 - 2003 ANNUAL TOTAL 67,707 73,192 ANNUAL MEAN 185 201 184 HIGHEST ANNUAL MEAN 415 1993 LOWEST ANNUAL MEAN 29.7 1964 1,780 Jul 10, 2003 HIGHEST DAILY MEAN May 14 2,610 Jul 10 2.610 Sep 9, 1964 LOWEST DAILY MEAN Oct 1 Oct 1 2.2 15 15 ANNUAL SEVEN-DAY MINIMUM 16 Sep 27 16 Oct 9 2.8 9, 1964 MAXIMUM PEAK FLOW 2,620 Jul 10 2,620 Jul 10, 2003 MAXIMUM PEAK STAGE 16.59 Jul 10 16.59 Jul 10, 2003 ANNUAL RUNOFF (CFSM 0.91 0.99 0.91 ANNUAL RUNOFF (INCHES) 12.41 13.41 12.32

405

53

24

458

91

17

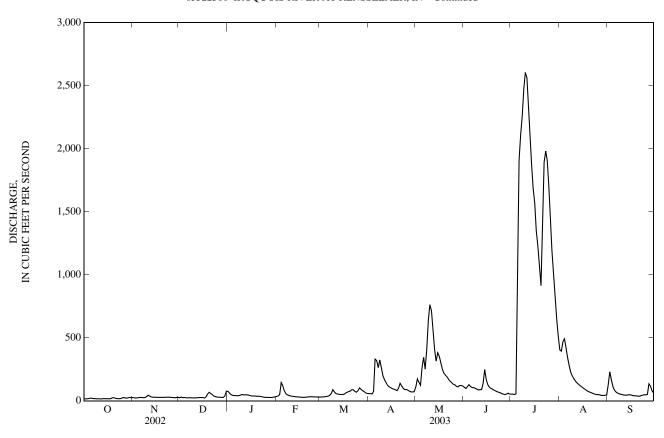
10 PERCENT EXCEEDS

50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

e Estimated

05522500 IROQUOIS RIVER AT RENSSELAER, IN—Continued



05524500 IROQUOIS RIVER NEAR FORESMAN, IN

LOCATION.--Lat $40^{\circ}52^{\circ}14^{\circ}$, long $87^{\circ}18^{\circ}24^{\circ}$, in NE $^{1}_{4}$ SeC.15, T.28 N., R.8 W., Newton County, Hydrologic Unit 07120002, (GOODLAND, IN quadrangle), on right bank at downstream side of bridge on State Highway 55, 0.2 mi north of intersection of State Highways 16 and 55, 0.5 mi downstream from Mosquito Creek, 0.6 mi west of Foresman, 3 mi east of Brook, and at mile 72.7.

DRAINAGE AREA.--449 mi².

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

REVISED RECORDS.--WSP 1338: 1953. WSP 1438: 1955. WSP 1508: 1956. WSP 2115: Drainage area.

GAGE.--Water-stage recorder and Acoustic Doppler Velocity meter. Datum of gage is 624.00 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 7, 1955 nonrecording gage 2.5 mi upstream at datum 3.54 ft higher.

REMARKS .-- Records poor.

		1										
					YEAR OCT	, CUBIC FEI OBER 2002 LY MEAN V	TO SEPTE					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	e36 e38 e37 e38 e41	e37 e31 e30 e35 e36	e42 e46 e43 e46 e43	e109 e91 e71 e68 e62	e58 e66 e80 e262 e219	e48 e50 e51 e54 e58	147 145 142 152 595	188 271 262 221 420	231 204 220 225 205	154 140 123 109 e120	970 e899 e878 e1,000 e800	320 567 465 316 231
6 7 8 9	e41 e40 e39 e38 e37	e44 e43 e41 e42 e48	e42 e43 e49 e43 e42	e61 e65 e69 e74 e82	e150 e118 e69 e63 e61	e62 e72 e92 e171 e140	636 547 660 564 452	629 487 492 941 1,620	135 123 166 132 103	e2,400 e4,000 e4,300 e4,800 e5,100	e640 e560 e440 e380 e330	190 166 147 135 126
11 12 13 14 15	e38 e36 e38 e35 e32	e73 e69 e58 e53 e53	e42 e44 e48 e49 e42	e75 e72 e67 e63 e62	e58 e56 e55 e53 e53	e112 e97 e87 e85 e86	376 317 267 240 227	1,910 1,680 1,370 1,050 882	105 148 242 948 856	e5,350 e5,100 e4,800 e4,500 e4,200	e300 e280 e240 e220 e200	119 111 108 110 113
16 17 18 19 20	e33 e40 e33 e39 e45	e46 e49 e49 e50 e51	e40 e39 e47 e91 e111	e61 e59 e58 e58 e57	e51 e48 e46 e46 e48	e88 e102 e160 176 199	216 200 186 173 204	762 595 486 419 375	574 401 312 263 225	e3,800 e3,500 e3,200 e3,000 e2,800	e190 e170 e160 e140 e130	105 96 91 89 85
21 22 23 24 25	e38 e34 e32 e31 e33	e51 e50 e50 e51 e46	e80 e78 e51 e47 e44	e56 e53 e53 e48 e48	e50 e51 e49 e49 e48	228 237 204 182 196	316 279 226 203 197	348 313 286 282 260	197 179 166 151 136	e2,700 3,260 3,270 3,060 2,780	e120 e115 e110 e105 e100	80 93 104 112 125
26 27 28 29 30 31	e41 e42 e39 e36 e41 e43	e48 e47 e44 e40 e47	e42 e41 e41 e41 e54 e101	e47 e47 e45 e47 e50 e54	e48 e49 e49 	240 224 201 185 161 148	191 175 164 159 158	243 222 213 232 238 253	124 118 121 168 155	2,440 2,110 1,880 1,680 1,400 1,160	e96 e93 97 98 108 102	133 396 392 272 205
TOTAL 1. MEAN MAX MIN CFSM IN.	,164 37.5 45 31 0.08 0.10	1,412 47.1 73 30 0.10 0.12	1,612 52.0 111 39 0.12 0.13	1,932 62.3 109 45 0.14 0.16	2,053 73.3 262 46 0.16 0.17	4,196 135 240 48 0.30 0.35	8,514 284 660 142 0.63 0.71	17,950 579 1,910 188 1.29 1.49	7,333 244 948 103 0.54 0.61	87,236 2,814 5,350 109 6.27 7.23	10,071 325 1,000 93 0.72 0.83	5,602 187 567 80 0.42 0.46
STATISTIC	S OF MC	NTHLY M	EAN DATA	FOR WATI	ER YEARS	1950 - 2003,	BY WATE	R YEAR (W	Y)			
	189 ,792 (1994) 9.70 (1957)	249 1,218 (1993) 16.1 (1965)	386 1,274 (1968) 15.3 (1964)	424 1,736 (1993) 27.0 (1963)	562 1,490 (1968) 31.4 (1964)	730 2,266 (1982) 81.7 (1957)	752 1,672 (1950) 199 (1986)	571 1,440 (2002) 108 (1958)	484 2,314 (1958) 39.8 (1988)	308 2,814 (2003) 17.7 (1988)	109 435 (1990) 12.2 (1988)	135 1,387 (1993) 11.1 (1964)
SUMMARY	STATIS	TICS]	FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	/EAR	WATER	YEARS 195	0 - 2003
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS					May Nov Oct	3	e 5,35 2	50 Ju 30 Nov 35 Oc 50 Ju	1111 7-3 112 111	5,9 5,9	6.3 Se 8.0 Se 930 Ju	1993 1964 n 14, 1958 p 10, 1964 p 5, 1964 n 14, 1958 il 11, 2003
50 PERCEN 90 PERCEN				161 39			11	1 11			.93 .30	

41

30

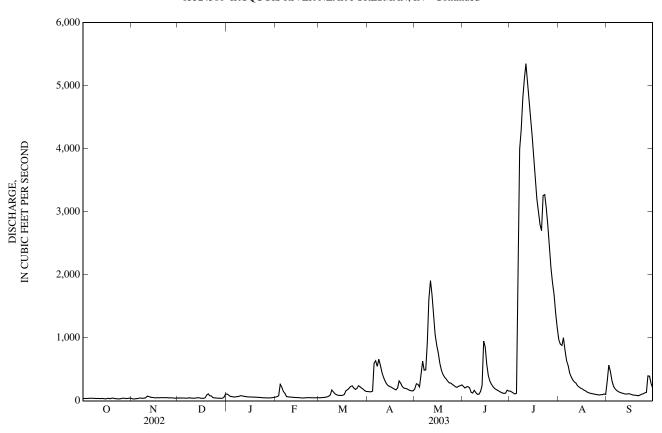
39

90 PERCENT EXCEEDS

e Estimated

05524500 IROQUOIS RIVER NEAR FORESMAN, IN—Continued

467



05536179 HART DITCH AT DYER, IN

LOCATION.--Lat $41^{\circ}30'28''$, long $87^{\circ}30'36''$, in $NE^{1}/_{4}NE^{1}/_{4}$ sec. 12, T.35 N., R.10 W., Lake County, Hydrologic Unit 07120003, (CALUMET CITY, IL-IN quadrangle), on right bank, 50 ft upstream from 213th Street in Dyer, 0.8 mi upstream from Dyer Ditch, 0.8 mi east of Illinois state line, 3.5 mi east of intersection of U.S. Highway 30 and Interstate 394.

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 National Geodetic Vertical Datum of 1929.

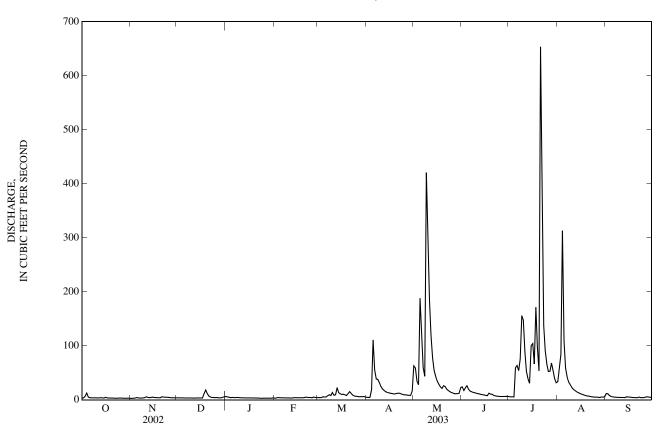
REMARKS.--Records fair except for estimated daily discharges, which are poor. Low-flow affected by sewage effluent.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

	DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	3.1 3.7 6.6 12 e5.0	e2.7 e2.8 e2.9 e3.3 e4.2	3.6 3.7 3.6 3.6 3.5	6.1 5.4 4.7 4.0 4.4	e3.3 e3.1 e4.1 e4.0 e3.9	e4.0 e4.2 e4.2 e5.6 e5.2	4.7 4.4 4.6 19 111	63 59 35 28 188	24 17 22 26 20	5.9 5.5 5.6 5.4 59	34 60 84 313 108	12 11 8.1 6.3 5.4	
6 7 8 9 10	e3.9 e3.7 e3.7 e3.7 e3.7	e3.6 e3.2 e3.2 e3.6 e4.0	3.5 3.4 3.4 3.3 3.4	4.2 4.1 4.3 4.3 3.9	e3.7 e3.7 e3.6 e3.6 e3.6	e5.3 e7.6 9.5 7.9	55 39 38 32 25	117 60 44 421 330	16 15 14 13 12	64 54 75 156 148	59 42 33 28 23	5.0 4.8 4.6 4.6 4.3	
11 12 13 14 15	3.5 3.7 3.8 3.7 3.2	e5.6 e4.6 e4.0 e4.3 e5.0	3.3 3.3 3.3 3.5 3.4	3.8 3.6 3.5 3.6 3.6	e3.4 e3.3 e3.9 e4.0 e4.0	8.3 9.3 22 13 11	20 17 15 14 13	184 120 77 54 43	11 11 10 9.5 9.0	88 52 39 31 100	20 17 15 13 12	4.4 4.3 4.1 5.6 5.2	
16 17 18 19 20	4.5 3.5 e3.4 e3.3 e3.2	e4.5 e4.2 e4.0 e3.9 e3.9	3.4 3.6 11 18 12	3.5 3.5 3.4 3.3 3.4	e3.9 e3.8 e3.8 e3.8 e4.0	9.9 10 9.2 7.9	12 12 11 11 12	35 29 24 21 26	8.3 7.7 12 10 10	104 67 171 97 54	9.7 8.6 7.7 7.1	5.0 4.6 4.3 4.1 4.0	
21 22 23 24 25	e3.2 e3.0 e2.9 e2.9 e3.4	5.6 5.1 4.8 4.7 4.6	7.0 5.3 4.3 4.5 4.0	3.3 3.3 3.0 2.8 3.0	e5.0 e4.6 e4.3 e4.3 e3.9	15 12 8.7 7.1 6.5	12 12 11 9.9 9.4	25 20 17 15 14	8.3 7.5 6.8 6.5 6.2	653 262 137 91 66	6.7 6.0 5.6 5.2 5.0	3.9 5.0 3.9 4.2 4.0	
26 27 28 29 30 31	e3.2 e2.9 e2.9 e2.9 e2.9 e3.1	4.3 3.9 3.8 3.7 3.7	4.2 3.8 3.7 3.7 4.8 5.6	3.1 3.0 e3.1 e3.0 e3.0 e3.7	e5.0 e4.5 e4.1	6.3 5.6 5.8 5.8 6.1 5.2	9.2 8.6 8.3 8.3 16	13 11 11 12 12 22	6.1 6.2 6.3 6.5 6.1	52 53 68 54 39 32	5.0 4.6 4.3 5.3 4.9 5.5	5.1 5.6 5.2 4.9 4.1	
TOTAL MEAN MAX MIN CFSM IN.	3.81 12 2.9 0.10 0.12	121.7 4.06 5.6 2.7 0.11 0.12	150.7 4.86 18 3.3 0.13 0.15	114.9 3.71 6.1 2.8 0.10 0.11	110.2 3.94 5.0 3.1 0.10 0.11	262.2 8.46 22 4.0 0.22 0.26	574.4 19.1 111 4.4 0.51 0.57	2,130 68.7 421 11 1.83 2.11	344.0 11.5 26 6.1 0.30 0.34	2,888.4 93.2 653 5.4 2.48 2.86	963.2 31.1 313 4.3 0.83 0.95	157.6 5.25 12 3.9 0.14 0.16	
STATIST	ICS OF MO	ONTHLY MI	EAN DATA	FOR WATE	ER YEARS	1990 - 2003	, BY WATE	ER YEAR (W	Y)				
MEAN MAX (WY) MIN (WY)	22.0 113 (1994) 2.77 (1996)	41.8 195 (1991) 3.55 (2000)	33.9 106 (1991) 4.86 (2003)	45.6 136 (1993) 3.71 (2003)	56.9 183 (1997) 3.94 (2003)	63.1 169 (1991) 7.00 (2000)	55.9 138 (1999) 16.6 (2001)	58.0 140 (1996) 7.48 (1992)	52.0 182 (1993) 4.21 (1992)	25.2 93.2 (2003) 4.46 (1991)	20.4 74.1 (1998) 3.87 (2002)	14.1 106 (1993) 2.41 (1994)	
SUMMAI	RY STATIS	STICS		FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	EAR	WATER	YEARS 1	990 - 2003	
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES)			UM	11,176.0 30.6 950 May 12 2.7 Nov 1 2.9 Oct 27			7,935.5 21.7 653 Jul 21 2.7 Nov 1 2.9 Oct 27 887 Jul 21 8.17 Jul 21 0.58 7.85			2,5	0.61 0.95 10	1993 2000 Nov 28, 1990 Oct 23, 1995 Sep 17, 1994 Nov 28, 1990 Nov 28, 1990	
ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS					5.5 5.4		:	54 5.5 3.3			94 12 3.8		

e Estimated

05536179 HART DITCH AT DYER, IN—Continued



05536190 HART DITCH AT MUNSTER, IN

 $LOCATION.--Lat\ 41^{\circ}33'40'', long\ 87^{\circ}28'50'', in\ SE^{1}_{4}NW^{1}_{4}\ sec.\ 20,\ T.36\ N.,\ R.9\ W.,\ Lake\ County,\ Hydrologic\ Unit\ 07120003,\ (HIGHLAND,\ IN\ quadrangle),\\ on\ left\ bank,\ 0.2\ mi\ downstream\ from\ Ridge\ Road,\ 0.4\ mi\ upstream\ from\ mouth,\ and\ 0.9\ mi\ south\ of\ intersection\ of\ Interstate\ 80/90\ and\ U.S.\ Highway\ 41.$

DRAINAGE AREA.--70.7 mi².

PERIOD OF RECORD.--September 1942 to current year.

REVISED RECORDS.--WDR IN-72-1: Drainage area.

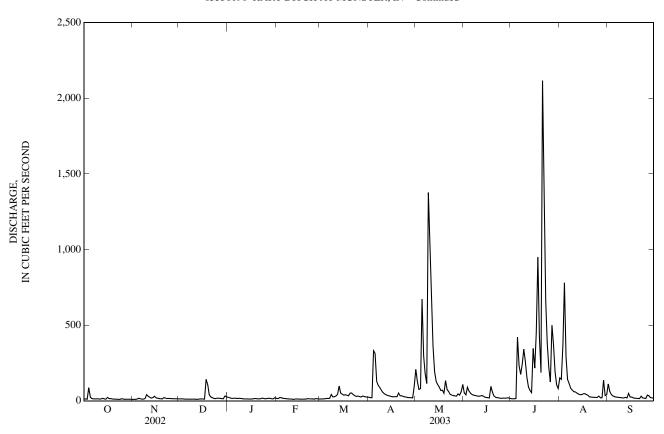
GAGE.--Water-stage recorder. Datum of gage is 591.27 ft above National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources).

REMARKS.--Records fair except for daily discharges above 170 ft³/s due to possible backwater from Little Calumet River and estimated daily discharges, which are poor.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1 2 3 4 5	10 13 9.9 86 24	9.4 9.7 10 12 17	13 13 13 12 11	23 20 18 16 17	16 15 21 21 16	12 13 13 14 16	24 21 20 331 313	208 127 75 81 672	52 40 91 65 50	14 14 14 15 421	e152 e142 e370 e780 e290	111 61 41 32 28		
6 7 8 9 10	15 13 13 13 13	13 11 11 15 41	11 11 11 11 11	17 16 17 16 15	16 14 13 12 12	16 16 42 26 27	130 102 88 69 55	297 180 114 1,380 1,040	41 37 35 32 31	232 174 240 341 262	e142 115 84 71 60	25 24 22 21 19		
11 12 13 14 15	12 13 17 12 12	e30 e24 17 21 30	11 9.5 11 12 13	13 12 13 12 12	11 9.1 12 12 12	32 43 98 51 44	46 40 35 33 29	703 364 193 130 107	31 34 32 24 23	154 92 69 55 346	59 51 45 41 41	19 23 18 49 25		
16 17 18 19 20	23 14 15 12 11	20 17 15 14 13	12 11 142 107 40	12 13 15 15 13	11 11 11 11 12	38 40 37 33 51	27 27 27 27 27 51	91 69 70 50 134	21 19 96 58 32	216 452 949 426 187	46 47 42 36 26	25 20 18 17 16		
21 22 23 24 25	11 10 9.8 9.7 14	21 19 16 e16 e15	26 21 16 14 17	13 14 18 15 14	15 13 13 13 11	52 41 34 28 32	33 33 29 26 24	75 60 42 38 34	23 21 20 17 17	2,120 1,280 664 381 218	25 24 23 23 23	15 30 19 18 16		
26 27 28 29 30 31	12 10 10 10 10 11	e15 e14 e14 e14 e13	17 16 14 14 32 27	16 17 16 13 13 21	15 14 12 	28 25 32 29 26 25	22 21 21 20 95	33 31 46 38 59 108	18 17 18 20 16	124 500 373 191 107 81	31 20 20 137 35 40	37 33 21 20 17		
TOTAL MEAN MAX MIN CFSM IN.	468.4 15.1 86 9.7 0.21 0.25	507.1 16.9 41 9.4 0.24 0.27	699.5 22.6 142 9.5 0.32 0.37	475 15.3 23 12 0.22 0.25	374.1 13.4 21 9.1 0.19 0.20	1,014 32.7 98 12 0.46 0.53	1,819 60.6 331 20 0.86 0.96	6,649 214 1,380 31 3.03 3.50	1,031 34.4 96 16 0.49 0.54	10,712 346 2,120 14 4.89 5.64	3,041 98.1 780 20 1.39 1.60	840 28.0 111 15 0.40 0.44		
				A FOR WATI				`						
MEAN MAX (WY) MIN (WY)	33.1 282 (1955) 3.95 (1965)	50.9 287 (1986) 3.54 (1972)	63.8 279 (1983) 3.07 (1964)	67.6 335 (1999) 3.77 (1977)	88.7 479 (1997) 6.32 (1963)	135 429 (1979) 19.1 (1957)	132 430 (1999) 19.2 (1946)	106 373 (1996) 11.9 (1958)	74.2 423 (1993) 8.78 (1965)	42.0 346 (2003) 6.11 (1965)	31.3 156 (1998) 4.73 (1964)	28.1 219 (1993) 3.91 (1956)		
SUMMA	RY STATIS	STICS		FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	YEAR	WATER	YEARS 194	3 - 2003		
ANNUAI HIGHES' LOWEST HIGHES' LOWEST ANNUAI MAXIMI MAXIMI ANNUAI ANNUAI 10 PERC 50 PERC	Γ ANNUAL Γ ANNUAL Γ DAILY M Γ DAILY M	MEAN MEAN EAN DAY MINIM FLOW STAGE (CFSM) (INCHES) EDS	IUM	10	0.9 0.4 Nov 0.0 Oct	1	2,12 2,40	75.7 20 Ju 9.1 Fet 10 Oc 00 Ju	121 512 t 27 121 121	3,0	1.6 De 1.7 Se 010 No	1993 1964 v 28, 1990 c 24, 1963 p 3, 1964 v 28, 1990 v 28, 1990		

e Estimated

05536190 HART DITCH AT MUNSTER, IN—Continued



05536195 LITTLE CALUMET RIVER AT MUNSTER, IN

LOCATION.--Lat $41^{\circ}34'38''$, long $87^{\circ}31'17''$, in $SE^{1}_{4}NW^{1}_{4}$ sec. 13, T.36 N., R.10 W., Lake County, Hydrologic Unit 07120003, (CALUMET CITY, IL-IN quadrangle), 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.

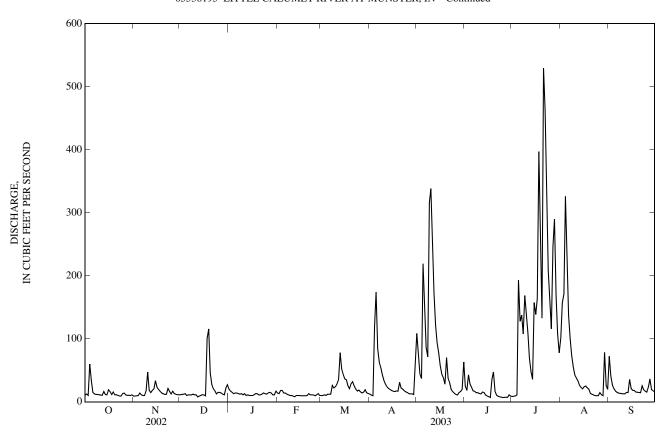
PERIOD OF RECORD .-- June 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 580.72 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. Flow from eastern portion of Little Calumet River Basin is diverted to Lake Michigan by Burns Ditch. Periods of high flow frequently are in backwater from downstream storage.

	DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES DAY OCT NOV DEC IAN FER MAR APR MAY IUN IUI. AUG SEP												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	11 12 10 60 34	e9.0 e9.2 e9.5 e10 e14	11 12 e12 e13 e10	e20 e17 e15 e13 e14	e14 e13 e18 e18 e14	e10 e10 e11 e10 e12	12 11 9.7 120 174	109 78 44 37 219	25 18 43 28 23	8.4 9.1 9.2 11 193	101 157 171 326 215	72 41 27 21 17	
6 7 8 9 10	15 12 12 12 11	e11 e10 e10 e17 47	e11 11 11 12 11	e14 e13 e12 e13 e11	e14 e12 e11 e10 e10	e12 e12 e26 e22 e24	85 63 54 43 34	148 86 71 316 338	17 17 14 15 13	128 138 108 169 141	138 100 74 55 42	15 14 14 13 13	
11 12 13 14 15	11 10 16 12 11	18 15 18 21 34	11 7.8 9.0 10 11	e13 e10 e11 e10 e10	e9.0 e8.0 e10 e10 e10	e28 e35 78 52 43	28 24 21 20 18	254 173 121 94 77	12 16 15 11 9.3	109 69 48 36 158	38 33 26 23 20	13 15 15 36 21	
16 17 18 19 20	19 16 12 16 11	23 19 17 14 13	11 9.5 101 116 46	e10 e11 e13 e13 e11	e9.6 e9.6 e9.6 e10	36 35 26 21 29	17 16 17 17 31	57 44 38 28 70	8.1 6.9 36 47 17	139 164 397 223 133	24 25 22 20 13	18 18 15 15	
21 22 23 24 25	11 10 9.2 9.1 13	12 12 21 16 12	27 21 17 13 e15	e11 e12 e14 e13 e12	e13 e11 e11 e11 e9.6	32 25 20 17 19	22 20 18 16 15	38 30 19 16 14	10 8.8 7.8 7.5 6.7	529 462 298 208 155	12 11 9.9 9.7 9.7	14 25 19 17 15	
26 27 28 29 30 31	14 11 10 10 e10 e11	17 13 12 11 11	e15 e14 e12 e11 e22 e27	e14 e15 e14 e11 e11	e11 e13 e10	16 14 15 19 14	13 13 13 12 54	12 11 15 16 20 63	7.1 7.4 7.0 11 9.0	116 247 290 169 108 78	15 11 9.8 78 26 20	23 36 20 18 16	
TOTAL MEAN MAX MIN CFSM IN.	441.3 14.2 60 9.1 0.16 0.18	475.7 15.9 47 9.0 0.18 0.20	640.3 20.7 116 7.8 0.23 0.26	398 12.8 20 10 0.14 0.16	319.0 11.4 18 8.0 0.13 0.13	736 23.7 78 10 0.26 0.30	1,010.7 33.7 174 9.7 0.37 0.42	2,656 85.7 338 11 0.95 1.10	473.6 15.8 47 6.7 0.18 0.20	5,050.7 163 529 8.4 1.81 2.09	1,835.1 59.2 326 9.7 0.66 0.76	631 21.0 72 13 0.23 0.26	
STATIST	TICS OF MO	ONTHLY M	EAN DATA	FOR WAT	ER YEARS	1959 - 2003	, BY WATE	R YEAR (W	YY)				
MEAN MAX (WY) MIN (WY)	35.0 151 (1994) 6.47 (1969)	57.6 212 (1973) 5.29 (1972)	72.0 301 (1983) 7.12 (1961)	62.5 199 (1993) 7.32 (1961)	82.7 252 (1959) 8.49 (1963)	124 386 (1979) 18.2 (2000)	125 268 (1973) 21.3 (1963)	94.1 266 (1959) 18.1 (1992)	70.6 222 (1993) 11.2 (1965)	42.5 185 (1996) 9.56 (1991)	37.4 141 (1990) 7.28 (1964)	39.0 217 (1965) 5.54 (1966)	
SUMMA	RY STATIS	STICS		FOR 2002 C	ALENDAR	YEAR	FOR 200	3 WATER Y	YEAR	WATER	YEARS 195	9 - 2003	
ANNUAI HIGHES' LOWEST HIGHES' LOWEST ANNUAI MAXIMU MAXIMU ANNUAI ANNUAI 10 PERC' 50 PERC'	Γ ANNUAL C ANNUAL Γ DAILY M C DAILY M	MEAN IEAN EAN AY MINIM FLOW STAGE (CFSM) (INCHES) EDS EDS	IUM	701 5	May 7.8 Dec 0.8 Oct 0.48 0.49 0.2	12	52 60 1	40.2 29 Ju 6.7 Jui 7.5 Jui 06 Ju	121 125 122 121 121	1,1 1,5	1.9 Au 2.2 Se 510 Ap	1973 1964 or 28, 1959 g 16, 1964 p 2, 1964 or 28, 1959 v 28, 1990	

05536195 LITTLE CALUMET RIVER AT MUNSTER, IN—Continued



05536357 GRAND CALUMET RIVER AT HOHMAN AVE AT HAMMOND, IN

LOCATION.--Lat 41°37'28", long 87°31'04", in $NE^{1}_{4}NW^{1}_{4}$ sec. 36, T37 N., R10 W., Lake County, Hydrologic Unit 07120003, (CALUMET CITY, IL-IN quadrangle), on left bank, 20 feet upstream of Hohman Avenue, 1,000 feet east of Indiana-Illinois State line, 0.57 mi downstream of U.S. Highway 41, and 0.7 mi north of St. Margaret's Hospital (Hohman Avenue).

DRAINAGE AREA.--Indeterminate.

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

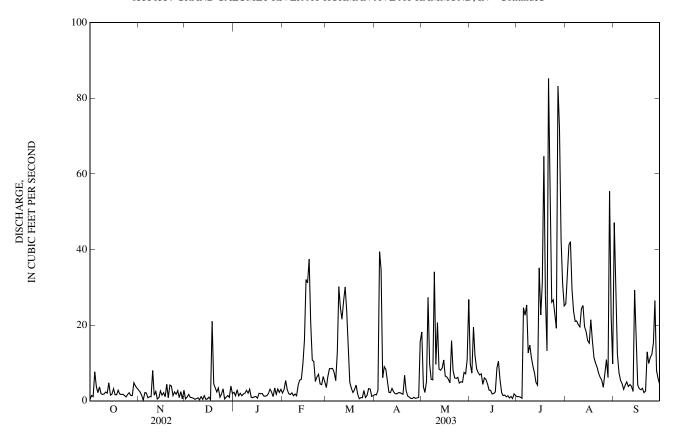
GAGE.--Water-stage recorder. Datum of gage is 575.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS .-- Records poor.

KEWIAKN	SKecore	as poor.										
					ISCHARGE, YEAR OCT DAII		TO SEPTE					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.37 1.4 1.1 7.7 3.7	2.9 2.3 1.4 0.20 2.2	0.51 e0.97 e1.7 e0.92 e0.84	e2.3 e1.4 e2.9 e1.3 e2.0	e2.1 e3.0 e5.4 e3.0 e1.9	3.5 6.4 8.5 8.5 8.6	1.7 1.6 2.7 39 35	18 3.7 2.2 5.2 27	9.7 7.3 19 12 8.6	1.1 1.1 0.97 0.68 25	26 32 41 42 29	47 28 12 7.4 5.5
6 7 8 9 10	2.2 3.7 1.9 1.7 1.8	2.1 0.78 1.1 1.1 8.0	e0.70 e0.39 e0.54 0.81 0.28	e1.3 e1.8 e2.0 e2.8 e2.0	e1.7 e2.1 e1.3 e1.8 e1.3	7.5 5.3 13 30 25	6.1 9.0 8.4 5.2 2.3	9.7 5.7 5.5 34 9.6	7.5 6.8 7.1 4.4 6.0	23 25 13 15 12	24 21 21 20 20	4.5 3.0 4.1 5.0 3.8
11 12 13 14 15	2.3 2.0 4.8 1.5 1.8	1.5 2.4 0.47 0.83 2.6	1.1 0.40 1.4 0.41 0.52	e3.0 e0.93 e0.84 e1.1 e1.2	e4.2 5.5 5.7 9.6 16	22 26 30 24 13	2.2 3.3 2.4 1.9 1.9	21 8.4 8.1 8.6 11	5.7 4.4 2.8 2.8 1.8	9.2 7.4 4.8 4.1 e35	24 25 20 18 16	4.3 3.8 2.4 29 14
16 17 18 19 20	3.2 1.6 1.6 2.8 1.8	1.5 2.2 1.1 4.4 0.83	0.97 0.33 21 4.5 3.4	e0.68 e2.0 e1.9 e1.9 e1.3	32 31 37 21 11	4.8 3.3 2.2 2.9 4.2	2.1 2.2 1.9 1.7 6.8	6.5 6.3 5.7 4.8 16	1.9 2.4 8.7 10 5.5	e23 e31 e65 e28 e13	15 21 16 11 10	4.2 3.2 2.9 3.3 2.2
21 22 23 24 25	1.7 1.7 1.4 1.0 1.7	4.2 3.9 1.4 2.4 1.7	2.3 3.4 0.93 1.8 e3.2	e1.2 e1.4 e1.9 e3.1 e2.3	10 5.1 6.3 7.0 4.5	1.8 0.57 0.84 0.83 2.7	2.7 1.3 0.97 0.63 0.61	8.0 6.1 5.9 6.2 4.7	2.2 1.4 1.5 1.1 1.3	e85 e53 e26 27 23	8.9 7.3 6.2 5.5 3.6	2.6 13 9.9 11 12
26 27 28 29 30 31	2.1 1.4 1.4 4.8 3.9 3.4	2.7 0.88 2.4 0.50 2.8	e0.49 e0.97 e1.4 e0.93 e3.9 e1.9	e1.1 e3.4 e1.7 e3.1 e2.2 e3.0	4.3 6.4 5.1 	0.87 1.4 3.2 3.1 1.2 1.3	0.92 0.64 0.75 0.89 16	5.0 4.9 7.5 7.1 11 27	0.76 1.2 0.59 1.8 1.3	19 83 72 43 31 25	7.4 11 6.1 55 22 9.8	15 27 8.0 5.9 4.4
TOTAL MEAN MAX MIN	73.47 2.37 7.7 0.37	62.79 2.09 8.0 0.20	62.91 2.03 21 0.28	59.05 1.90 3.4 0.68	245.3 8.76 37 1.3	266.51 8.60 30 0.57	162.81 5.43 39 0.61	310.4 10.0 34 2.2	147.55 4.92 19 0.59	824.35 26.6 85 0.68	594.8 19.2 55 3.6	298.4 9.95 47 2.2
STATIST	ICS OF M	ONTHLY M	IEAN DATA	A FOR WAT	ER YEARS	1991 - 2003	BY WATE	R YEAR (W	<i>_</i>			
MEAN MAX (WY) MIN (WY)	X 80.4 63.7 65.2 66.8 95.9 8 Y) (1998) (1998) (1998) (1998) (1997) (1907) (1907) (1907)						36.9 90.8 (1998) 5.43 (2003)	39.4 85.9 (1997) 9.98 (2001)	40.8 98.8 (1993) 4.92 (2003)	44.2 102 (1993) 6.06 (2002)	36.4 93.9 (1997) 4.54 (2002)	31.9 88.9 (1997) 1.22 (2002)
SUMMAI	RY STATI	STICS		FOR 2002 C	CALENDAR	YEAR	FOR 200	3 WATER Y	/EAR	WATER	YEARS 19	91 - 2003
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK STAGE 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				16	6.18 6 May 0.20 Nov 0.60 Dec	4	unknow unknow	0.20 Nov 0.60 Dec			0.20 N 0.60 D 701 F	1997 2002 Feb 21, 1997 Fov 4, 2002 Dec 6, 2002 Feb 21, 1997 Jul 18, 1996

e Estimated

05536357 GRAND CALUMET RIVER AT HOHMAN AVE AT HAMMOND, IN—Continued



DISCHARGE AT MISCELLANEOUS SITES

Special study and miscellaneous sites

STREAMS TRIBUTARY TO LAKE MICHIGAN BASIN

Lake Michigan Basin

Streamflow was measured at points other than continuous gaging stations from 4 sites in the Lake Michigan Basin on October 16, 2002. This data was collected as a part of an investigation of water quality and ground-water/surface-water interactions near Long Lake, Indiana Dunes National Lakeshore. This study was funded under the US Geological Survey-National Park Service Water Quality Assessment and Monitoring Partnership.

Stream	Tributary to	Location	Measurement date	Discharge (ft ³ /s)
Little Calumet River/Burns Ditch	Lake Michigan	Lat 41°34'28"N, long 87°17'22"W, NAD83, at Central Avenue bridge at Lake Station, Lake County, IN.	10-16-02	22.7
Little Calumet River/Burns Ditch	Lake Michigan	Lat 41°35'29"N, long 87°13'33"W, NAD83 approximately 200 feet downstream(east) of US Highway/Interstate 90 bridge at Lake Station, Lake County, IN.	10-16-02	36.4
Willow Creek	Little Calumet River/Burns Ditch	Lat 41°35'35"N, long 87°12'45"W, NAD83, approximately 700 feet downstream(west) of US Highway 20 bridge at Portage, Porter County, IN.	10-16-02	1.60
East Arm Little Calumet River	Burns Ditch	Lat 41°36'45"N, long 87°10'25"W, NAD83, at US Highway 249 bridge at Portage, Porter County, IN.	10-16-02	240

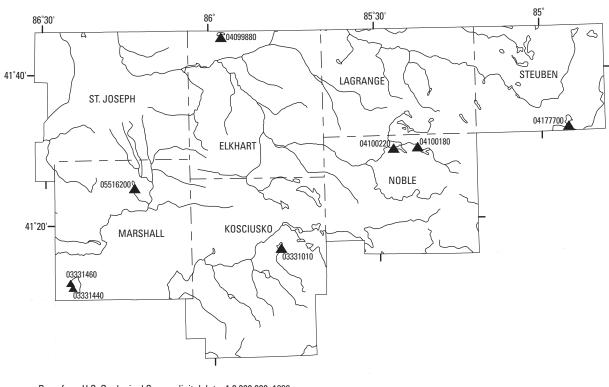
Streamflow was measured at points other than continuous gaging stations at one site in the Lake Michigan basin during the period April 7-August 27, 1998 as part of a miscellaneous surface water study.

Stream	Tributary to	Location	Measurement date	Discharge (ft ³ /s)
Turkey Creek	Elkhart River	Lat 41°24'31"N Long 85°51'27W NAD27 at West Emeline Street, in Milford, Kosciusko County, IN	04-07-1998 06-01-1998 06-04-1998 06-18-1998 07-20-1998 08-27-1998	148 29.7 23.3 46.0 20.5 21.8

Wabash River Basin

Streamflow was measured at points other than continuous gaging stations at one site in the Wabash River basin on November 19, 2003. This data was collected as a test of an acoustic streamflow measurement device.

Stream	Tributary to	Location	Measurement date	Discharge (ft ³ /s)
Eagle Creek	White River	Lat 39°53'16"N, Long 86°18'00W NAD27 at Lafayette Road, Marion County, IN	11-19-03	530



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

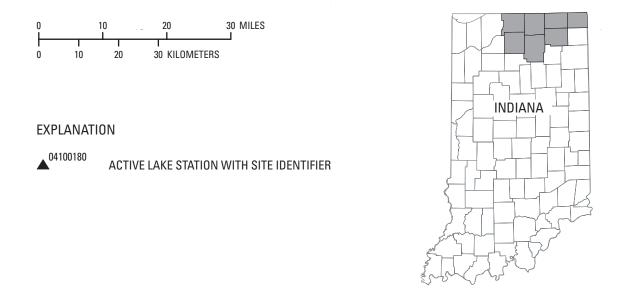


Figure 8.--Locations of lakes having water-level records for water year 2003.

03331010 BIG CHAPMAN LAKE NEAR WARSAW, IN

LOCATION.--Lat $41^{\circ}16^{\circ}53^{\circ}$, long $85^{\circ}46^{\circ}47^{\circ}$, in $NW^{1}/_{4}SE^{1}/_{4}SW^{1}/_{4}$ 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 access site, 4.9 mi northeast of Warsaw.

SURFACE AREA.--581 acres.

DRAINAGE AREA.--4.17 mi².

PERIOD OF RECORD.--1945-71, 1976 to October 2002, August 2003 to September 30, 2003.

REVISED RECORDS .-- WDR IN-03-1: 1990 - 2002.

DATUM OF GAGE.--820.00 ft above National Geodetic Vertical Datum of 1929.

GAGE.--A water-stage recorder is 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 National Geodetic Vertical Datum of 1929 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.

REVISIONS.--Lake levels previously published from December 1990 to October 2002 were found to be in error by -0.38 feet. Extremes for period of record were not affected.

LAKE LEVEL, FEET WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990 DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.35	7.46	7.65	7.67	7.76	7.82	7.73	7.55	7.49	7.55	7.50	7.50
10	7.33	7.49	7.63	7.67	7.73	7.91	7.78	7.51	7.57	7.44	7.41	7.63
15	7.32	7.74	7.64	7.65	7.79	7.87	7.77	7.71	7.51	7.49	7.56	7.67
20	7.44	7.73	7.60	7.77	7.76	7.75	7.81	7.86	7.45	7.59	7.82	7.59
EOM	7.44	7.68	7.58	7.78	8.13	7.70	7.68	7.70	7.49	7.70	7.75	7.55
	7.47	7.67	7.60	7.69	7.99	7.73	7.55	7.55	7.58	7.50	7.61	7.54
MEAN	7.38	7.60	7.61	7.70	7.85	7.80	7.72	7.65	7.52	7.56	7.61	7.58
MAX	7.47	7.77	7.67	7.78	8.29	7.96	7.82	8.01	7.60	7.79	7.89	7.69
MIN	7.32	7.45	7.51	7.59	7.70	7.65	7.55	7.49	7.43	7.44	7.41	7.49
MUTD M	D 1000	MEAN 7.62	34437 0 20	3.413.1.7	22							

WTR YR 1990 MEAN 7.63 MAX 8.29 MIN 7.32

LAKE LEVEL, FEET WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991 DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.59	7.86	7.90	8.34	8.00	8.11	8.03	8.02	7.99	7.76	7.48	7.49
10	8.19	7.80	7.84	8.16	8.03	8.07	7.99	7.93	7.88	7.71	7.55	7.45
15	7.96	7.75	7.85	8.17	8.03	8.06	8.05	7.90	7.91	7.66	7.51	7.51
20	7.74	7.71	7.85	8.20	8.05	8.09	8.19	7.84	7.82	7.61	7.63	7.43
25	7.61	7.71	7.89	8.06	8.04	8.07	8.15	7.99	7.75	7.56	7.59	7.42
EOM	7.55	7.82	8.70	7.97	8.03	8.05	8.03	8.18	7.81	7.49	7.55	7.36
MEAN	7.74	7.74	7.95	8.20	8.02	8.10	8.06	7.94	7.88	7.65	7.54	7.45
MAX	8.19	7.86	8.83	8.63	8.06	8.16	8.21	8.18	8.18	7.81	7.64	7.52
MIN	7.52	7.55	7.78	7.97	7.95	8.05	7.91	7.84	7.72	7.49	7.46	7.36
WTD VD	1001	MEAN 796	MAV 0 07	MIN 7	25							

WTR YR 1991 MEAN 7.86 MAX 8.87 MIN 7.35

LAKE LEVEL, FEET WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992 DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.56	7.86	8.00	7.96	7.93	8.04	8.23	7.95	8.00	7.89	7.77	7.79
10	7.51	7.84	7.96	7.96	7.91	8.18	8.20	7.93	8.04	7.83	7.76	8.06
15	7.57	7.88	8.01	7.99	7.97	8.18	8.13	7.88	7.99	7.99	7.73	7.92
20	7.59	8.11	7.96	7.92	8.01	8.25	8.10	7.90	8.04	8.03	7.71	7.94
25	7.77	8.00	7.95	7.96	8.04	8.28	8.05	7.89	8.02	7.88	7.68	7.99
EOM	7.93	8.01	7.94	7.94	8.03	8.29	8.00	7.98	7.99	7.87	7.76	8.03
MEAN	7.61	7.93	7.98	7.95	7.97	8.19	8.14	7.92	8.02	7.92	7.75	7.94
MAX	7.95	8.11	8.05	7.99	8.04	8.30	8.28	7.99	8.07	8.10	7.85	8.06
MIN	7.35	7.84	7.94	7.91	7.90	8.03	8.00	7.87	7.97	7.79	7.68	7.75

WTR YR 1992 MEAN 7.94 MAX 8.34 MIN 7.35

WABASH RIVER BASIN

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LAKE LEVEL, FEET WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

03331010 BIG CHAPMAN LAKE NEAR WARSAW, IN—Continued

						ERVATION		OURS				
DAY 5 10 15 20 25 EOM MEAN MAX MIN WTR YR	OCT 8.00 8.01 7.96 7.96 7.97 7.95 7.98 8.03 7.93	NOV 8.27 8.32 8.58 8.25 8.22 8.07 8.31 8.61 8.07 MEAN 8.05	DEC 7.98 7.96 7.95 7.95 7.90 8.20 7.96 8.20 7.88 MAX 8.61	JAN 8.55 8.23 8.10 7.98 8.13 7.99 8.17 8.60 7.98 MIN 7	FEB 7.93 7.91 7.94 7.91 7.92 7.89 7.93 7.98 7.89	MAR 7.94 8.06 8.05 8.11 8.27 8.19 8.09 8.27 7.88	APR 8.14 8.16 8.17 8.22 8.35 8.17 8.19 8.35 8.11	MAY 8.07 7.95 7.84 7.79 7.88 7.98 7.92 8.11 7.79	JUN 8.01 8.22 8.12 8.09 7.96 8.17 8.07 8.26 7.93	JUL 8.07	AUG 7.75	SEP 7.88 7.86 7.94 7.91 7.99 8.02 7.92 8.04 7.75
					YEAR OCT	KE LEVEL, FOBER 1993 ERVATION	TO SEPTE	MBER 1994 DURS				
DAY 5 10 15 20 25 EOM MEAN MAX MIN WTR YR	OCT 8.00 8.09 8.07 8.40 8.14 7.92 8.12 8.40 7.92	NOV 7.87 7.83 7.95 8.00 8.03 8.06 7.94 8.07 7.83 MEAN 7.89	DEC 8.16 8.01 7.90 7.92 7.88 7.85 7.96 8.16 7.85 MAX 8.44	7.86 7.86 7.84 7.84 7.81 8.02 7.87 8.02 7.81 MIN 7	FEB 8.02 8.02 8.02 7.95 7.97 7.97 8.00 8.02 7.95	MAR 7.97 8.08 7.97 7.89 7.89 7.91 7.96 8.08 7.89	APR 7.96 8.04 8.28 8.00 7.87 7.99 8.03 8.43 7.87	MAY 7.89 7.85 7.81 7.76 7.73 7.81 7.95 7.73	JUN 7.67 7.66 7.98 7.84 7.99	JUL 7.90 7.87 7.78 7.75 7.76 7.72 7.82 7.98 7.72	AUG 7.68 7.72 7.76 7.76 7.71 7.67 7.72 7.81 7.66	SEP 7.62 7.67 7.63 7.56 7.59 7.54 7.60 7.67 7.53
					YEAR OCT	KE LEVEL, TOBER 1994 ERVATION	TO SEPTE	EMBER 1995 DURS				
DAY 5 10 15 20 25 EOM MEAN MAX MIN WTR YR	OCT 7.50 7.55 7.53 7.56 7.53 7.54 7.53 7.60 7.49	NOV 7.66 7.81 7.77 7.74 7.73 7.81 7.74 7.86 7.57 MEAN 7.85	DEC 7.78 7.99 7.88 7.89 7.85 7.80 7.87 7.99 7.77 MAX 8.45	JAN 7.87 7.76 7.95 8.13 7.99 7.88 7.91 8.13 7.75 MIN 7	7.84 7.77 7.71 7.72 7.74 7.83 7.77 7.88 7.70	MAR 7.79 8.00 7.98 7.96 7.92 7.95 7.93 8.02 7.78	APR 8.01 8.33 8.14 8.01 7.97 8.03 8.08 8.40 7.95	8.00 8.44 8.07 7.96 7.88 8.05 8.44 7.80	JUN 7.74 7.84 8.19	JUL 7.98 7.83 7.88 7.80 7.80 7.77 7.86 8.15 7.76	8.21 8.05 7.95 7.94 7.77 7.74 7.94 8.21 7.74	SEP 7.68 7.65 7.59 7.56 7.56 7.53 7.61 7.73 7.53
					YEAR OCT	KE LEVEL, OBER 1995 ERVATION	TO SEPTE	MBER 1996 DURS				
DAY 5 10 15 20 25 EOM MEAN	OCT 7.60 7.56 7.53 7.59 7.54 7.70 7.57	NOV 7.99 7.92 7.91 7.86 7.78 7.78	DEC 7.76 7.74 7.77 7.78 7.76 7.76	JAN 7.75 7.71 7.72 7.89 7.88 7.81 7.80	FEB 7.81 7.77 7.73 7.71 7.73 7.85	MAR 7.88 7.87 7.86 7.89 7.87 7.88	APR 7.86 7.83 7.89 8.20 8.27 8.13	MAY 8.09 8.43 8.32 8.48 8.12 8.09	JUN 7.99 8.05 8.07 8.10 8.00 7.88 8.05	JUL 7.77 7.75 7.86 8.55 8.34 8.24 8.07	AUG 8.05 7.87 7.80 8.03 7.98 7.77	SEP 7.74 7.75 7.73 7.86 7.94 7.90 7.80
MAX MIN	7.70 7.51	8.11 7.75	7.78 7.74	7.93 7.71	7.87 7.71	7.91 7.83	8.35 7.83	9.00 8.04	8.17 7.88	8.65 7.74	8.21 7.77	7.94 7.71

WTR YR 1996 MEAN 7.90 MAX 9.00 MIN 7.51

03331010 BIG CHAPMAN LAKE NEAR WARSAW, IN—Continued

LAKE LEVEL, FEET WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY ORSERVATION AT 2400 HOURS

						ERVATION						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.93					8.38	8.15	8.30	8.01	7.86	7.79	7.77
10						8.31	7.95	8.31	7.95	7.82	7.75	7.86
15 20						8.38 8.30	7.97 7.97	8.37 8.55	7.90 8.01	7.90 8.05	8.02 8.28	7.77 7.96
25					8.18	8.34	8.05	8.54	8.10	8.43	8.23	7.80
EOM					8.47	8.18	8.14	8.12	7.98	7.95	7.90	7.73
MEAN						8.32	8.03	8.33	8.05	8.03	8.03	7.82
MAX MIN						8.49 8.18	8.15 7.95	8.64 8.12	8.21 7.90	8.67 7.81	8.37 7.75	7.96 7.73
WTR YR	1997	MEAN 8.09	MAX 8.6			0.10	7.55	0.12	7.50	7.01	7.75	7.75
WIKIK	1///	WILAIV 0.07	MAX 0.0	o min 7.	.73							
					YEAR OC	AKE LEVEL, FOBER 1997 ERVATION	TO SEPTE					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.73	7.83	8.14	8.68	8.02	8.02	8.43			7.56		
10 15	7.75 7.79	7.84 7.89	8.17 8.13	8.60 8.32	7.98 8.03	8.34 8.24	8.73 8.28					
20	7.77	7.95	8.15	8.12	8.06	8.51	8.00		7.92			
25 EOM	7.73	7.96	8.39	8.09	8.01	8.36	7.91		7.60			7.27
EOM	7.81	8.20	8.08	8.09	8.05	8.56	8.03		7.51			7.43
MEAN MAX	7.77 7.91	7.93 8.31	8.18 8.39	8.29 8.81	8.04 8.09	8.29 8.57	8.24 8.92					
MIN	7.72	7.82	8.08	8.04	7.98	8.00	7.86					
WTR YR	1998	MEAN 8.04	MAX 8.9	5 MIN 7	.27							
					YEAR OC	KE LEVEL, TOBER 1998 ERVATION	TO SEPTE					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.36	7.59	7.85	7.79	7.99	7.81	7.65	7.64	7.44	7.46	7.16	7.49
10 15	7.54 7.52	7.92 7.74	8.01 7.86	7.75 7.74	8.02 7.99	7.78 7.70	7.70 7.59	7.58 7.53	7.35 7.31	7.31 7.23	7.14 7.11	7.42 7.37
20	7.55	7.74	7.85	7.74	7.91	7.74	7.58	7.53	7.23	7.20	7.11	7.32
25 EOM	7.54	7.81	7.76	8.22	7.88	7.66	7.84	7.52	7.38	7.16	7.26	7.24
EOM	7.61	7.85	7.73	8.05	8.15	7.58	7.80	7.46	7.46	7.30	7.53	7.44
MEAN MAX	7.53 7.64	7.72 7.92	7.87 8.20	7.90 8.25	7.99 8.15	7.75 8.19	7.70 7.97	7.56 7.76	7.37 7.53	7.28 7.52	7.24 7.62	7.38 7.52
MIN	7.35	7.58	7.73	7.71	7.86	7.58	7.55	7.40	7.21	7.13	7.08	7.23
WTR YR	1999	MEAN 7.60	MAX 8.2	6 MIN 7.	.08							
					YEAR OC	AKE LEVEL, FOBER 1999 ERVATION	TO SEPTE		1			
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.53	7.45	7.74	7.87	7.87	8.19	8.07	7.83	8.21	8.23	7.83	7.93
10 15	7.49 7.45	7.46 7.45	7.67 7.88	7.89 7.88	7.90 7.91	8.20 8.16	8.11 8.10	7.86 7.87	8.05 8.07	8.21 7.96	7.87 7.81	8.03 8.22
20	7.44	7.47	7.82	7.89	7.95	8.20	8.23	7.96	8.04	7.84	7.81	7.96
25 EOM	7.43 7.42	7.51 7.50	7.75 7.78	7.87 7.85	8.10 8.23	8.18 8.11	8.00 7.84	7.98 8.10	8.22 8.20	7.75 7.86	7.97 7.98	8.01 7.96
										8.00	7.98 7.89	8.03
MEAN MAX	7.46 7.56	7.47 7.52	7.72 7.88	7.86 7.89	7.96 8.25	8.17 8.23	8.07 8.23	7.93 8.10	8.12 8.25	8.00 8.39	7.89 8.02	8.03
MIN	7.39	7.44	7.50	7.78	7.85	8.11	7.84	7.79	7.98	7.73	7.79	7.89
WTR YR	2000	MEAN 7.89	MAX 8.4	2 MIN 7	.39							

WABASH RIVER BASIN

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03331010 BIG CHAPMAN LAKE NEAR WARSAW, IN—Continued

LAKE LEVEL, FEET WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.19	8.14	8.13	7.82	7.94	8.18	8.16	7.84	8.27	7.77	7.95	
10	8.14	8.37	8.01	7.79	8.36	8.09	8.53	7.88	8.25	7.75	7.94	
15	8.15	8.29	8.04	7.85	8.29	8.11	8.37	7.96	8.06	7.66	7.84	
20	8.17	8.23	8.03	7.85	8.11	8.15	8.10	8.01	7.90	7.72	7.89	
25	8.23	8.25	7.92	7.81	8.35	8.12	8.00	8.08	7.85	7.98	7.78	
EOM	8.15	8.35	7.85	7.97	8.30	8.12	7.88	8.13	7.80	7.93		
MEAN	8.15	8.25	8.04	7.83	8.16	8.14	8.23	7.99	8.05	7.80		
MAX	8.25	8.37	8.34	7.97	8.37	8.27	8.59	8.17	8.31	7.98		
MIN	7.96	8.13	7.85	7.78	7.94	8.09	7.88	7.83	7.80	7.65		
WTR YR	2001	MEAN 8.04	MAX 8.60	MIN 7.	.26							

LAKE LEVEL, FEET WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.08	8.27	8.32	7.99	8.39	8.30	8.30	7.96	7.96	7.71	7.72	7.54
10	8.04	8.21	8.32	7.96	8.31	8.38	8.39	8.06	7.89	7.70	7.62	7.53
15	8.50	8.05	8.47	7.98	8.26	8.25	8.32	8.31	7.89	7.61	7.60	7.46
20	8.38	8.08	8.54	8.01	8.38	8.14	8.19	8.14	7.85		7.66	7.60
25	8.34	8.14	8.46	8.08	8.32	8.11	8.03	8.06	7.90	7.66	7.68	7.52
EOM	8.15	8.33	8.13	8.62	8.34	8.23	8.02	7.95	7.80	7.74	7.60	7.50
MEAN	8.29	8.16	8.39	8.05	8.34	8.24	8.24	8.12	7.88	7.69	7.66	7.52
MAX	8.62	8.33	8.62	8.62	8.58	8.50	8.51	8.54	7.96	7.79	7.74	7.60
MIN	8.00	8.05	8.13	7.96	8.23	8.08	7.98	7.95	7.80	7.60	7.59	7.44
WTR YR	2002	MEAN 8.05	MAX 8.63	MIN 7.4	14							

LAKE LEVEL, FEET WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.53											7.92
10												7.83
15												7.78
20												7.71
25												7.80
EOM											7.83	7.82
MEAN												7.84
MAX												8.03
MIN												7.71

WTR YR 2003 MEAN 7.77 MAX 8.03 MIN 7.49

04177700 HAMILTON LAKE AT HAMILTON, IN

LOCATION.--Lat 41°32'10", long 84°54'45", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ 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 2002, June 2003 to September 30, 2003.

DATUM OF GAGE.--890.12 ft above National Geodetic Vertical Datum of 1929, 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 National Geodetic Vertical Datum of 1929 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 National Geodetic Vertical Datum of 1929.

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, FEET WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5										8.55	8.96	8.84
10										8.70	8.67	8.64
15										8.57	8.62	8.60
20										8.50	8.54	8.53
25									8.52	8.63	8.53	8.64
EOM									8.48	8.71	8.55	8.70
MEAN										8.62	8.70	8.69
MAX										8.84	9.35	9.09
MIN										8.47	8.51	8.52

WTR YR 2003 MEAN 8.66 MAX 9.38 MIN 8.41

WTR YR 2003 MEAN 3.14 MAX 3.74 MIN 2.69

03331440 LAKE MAXINKUCKEE AT CULVER, IN

LOCATION.--Lat $41^{\circ}11^{\prime}48^{\circ}$, long $86^{\circ}25^{\circ}00^{\circ}$, in $NE^{1}_{4}SE^{1}_{4}NW^{1}_{4}$ 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 access site, 50 ft north of boat ramp, 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 National Geodetic Vertical Datum of 1929.

GAGE.--A water-stage recorder is installed in an aluminum shelter over a 15-inch diameter stilling well.

ESTABLISHED LEGAL LEVEL.--3.12 ft gage datum or 733.12 ft above National Geodetic Vertical Datum of 1929 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, FEET WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	2.85	2.69	2.73	2.99	3.15	3.24	3.56			3.39	3.57	3.36
10	2.81	2.72	2.72	3.02	3.18	3.27				3.64	3.51	3.32
15	2.76	2.73	2.73	2.99	3.19	3.30				3.54	3.42	3.24
20	2.73	2.72	2.86	3.02	3.19	3.36				3.49	3.34	3.22
25	2.71	2.75	2.90	3.04	3.21	3.42				3.70	3.22	3.22
EOM	2.71	2.76	2.93	3.09	3.22	3.40			3.33	3.66	3.36	3.18
MEAN	2.77	2.73	2.80	3.02	3.18	3.33				3.57	3.43	3.28
MAX	2.88	2.76	2.93	3.09	3.22	3.48				3.74	3.63	3.47
MIN	2.71	2.69	2.72	2.98	3.09	3.23				3.31	3.20	3.18

05516200 LAKE OF THE WOODS NEAR BREMEN, IN

LOCATION.--Lat $41^{\circ}25'04''$, long $86^{\circ}13'44''$, in $SW^{1}_{4}NW^{1}_{4}NW^{1}_{4}$ sec.7, T.34 N., R.3 E., Marshall County, Hydrologic Unit 07120001 (BREMEN, IN quadrangle). The gage is on the southwest shore of the lake, at the public access 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 National Geodetic Vertical Datum of 1929.

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 National Geodetic Vertical Datum of 1929 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, FEET WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	3.09	3.01	3.04	3.16	3.21	3.00	3.33	3.57	3.94	3.76	3.86	3.93
10	3.01	3.12	2.96	3.15	3.09	3.04	3.33	3.97	3.92	3.86	3.85	3.89
15	2.95	3.09	3.01	3.10	2.92	3.11	3.22	3.79	3.93	3.75	3.85	3.80
20	3.04	3.06	3.21	3.01	3.10	3.16	3.19	4.01	3.88	3.73	3.79	3.32
25	3.02	3.11	3.19	2.93	2.94	3.18	3.10	3.98	3.81	3.82	3.71	3.22
EOM	3.01	3.07	3.19	2.94	2.86	3.11	3.18	3.97	3.77	3.89	3.93	3.19
MEAN	3.02	3.07	3.09	3.06	3.03	3.09	3.20	3.81	3.89	3.82	3.84	3.61
MAX	3.10	3.14	3.21	3.19	3.21	3.18	3.36	4.01	3.96	4.06	3.93	4.02
MIN	2.93	3.01	2.96	2.93	2.85	2.86	3.07	3.30	3.77	3.73	3.71	3.19
	2002		3 5 1 3 5 4 6									

WTR YR 2003 MEAN 3.38 MAX 4.06 MIN 2.82

03331460 LOST LAKE AT CULVER, IN

LOCATION.—Lat $41^{\circ}12^{\circ}01^{\circ}$, long $86^{\circ}25^{\circ}19^{\circ}$, in $NE^{1}_{4}NW^{1}_{4}NW^{1}_{4}$ 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 National Geodetic Vertical Datum of 1929.

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 National Geodetic Vertical Datum of 1929 as decreed on February 17, 1960, by the Marshall County Circuit Court.

LAKE-LEVEL CONTROL.--The level of the lake is controlled by a concrete dam and sill with removable boards in the outlet channel approximately 850 ft downstream from the main body of the lake.

INLET AND OUTLET.--The one inlet flows into the lake from Maxinkuckee Lake and enters on the north shore. The outlet flows from the south end of the lake to the Tippecanoe River 3.7 mi downstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 13.05 ft June 15, 1981; minimum stage, 10.12 ft July 9, 1959.

LAKE LEVEL, FEET WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20	12.10 12.06 12.02 12.05	12.02 12.05 12.02 12.01	12.04 12.01 12.01 12.17	12.25 12.25 12.23 12.25	12.43 12.43 12.43 12.44	12.45 12.45 12.46 12.63	12.15 12.52 12.10 12.57	12.58 12.45 12.42 12.43	12.25 12.21 12.19	12.69 12.66 12.60 12.08	12.39 12.52 12.45 12.78	12.88 12.56 12.56 12.67
25 EOM	12.03 12.03 12.02	12.01 12.05 12.06	12.17 12.19 12.21	12.25 12.25 12.26	12.44 12.44 12.44	12.40 12.50	12.57 12.07 12.73	12.43 12.36 12.30	12.31	12.08 12.29 12.32	12.78 12.59 12.20	12.78 12.16
MEAN MAX MIN	12.05 12.16 12.00	12.03 12.06 12.00	12.09 12.21 12.01	12.25 12.26 12.20	12.43 12.44 12.29	12.44 12.76 12.14	12.33 12.82 12.05	12.44 12.62 12.30		12.47 12.69 12.08	12.52 12.78 12.20	12.56 12.88 12.11

WTR YR 2003 MEAN 12.32 MAX 12.92 MIN 12.00

04099880 SIMONTON LAKE NEAR ELKHART, IN

LOCATION.-Lat 41°45′05", long 85°57′28", in NE ½ NE ¼ NE ¼ NE ¼ NE ¼ Sec. 16, T.38 N., R.5 E., Elkhart County, Hydrologic Unit 04050001 (ELKHART, IN quadrangle). The gage is on the southern shore between the two large lobes of the lake, at the public access site, 4.5 mi north of the main Post Office in Elkhart.

SURFACE AREA.--303 acres.

DRAINAGE AREA.--7.44 mi².

PERIOD OF RECORD .-- 1946 to current year.

DATUM OF GAGE.--770.00 ft above National Geodetic Vertical Datum of 1929.

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 National Geodetic Vertical Datum of 1929 as decreed on September 25, 1950, by the Elkhart County Circuit Court.

LAKE LEVEL, FEET

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.

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY OBSERVATION AT 2400 HOURS DAY OCT NOV DEC JAN **FEB** MAR APR MAY JUN JUL AUG SEP 2.04 1.94 2.11 2.32 2.35 2.35 2.57 2.65 2.80 2.41 2.49 2.31 2.10 2.10 2.32 2.32 2.32 2.35 2.35 2.35 2.77 2.71 2.35 2.36 2.52 2.60 10 1.99 2.01 2.00 2.90 2.52 2.25 2.43 2.57 2.48 2.18 1.96 2.97 15 20 25 2.24 2.35 2.52 2.56 2 95 2.43 2.36 1.95 2.00 2.33 2.61 2.09 2.26 2.33 2.35 2.50 2.50 2 29 2.50 2.08 2.52 1 95 2.88 2.25 2.10 2.33 2.48 2.21 **EOM** 1.94 2.31 2.35 2.46 2.49 2.84 2.44 2.27 2.18 2.46 2.40 MEAN 1.97 2.01 2.32 2.35 2.54 2.83 2.67 2.23 2.41 2.31 2.55 2.34 MAX 2.05 2.10 2.33 2.35 2.52 2.60 2.97 2.83 2.56 2.30 2.10 2.35 2.35 2.19 MIN 1.93 1.92 2.33 2.45 2.53 2.44 2.07 WTR YR 2003 MEAN 2.37 MAX 2.98 MIN 1.92

04100180 SYLVAN LAKE AT ROME CITY, IN

LOCATION.—Lat $41^{\circ}29^{\circ}53^{\circ}$, long $85^{\circ}22^{\circ}38^{\circ}$, in $SE^{1}_{4}SE^{1}_{4}SW^{1}_{4}$ sec.9, T.35 N., R.10 E., Noble County, Hydrologic Unit 04050001 (ALBION, IN quadrangle). The gage is on the lake outlet on the extreme western end of the lake, and at the northern edge of Rome City.

SURFACE AREA.--669 acres.

DRAINAGE AREA.--33.8 mi².

PERIOD OF RECORD .-- 1943 to current year.

DATUM OF GAGE.--907.00 ft above National Geodetic Vertical Datum of 1929. 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 wall of the dam at same site.

ESTABLISHED LEGAL LEVEL.—9.20 ft present gage datum or 916.20 ft above National Geodetic Vertical Datum of 1929 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.

LAKE LEVEL, FEET

EXTREMES FOR PERIOD OF RECORD.--Maximum stage, 11.14 ft Aug. 22 and 23, 1996; minimum stage, below -.30 ft Oct. 3-9, and 16-18, 1994.

	WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY OBSERVATION AT 2400 HOURS												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
5	9.11	9.10	9.10	9.18	9.17	9.17	9.69	9.52	9.28	9.14	9.32	9.71	
10	9.07	9.14	9.09	9.17	9.15	9.37	9.68	9.89	9.25	9.61	9.24	9.42	
15	9.05	9.12	9.10	9.13	9.13	9.62	9.46	10.01	9.35	9.40	9.22	9.29	
20	9.11	9.12	9.20	9.13	9.13	9.59	9.41	9.71	9.26	9.23	9.13	9.19	
25	9.10	9.14	9.21	9.11	9.16	9.49	9.30	9.48	9.16	9.36	9.18	9.37	
EOM	9.10	9.12	9.19	9.12	9.16	9.50	9.29	9.37	9.10	9.34	9.21	9.53	
MEAN	9.09	9.12	9.14	9.14	9.14	9.42	9.47	9.64	9.26	9.35	9.23	9.43	
MAX	9.11	9.15	9.21	9.19	9.17	9.63	9.76	10.05	9.36	9.61	9.39	9.75	
MIN	9.04	9.08	9.09	9.11	9.12	9.15	9.21	9.37	9.10	9.08	9.13	9.18	
WTR YR	2003	MEAN 9.29	MAX 10	.06 MIN 9	9.04								

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 access site west of County Road 125 West at Dukes Bridge, and 6.8 mi northwest of Albion.

SURFACE AREA .-- 216 acres.

DRAINAGE AREA.--134 mi².

PERIOD OF RECORD .-- 1948 to current year.

DATUM OF GAGE.--880.00 ft above National Geodetic Vertical Datum of 1929.

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 National Geodetic Vertical Datum of 1929 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, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.70	5.02	5.04	5.34	5.04	4.91	6.22	5.92	5.76	5.64	5.87	6.43
10	5.66	5.02	4.96	5.27	5.00	5.26	6.34	6.54	5.76	6.20	5.78	6.22
15	5.38	5.04	5.00	5.16	4.90	5.78	6.06	7.10	5.86	5.91	5.74	5.89
20	5.24	5.03	5.32	5.05	4.99	5.90	5.79	6.98	5.81	5.75	5.66	5.73
25	5.13	5.09	5.42	4.98	4.90	5.92	5.56	6.50	5.70	5.84	5.68	5.88
EOM	5.00	5.07	5.39	4.98	4.86	5.82	5.42	6.02	5.66	5.86	5.77	6.23
MEAN	5.39	5.03	5.16	5.15	4.95	5.53	5.90	6.45	5.78	5.87	5.76	6.06
MAX	5.70	5.09	5.43	5.39	5.16	5.95	6.36	7.15	5.98	6.20	5.92	6.43
MIN	5.00	4.93	4.96	4.96	4.83	4.85	5.35	5.56	5.66	5.61	5.66	5.71
TIMED IN	2002	A FE + N . 5 . 50	34437 7 1	<	0.2							

WTR YR 2003 MEAN 5.59 MAX 7.16 MIN 4.83

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 I	Lake	County	Drainage (square miles)	Surface area (acres)	Estab- lished level*	Capac- ity (acre- feet)	Contour map avail- able	Records avail- able
		LAUGHERY	Y CREEK BA	SIN				
03276800 Versailles Lake	near Versailles	Ripley	168.0	232			-	1957-2002
		BAYOU I	ORAIN BASI	N				
03322300 Hovey Lake ne	ar Mount Vernon	Posey	6.36	253			-	1950-69
		WABASH	RIVER BAS	IN				
03327550 Everett Lake ne	ear Levert	Allen	1.07	43	835.13	650	+	1946-66
03327600 Blue Lake near		Whitley	3.58	239	850.28	5,010	+	1946-69,
000000000000000000000000000000000000000	m · r · 1	******	0.4	111	007.04			1976-2002
03327650 Shriner Lake at 03327700 Cedar Lake at 1		Whitley Whitley	.94 .79	111 131	907.04 901.90		-	1943-2002 1943-49
03327750 Round Lake at		Whitley	3.36	125	901.90		_	1943-49
03327800 Wilson Lake ne		Whitley	.46	29	865.39	390	+	1946-52
03327850 Little Wilson L		Whitley	.52	8	865.39	130	+	1946-52
03328100 Long Lake at L	aketon	Wabash	.55	48	751.19	760	+	1946-51,
02220250 N	b	17 ' 1	2.00	10	061.72	170		1959-2002
03328250 North Little La 03328350 Silver Lake at S		Kosciusko Kosciusko	2.89 6.31	12 102	861.73 861.73	170 1,520	++	1947- 1947-2002
03328400 Lukens Lake no		Wabash	1.76	46	763.60	1,010	+	1948-49,
						-,		1959-2002
03330020 Crooked Lake 1		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
03330060 Goose Lake ne	ar I orane	Whitley	1.51	84	910.96	2,180	+	1976-2002 1945-53
03330080 Loon Lake at C		Whitley	11.1	222	895.14	5,730	+	1943-66
03330100 New Lake near		Whitley	.29	50	903.91	880	+	1945-53
03330120 Old Lake near l	Etna	Whitley	2.81	32	898.07	620	+	1949-66
03330140 Smalley Lake n		Noble	27.1	69		1,520	+	1943-2002
03330160 Gilbert Lake ne		Noble Noble	.37	28 18	901.80	490 250	+	1954-2002
03330180 Horseshoe Lake 03330200 Baugher Lake r		Noble	1.62 31.0	32	901.80 878.52	390	++	1945-66 1945-51
03330220 Wilmot Pond at		Noble	35.2	10			-	1945-51
03330240 Webster Lake a		Kosciusko	49.2	774	852.75	7,170	+	1943-2002
03330243 James Lake at 0		Kosciusko	55.9	282	836.40	7,580	+	1943-
03330260 Robinson Lake		Kosciusko	7.15	59	851.09	1,170	+	1946-51
03330280 Troy Cedar Lak 03330300 Ridinger Lake		Whitley Kosciusko	5.33 34.6	93 136	905.41 843.12	2,540 2,900	++	1945-52 1943-2002
03330320 Kuhn Lake nea	r North Webster ^d	Kosciusko	3.85	137	837.50	1,290	+	1945-2002
03330340 Big Barbee Lak	ke near North Webster d	Kosciusko	44.7	304	837.50	5,640	+	1945-49
03330360 Little Barbee L		Kosciusko	49.0	74	837.50	960	+	1945-49
03330380 Shoe Lake near	Oswego	Kosciusko	.34	40	841.57		-	1946-53,
								1972,74,
03330400 Banning Lake r	near North Webster ^d	Kosciusko	.48	12	837.50	110	+	1976-2002 1945-
03330400 Bailing Lake 1 03330420 Irish Lake near	North Webster d	Kosciusko	50.9	182	837.50	2,330	+	1945-
03330440 Sechrist Lake n		Kosciusko	.58	105	837.50	2,490	+	1945-
03330460 Sawmill Lake r		Kosciusko	51.8	36	837.50	370	+	1945-2002
03330480 Tippecanoe Lal		Kosciusko	113	768	836.40	28,380	+	1943-2002
03330495 Oswego Lake a 03331010 Big Chapman I	aka naar Warsaw ²	Kosciusko Kosciusko	113 4.17	83 581	836.40 827.75	780 6,080	+	1943- 1945-71,
05551010 Dig Chaphian I	Lane fical warsaw	NOSCIUSKO	7.1/	501	041.13	0,000	Ť	1945-71, 1976-

Lakes in the Ohio River Basin for which records are available--Continued

Station number	Lake	County	Drain- age (square miles)	Surface area (acres)	Estab- lished level*	Capacity (acrefeet)	Contour map avail- able	Records avail- able				
WABASH RIVER BASINContinued												
03331020 Little Chap	man Lake near Warsaw ^e	Kosciusko	7.13	77	827.75	1,990	+	1945-71, 1976-				
03331040 Pike Lake a 03331060 Fish Lake n		Kosciusko Kosciusko	41.5 4.93	203 15	805.64 845.52	2,830	+	1954-2002 1951-66				
03331080 Muskellung		Kosciusko	11.8	32	842.67	300	+	1943-53, 1959-71				
03331100 Carr Lake n 03331120 Sherburn La	near Claypool ake near Pierceton ³	Kosciusko Kosciusko	2.27 5.51	79 15	848.88 881.00	1,340 230	++	1947-53 1954-2002				
03331140 Winona Lal 03331160 Center Lake	ke at Warsaw	Kosciusko Kosciusko	32.1 0.73	562 120	811.06 803.86	16,680 2,060	+	1943-2002 1945-2002				
03331180 Palestine La		Kosciusko	32.4	290		1,170	++	1943-2002				
03331200 Crystal Lak		Kosciusko	.45	76	789.69	930	+	1945-51				
03331220 Hoffman La	ake at Atwood n Lake near Silver Lake	Kosciusko Kosciusko	8.07 2.83	180 146	785.85 868.95	3,160 3,280	++	1945-53 1947-53				
03331260 Loon Lake	near Silver Lake	Kosciusko	3.59	40	865.74	670	+	1947-53				
03331280 McClures L 03331300 Hill Lake n		Kosciusko	1.29 .85	32 67	865.85 871.50	410 1,300	+	1945-52 1952-2002				
03331320 Diamond L		Kosciusko Kosciusko	.83 3.92	79	6/1.30	1,300	++	1954-2002				
03331340 Yellow Cree	ek Lake near Silver Lake	Kosciusko	11.1	151	860.50	4,730	+	1945-53				
03331360 Rock Lake 03331370 Town Lake		Kosciusko Fulton	2.74 2.77	56 23	847.29	360 220	++	1946-66 1949-50				
03331370 Town Lake 03331380 Lake Manit		Fulton	44.2	1,158	778.41	10,165	+	1943-2002				
03331390 Zink Lake r		Fulton	1.11	19	810.68	1.240	-	1952-55				
03331400 Nyona Lake 03331420 South Mud		Fulton Fulton	7.59 4.53	104 94	793.91 793.42	1,340 1,020	++	1946-2002 1946-66				
03331438 King Lake 1	near Delong	Fulton	1.98	18		180	+	1971-2002				
03331440 Lake Maxir	nkuckee at Culver 9	Marshall	13.7	1,864	733.12	45,600	+	1943-				
03331460 Lost Lake n 03331480 Langenbau		Marshall Starke	14.2 .72	40 48	732.00 717.96	260	- +	1954- 1954-66				
03331700 Bruce Lake	at Bruce Lake	Pulaski	6.38	245	723.69	1,790	+	1943-53				
03332200 Fletcher La	ke at Fletcher ow Lake near Vallonia	Fulton Jackson	.67 6.67	45 145	783.20	880 980	++	1946-53 1946-61				
03371700 Ogle Lake 1		Brown	1.03	20		250	+	1963-71 1954-2002				
		. n.	D : 6									
	Lakes in the St. I	Lawrence River										
	5											
04092500 Wolf Lake a 04092990 Lake Georg		Lake Lake	5.72 124	999 282	602.23		-	1946-49 1946-2002				
04097520 Lake Pleasa		Steuben	3.18	24	961.50	3,490	+	1954-69,				
								1971,				
04097550 Lake Georg	e at Jamestown	Steuben	^a 14.7	488	985.28		-	1976-2002 1946-2002				
04097596 Marsh Lake	near Fremont	Steuben	14.9				-	1967-69				
04097600 Little Otter 04097640 Big Otter L		Steuben Steuben	15.7 21.3	34 69	965.18 965.18	740 1,780	+	1946-53 1946-53				
04097650 Snow Lake		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 04097780 Loon Lake	Lake at Nevada Mills ⁶	Steuben Steuben	^a 51.6 2.13	434 138	964.66 1,011.98	4,394 630	+ +	1946-2002 1954-66				
04097850 Crooked La	ke at Crooked Lake	Steuben	10.4	828	988.17	10,555	+	1946-2002				
04097950 Lake Gage 04097960 Lime Lake	at Panama	Steuben	^a 17.3 ^a 17.5	332	954.25	10,140	+	1946-2002				
04097900 Line Lake r		Steuben Lagrange	1.61	57 141	954.25 942.25	427 1,640	++	1946- 1953-54				
04098110 Mud Lake r	near Orland	Steuben	1.85	25	939.01		-	1956-67				
04098300 Cedar Lake 04099050 Pigeon Lak	near Ontario	Lagrange Steuben	1.60 ^a 35.2	120 61	871.90 988.24	1,020 930	++	1948-51 1954-63				
04099100 Figeon Lake no	ear Angola	Steuben	^a 1.25	142	1,018.83	3,150	+	1946-53				
04099190 Pleasant La		Steuben	^a 1.12	53	963.52	1,190	+	1946-66				
04099200 Long Lake 04099250 Bower Lake		Steuben Steuben	^a 67.9 ^a 84.6	92 25	948.50	1,540 280	++	1946-2002 1946-71,				
							•	1976-2002				

RECORDS AVAILABLE ON LAKES--Continued

Lakes in the St. Lawrence River Basin for which records are available--Continued

Station Number Lake	County	Drainage (square miles)	Surface area (acres)	Estab- lished level*	Capacity (acrefeet)	Contour map avail- able	Records avail- able						
STREAMS TRIBUTARY TO LAKE MICHIGANContinued													
04099260 Golden Lake near Pleasant Lake ^g	Steuben	a88.8	119	948.50	1,810	+	1946-71,						
04099400 Silver Lake near Angola	Steuben	^a 3.79	238	959.40	2,540	+	1976- 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	a103	146	948.50	1,450	+	1946-2002						
04099520 Otter Lake near Flint 04099540 Story Lake near Hudson	Steuben DeKalb	^a 6.91 3.16	118 77	934.15 942.20	1,960 1,020	+	1954-66 1946,						
04099540 Story Lake fical Hudson	DeKaio	3.10	//	942.20	1,020	т	1954-66						
04099560 Big Turkey Lake at Stroh	Lagrange	35.8	450	926.61	7,300	+	1945-66						
04099575 McClish Lake near Helmer h	Lagrange	1.28	35	951.09	1,210	+	1951-74,						
04099580 Lake of the Woods near Helmer	Lagrange	5.25	136	951.09	5,470		1976- 1951-74,						
04099380 Lake of the woods hear Heimer	Lagrange	3.23	130	931.09	3,470	+	1976-2002						
04099600 Big Long Lake near Stroh	Lagrange	4.77	388	956.2		-	1954-2002						
04099620 Pretty Lake near Stroh	Lagrange	2.89	184	965.50	4,720	+	1949-53,						
04099640 Little Turkey Lake at Elmira	Lagrange	56.5	135	925.72	1,550	+	1963-65 1945-66						
04099660 Royer Lake near Plato ⁱ	Lagrange	4.69	69	936.50	1,630	+	1952-66						
04099670 Fish Lake near Plato	Lagrange	^a 10.6	100	936.50	4,050	+	1945-2002						
04099700 North Twin Lake near Howe	Lagrange	1.54	135	843.56	2,120	+	1953-2002						
04099710 South Twin Lake near Howe J	Lagrange	2.22	116	843.56	3,600	+	1953-70						
04099740 Shipshewana Lake near Shipshewana 04099760 Fish Lake near Scott	Lagrange Lagrange	^a 6.74 ^a 6.21	202 139	852.04 814.42	1,350 2,560	++	1951-2002 1954-73,						
040))//00 I isii Lake ileai Scott	Lagrange	0.21	137	014.42	2,300	T	1976-2002						
04099780 Stone Lake near Scott	Lagrange	1.51	152	818.76	2,060	+	1954-73, 1976-2002						
04099800 Emma Lake near Emma	Lagrange	13.6	42	880.87	700	+	1954-66						
04099810 Cass Lake near Shipshewana	Lagrange	.68	89	05600	873	+	1970-						
04099820 Hunter Lake near Middlebury 04099840 Wolf Lake near Goshen	Elkhart Elkhart	.51 ^a 1.29	99 100	856.90 813.00	1,120	+	1946-53 1947-57						
04099860 Heaton Lake near Elkhart	Elkhart	9.33	87	767.30	640	+	1947-37						
o 1077000 Fedicii Bake Real Bakhare	Dikitart	7.55	07	707.50	010	•	1969-74, 1976-2002						
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 04100030 Adams Lake near Wolcottville	Lagrange Lagrange	.98 5.62	67 308	974.20 953.59	1,210 7,690	++	1953-59 1946-2002						
04100040 Atwood Lake near Wolcottville	Lagrange	1.23	170	899.99	1,560	+	1948-53						
04100050 Witmer Lake near Wolcottville k	Lagrange	36.1	204	897.36	7,040	+	1945-						
04100060 Westler Lake near Wolcottville K	Lagrange	37.8	88	897.36	1,770	+	1945-						
04100070 Dallas Lake near Wolcottville K	Lagrange	39.8	283	897.36	9,970	+	1945-						
04100080 Martin Lake near Valentine ^m 04100090 Olin Lake near Valentine ^m	Lagrange Lagrange	4.93 5.81	26 103	899.45 899.45	890 9,180	++	1945- 1945-						
04100100 Oliver Lake near Valentine	Lagrange	11.1	362	899.45	15,358	+	1945-2002						
04100110 Hackenburg Lake near Wolcottville	Lagrange	55.4	42	897.36	510	+	1945-2002						
04100120 Messick Lake near Wolcottville ^k	Lagrange	56.4	68	897.36	1,450	+	1945-						
04100130 Jones Lake near Cosperville ^{7, n}	Noble Noble	70.3	114	885.55	960	+	1948-						
04100140 Bixler Lake at Kendallville 04100150 Round Lake at Kendallville ^o	Noble	5.28 3.47	120 99	963.65 954.50	2,090 2,140	++	1945-2002 1954-						
04100160 Little Long Lake at Kendallville	Noble	4.55	71	954.50	1,750	+	1954-2002						
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 04100200 Tamarack Lake near Cosperville ⁿ	Noble Noble	1.43 15.9	33 50	885.55	740 880	+	1954-63 1948-						
04100200 Tamarack Lake near Cospervine 04100210 Steinbarger Lake near Cosperville ⁿ	Noble	24.3	73	885.55	1,590	++	1948- 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 04100258 High Lake near Wolflake	Noble Noble	18.6 4.43	24 123	896.35	380 1,240	++	1954-65 1961-2002						
04100260 Bear Lake near Wolflake	Noble	6.98	136	894.60	3,030	+	1943-2002						
04100280 Muncie Lake near Burr Oak	Noble	42.8	47		580	+	1954-2002						
04100290 Silver Lake near Wolflake	Noble	.28	34		220	+	1953-63						

Lakes in the St. Lawrence River Basin for which records are available--Continued

Station Number	Lake	County	Drain- age (square miles)	Surface area (acres)	Estab- lished level*	Capacity (acrefeet)	Contour map avail- able	Records avail- able					
STREAMS TRIBUTARY TO LAKE MICHIGANContinued													
04100300 Skinner Lake	near Albion	Noble	14.0	125	927.74	1,750	+	1945-72, 1977-2002					
04100310 Pleasant Lake	e near Wolflake	Noble	.29	20		540	+	1952-53					
04100320 Upper Long		Noble	2.08	86	891.19	1,900	+	1956-2002					
04100330 Lower Long 04100340 Eagle Lake n		Noble Noble	4.35 3.22	66 81	889.81	1,560 1,050	++	1946-52 1946-48					
04100340 Eagle Lake II 04100350 Diamond Lak		Noble	4.80	105		2,580	+	1946-2002					
04100360 Sparta Lake a	at Kimmel	Noble	.69	31	888.50	170	+	1946-51					
04100370 Engle Lake n	ear Ligonier	Noble	^a 4.19	48	878.90	670	+	1956-71, 1977-2002					
04100380 Harper Lake	near Washington Center p	Noble	2.76	11	878.25	160	+	1977-2002 1946-					
04100390 Knapp Lake	near Washington Center	Noble	6.02	88	878.25	3,040	+	1946-2002					
	ear Washington Center p	Noble	6.12	9	878.25	80	+	1946-					
04100410 Hindman Lai 04100420 Gordy Lake i	ke near Washington Center p	Noble Noble	8.66 9.40	13 31	878.25 876.68	140 680	++	1946- 1953-66					
04100425 Rider Lake n	ear Cromwell	Noble	10.9	5	876.68	30	+	1953-66					
04100430 Duely Lake r	near Cromwell 8	Noble	11.2	21	876.68	180	+	1953-66					
04100440 Village Lake	near Cromwell	Noble	12.0	12	876.68	160	+	1953-66					
04100446 Flatbelly Lak 04100448 Papakeechie		Kosciusko Kosciusko	4.66 5.52	326 300			-	1964-67 1964-67					
04100450 Wawasee Lal		Kosciusko	36.9	3,060	858.89	67,210	+	1943-66					
04100460 Syracuse Lak		Kosciusko	38.2	414	858.87	5,360	+	1943-2002					
04100470 Dewart Lake 04100480 Wabee Lake		Kosciusko Kosciusko	^a 8.05 ^a 14.6	551 187	867.70 829.79	9,000 4,750	+	1945-2002 1946-53					
	STRI	EAMS TRIBU	JTARY TO	LAKE ERIE									
04177200 Clear Lake at	Clean Lake	Steuben	6.86	800	1 027 29	24,990		1943-2002					
04177210 Round Lake a	~	Steuben	7.25	30	1,037.38 1,037.38	340	+	1943-2002					
04177300 Long Lake no		Steuben	2.80	154		1,840	+	1961-63					
04177680 Ball Lake nea		Steuben	11.6	87	894.76	3,520	+	1961-2002					
04177700 Hamilton Lal 04179200 Indian Lake 1		Steuben DeKalb	16.5 3.76	802 56	898.83	16,600 1,220	++	1943- 1957					
04179300 Cedar lake no		DeKalb	23.4	28	896.76	230	+	1943-56					
	Lakes in the Upper M	Iississippi Riv	ver Basin for	r which record	s are available								
			Drain-			Capac-	Contour						
G			age	Surface	Estab-	ity	map	Records					
Station Number	Lake	County	(square miles)	area (acres)	lished level*	(acre- feet)	avail- able	avail- able					
rumber	Lake	county	imics)	(deres)	10,01	1001)	uoic	uoie					
		ILLINOIS	RIVER BA	SIN									
05514740 Saugany Lak 05514741 Hudson Lake		LaPorte LaPorte	^a 2.34 7.92	74 432	781.21 763.09	2,190 5,060	++	1946-50 1946-76					
03314741 Hudson Lake	at Hudson Lake	Lai orte		732	703.07	3,000	Т	1978-95					
05514750 North Chain		St. Joseph	^a 3.89	88	721.17	1,400	+	1946-53					
05514760 South Chain 05514770 Wharton Lak		St. Joseph St. Joseph	^a 6.32 ^a 1.85	90	717.04	270	-	1946-53 1960-2002					
05514900 Silver Lake n		LaPorte	1.63	54	795.20		-	1946-66					
05515200 Upper Fish L	ake near Stillwell	LaPorte	^a 9.65	139	688.22	1,040	+	1946-53					
05515210 Lower Fish L 05515220 Pine Lake at		LaPorte LaPorte	^a 10.4 ^a 10.7	134 564	688.22 796.20	870	+	1946-53 1946-75					
							-	1980-2002					
05515230 Stone Lake a	LaPorte	^a 10.7	140	796.20		-	1946-75 1980-						
05515240 Clear Lake at	t LaPorte	LaPorte	.65	106	798.20	760	+	1942-49, 1952-75 1980-2002					

RECORDS AVAILABLE ON LAKES--Continued

Lakes in the Upper Mississippi River Basin for which records are available--Continued

Station Number	Lake	County	Drain- age (square miles)	Surface area (acres)	Estab- lished level*	Capacity (acrefeet)	Contour map avail- able	Records avail- able
	I	LLINOIS RIVE	ER BASINC	ontinued				
05515600 Koontz Lake 05515800 Riddles Lak		Starke St. Joseph	^a 6.25 ^a 11.7	346 77	714.56 817.50	3,170 640	++	1943-2002 1946-73,
05516200 Lake of the 05516600 Pretty Lake		Marshall Marshall	^a 9.45 .85	416 97	803.85 787.36	6,810 2,140	++	1976-2002 1945- 1954-66
05516700 Myers Lake 05516800 Mill Pond a	near Twin Lakes	Marshall	1.41	96	768.69	2,000	+	1989-00 1945-53
near Twin		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 r		Starke		1,000			-	1949-53
05517200 Bass Lake a		Starke	5.18	1,400	713.65		-	1943-2002
05517600 Wauhob Lak	te near Valparaiso	Porter	.40	21			-	1946-2002
05517650 Long Lake r	near Valparaiso	Porter	1.31	65	797.66	520	+	1947-52
05517670 Spectacle La	ake near Valparaiso	Porter	.53	62	812.82	540	+	1946-53
05517700 Flint Lake n	ear Valparaiso	Porter	2.62	86	797.66		-	1946-2002
05517800 Lake Eliza r	ear Beatrice	Porter	1.70	45	738.70		-	1954-74,
05510500 G 1 T 1	. 6 1 1 1		0.14	701		6.750		1976-2002
05518700 Cedar Lake		Lake	8.14	781		6,750	+	1943-2002
05518800 Dalecarlia L		Lake	20.1	193			-	1947-52
05521300 Ringneck La		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.

Formerly published as Rider Lake at Wilmot.
 Formerly published as Chapman Lake near Warsaw.
 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.

Formerly published as Sanford Lake near Cosperville.

8 Formerly published as Duley Lake near Cromwell, and Druley Lake near Cromwell, and Druley Lake near Cromwell.

9 Formerly published as Maxinkuckee Lake at Culver

^a Contains drainage area (5 percent or greater) that does not contribute directly to surface-water runoff.

b Has same control structure and level records as Silver Lake at Silver Lake.

Has same control structure and level records as Shivet Lake at Oswego.

Has same control structure and level records as Tippecanoe Lake at Oswego.

Has same control structure and level records as Sawmill Lake near North Webster.

Has same control structure and level records as Big Chapman Lake near Warsaw.

Has same control structure and level records as Lake Gage at Panama.

g Has same control structure and level records as Bower Lake near Pleasant Lake.

h Has same control structure and level records as Lake of The Woods near Helmer.

Has same control structure and level records as Fish Lake near Plato.

J Has same control structure and level records as Pish Lake hear Piato.

Has same control structure and level records as North Twin Lake near Howe.

Has same control structure and level records as Hackenburgh Lake near Wolcottville.

Has same control structure and level records as Oliver Lake near Valentine.

Has same control structure and level records as Waldron Lake near Cosperville.

O Has same control structure and level records as Little Long Lake at Kendallville.

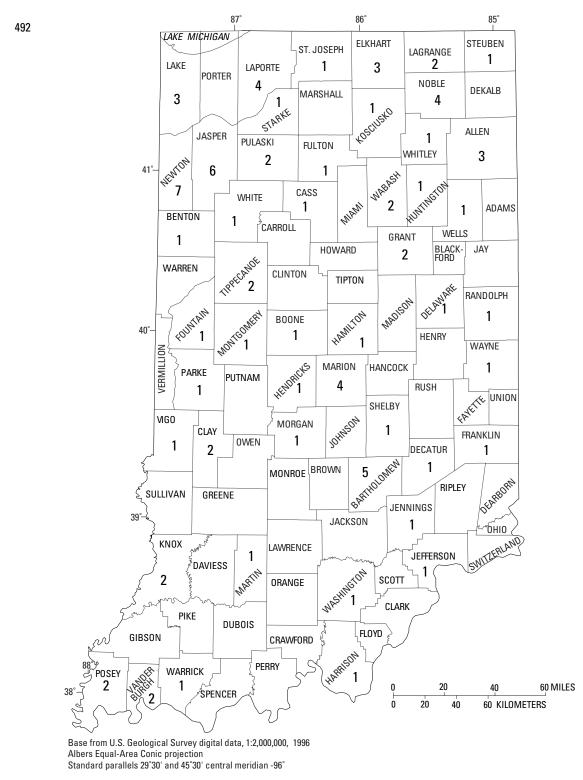
^p Has same control structure and level records as Knapp Lake near Washington Center.

Has same control structure and level records as Clear Lake at Clear Lake.
 Has same control structure and level records as Pine Lake at Laporte.

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 Bischoff Reservoir Black Lake Bowen Lake Brown Lake Caldwell Lake Crosley Lake Ferdinand Lake Franke Lake Hartz Lake Kunkel Lake Lake Freeman Lake Shafer	Fulton Ripley Whitley Scott Whitley Kosciusko Noble Jennings Dubois Clark Starke Wells Carroll White	22 200 24 7 23 45 28 14 42 9 28 25 1,547 1,291	470 1,920 400 60 580 800 360 130 440 70 370 150 26,000 13,120	Lake 16 Larwill Lake Lenape Lake Lincoln Park Lake Little Pike Lake McColley Lake Round Lake Scales Lake Schlamm Lake Sellers Lake Shakamak Lake Twin Lakes Whitewater Lake Yellowwood Lake	Fulton Whitley Greene Spencer Kosciusko Wabash Warrick Clark Kosciusko Sullivan Wabash Union Brown	27 9 36 58 25 28 48 66 19 32 56 18 199 133	220 170 330 520 140 410 540 520 170 340 610 190 3,650 1,890
		ST	REAMS TI	RIBUTARY TO LAKE MICHIGAN			
Appleman Lake Bartley Lake Bartlon Lake Bell Lake Boner Lake Bowen Lake Bristol Lake Bristol Lake Center Lake Cline Lake Deer Lake Dock Lake Eve Lake Fish Lake Hog Lake Hog Lake Lime Lake Little Turkey Lake Marl Lake	Lagrange Noble Steuben Steuben Kosciusko Noble Noble Lagrange Steuben Lagrange Noble Noble Lagrange Steuben Lagrange Steuben Steuben Steuben Steuben Steuben Steuben Noble	52 34 94 38 40 30 27 18 46 20 36 16 31 59 48 30 58 30	590 430 1,340 510 370 1,080 740 150 390 350 420 230 670 750 690 570 330 780 510	Mateer Lake Miller Lake Millers Lake Mud Lake Norman Lake Pigeon Lake Port Mitchell Lake Rainbow Lake Schockopee Lake Shock Lake Smith Hole Still Lake Sweet Lake Tamarack Lake Walters Lake Williams Lake Williams Lake	Lagrange Noble Noble Noble Lagrange Noble Lagrange Noble Lagrange Noble Lagrange Lagrange Lagrange Lagrange Lagrange Noble Noble Noble Steuben Lagrange Noble Noble Kosciusko	18 11 28 8 14 61 15 16 21 37 2 30 16 84 53 6 49 46 6	150 160 410 70 280 1,160 180 250 280 1,210 10 620 210 1,340 550 70 650 1,070 100
			STREAMS	S TRIBUTARY TO LAKE ERIE			
Dunton Lake Handy Lake Lake Anne	DeKalb Steuben Steuben	21 16 17	340 290 280	Mirror Lake Terry Lake	Steuben DeKalb	9 17	120 160
			UPPER	MISSISSIPPI RIVER BASIN			
Cook Lake Dixon Lake Flat Lake	Marshall Marshall Marshall	93 33 26	1,650 480 210	Gilbert Lake Holem Lake Lawrence Lake	Marshall Marshall Marshall	37 40 69	490 390 1,580



EXPLANATION 2 NUMBER OF GROUND-WATER WELLS IN DESIGNATED COUNTY

Figure 9.--Number of ground-water wells by county having water-level records for water-year 2003.

ALLEN COUNTY

410426084495201. Local number, AL 5.

LOCATION.—Lat $41^{\circ}04'26''$, long $84^{\circ}49'52''$, in $NW^{1}_{4}NE^{1}_{4}SE^{1}_{4}$ sec. 9, T.30 N., R.15 E., Allen County, Hydrologic Unit 04100005, (WOODBURN SOUTH, IN-OH quadrangle), 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.

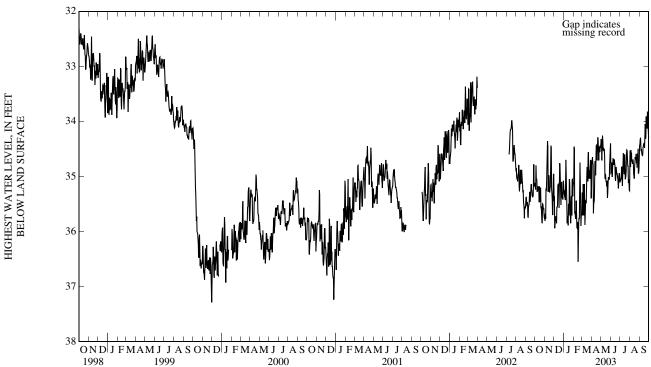
DATUM.--Elevation of land-surface datum is 760 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of floor of shelter, 0.00 ft above land-surface datum.

REMARKS.--Water level affected by quarry operations until 1980. Quarry operations resumed in 1997.

PERIOD OF RECORD.--July 1962 to December 1971, January 1973 to October 2003 (discontinued).

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.

way 4,	1707.											
				HIGHEST V WATER		VEL, FEET 1 OBER 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	35.06 35.24 35.18 35.58 35.50 35.76	35.22 34.36 35.02 34.92 35.41 34.96	35.77 35.56 35.13 34.82 35.10 35.08	35.25 35.17 35.89 35.10 35.37 35.19	35.67 35.44 35.85 35.76 35.90 35.69	35.15 35.88 35.29 34.65 34.90 35.23	34.78 35.04 34.45 34.29 34.46 34.40	34.26 34.50 34.97 35.08 35.02 34.40	35.01 34.79 35.04 34.96 35.22 35.11	34.87 34.74 34.60 34.90 34.81 35.26	34.65 34.74 35.04 34.64 34.59 34.63	34.46 34.62 34.40 34.32 34.13 34.30
MIN	34.80	34.36	34.76	34.70	34.46	34.56	34.29	34.26	34.67	34.52	34.50	33.83
WTR YR	2003	HIGH 33.83	SEP 26									
				LOWEST W WATER		/EL, FEET I OBER 2002						
DAY	OCT	NOV	DEC							JUL	AUG	SEP
DAY 5 10 15 20 25 EOM	OCT 35.94 35.65 35.92 36.06 36.24 36.43	NOV 36.04 34.96 35.78 35.71 36.00 35.94	DEC 36.22 36.27 35.70 35.45 35.86 35.65	WATER	YEAR OCT	OBER 2002	TO SEPTE	MBER 2003	i	JUL 35.34 35.19 35.11 35.26 35.40 35.80	AUG 35.33 35.41 35.66 35.27 35.28 35.01	SEP 34.99 35.06 34.84 34.85 34.27 34.98
5 10 15 20 25	35.94 35.65 35.92 36.06 36.24	36.04 34.96 35.78 35.71 36.00	36.22 36.27 35.70 35.45 35.86	WATER JAN 35.82 35.91 36.32 35.71 35.99	YEAR OCT FEB 36.25 36.08 36.73 36.55 36.48	MAR 35.90 36.46 35.92 35.58 35.39	APR 36.02 35.78 35.00 34.92 35.02	MBER 2003 MAY 34.85 35.27 35.50 35.42 35.58	JUN 35.39 35.22 35.67 35.37 35.84	35.34 35.19 35.11 35.26 35.40	35.33 35.41 35.66 35.27 35.28	34.99 35.06 34.84 34.85 34.27
5 10 15 20 25 EOM	35.94 35.65 35.92 36.06 36.24 36.43	36.04 34.96 35.78 35.71 36.00 35.94	36.22 36.27 35.70 35.45 35.86 35.65	WATER JAN 35.82 35.91 36.32 35.71 35.99 36.15	YEAR OCT FEB 36.25 36.08 36.73 36.55 36.48 36.20	MAR 35.90 36.46 35.92 35.58 35.39 35.88	APR 36.02 35.78 35.00 34.92 35.02 34.91	MBER 2003 MAY 34.85 35.27 35.50 35.42 35.58 34.94	JUN 35.39 35.22 35.67 35.37 35.84 35.60	35.34 35.19 35.11 35.26 35.40 35.80	35.33 35.41 35.66 35.27 35.28 35.01	34.99 35.06 34.84 34.85 34.27 34.98



ALLEN COUNTY

410932084561101. Local number, AL 6.

LOCATION.--Lat 41°09'32", long 84°56'11", in SW½SW½NE½ sec.10, T.31 N., R.14 E., Allen County, Hydrologic Unit 04100005, (GRABILL, IN quadrangle), 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.

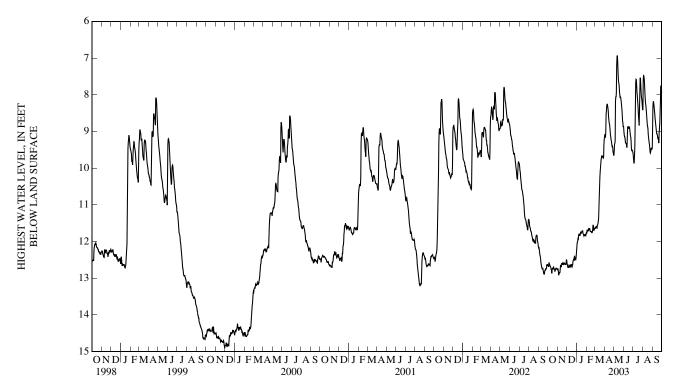
DATUM.--Elevation of land-surface datum is 760 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of floor of shelter, 2.50 ft above land-surface datum.

REMARKS.--Water level affected by pumpage.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.93 ft below land-surface datum, May 11, 2003; lowest, 15.10 ft below land-surface datum, Nov. 26, 1994.

1101.20	,, 1,,, 1.											
								AND SURFA EMBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	12.64 12.71 12.73 12.73 12.75 12.77	12.85 12.65 12.62 12.64 12.62 12.52	12.71 12.66 12.63 12.54 12.41 12.29	11.92 11.81 11.78 11.71 11.82 11.78	11.73 11.65 11.73 11.75 11.71 11.65	11.60 11.52 10.49 9.78 9.67 9.16	8.53 8.31 8.78 9.15 9.40 9.66 8.26	8.19 6.99 7.66 8.07 8.34 8.85	9.22 9.43 8.87 8.97 9.46 9.58 8.87	9.66 7.58 8.18 8.84 7.70 8.42 7.55	7.57 8.27 8.82 9.24 9.59 9.46 7.48	8.27 8.72 9.06 9.25 8.42 7.95
WTR YR	2003	HIGH 6.93	MAY 11									
								ND SURFACEMBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	12.74 12.87 12.80 12.84 12.85 12.87	12.97 12.77 12.67 12.69 12.69 12.64	12.74 12.79 12.73 12.65 12.52 12.45	11.99 11.92 11.87 11.81 11.93 11.88	11.81 11.75 11.85 11.85 11.78 11.75	11.73 11.60 10.79 9.93 9.86 9.27	8.97 8.51 8.87 9.27 9.49 9.72	9.25 7.20 7.72 8.13 8.44 8.99	9.31 9.51 8.94 9.05 9.63 9.66	9.86 7.67 8.28 8.98 7.95 8.60	7.70 8.38 8.92 9.46 9.74 9.58	8.43 8.89 9.17 9.47 8.77 8.09
MAX	12.95	13.04	12.85	12.29	11.91	11.75	9.77	9.67	9.66	10.02	9.74	9.47
WTR YR	2003	LOW 13.04	NOV 4									



GROUND-WATER DATA

ALLEN COUNTY

410335085190701. Local number, AL 8.

LOCATION.--Lat $41^{\circ}03'35''$, long $85^{\circ}19'07''$, in $SE^{1}_{4}SW^{1}_{4}SW^{1}_{4}SW^{1}_{4}$ sec. 8, T.30 N., R.11 E., Allen County, Hydrologic Unit 05120101, (ARCOLA, IN quadrangle), on Covington Road about 5 mi west of Interstate 69 on the northeast corner of the United Telephone Co. property. Owner: U.S. Geological Survey.

AQUIFER .-- Limestone.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 193 ft, cased to 173 ft, open end.

INSTRUMENTATION .-- Water-level recorder.

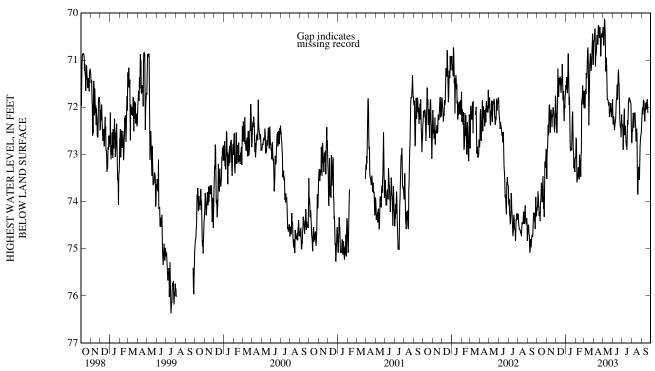
DATUM.--Elevation of land-surface datum is 850.60 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.50 ft above land-surface datum.

REMARKS.--Water level data is affected by nearby pumpage. Daily fluctuations greater than 3 ft are common.

PERIOD OF RECORD.--July 1988 to current year. Records for WY1988, WY1989, WY1990 published as AL 7.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 55.70 ft below land-surface datum, Apr. 26, 1989; lowest, unknown, but greater than 76.48 ft below land-surface datum, July 10, 12, 15, 16, 18, 19, 31, Aug. 1, 2, 3, 1999. Recorder was unable to record below this water level, which occured on numerous occasions between Aug. 3, and Sept. 24, 1999.

				HIGHEST V WATER				ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	73.87 74.32 73.60 73.46 73.66 72.91	72.48 71.94 72.05 72.20 72.39 71.84	71.75 71.65 71.40 71.39 71.65 71.72	71.40 71.28 72.78 72.89 72.91 73.10	73.31 73.28 73.14 72.96 71.94 71.65	71.61 71.30 71.89 70.97 71.04 70.89	70.34 70.67 70.29 70.38 70.47 70.37	70.12 71.09 71.83 71.89 71.91 71.83	72.33 72.24 71.52 71.44 72.43 72.35	72.50 72.40 72.79 72.20 71.84 72.72	72.12 72.21 72.59 73.85 73.54 72.54	72.15 72.06 72.04 71.90 71.47
MIN	72.90	71.75	71.08	70.86	71.54	70.44	70.26	70.12	71.20	71.80	72.11	71.47
WTR YR	2003	HIGH 70.12	MAY 5									
				LOWEST V WATER				ND SURFA MBER 2003				
DAY	OCT	NOV	DEC							JUL	AUG	SEP
DAY 5 10 15 20 25 EOM MAX	OCT 74.60 74.83 74.27 74.05 74.32 73.78 74.84	NOV 73.12 72.54 72.83 72.91 73.58 72.66 74.03		WATER	YEAR OCT	OBER 2002	TO SEPTE	MBER 2003	i	JUL 73.09 72.91 73.11 72.56 72.28 73.00 73.54	AUG 72.67 72.70 73.19 74.48 74.10 73.00 74.48	SEP 72.41 72.58 72.55 72.64 71.93 72.83



391627085534401. Local number, BA 4.

LOCATION.--Lat 39°16'27", long 85°53'44", in $NE^{1}_{4}NE^{1}_{4}NE^{1}_{4}$ sec. 31, T.10 N., R.6 E., Bartholomew County, Hydrologic Unit 05120205, (EDINBURGH, IN quadrangle), 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.

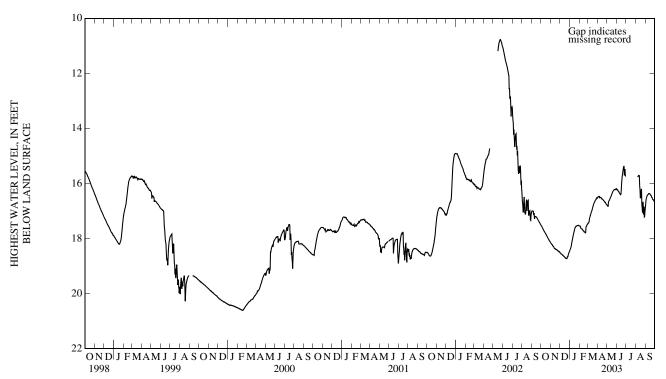
DATUM.--Elevation of land-surface datum is 654.04 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of floor of shelter, 2.60 ft above land-surface datum.

REMARKS.--Water level affected by agricultural withdrawals during May - August growing season.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 10.77 ft below land-surface datum, May 23-24, 2002; lowest, 21.18 ft below land-surface datum, July 2, 1992.

				HIGHEST V WATER				ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	17.61 17.72 17.81 17.92 18.03 18.14	18.22 18.29 18.37 18.41 18.45 18.50	18.56 18.61 18.67 18.73 18.67 18.48	18.31 18.01 17.74 17.57 17.53 17.54	17.61 17.66 17.73 17.80 17.52 17.47	17.29 17.10 16.90 16.71 16.60 16.51	16.47 16.51 16.57 16.63 16.69 16.78	16.67 16.56 16.42 16.28 16.22 16.19	16.27 16.37 16.23 15.59 15.71	 	15.72 16.52 16.76 17.13 16.91	16.48 16.39 16.38 16.48 16.59 16.69
MIN	17.52	18.16	18.48	17.52	17.47	16.51	16.47	16.19	15.38		15.71	16.37
WTR YR	2003	HIGH 15.38	JUN 23									
				LOWEST WATER				ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	17.63 17.73 17.83 17.94 18.04 18.16	18.23 18.31 18.39 18.41 18.47 18.52	18.57 18.62 18.69 18.73 18.68 18.50	18.35 18.07 17.79 17.59 17.54 17.54	17.63 17.69 17.76 17.81 17.55 17.48	17.39 17.14 16.94 16.75 16.61 16.54	16.53 16.53 16.58 16.64 16.71 16.79	16.83 16.59 16.44 16.30 16.23 16.23	16.30 16.38 16.39 15.67 15.91	 	15.72 16.84 16.98 17.31 17.02	16.52 16.40 16.40 16.51 16.61 16.71
MAX	18.16	18.52	18.74	18.48	17.81	17.47	16.79	16.85	16.43		17.64	16.91
WTR YR	2003	LOW 18.74	DEC 21									



390950085553501. Local number, BA 8.

LOCATION.--Lat 39°09'50", long 85°55'35", in $NE^{1}_{4}NW^{1}_{4}SW^{1}_{4}$ sec. 1, T.8 N., R.5 E., Bartholomew County, Hydrologic Unit 05120206, (COLUMBUS, IN quadrangle), 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.

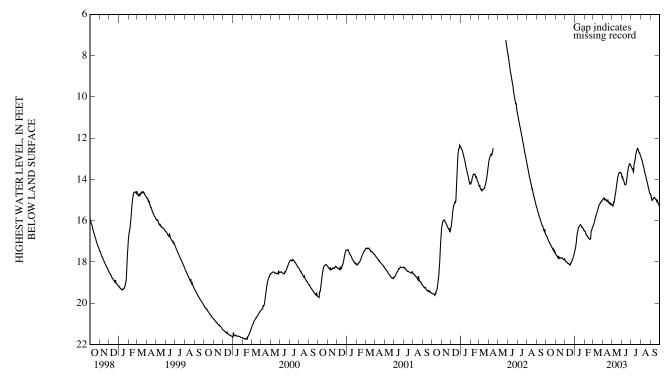
DATUM.--Elevation of land-surface datum is 615.48 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of floor of shelter, 3.00 ft above land-surface datum.

REMARKS.--Water levels may be affected by nearby water-supply well fields.

PERIOD OF RECORD.--February 1967 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.24 ft below land-surface datum, May 24-25, 2002; lowest, 24.13 ft below land-surface datum, Dec. 27, 1988.

,	,	-, -, -, -, -, -, -, -, -, -, -, -, -, -										
				HIGHEST V WATER				ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	16.81 17.00 17.14 17.29 17.37 17.58	17.70 17.73 17.79 17.81 17.86 17.87	17.98 18.07 18.12 18.05 17.88 17.55	17.15 16.55 16.28 16.19 16.32 16.46	16.61 16.73 16.84 16.89 16.41 16.29	16.05 15.77 15.51 15.24 15.11 14.99	14.92 14.98 15.05 15.10 15.14 15.22	15.12 14.81 14.28 13.83 13.66 13.73	14.00 14.23 14.17 13.61 13.26 13.34	13.48 13.26 12.82 12.54 12.65 12.86	13.11 13.42 13.77 14.07 14.40 14.69	14.99 14.93 14.90 15.04 15.15 15.35
MIN	16.69	17.61	17.55	16.19	16.29	14.99	14.91	13.66	13.24	12.49	12.91	14.75
WTR YR	2003	HIGH 12.49	JUL 21									
								ND SURFA				
DAY	OCT	NOV	DEC							JUL	AUG	SEP
DAY 5 10 15 20 25 EOM MAX WTR YR	OCT 16.86 17.02 17.17 17.33 17.47 17.61 17.61 2003	NOV 17.73 17.82 17.81 17.84 17.88 17.93 17.93	18.01 18.08 18.13 18.05 17.88 17.61	WATER	YEAR OCT	OBER 2002	TO SEPTE	MBER 2003	i	JUL 13.60 13.55 12.99 12.59 12.69 12.91 13.73	AUG 13.17 13.48 13.81 14.12 14.47 14.81	SEP 15.02 14.95 14.93 15.07 15.21 15.40



391035085560401. Local number, BA 9.

LOCATION.--Lat 39°10'35", long 85°56'04", in $SW^1/_4NE^1/_4SW^1/_4$ sec.35, T.9 N., R.5 E., Bartholomew County, Hydrologic Unit 05120206, (COLUMBUS, IN quadrangle), 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.

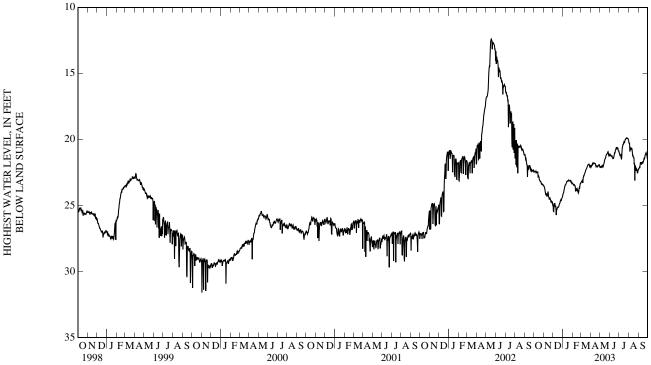
DATUM.--Elevation of land-surface datum is 621.58 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of floor of shelter, 1.65 ft above land-surface datum.

REMARKS.--Water level affected by pumpage from municipal supply well field.

PERIOD OF RECORD.--April 1970 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 12.40 ft below land-surface datum, May 17, 2002; lowest, 42.01 ft below land-surface datum, Nov. 14, 1992.

				HIGHEST W		EL, FEET I OBER 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	22.44 22.47 22.72 23.15 23.39 23.47	23.85 24.13 23.95 24.47 24.72 25.01	24.83 25.12 25.18 25.00 24.62 24.36	23.87 23.45 23.18 23.07 23.10 23.28	23.47 23.53 23.78 24.07 23.47 23.31	23.04 22.76 22.37 22.10 21.88 22.04	21.94 21.79 21.83 22.02 21.97 22.10	22.03 22.13 21.57 21.23 20.97 21.15	21.25 21.41 21.17 20.76 20.69 20.89	21.21 20.86 20.27 20.03 19.93 20.08	20.62 20.67 21.34 23.12 22.34 22.28	22.12 21.86 21.76 21.46 21.00 21.48
MIN	22.41	23.53	24.36	23.07	23.31	21.87	21.78	20.93	20.58	19.89	20.24	21.00
WTR YR	2003	HIGH 19.89	JUL 24									
				LOWEST W WATER		EL, FEET E OBER 2002			CE			
DAY	OCT	NOV	DEC						CE JUN	JUL	AUG	SEP
DAY 5 10 15 20 25 EOM	OCT 24.33 24.37 24.68 24.85 25.21 25.34	NOV 25.76 26.11 25.96 26.49 26.61 26.67	DEC 26.63 26.83 26.64 26.58 26.08 25.82	WATER	YEAR OCT	OBÉR 2002	TO SEPTE	MBER 2003		JUL 22.50 22.51 21.66 21.38 21.22 21.32	AUG 21.88 21.94 22.55 25.00 23.45 23.62	SEP 23.22 22.94 22.74 21.92 21.49 22.62
5 10 15 20 25	24.33 24.37 24.68 24.85 25.21	25.76 26.11 25.96 26.49 26.61	26.63 26.83 26.64 26.58 26.08	WATER JAN 25.29 24.86 24.56 24.38 24.39	YEAR OCT FEB 24.67 24.70 24.98 25.09 24.73	OBÉR 2002 MAR 24.22 23.84 23.56 23.26 22.98	APR 23.04 23.35 23.42 23.60 23.53	MBER 2003 MAY 23.64 23.30 22.97 22.62 22.38	JUN 22.57 22.74 22.54 22.13 22.02	22.50 22.51 21.66 21.38 21.22	21.88 21.94 22.55 25.00 23.45	23.22 22.94 22.74 21.92 21.49
5 10 15 20 25 EOM	24.33 24.37 24.68 24.85 25.21 25.34	25.76 26.11 25.96 26.49 26.61 26.67	26.63 26.83 26.64 26.58 26.08 25.82 27.11	WATER JAN 25.29 24.86 24.56 24.38 24.39 24.52	YEAR OCT FEB 24.67 24.70 24.98 25.09 24.73 24.47	OBÉR 2002 MAR 24.22 23.84 23.56 23.26 22.98 23.00	APR 23.04 23.35 23.42 23.60 23.53 23.66	MBER 2003 MAY 23.64 23.30 22.97 22.62 22.38 22.52	JUN 22.57 22.74 22.54 22.13 22.02 22.23	22.50 22.51 21.66 21.38 21.22 21.32	21.88 21.94 22.55 25.00 23.45 23.62	23.22 22.94 22.74 21.92 21.49 22.62



390317085523701. Local number, BA 10.

LOCATION.--Lat 39°03'17", long 85°52'08", in NE 1 /4NW 1 /4NW 1 /4 sec.16, T.7 N., R.6 E., Bartholomew County, Hydrologic Unit 05120206, (AZALIA, IN quadrangle), 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.

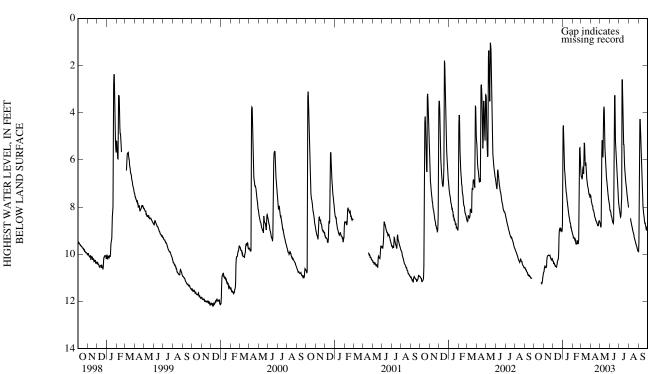
DATUM.--Elevation of land-surface datum is 580 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of floor of shelter, 3.50 ft above land-surface datum.

REMARKS.--Hourly record indicates water level is affected by domestic pumpage. Not significant in monthly-annual report.

PERIOD OF RECORD.--October 1978 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.66 ft below land-surface datum, Nov. 17, 1993; lowest, 12.65 ft below land-surface datum, Oct. 29, Nov. 2, 1988.

	,,											
						VEL, FEET I TOBER 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	 11.19 10.81	10.48 10.53 10.06 10.06 10.23 10.26	10.39 10.52 10.30 9.29 8.92 8.73	5.58 7.01 7.75 8.29 8.67 9.05	9.29 9.37 9.56 9.55 5.49 6.47	6.70 5.70 6.19 6.91 7.37 7.49 5.28	7.91 8.17 8.47 8.65 8.79 8.64 7.53	7.86 5.90 4.71 6.55 7.31 7.92	8.34 8.64 5.91 5.63 7.13 7.92	8.43 2.61 5.35 6.60 7.35 8.02 2.61	8.78 9.08 9.38 9.64 9.86	4.29 6.89 7.98 8.62 8.92 9.00
					****	**		***				,
WTR YR	2003	HIGH 2.61	JUL 10									
						VEL, FEET I ΓOBER 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	11.35 10.95	10.66 10.60 10.15 10.17 10.27 10.44	10.54 10.56 10.41 9.96 9.05 9.04	6.09 7.20 7.92 8.43 8.78 9.20	9.40 9.56 9.69 9.70 5.74 6.76	6.87 6.65 6.35 7.04 7.51 7.61	8.11 8.27 8.63 8.75 8.88 8.80	8.84 6.05 5.50 6.75 7.49 8.15	8.43 8.75 7.82 6.06 7.32 8.06	8.51 7.58 5.87 6.78 7.50 8.14	8.93 9.16 9.44 9.77 9.98	5.56 7.17 8.12 8.71 9.06 9.08
MAX	11.36	10.92	10.64	9.20	9.70	7.71	8.90	8.97	8.85	8.57	9.98	9.93



390658085572201. Local number, BA 13.

LOCATION.--Lat 39°06'50", long 85°57'17", in $SE^{1}_{4}SW^{1}_{4}SE^{1}_{4}$ sec.22, T.8 N., R.5 E., Bartholomew County, Hydrologic Unit 05120206, (JONESVILLE, IN quadrangle), at the end of farm access road, 0.3 mi north of County Road 600 South at its intersection with Interstate 65. Owner: U.S. Geological Survey.

AQUIFER .-- Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 55.6 ft, cased to 50.6 ft, screened to 55.6 ft.

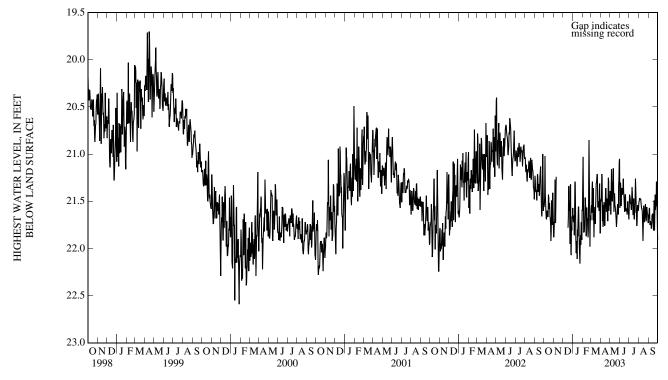
INSTRUMENTATION .-- Water-level recorder.

DATUM.--Elevation of land-surface datum is 633.91 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of floor of shelter, 3.40 ft above land-surface datum.

PERIOD OF RECORD.--July 1986 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 19.26 ft below land-surface datum, Apr. 30, 1997; lowest, 24.17 ft below land-surface datum, Feb. 16, 1989

HIGHEST WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
5 10 15 20 25 EOM	21.43 21.64 21.43 21.66 21.49 21.78	21.27	21.45 21.32 21.68	21.65 21.57 22.11 21.56 21.92 21.59	21.83 21.46 21.57 21.81 21.98 21.70	21.29 21.88 21.62 21.21 21.50 21.63	21.24 21.59 21.53 21.50 21.25 21.44	21.16 21.24 21.42 21.69 21.53 21.05	21.55 21.41 21.54 21.60 21.59 21.69	21.52 21.35 21.47 21.46 21.76 21.57	21.47 21.58 21.75 21.66 21.68 21.73	21.75 21.79 21.71 21.81 21.55 21.91	
MIN	21.02	21.24	21.32	21.29	20.85	21.21	21.21	21.05	21.26	21.26	21.47	21.29	
WTR YR	2003	HIGH 20.85	FEB 22										
				LOWEST W WATER				ND SURFA MBER 2003					
DAY	OCT	NOV	DEC							JUL	AUG	SEP	
DAY 5 10 15 20 25 EOM MAX WTR YR	OCT 21.73 21.75 21.66 21.75 21.82 21.88 22.01 2003	NOV 21.80 21.98 LOW 22.38	21.60 22.04 21.80 22.24	WATER	YEAR OCT	OBER 2002	TO SEPTE	MBER 2003		JUL 21.66 21.50 21.66 21.66 21.85 21.64 21.86	AUG 21.56 21.68 21.95 21.76 21.76 21.87 22.01	SEP 21.82 21.86 21.82 21.93 21.76 21.99 21.99	



501

GROUND-WATER DATA

BENTON COUNTY

402851087213501. Local number, BE 4.

LOCATION.--Lat $40^{\circ}28'51''$, long $87^{\circ}21'35''$, in $SE^{1}_{4}NE^{1}_{4}SE^{1}_{4}$ sec.31, T.24 N., R.8 W., Benton County, Hydrologic Unit 05120108, (PINE VILLAGE, IN quadrangle), 1.2 mi east of State Road 41, on north side of county road 850 S, 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.

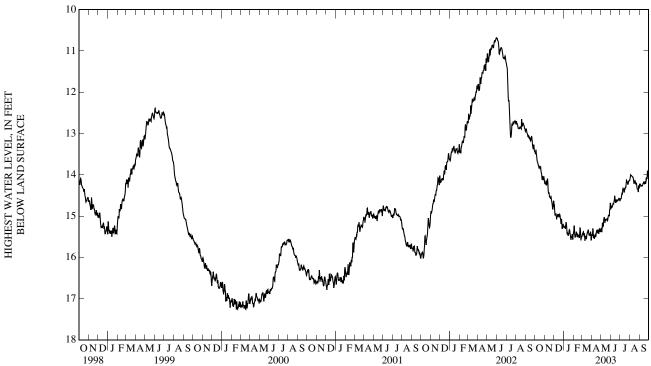
INSTRUMENTATION .-- Water-level recorder.

DATUM.--Elevation of land-surface datum is 710 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of floor of shelter, 2.19 ft above land-surface datum.

PERIOD OF RECORD.--November 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.57 ft below land-surface datum, May 4, 1993; lowest, 17.34 ft below land-surface datum, Mar. 17-18, 2000.

								ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	13.49 13.72 13.80 13.90 14.03 14.14	14.14 14.09 14.44 14.58 14.73 14.63	14.96 15.04 14.96 14.98 15.08 15.25	15.26 15.23 15.48 15.34 15.51 15.44	15.44 15.39 15.44 15.53 15.59 15.50	15.38 15.60 15.52 15.34 15.44 15.53	15.33 15.51 15.41 15.34 15.31 15.32	15.16 15.05 15.08 15.07 14.98 14.69	14.78 14.71 14.65 14.65 14.61 14.64	14.52 14.33 14.34 14.22 14.23 14.14	14.02 14.05 14.20 14.22 14.34 14.31	14.28 14.27 14.20 14.22 14.10 14.10
MIN	13.39	14.09	14.74	15.16	15.23	15.34	15.30	14.69	14.51	14.13	14.00	13.90
WTR YR	2003	HIGH 13.39	OCT 4									
								ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	13.60 13.76 13.85 13.96 14.13 14.21	14.28 14.17 14.53 14.64 14.81 14.78	15.00 15.08 15.01 15.05 15.21 15.30	15.31 15.35 15.52 15.41 15.58 15.57	15.51 15.46 15.53 15.57 15.62 15.53	15.44 15.62 15.57 15.39 15.49 15.61	15.54 15.55 15.50 15.40 15.38 15.39	15.26 15.16 15.11 15.14 14.99 14.82	14.81 14.76 14.70 14.68 14.65 14.67	14.62 14.36 14.42 14.30 14.27 14.17	14.04 14.11 14.24 14.23 14.37 14.42	14.31 14.30 14.21 14.26 14.16 14.14
MAX	14.21	14.86	15.34	15.62	15.62	15.62	15.58	15.44	14.87	14.65	14.45	14.31
WTR YR	2003	LOW 15.62	JAN 24									
	10)		11111		11111					11111	



BOONE COUNTY

400532086183901. Local number, BO 17.

LOCATION.--Lat $40^{\circ}05'32''$, long $86^{\circ}18'39''$, in SW $^{1}_{4}$ SE $^{1}_{4}$ NW $^{1}_{4}$ sec.16, T.19 N., R.2 E., Boone County, Hydrologic Unit 05120201, (ROSSTON, IN quadrangle), 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.

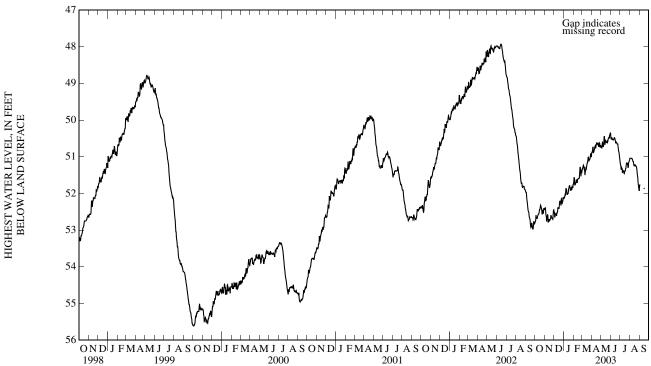
DATUM.--Elevation of land-surface datum is 956.50 ft above National Geodetic Vertical Datum of 1929. Measuring point: Mark on top of casing, 3.50 ft above land-surface datum.

REMARKS .-- Water level may be affected by pumpage.

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, 55.69 ft below land-surface datum, Oct. 3, 1999.

								ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	52.65 52.61 52.44 52.35 52.46 52.44 52.32	52.60 52.57 52.71 52.68 52.69 52.45	52.57 52.54 52.39 52.21 52.14 52.14	52.04 51.91 52.01 51.79 51.86 51.75	51.75 51.63 51.61 51.57 51.53 51.41 51.29	51.23 51.50 51.28 51.04 51.06 50.94 50.91	50.74 50.76 50.68 50.64 50.62 50.70 50.62	50.59 50.53 50.56 50.58 50.48 50.34 50.34	50.51 50.53 50.56 50.62 50.80 51.10 50.48	51.29 51.37 51.39 51.25 51.24 51.09	51.04 51.10 51.25 51.26 51.51 51.93 51.04	51.85 51.77
WTR YR	2003	HIGH 50.34	MAY 31									
								ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	52.73 52.64 52.53 52.38 52.59 52.44	52.68 52.66 52.76 52.76 52.70 52.59	52.63 52.61 52.44 52.24 52.27 52.17	52.10 52.00 52.02 51.84 51.93 51.85	51.80 51.71 51.68 51.63 51.53 51.42	51.27 51.56 51.33 51.14 51.09 51.02	50.93 50.82 50.74 50.66 50.69 50.75	50.68 50.70 50.61 50.63 50.49 50.49	50.56 50.57 50.63 50.65 50.86 51.17	51.47 51.41 51.46 51.32 51.32 51.12	51.04 51.13 51.26 51.26 51.56 51.97	51.88
MAX	52.82	52.81	52.72	52.17	51.80	51.56	50.97	50.83	51.17	51.49	51.97	51.96
WTR YR	2003	LOW 52.82	OCT 1			 		 		 		



CASS COUNTY

403407086175701. Local number, CS 3.

LOCATION.--Lat $40^{\circ}34'07''$, $\log 86^{\circ}17'57''$, in $NE^{1}_{4}NE^{1}_{4}SE^{1}_{4}$ sec.33, T.25 N., R.2 E., Cass County, Hydrologic Unit 05120105, (YOUNG AMERICA, IN quadrangle), at intersection of State Highway 18 and County Road 400 East, 2.5 mi east of Young America. Owner: U.S. Geological Survey.

AQUIFER .-- Dolomitic limestone of Devonian-Silurian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 130 ft, cased to 78 ft, open end.

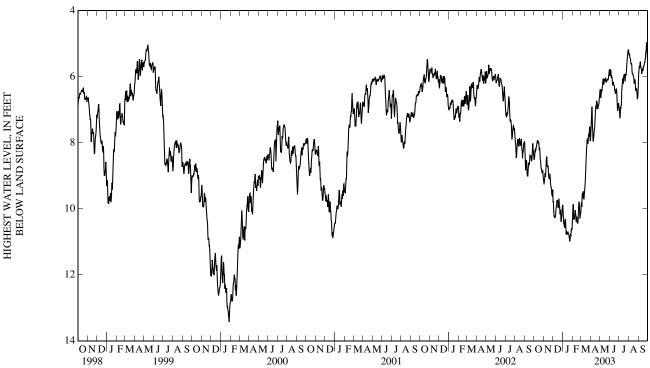
INSTRUMENTATION .-- Water-level recorder.

DATUM.--Elevation of land-surface datum is 781.74 ft above National Geodetic Vertical Datum of 1929. 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, 13.56 ft below land-surface datum, Ian 28, 2000

								ND SURFA	CE			
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	8.29 8.04 7.97 8.27 8.81 9.10	8.92 8.43 8.70 9.08 9.35 9.42 8.43	10.23 10.05 9.75 9.69 10.04 9.92 9.69	10.45 10.37 10.77 10.77 10.82 10.60 9.88	10.32 10.04 10.24 10.18 10.30 10.11 9.78	9.52 9.72 8.91 7.94 7.76 7.92	6.92 7.88 7.19 6.73 6.89 6.45	6.38 6.12 6.07 6.09 6.10 5.77	5.98 6.26 6.26 6.47 6.93 6.91 5.80	6.92 6.29 5.99 6.14 5.65 5.21	5.44 5.62 5.98 6.08 6.34 6.31 5.30	5.66 5.76 5.82 5.57 5.24 5.49
WTR YR	2003	HIGH 4.98	SEP 26									
								ND SURFACEMBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	8.41 8.14 8.06 8.56 8.94 9.26	9.17 8.59 8.96 9.22 9.46 9.85	10.35 10.20 9.86 9.93 10.35 10.07	10.53 10.58 10.97 10.86 10.99 10.75	10.44 10.26 10.52 10.39 10.38 10.21	9.73 9.92 9.21 8.14 7.90 8.12	7.51 8.02 7.42 6.96 7.00 6.62	6.54 6.23 6.21 6.24 6.20 6.03	6.31 6.34 6.45 6.65 7.12 7.18	7.23 6.45 6.23 6.25 5.84 5.45	5.55 5.90 6.13 6.23 6.55 6.60	5.80 6.02 5.99 5.68 5.36 5.71
MAX	9.26	9.85	10.58	11.19	10.60	10.11	8.10	6.77	7.18	7.52	6.87	6.31
WTR YR	2003	LOW 11.19	JAN 23									



CLAY COUNTY

392653087120501. Local number, CY 6.

LOCATION.--Lat 39°26'53", long 87°12'05", in $SE^{1}_{4}SE^{1}_{4$

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.

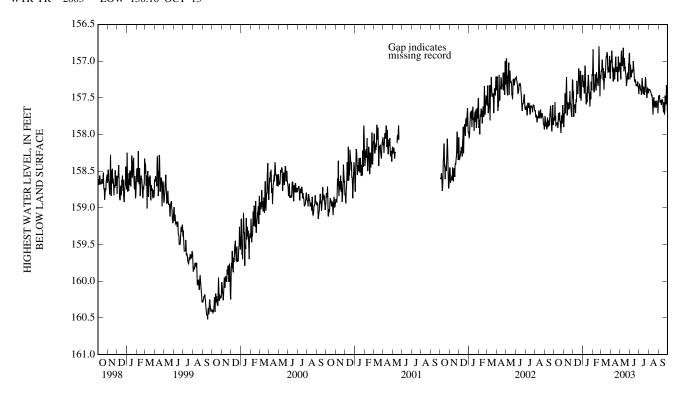
DATUM.--Elevation of land-surface datum is 653.16 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.40 ft above land-surface datum.

REMARKS.--Water level affected by pumpage.

PERIOD OF RECORD.--September 1987 to October 2003 (discontinued).

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.

			ļ		VATER LEV YEAR OCT							
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	157.81 157.85 157.71 157.82 157.74 157.83	157.44 157.22 157.56 157.54 157.70 157.27	157.61 157.56 157.36 157.19 157.14 157.27	157.28 157.25 157.56 157.29 157.46 157.18	157.40 157.18 157.22 157.30 157.48 157.24	157.00 157.39 157.14 156.88 157.08 157.11	156.93 157.19 157.06 157.10 156.94 157.02	156.86 156.92 157.00 157.23 157.16 156.89	157.22 157.14 157.22 157.30 157.34 157.45	157.39 157.23 157.35 157.32 157.50 157.43	157.40 157.48 157.61 157.61 157.61 157.60	157.56 157.60 157.62 157.73 157.59 157.77
MIN	157.56	157.22	157.10	157.07	156.80	156.88	156.86	156.82	157.00	157.22	157.38	157.33
WTR YR	2003	HIGH 156.8	30 FEB 22									
					VATER LEV YEAR OCT							
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	158.04 158.02 157.88 157.97 157.98 157.95	157.87 157.38 157.75 157.81 157.80 157.72	157.80 157.74 157.58 157.38 157.53 157.43	157.44 157.52 157.69 157.40 157.62 157.54	157.53 157.41 157.48 157.52 157.62 157.39	157.23 157.44 157.36 157.06 157.24 157.38	157.37 157.30 157.33 157.23 157.12 157.25	157.04 157.10 157.24 157.44 157.26 157.26	157.36 157.35 157.42 157.36 157.46 157.59	157.46 157.44 157.47 157.46 157.65 157.57	157.50 157.65 157.78 157.71 157.81 157.84	157.72 157.76 157.71 157.86 157.79 157.86
MAX	158.16	158.03	158.03	157.77	157.63	157.52	157.42	157.44	157.59	157.66	157.84	157.86
WTR YR	2003	LOW 158.1	6 OCT 13									



GROUND-WATER DATA

CLAY COUNTY

391124087134701. Local number, CY 7.

LOCATION.--Lat $39^{\circ}11'24''$, long $87^{\circ}13'47''$, in $SW_{4}^{1}NW_{4}^{1}SE_{4}^{1}$ sec. 30, T.9N., R.7W., Clay County, Hydrologic Unit 05120111, (JASONVILLE, IN quadrangle), 300 ft east of State Highway 159 just south of Coalmont and about 3.6 mi northwest of Jasonville. Owner: U.S. Geological Survey.

AQUIFER .-- Sandstone of Pennsylvanian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 121 ft, cased to 80 ft, open end.

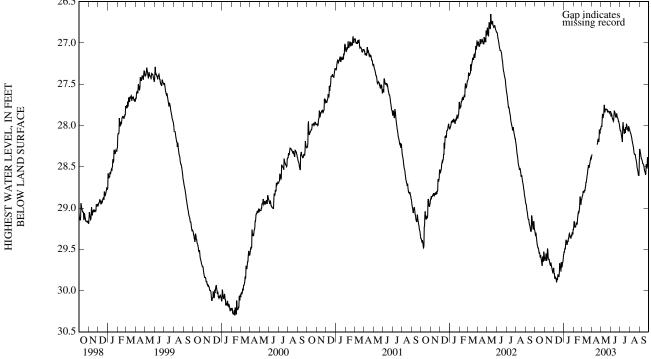
INSTRUMENTATION .-- Water-level recorder.

DATUM.--Elevation of land-surface datum is 616.80 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.50 ft above land-surface datum.

PERIOD OF RECORD.--September 1988 to October 2003 (discontinued).

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.

datum,	Dec. 26,	1988.	Ecoles. 1	ingriese water	10,01, 2010	100010 11 141	ara sarrace a	aram, sepa	., 0, 1,00,10	654, 55165	it outow turn	. sarrace
								ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	29.35 29.48 29.54 29.60 29.59 29.59	29.55 29.49 29.62 29.70 29.75 29.73	29.83 29.88 29.81 29.69 29.66 29.58	29.49 29.41 29.41 29.32 29.34 29.26	29.23 29.18 29.10 29.02 28.96 28.89	28.80 28.79 28.66 28.52 28.47 28.38	28.18 28.05 28.04	27.86 27.80 27.80 27.81 27.83 27.83	27.90 27.94 27.87 27.86 27.95 28.04	28.13 27.96 28.05 28.05 28.05 28.05	28.12 28.22 28.34 28.40 28.53 28.46	28.37 28.44 28.50 28.60 28.52 28.51
MIN	29.29	29.49	29.58	29.26	28.86	28.38	28.04	27.75	27.82	27.96	28.07	28.29
WTR YR	2003	HIGH 27.75	5 MAY 11									
								ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	29.40 29.49 29.56 29.63 29.71 29.63	29.65 29.57 29.66 29.73 29.78 29.82	29.86 29.90 29.84 29.73 29.72 29.66	29.50 29.44 29.43 29.34 29.37 29.33	29.26 29.21 29.14 29.06 28.98 28.91	28.82 28.81 28.70 28.55 28.50 28.42	28.23 28.17 28.05	27.93 27.88 27.82 27.83 27.84 27.89	27.94 28.00 27.91 27.89 27.96 28.07	28.15 28.02 28.11 28.06 28.07 28.08	28.14 28.25 28.36 28.42 28.56 28.65	28.40 28.46 28.53 28.63 28.56 28.53
MAX	29.71	29.82	29.92	29.60	29.28	28.91	28.38	28.04	28.07	28.23	28.65	28.64
WTR YR	2003	LOW 29.92	DEC 9									
	26.5 27.0		11111	11111		·	phy	11111	para de la companya d	 	Gap indica missing rec	tes cord
ET	27.5	5	, market			\	\ _\ \		/ '			=



HIGHEST WATER LEVEL, IN FEET BELOW LAND SURFACE

DECATUR COUNTY

392022085371801. Local number, DC 2.

LOCATION.--Lat $39^{\circ}20'22''$, long $85^{\circ}37'18''$, in $SE^{1}_{4}NE^{1}_{4}SW^{1}_{4}$ sec.3, T.10 N., R.8 E., Decatur County, Hydrologic Unit 05120206, (FOREST HILL, IN quadrangle), 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.

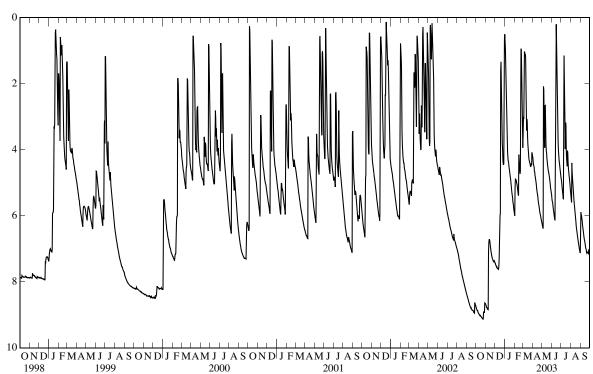
INSTRUMENTATION .-- Water-level recorder.

DATUM.--Elevation of land-surface datum is 840.80 ft above National Geodetic Vertical Datum of 1929. 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.

								AND SURFA EMBER 2003	CE			
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	8.87 8.97 9.02 9.09 8.92 8.66 8.64	8.78 7.10 6.85 7.20 7.36 7.40	7.52 7.60 6.91 1.34 3.98 0.67	1.80 4.05 4.56 4.91 5.38 5.87	4.89 5.09 4.15 4.66 2.02 3.94 0.94	1.04 1.82 3.60 4.31 4.52 4.19	4.52 4.90 5.31 5.66 5.97 6.21 4.23	2.08 2.67 4.10 4.60 4.90 5.34 2.08	5.76 6.10 0.20 3.12 4.40 4.82	5.27 1.15 3.18 4.50 4.68 5.28	4.71 5.43 6.02 6.46 6.82 7.13	6.09 6.49 6.83 7.09 7.12 7.02 5.89
WTR YR	2003	HIGH 0.20	JUN 15									
								ND SURFACEMBER 2003	CE			
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	8.89 8.98 9.05 9.11 9.17 8.69	8.81 8.86 6.94 7.24 7.39 7.45	7.56 7.62 7.31 1.65 4.32 1.52	2.20 4.22 4.63 5.02 5.46 5.93	4.91 5.20 5.39 4.86 2.80 4.13	1.67 2.65 3.84 4.37 4.59 4.24	4.68 4.97 5.37 5.72 6.02 6.26	6.41 4.21 4.26 4.66 4.99 5.47	5.83 6.16 1.17 3.77 4.48 4.89	5.36 2.19 4.28 4.57 4.78 5.38	4.89 5.56 6.11 6.54 6.88 7.17	6.15 6.58 6.89 7.13 7.15 7.04
MAX	9.17	8.87	7.65	5.93	6.05	4.59	6.26	6.43	6.21	5.61	7.17	7.19
WTR YR	2003	LOW 9.17	OCT 25									
	()										



DELAWARE COUNTY

400541085213701. Local number, DW 4.

 $LOCATION.-Lat\ 40^{\circ}05'36'', long\ 85^{\circ}21'38'', in\ NW^{1}_{4}SE^{1}_{4}SW^{1}_{4}\ sec. 14,\ T.19\ N.,\ R.10\ E.,\ Delaware\ County,\ Hydrologic\ Unit\ 05120201,\ (MOUNT\ PLEASANT,\ IN\ quadrangle),\ on\ property\ owned\ by\ Monroe\ Township\ Conservation\ Club,\ 0.6\ mi\ east\ from\ County\ Road\ 700\ S,\ and\ 8.0\ mi\ south\ of\ N.$

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.

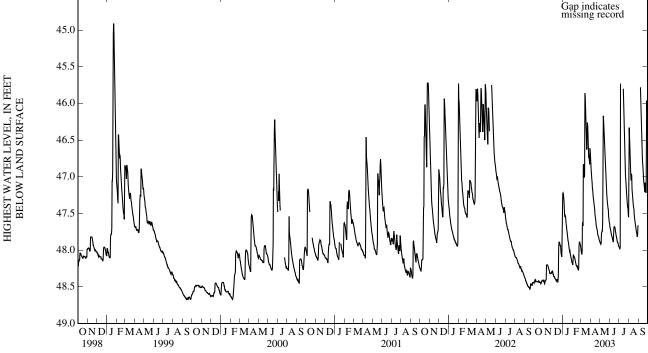
INSTRUMENTATION .-- Water-level recorder.

DATUM.--Elevation of land-surface datum is 1,005 ft above National Geodetic Vertical Datum of 1929, 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,

	ES FOR I , 14, 1960	PERIOD OF RI 6.	ECORDH	lighest water	level, 42.21	ft below land	d-surface dat	tum, Dec. 30	, 1990; Iowes	st, 49.50 ft b	elow land-su	face datun
								ND SURFA				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	48.42 48.43 48.42 48.44 48.42 48.42	48.43 48.21 48.22 48.31 48.31 48.30	48.36 48.41 48.42 47.89 47.94 47.41	47.34 47.54 47.76 47.92 48.05 48.17	48.08 48.14 48.22 48.27 47.91 47.97	47.63 46.94 46.01 46.43 46.74 46.71	47.08 47.32 47.54 47.70 47.81 47.89	47.77 46.51 46.63 47.10 47.39 47.63	47.77 47.86 47.68 47.77 47.89 47.95	45.74 46.05 46.88 47.27 47.55	46.74 46.98 47.39 47.59 47.75 47.66	46.35 46.88 47.17 47.22 46.38
MIN	48.40	48.20	47.41	47.22	47.89	45.86	46.80	46.17	47.68	45.74	46.33	45.78
WTR YR	2003	HIGH 45.74	JUL 5									
								ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	48.44 48.43 48.45 48.46 48.43	48.47 48.40 48.24 48.32 48.32 48.33	48.38 48.41 48.43 47.97 48.01 47.68	47.44 47.59 47.80 47.96 48.07 48.18	48.09 48.17 48.24 48.28 47.92 48.01	48.03 47.01 46.17 46.76 46.82 46.80	47.16 47.36 47.57 47.72 47.82 47.90	47.91 47.60 46.74 47.17 47.43 47.68	47.79 47.87 47.69 47.80 47.90 47.96	47.96 46.26 46.98 47.33 47.59	46.86 47.17 47.42 47.64 47.78 47.73	46.50 46.96 47.21 47.24 46.49
MAX	48.47	48.47	48.44	48.18	48.28	48.08	47.90	47.93	47.96	48.02	47.85	47.25
WTR YR	2003	LOW 48.47	OCT 1									
	44.5 45.0			11111	- 			, , , , , , ,	1111	7 1 1 1 1	Gap indica missing rec	tes cord
EET	45.5	-						ı	l alt			- h 1
, IN FEET ACE	46.0				,							



ELKHART COUNTY

413121085481301. Local number, EH 4.

LOCATION.--Lat 41°31'21", long 85°48'13", in SW\frac{1}{4}SE\frac{1}{4}SW\frac{1}{4} sec.35, T.36 N., R.6 E., Elkhart County, Hydrologic Unit 04050001, (GOSHEN, IN quadrangle), at the southwest corner of Goshen Municipal Airport, at intersection of County Roads 42 and 27. 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.

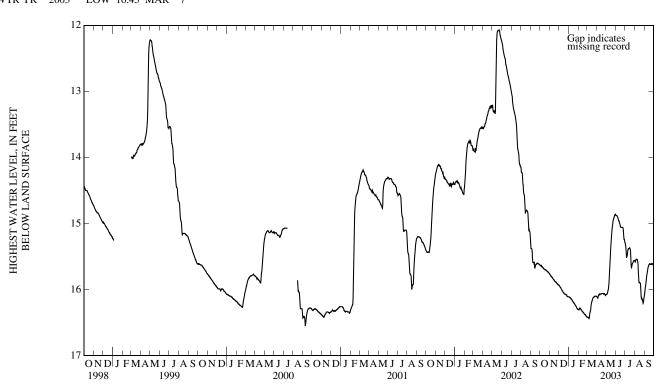
DATUM.--Elevation of land-surface datum is 818 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of floor of shelter, 2.60 ft above land-surface datum.

REMARKS .-- Water level slightly affected by irrigation pumpage.

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, 16.57 ft below land-surface datum, Sept. 9, 2000.

			1					ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	15.65 15.67 15.69 15.71 15.73 15.76	15.80 15.82 15.86 15.89 15.91	15.97 16.01 16.05 16.07 16.08 16.11	16.12 16.15 16.19 16.22 16.26 16.30	16.28 16.31 16.34 16.37 16.40 16.41	16.43 16.35 16.20 16.13 16.11 16.11	16.11 16.08 16.07 16.06 16.06 16.08	16.05 15.90 15.40 15.08 14.92 14.86	14.89 14.96 15.04 15.06 15.11 15.29	15.52 15.39 15.37 15.63 15.60 15.56	15.55 15.58 15.89 16.03 16.16 16.10	15.91 15.73 15.62 15.62 15.62 15.61
MIN	15.63	15.77	15.94	16.11	16.28	16.10	16.06	14.86	14.88	15.30	15.54	15.61
WTR YR	2003	HIGH 14.86	MAY 30									
]					ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	15.65 15.67 15.70 15.71 15.73 15.77	15.80 15.83 15.86 15.89 15.92 15.94	15.97 16.02 16.05 16.07 16.10 16.12	16.13 16.16 16.19 16.23 16.27 16.31	16.29 16.32 16.35 16.38 16.40 16.42	16.43 16.38 16.22 16.14 16.11	16.13 16.09 16.07 16.07 16.07	16.07 15.95 15.49 15.13 14.94 14.88	14.90 14.96 15.05 15.07 15.19 15.30	15.55 15.42 15.38 15.71 15.61 15.57	15.55 15.62 15.90 16.11 16.18 16.13	15.95 15.76 15.64 15.62 15.62 15.61
MAX	15.77	15.94	16.12	16.31	16.42	16.45	16.13	16.08	15.30	15.73	16.22	16.10
WTR YR	2003	LOW 16.45	MAR 7									



ELKHART COUNTY

414514085505001. Local number, EH 7.

LOCATION.--Lat 41°45′14″, long 85°50′50″, in SW½SE½SW½ sec.9, T.38 N., R.6 E., Elkhart County, Hydrologic Unit 04050001, (BRISTOL, IN quadrangle), 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.

HIGHEST WATER LEVEL, IN FEET BELOW LAND SURFACE

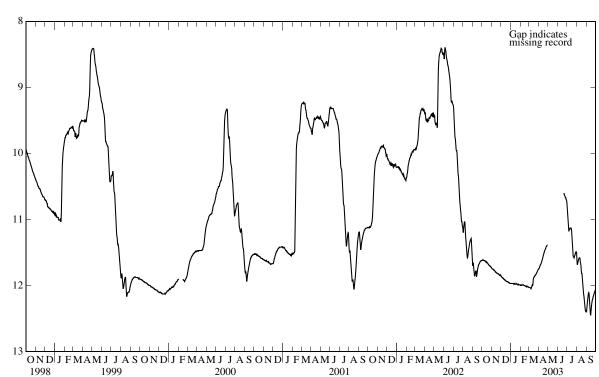
DATUM.--Elevation of land-surface datum is 781 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of floor of shelter, 3.70 ft above land-surface datum.

REMARKS .-- Water level slightly affected by irrigation pumpage.

PERIOD OF RECORD .-- June 1981 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 5.50 ft below land-surface datum, Feb. 24, 1985; lowest, 12.73 ft below land-surface datum, Aug. 5, 6, 1988.

				HIGHEST W				ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	11.62 11.63 11.64 11.67 11.70 11.73	11.75 11.77 11.80 11.82 11.84 11.85	11.88 11.90 11.92 11.94 11.95 11.97	11.97 11.97 11.98 11.98 11.98 11.99	12.00 11.99 12.00 12.02 12.02 12.03	12.04 12.01 11.89 11.85 11.81 11.75	11.70 11.65 11.55 11.47 11.41	 	10.60 10.67 10.75	11.11 11.13 11.18 11.55 11.55 11.50	11.63 11.58 11.78 11.99 12.24 12.38	12.19 12.19 12.39 12.21 12.12 12.06
MIN	11.61	11.74	11.86	11.97	11.99	11.75	11.39		10.60	10.82	11.58	12.06
WTR YR	2003	HIGH 10.60	JUN 20									
				LOWEST W WATER				ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	11.62 11.63 11.65 11.68 11.70 11.74	11.76 11.78 11.81 11.83 11.84 11.86	11.88 11.91 11.93 11.94 11.96 11.97	11.98 11.98 11.98 11.98 11.99 12.00	12.00 12.00 12.01 12.02 12.03 12.04	12.05 12.03 11.92 11.86 11.82 11.76	11.72 11.66 11.57 11.51 11.45	 	10.63 10.70 10.82	11.18 11.17 11.26 11.58 11.58 11.61	11.65 11.61 11.83 12.05 12.29 12.40	12.24 12.26 12.45 12.25 12.14 12.07
MAX	11.74	11.86	11.97	12.00	12.04	12.07	11.75		10.82	11.61	12.41	12.49
WTR YR	2003	LOW 12.49	SEP 14									



ELKHART COUNTY

414419085595801. Local number, EH 9.

LOCATION.--Lat 41°44'19", long 85°59'58",in $NE_4^1NW_4^1NW_4^1$ sec.19, T.38 N., R.5 E., Elkhart County, Hydrologic Unit 04050001, (ELKHART, IN quadrangle), 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.

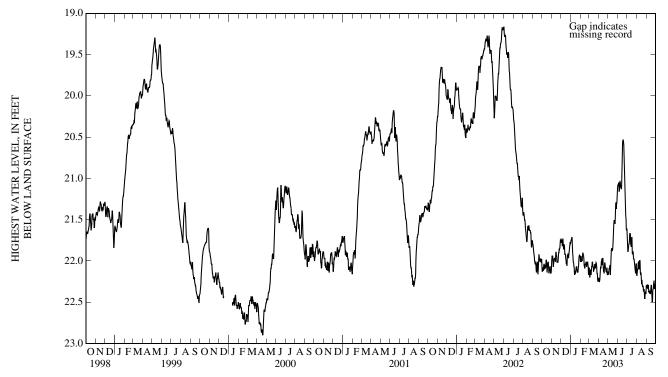
DATUM.--Elevation of land-surface datum is 785.27 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.80 ft above land-surface datum.

REMARKS.--Water level affected by public water supply pumpage.

PERIOD OF RECORD .-- July 1990 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 16.09 ft below land-surface datum, Jan. 16, 1991; lowest, 22.94 ft below land-surface datum, Aug. 19, 2000.

				HIGHEST V WATER		VEL, FEET 1 OBER 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	22.12 22.05 21.99 22.02 22.11 22.10	22.01 21.98 21.89 22.01 21.85 21.77	21.82 21.82 21.92 22.06 21.96 21.79	21.71 22.02 22.16 22.07 22.08 21.94	22.00 21.92 22.09 22.06 22.05 22.12	22.11 22.06 22.13 22.06 22.07 22.21	22.17 22.00 22.07 22.02 22.11 22.13	22.09 21.99 21.86 21.51 21.31 21.11	21.16 21.11 20.69 20.60 21.31 21.61	21.83 21.67 21.72 21.89 22.06 22.16	22.03 21.99 22.21 22.31 22.41 22.30	22.34 22.38 22.32 22.48 22.24 22.28
MIN	21.99	21.74	21.73	21.71	21.90	22.01	21.97	21.11	20.53	21.67	21.99	22.24
WTR YR	2003	HIGH 20.53	JUN 18									
				LOWEST W WATER		EL, FEET I OBER 2002						
DAY	OCT	NOV	DEC							JUL	AUG	SEP
5 10 15 20 25 EOM	22.19 22.16 22.06 22.06 22.14 22.19	22.07 22.03 21.95 22.09 21.90 21.82	21.89 21.94 22.02 22.11 22.05 21.91	WATER JAN 21.80 22.11 22.23 22.13 22.15 22.05	YEAR OCT FEB 22.09 21.98 22.13 22.09 22.12 22.17	MAR 22.24 22.15 22.18 22.19 22.17 22.31	APR 22.27 22.07 22.17 22.08 22.19 22.17	MBER 2003 MAY 22.14 22.07 21.95 21.58 21.41 21.21	JUN 21.21 21.18 20.86 20.82 21.45 21.72	21.92 21.72 21.89 22.00 22.12 22.21	22.15 22.07 22.28 22.40 22.49 22.40	22.41 22.44 22.39 22.52 22.34 22.34
5 10 15 20 25	22.19 22.16 22.06 22.06 22.14	22.07 22.03 21.95 22.09 21.90	21.89 21.94 22.02 22.11 22.05 21.91 22.11	WATER JAN 21.80 22.11 22.23 22.13 22.15	YEAR OCT FEB 22.09 21.98 22.13 22.09 22.12	MAR 22.24 22.15 22.18 22.19 22.17	APR 22.27 22.07 22.17 22.08 22.19	MBER 2003 MAY 22.14 22.07 21.95 21.58 21.41	JUN 21.21 21.18 20.86 20.82 21.45	21.92 21.72 21.89 22.00 22.12	22.15 22.07 22.28 22.40 22.49	22.41 22.44 22.39 22.52 22.34



FOUNTAIN COUNTY

401200087121701. Local number, FO 3.

LOCATION.--Lat 40°12′00", long 87°12′17", in NW¹/₄NW¹/₄NW¹/₄ sec.10, T.20 N., R.7 W., Fountain County, Hydrologic Unit 05120108, (MELLOTT, IN quadrangle), on the southwest corner of the Union Church property on County Road 520 North, about 6.5 mi southeast of Attica. Owner: U.S. Geological Survey.

AQUIFER .-- Shale and sandstone of the Mississippian Period.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 102 ft, cased to 22 ft, open end.

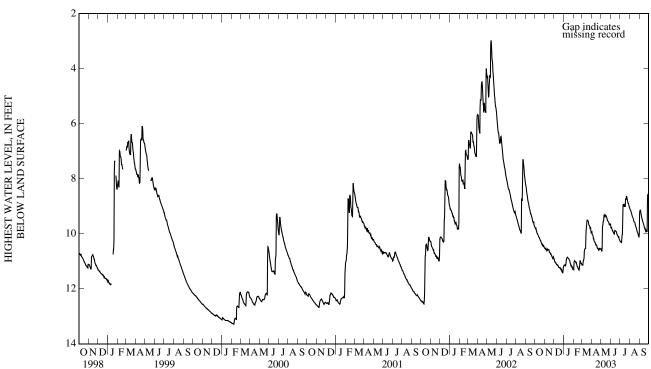
INSTRUMENTATION .-- Water-level recorder.

DATUM.--Elevation of land-surface datum is 670.99 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.60 ft above land-surface datum.

PERIOD OF RECORD.--July 1986 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.97 ft below land-surface datum, May 13, 2002; lowest, 13.53 ft below land-surface datum, Dec. 21, 22, 25-27, 1988.

				HIGHEST WATER		VEL, FEET I OBER 2002			CE			
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	9.89 10.03 10.14 10.30 10.36 10.51	10.53 10.55 10.60 10.74 10.85 10.88	11.03 11.12 11.19 11.22 11.29 11.21	11.13 10.91 10.89 10.97 11.15 11.26	11.00 11.04 11.21 11.27 11.08 11.12	10.96 10.55 9.71 9.53 9.72 9.95	10.09 10.30 10.40 10.52 10.53 10.54	9.75 9.33 9.32 9.45 9.58 9.65	9.86 9.98 9.89 10.00 10.12 10.26	10.32 8.95 8.95 8.74 8.84 9.05	9.22 9.40 9.57 9.74 9.93 10.02	9.25 9.51 9.70 9.90 9.93 8.84 8.60
WTR YR	2003	HIGH 8.60		10.03	10.70	7.50	7.75	7.51	2.11	0.03	7.07	0.00
				LOWEST W WATER		/EL, FEET I OBER 2002						
DAY	OCT	NOV	DEC									
			DLC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	9.95 10.05 10.19 10.32 10.42 10.53	10.60 10.60 10.67 10.75 10.87 10.96	11.06 11.13 11.22 11.25 11.38 11.32	JAN 11.18 10.97 10.92 11.03 11.17 11.28	FEB 11.00 11.10 11.27 11.36 11.10 11.16	MAR 11.04 10.58 9.85 9.57 9.79 10.01	APR 10.23 10.32 10.43 10.54 10.59 10.57	MAY 10.52 9.55 9.35 9.53 9.63 9.79	JUN 9.90 10.00 9.91 10.03 10.14 10.28	JUL 10.37 9.37 9.06 8.74 8.89 9.09	9.25 9.43 9.58 9.77 9.97 10.16	9.30 9.56 9.75 9.94 9.96 8.90
10 15 20 25	10.05 10.19 10.32 10.42	10.60 10.60 10.67 10.75 10.87	11.06 11.13 11.22 11.25 11.38	11.18 10.97 10.92 11.03 11.17	11.00 11.10 11.27 11.36 11.10	11.04 10.58 9.85 9.57 9.79	10.23 10.32 10.43 10.54 10.59	10.52 9.55 9.35 9.53 9.63	9.90 10.00 9.91 10.03 10.14	10.37 9.37 9.06 8.74 8.89	9.25 9.43 9.58 9.77 9.97	9.30 9.56 9.75 9.94 9.96
10 15 20 25 EOM	10.05 10.19 10.32 10.42 10.53	10.60 10.60 10.67 10.75 10.87 10.96	11.06 11.13 11.22 11.25 11.38 11.32	11.18 10.97 10.92 11.03 11.17 11.28	11.00 11.10 11.27 11.36 11.10 11.16	11.04 10.58 9.85 9.57 9.79 10.01	10.23 10.32 10.43 10.54 10.59 10.57	10.52 9.55 9.35 9.53 9.63 9.79	9.90 10.00 9.91 10.03 10.14 10.28	10.37 9.37 9.06 8.74 8.89 9.09	9.25 9.43 9.58 9.77 9.97 10.16	9.30 9.56 9.75 9.94 9.96 8.90



FRANKLIN COUNTY

392416085004301. Local number, FR 5.

LOCATION.--Lat 39°24'16", long 85°00'43", in $SE^{1}_{4}NE^{1}_{4}NW^{1}_{4}$ sec.32, T.9 N., R.2 W., Franklin County, Hydrologic Unit 05080003, (BROOKVILLE, IN quadrangle), 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.

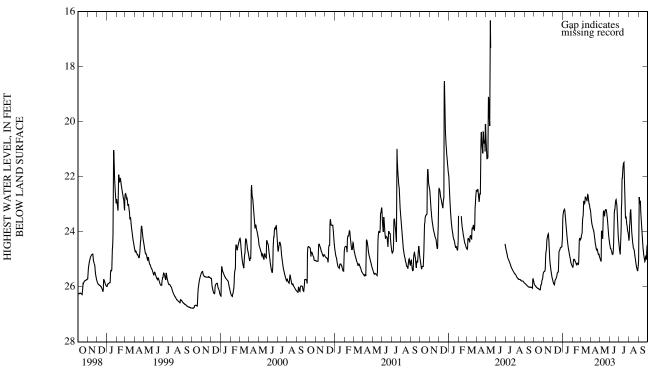
INSTRUMENTATION .-- Water-level recorder.

DATUM.--Elevation of land-surface datum is 621.79 ft above National Geodetic Vertical Datum of 1929. 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 October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, Il.95 ft below land-surface datum, May 24, 1968; lowest, 27.32 ft below land-surface datum, Feb. 1 1977

				HIGHEST WATER				ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	25.96 26.03 26.07 26.11 25.89 25.49	25.42 24.59 24.09 24.93 25.48 25.76 24.07	25.93 25.71 25.49 24.73 24.57 24.22 24.22	23.21 23.53 24.23 24.67 24.97 25.24 23.19	25.00 25.07 25.15 25.19 24.24 24.26 24.24	23.67 22.89 22.74 22.89 22.89 23.23 22.65	23.75 23.96 24.41 24.68 24.82 24.95 23.36	23.99 23.91 23.41 23.19 23.68 24.41 23.19	24.65 24.81 23.32 22.85 23.50 24.46 22.83	24.50 22.07 21.50 23.29 23.73 24.20 21.48	23.33 24.00 24.58 24.87 25.26 25.22 23.19	22.94 23.73 24.58 25.01 24.92 24.45 22.74
WTR YR	2003	HIGH 21.48	JUL 16									
				LOWEST W WATER				ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	25.97 26.04 26.07 26.11 25.93 25.54	25.44 25.01 24.13 25.09 25.54 25.81	25.96 25.73 25.52 25.11 24.59 24.39	23.24 23.67 24.33 24.73 25.05 25.27	25.05 25.09 25.21 25.21 24.25 24.33	24.05 22.90 22.77 22.95 23.01 23.36	23.80 24.02 24.47 24.72 24.86 24.98	25.11 24.33 23.52 23.27 23.82 24.47	24.69 24.82 23.90 22.94 23.79 24.57	24.88 22.93 21.56 23.51 23.78 24.32	23.67 24.13 24.61 24.94 25.31 25.34	23.16 23.97 24.68 25.08 25.01 24.48
MAX	26.11	25.81	25.98	25.27	25.31	24.26	24.98	25.11	24.85	24.89	25.45	25.22
WTR YR	2003	LOW 26.11	OCT 18									
	16	<u> </u>										



FULTON COUNTY

40582908617580l. Local number, FU 7.

LOCATION.--Lat $40^\circ 58'29''$, long $86^\circ 17'58''$, in NW $^1/_4$ NW $^1/_4$ SW $^1/_4$ sec.10, T.29 N., R.2 E., Fulton County, Hydrologic Unit 05120106, (FULTON, IN quadrangle), 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.

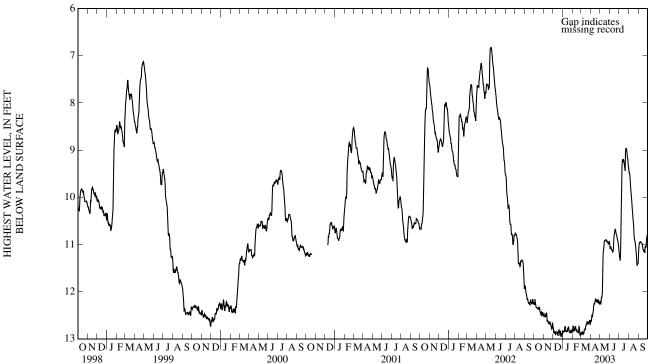
INSTRUMENTATION .-- Water-level recorder.

DATUM.--Elevation of land-surface datum is 776.45 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of floor of shelter, 2.50 ft above land-surface datum.

PERIOD OF RECORD .-- August 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.35 ft below land-surface datum, Apr. 23-27, 1973; lowest, 13.21 ft below land-surface datum, Oct. 13, 1988.

				HIGHEST V WATER				ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	12.23 12.34 12.34 12.41 12.43 12.49	12.47 12.46 12.63 12.69 12.74 12.68	12.86 12.89 12.87 12.81 12.83 12.90	12.83 12.79 12.85 12.76 12.84 12.81	12.83 12.74 12.80 12.88 12.93 12.89	12.86 12.88 12.76 12.64 12.65 12.65	12.50 12.32 12.18 12.17 12.18 12.24 12.16	12.11 11.30 10.92 10.89 10.93 10.94	11.07 11.17 10.79 10.73 10.90 11.13	11.23 9.30 9.21 9.44 9.01 9.37 8.96	9.64 10.09 10.52 10.92 11.23 11.36	10.96 10.97 11.09 11.14 11.06 10.77
WTR YR	2003	HIGH 8.96										
								ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	12.31 12.35 12.38 12.44 12.50 12.52	12.54 12.49 12.67 12.71 12.78 12.78	12.89 12.92 12.91 12.84 12.91 12.91	12.84 12.85 12.86 12.81 12.88 12.88	12.85 12.79 12.88 12.90 12.94 12.90	12.88 12.90 12.80 12.68 12.67 12.70	12.59 12.40 12.23 12.22 12.22 12.22	12.20 11.61 10.94 10.94 10.97 11.03	11.11 11.20 10.84 10.79 10.92 11.18	11.39 9.57 9.26 9.46 9.08 9.45	9.76 10.19 10.60 10.95 11.38 11.45	10.97 10.99 11.12 11.18 11.10 10.80
MAX	12.52	12.79	12.97	12.91	12.94	12.93	12.65	12.32	11.20	11.45	11.46	11.36
WTR YR	2003	LOW 12.97	DEC 16									



GRANT COUNTY

402322085481901. Local number, GT 8.

LOCATION.--Lat $40^{\circ}23'22''$, long $85^{\circ}48'19''$, in NW $^{1}_{4}$ SW $^{1}_{4}$ NW $^{1}_{4}$ sec. 1, T.22 N., R.6 E., Grant County, Hydrologic Unit 05120107, (POINT ISABEL, IN quadrangle), 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.

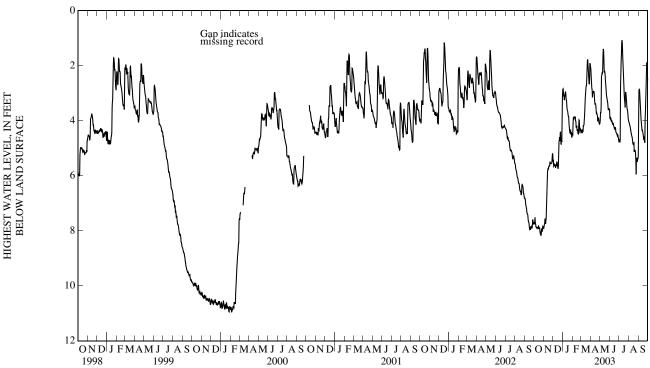
INSTRUMENTATION .-- Water-level recorder.

DATUM.--Elevation of land-surface datum is 880 ft above National Geodetic Vertical Datum of 1929, 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, 1.07 ft below land-surface datum, July 10, 2003; lowest, 11.01 ft below land-surface datum, Jan. 13, 14, 27, Feb. 5, 2000.

						VEL, FEET I OBER 2002			CE			
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	7.71 7.90 7.83 8.03 7.92 7.90 7.51	7.56 6.85 5.74 5.64 5.56 5.21	5.56 5.61 5.63 4.77 4.42 3.13	3.09 2.94 3.60 3.85 4.37 4.47	3.91 3.85 4.21 4.48 4.45 4.36 3.85	4.32 4.15 3.01 2.20 2.36 2.04	2.87 2.93 3.38 3.73 3.88 4.10 2.12	2.39 1.62 2.19 2.87 3.35 3.58	4.01 4.13 4.27 4.39 4.55 4.78 3.86	2.79 1.07 2.55 3.52 3.42 4.00	4.23 4.55 4.86 5.07 5.46 5.30 4.04	3.15 4.08 4.46 4.74 2.64 2.54
WTR YR	2003	HIGH 1.07	JUL 10									
						VEL, FEET E OBER 2002			CE			
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	7.97 8.03 7.95 8.26 8.15 8.09	7.84 7.52 5.83 5.77 5.65 5.56	5.64 5.74 5.72 5.17 4.84 4.09	3.25 3.04 3.73 4.09 4.46 4.64	3.97 4.03 4.43 4.59 4.55 4.45	4.49 4.23 3.19 2.48 2.60 2.16	3.19 2.98 3.43 3.78 3.95 4.15	3.48 2.18 2.35 3.07 3.63 3.91	4.11 4.27 4.43 4.67 4.86 5.14	4.70 1.21 2.82 3.66 3.59 4.13	4.51 4.86 5.11 5.34 6.10 5.80	3.82 4.36 4.72 4.95 3.22 2.79
MAX	8.39	7.99	5.88	4.67	4.59	4.56	4.18	4.14	5.14	5.27	6.12	5.30
WTR YR	2003	LOW 8.39	OCT 24									



GRANT COUNTY

403836085374401. Local number, GT 10.

LOCATION.--Lat $40^\circ38'36''$, long $85^\circ37'44''$, in $NE^1_{4}SE^1_{4}SW^1_{4}$ sec.4, T.25 N., R.8 E., Grant County, Hydrologic Unit 05120103, (LA FOUNTAINE, IN quadrangle), 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.

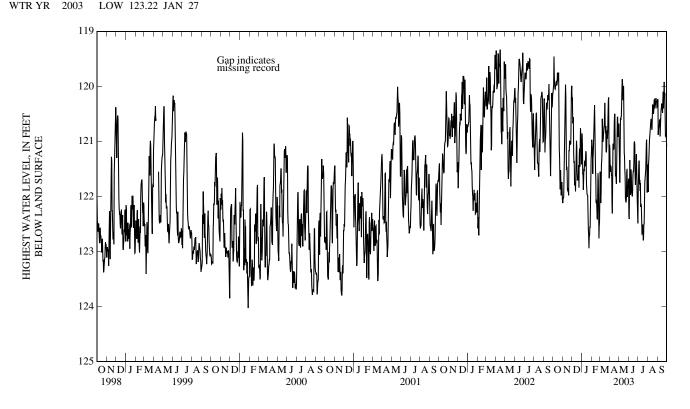
DATUM.--Elevation of land-surface datum is 912.16 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of shelf, 3.20 ft above land-surface datum.

REMARKS.--Water level affected by pumpage from water-supply well field.

PERIOD OF RECORD.--August 1987 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 107.39 ft below land-surface datum, Apr. 6, 1988; lowest, 124.24 ft below land-surface datum, Feb. 16 - 17, 2000.

,		,										
						VEL, FEET I						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	119.85 119.99 119.75 120.70 121.52 122.05	121.65 119.97 121.54 121.98 121.04 119.99	120.56 121.76 120.99 121.71 121.13 121.42	121.62 121.38 121.21 121.98 122.72 121.31	121.59 120.49 121.69 122.42 122.76 122.23	121.42 121.01 120.54 121.17 120.84 121.06	121.46 121.44 120.67 121.60 120.56 120.68	120.58 120.00 120.00 121.63 121.56 121.68	121.68 121.89 121.54 121.07 121.23 122.49	121.78 122.13 122.51 122.50 121.51 121.42	121.10 120.66 120.56 120.42 120.33 120.37	120.72 120.78 120.38 120.40 120.61 121.10
MIN	119.46	119.97	120.20	120.86	120.34	120.20	120.50	119.87	121.00	120.97	120.22	119.92
WTR YR	2003	HIGH 119.4	6 OCT 4									
						/EL, FEET I OBER 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	120.61 120.05 119.95 121.14 121.87 122.15	122.16 120.20 121.89 122.18 121.20 120.50	121.23 121.86 121.31 121.99 121.46 121.74	121.88 121.88 121.90 122.37 122.94 121.78	122.16 120.75 122.19 122.62 122.96 122.59	121.93 121.55 120.72 121.25 121.33 121.84	122.38 122.39 121.13 121.69 120.84 121.07	120.93 120.31 120.79 122.03 122.17 122.36	122.03 121.99 121.95 121.61 121.52 122.60	122.17 122.24 122.69 122.68 121.61 122.08	121.31 120.78 120.80 120.53 120.40 120.57	120.83 120.91 120.44 120.53 121.06 121.72
MAX	122.15	122.22	122.26	123.22	122.96	122.35	122.48	122.36	122.60	122.92	122.18	121.72
WTR YR	2003	LOW 123.2	2 IAN 27									



HAMILTON COUNTY

400000086023201. Local number, HA 7.

LOCATION.--Lat 40°00'00", long 86°02'30", in NE \(^1_4\)NE \(^1_4\

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.

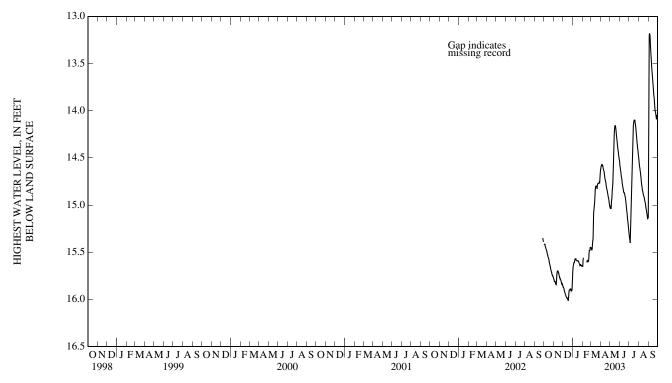
DATUM.--Elevation of land-surface datum is 755.17 ft above sea level. Measuring point: Top of casing, 3.50 ft above land-surface datum. (GPS elevation provided by Hamilton County Surveyor's office).

REMARKS.--Replacement well for Hamilton 5. Well affected by pumpage.

PERIOD OF RECORD.--September 2002 to September 30, 2003.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 13.18 ft below land-surface datum, Sept. 4, 2003; lowest, 16.02 ft below land-surface datum, Dec. 18, 2002.

Dec. 10	3, 2002.											
				HIGHEST V WATER				ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	15.44 15.49 15.56 15.64 15.71 15.77	15.81 15.80 15.70 15.77 15.81 15.85	15.91 15.96 15.99 15.92 15.89 15.80	15.61 15.57 15.59 15.60 15.63 15.65	15.59 15.60 15.48 15.45	15.43 15.05 14.81 14.83 14.77 14.63	14.57 14.63 14.73 14.83 14.92 15.02	14.96 14.72 14.19 14.22 14.39 14.53	14.68 14.80 14.87 14.96 15.13 15.29	15.32 14.58 14.13 14.13 14.30 14.49	14.64 14.79 14.89 14.96 15.06 15.13	13.19 13.48 13.72 13.92 14.06 14.11
WTR YR	2003	HIGH 13.18	CED 4									
WIR IR	2003	111011 13.10	, ser i	LOWEST V	VATER LEV	/EL, FEET I	BELOW LA	ND SURFA	CE			
				WATER	YEAR OCT	OBER 2002	TO SEPTE	MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	15.45 15.51 15.57 15.65 15.73 15.78	15.82 15.86 15.72 15.77 15.83 15.87	15.92 15.97 16.00 15.97 15.90 15.88	15.62 15.58 15.60 15.61 15.64 15.66	15.60 15.61 15.48 15.46	15.47 15.08 14.84 14.84 14.78 14.67	14.61 14.64 14.75 14.84 14.93 15.04	15.04 14.80 14.24 14.26 14.42 14.58	14.71 14.82 14.88 14.99 15.16 15.32	15.44 14.76 14.17 14.15 14.34 14.52	14.66 14.81 14.90 14.97 15.08 15.13	13.24 13.54 13.76 13.97 14.09 14.13
	13.70	13.07	10.02	13.00	13.00	13.10	13.04	13.03	13.32	13.11	13.10	13.13



HARRISON COUNTY

382323086044501. Local number, HR 8.

LOCATION.--Lat $38^{\circ}23'23''$, long $86^{\circ}04'45''$, in $NW^{1}_{4}NW^{1}_{4}NE^{1}_{4}$ sec. 33, T.1 S., R.4 E., Harrison County, Hydrologic Unit 05140104, (PALMYRA, IN quadrangle) 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.

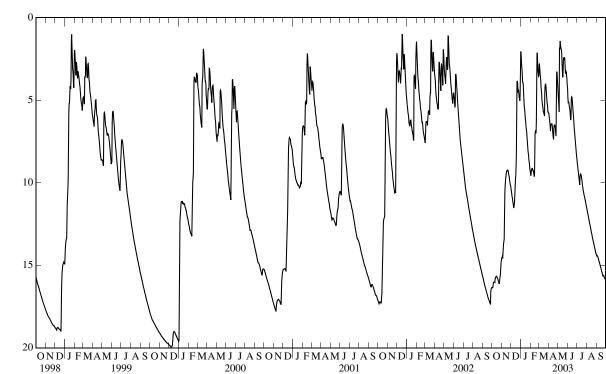
HIGHEST WATER LEVEL, IN FEET BELOW LAND SURFACE

DATUM.--Elevation of land-surface datum is 827 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of floor of shelter, 3.10 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.56 ft below land-surface datum, June 7, 1990, and Apr. 29, 1996; lowest, 20.29 ft below land-surface datum, Dec. 17, 1992.

				HIGHEST V WATER				ND SURFA				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	16.10 16.04 15.66 15.86 15.96 14.68	14.25 11.77 9.51 9.28 9.65 10.19	10.90 11.53 9.77 3.87 4.42 2.93	3.15 4.50 5.98 6.93 8.20 9.27	9.18 9.25 7.82 6.27 3.23 3.51	3.55 4.99 5.71 4.15 4.76 5.76	6.52 6.43 7.24 6.50 4.90 4.33	1.87 1.86 3.59 2.58 3.39 4.25	5.29 6.20 5.00 6.27 7.57 8.59	9.45 9.61 9.73 10.44 10.92 11.49	11.99 12.48 12.98 13.44 13.87 14.35	14.49 14.83 15.19 15.56 15.69 15.91
MIN	14.68	9.24	2.93	2.05	2.15	2.82	3.30	1.41	4.79	8.77	11.60	14.40
WTR YR	2003	HIGH 1.41	MAY 7									
								ND SURFAC MBER 2003				
DAY	OCT	NOV	DEC							JUL	AUG	SEP
DAY 5 10 15 20 25 EOM	OCT 16.28 16.05 15.68 15.93 16.19 14.85	NOV 14.59 13.41 9.65 9.32 9.82 10.40	DEC 11.05 11.60 10.13 5.18 4.65 4.66	WATER	YEAR OCT	OBER 2002	TO SEPTE	MBER 2003		JUL 9.64 10.32 9.85 10.55 11.01 11.60	AUG 12.07 12.58 13.06 13.53 13.96 14.40	SEP 14.55 14.90 15.25 15.63 15.76 15.96
5 10 15 20 25	16.28 16.05 15.68 15.93 16.19	14.59 13.41 9.65 9.32 9.82	11.05 11.60 10.13 5.18 4.65	JAN 3.57 4.96 6.20 7.21 8.33	YEAR OCT FEB 9.25 9.37 9.48 7.11 3.36	MAR 3.86 5.18 5.79 4.62 5.11	TO SEPTE APR 6.87 6.49 7.37 6.59 7.27	MBER 2003 MAY 5.72 2.16 3.78 3.11 3.86	JUN 5.46 6.37 5.26 6.60 7.79	9.64 10.32 9.85 10.55 11.01	12.07 12.58 13.06 13.53 13.96	14.55 14.90 15.25 15.63 15.76
5 10 15 20 25 EOM	16.28 16.05 15.68 15.93 16.19 14.85	14.59 13.41 9.65 9.32 9.82 10.40	11.05 11.60 10.13 5.18 4.65 4.66	WATER JAN 3.57 4.96 6.20 7.21 8.33 9.39	YEAR OCT FEB 9.25 9.37 9.48 7.11 3.36 4.01	MAR 3.86 5.18 5.79 4.62 5.11 5.84	APR 6.87 6.49 7.37 6.59 7.27 4.64	MAY 5.72 2.16 3.78 3.11 3.86 4.83	JUN 5.46 6.37 5.26 6.60 7.79 8.77	9.64 10.32 9.85 10.55 11.01 11.60	12.07 12.58 13.06 13.53 13.96 14.40	14.55 14.90 15.25 15.63 15.76 15.96



HENDRICKS COUNTY

394025086400801. Local number, HD 4.

LOCATION.--Lat $39^{\circ}40^{\circ}25^{\circ}$, long $86^{\circ}40^{\circ}08^{\circ}$, in NW $^{1}_{4}$ NW $^{1}_{4}$ NW $^{1}_{4}$ Sec. 8, T.14 N., R.2 W., Hendricks County, Hydrologic Unit 05120203, (COATESVILLE, IN quadrangle), 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.

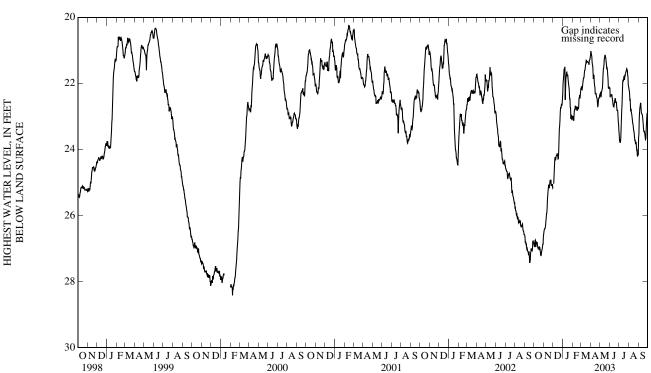
DATUM.--Elevation of land-surface datum is 860 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of floor of shelter, 1.92 ft above land-surface datum.

REMARKS.--Water level affected by pumpage.

PERIOD OF RECORD.--October 1966 to September 1971, November 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 18.65 ft below land-surface datum, Jan. 30, 1976; lowest, 29.02 ft below land-surface datum, Nov. 30, 1988.

	,											
				HIGHEST V WATER				ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	26.75 26.84 26.98 26.99 27.11 26.64	26.40 25.94 25.24 25.06 25.09 25.17	24.55 24.26 24.16 23.74 22.74 22.48	21.60 22.10 21.75 22.05 22.74 23.10	23.13 22.69 22.70 22.77 22.46 22.18	22.12 21.83 21.44 21.34 21.38 21.15	21.36 21.82 22.31 22.44 22.53 22.40	22.26 21.75 21.22 21.34 21.75 22.14	22.35 22.53 22.62 22.59 22.81 23.45	23.75 22.63 21.87 21.77 21.56 22.09	22.49 22.93 23.33 23.74 23.92 24.17	22.74 22.90 23.15 23.46 23.49 22.83
MIN	26.64	24.92	22.48	21.50	22.18	21.15	21.02	21.15	22.14	21.56	22.16	22.59
WTR YR	2003	HIGH 21.02	APR 1									
				LOWEST W				ND SURFA MBER 2003				
DAY	OCT	NOV	DEC							JUL	AUG	SEP
5 10 15 20 25 EOM	26.95 27.00 27.30 27.18 27.22 26.87	26.53 26.10 25.40 25.19 25.18 25.32	24.76 24.42 24.27 24.08 22.87 22.81	WATER JAN 21.75 22.50 21.91 22.19 22.85 23.33	YEAR OCT FEB 23.32 22.89 22.93 22.85 22.56 22.32	MAR 22.21 22.18 21.64 21.54 21.62 21.27	APR 21.47 21.92 22.55 22.54 22.74 22.55	MBER 2003 MAY 22.51 22.02 21.44 21.49 21.99 22.24	JUN 22.48 22.72 22.82 22.73 22.95 23.61	24.10 22.83 22.13 21.98 21.71 22.21	22.87 23.19 23.56 23.96 24.16 24.39	22.87 23.17 23.57 23.59 23.74 22.98
5 10 15 20 25	26.95 27.00 27.30 27.18 27.22	26.53 26.10 25.40 25.19 25.18	24.76 24.42 24.27 24.08 22.87 22.81 25.81	WATER JAN 21.75 22.50 21.91 22.19 22.85	YEAR OCT FEB 23.32 22.89 22.93 22.85 22.56	MAR 22.21 22.18 21.64 21.54 21.62	APR 21.47 21.92 22.55 22.54 22.74	MBER 2003 MAY 22.51 22.02 21.44 21.49 21.99	JUN 22.48 22.72 22.82 22.73 22.95	24.10 22.83 22.13 21.98 21.71	22.87 23.19 23.56 23.96 24.16	22.87 23.17 23.57 23.59 23.74



HUNTINGTON COUNTY

404858085284301. Local number, HU 2.

LOCATION.--Lat $40^{\circ}48'58''$, long $85^{\circ}28'43''$, in $SW^{1}_{4}SW^{1}_{4}SE^{1}_{4}$ sec.2, T.27 N., R.9 E., Huntington County, Hydrologic Unit 05120101, (MAJENICA, IN quadrangle), on the property of Luther Fusselman, 3.0 mi south of Huntington and 0.5 mi west of State Highway 5. Owner: U.S. Geological Survey.

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.

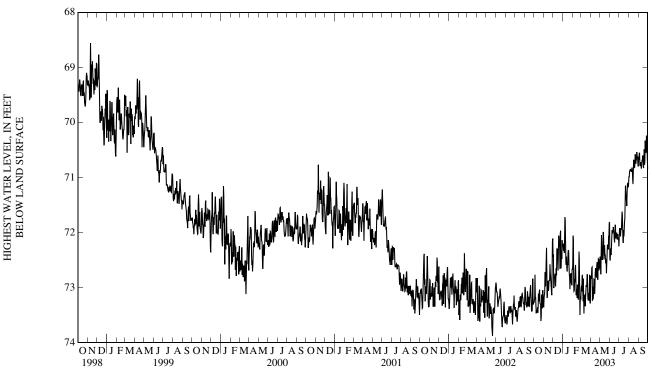
DATUM.--Elevation of land-surface datum is 819.70 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.30 ft above land-surface datum.

REMARKS.--Water level affected by pumpage from water-supply well field.

PERIOD OF RECORD.--August 1988 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 65.46 ft below land-surface datum, Dec. 24, 1988; lowest, 73.97 ft below land-surface datum, May 21, 2002.

				HIGHEST WATER		VEL, FEET 1 OBER 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	73.18 73.44 73.11 73.29 73.13 73.33	72.72 72.28 72.91 72.87 72.99 72.11	72.82 72.79 72.31 72.08 71.97 72.26	72.20 72.18 72.71 72.34 72.77 72.67	72.96 72.67 73.08 73.22 73.50 73.20	72.77 73.47 73.22 72.78 73.13 73.04	72.63 73.00 72.74 72.60 72.48 72.49	72.05 72.12 72.24 72.49 72.23 71.81	72.41 72.00 72.13 72.11 72.13 72.25	72.07 71.62 71.96 71.42 71.52 71.11	70.86 70.86 70.90 70.78 70.67 70.80	70.77 70.84 70.65 70.77 70.55 70.85
MIN	72.77	72.11	71.97	71.72	72.06	72.76	72.48	71.81	71.86	71.11	70.54	70.25
WTR YR	2003	HIGH 70.25	SEP 26									
				LOWEST W WATER		/EL, FEET I OBER 2002						
DAY	OCT	NOV	DEC							JUL	AUG	SEP
DAY 5 10 15 20 25 EOM MAX	OCT 73.55 73.51 73.37 73.43 73.54 73.38 73.72	NOV 73.23 72.57 73.12 73.08 73.25 72.64 73.44	DEC 72.98 72.98 72.59 72.25 72.65 72.37 73.32	WATER	YEAR OCT	OBER 2002	TO SEPTE	MBER 2003		JUL 72.23 71.84 72.18 71.75 71.59 71.21 72.27	AUG 70.90 70.94 71.13 70.87 70.72 70.98 71.21	SEP 70.87 70.86 70.74 70.95 70.75 70.94 70.95



JASPER COUNTY

410249087011201. Local number, JP 4.

LOCATION.--Lat 41°02'49", long 87°01'12", in SW \(^1_4\)NE \(^1_4\)SW \(^1_4\) sec.17, T.30 N., R.5 W., Jasper County, Hydrologic Unit 07120002, (GIFFORD, IN quadrangle), 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.

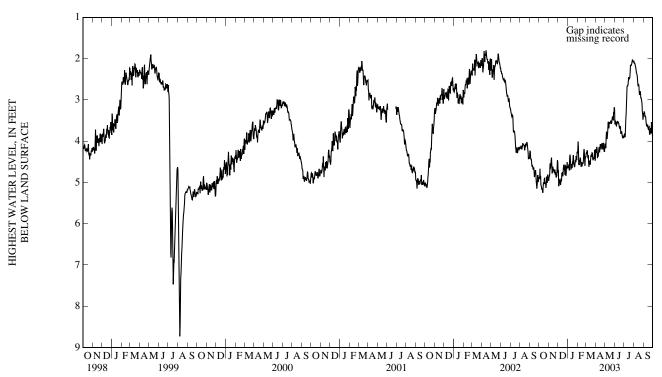
DATUM.--Elevation of land-surface datum is 676.93 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of floor of shelter, 0.00 ft above land-surface datum.

REMARKS.--Water level affected by irrigation pumpage.

PERIOD OF RECORD .-- July 1956 to October 2003 (discontinued).

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.

								AND SURFA EMBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	4.92 5.17 5.00 5.03 4.86 4.92	4.54 4.40 4.66 4.76 4.88 4.50	4.95 4.99 4.75 4.57 4.60 4.64	4.56 4.54 4.65 4.47 4.47 4.26	4.57 4.40 4.59 4.49 4.60 4.39	4.25 4.62 4.46 4.28 4.40 4.31	4.20 4.24 4.08 4.07 4.04 4.07	3.77 3.61 3.55 3.51 3.41 3.20	3.62 3.53 3.66 3.82 3.89 3.92	3.67 2.68 2.45 2.33 2.12 2.08	2.16 2.36 2.64 2.84 2.99 3.41	3.41 3.60 3.68 3.83 3.81 3.88
MIN	4.67 2003	4.40 HIGH 2.03	4.51	4.26	4.01	4.21	4.04	3.18	3.52	2.03	2.07	3.28
WTR YR	2003	111011 2.03	JUL 21									
								ND SURFACEMBER 2003				
DAY	OCT	NOV	DEC							JUL	AUG	SEP
5 10 15 20 25 EOM	5.12 5.27 5.11 5.15 5.11 5.05	4.92 4.58 4.85 4.94 4.95 4.95	5.11 5.10 4.93 4.75 4.84 4.81	WATER JAN 4.71 4.71 4.78 4.60 4.57 4.51	YEAR OCT FEB 4.63 4.62 4.82 4.69 4.69 4.51	MAR 4.44 4.70 4.62 4.44 4.51 4.54	APR 4.56 4.35 4.27 4.16 4.18 4.34	MAY 3.93 3.78 3.71 3.70 3.51 3.59	JUN 3.75 3.68 3.80 3.91 4.04 4.08	3.94 2.87 2.58 2.48 2.29 2.20	2.26 2.52 2.74 2.95 3.14 3.60	3.55 3.73 3.74 3.98 3.96 3.95
5 10 15 20 25	5.12 5.27 5.11 5.15 5.11	4.92 4.58 4.85 4.94 4.95	5.11 5.10 4.93 4.75 4.84 4.81 5.28	WATER JAN 4.71 4.71 4.78 4.60 4.57	YEAR OCT FEB 4.63 4.62 4.82 4.69 4.69	MAR 4.44 4.70 4.62 4.44 4.51	APR 4.56 4.35 4.27 4.16 4.18	MAY 3.93 3.78 3.71 3.70 3.51	JUN 3.75 3.68 3.80 3.91 4.04	3.94 2.87 2.58 2.48 2.29	2.26 2.52 2.74 2.95 3.14	3.55 3.73 3.74 3.98 3.96



GROUND-WATER DATA

JASPER COUNTY

410809087580801. Local number, JP 7.

LOCATION.--Lat 41°08'10", long 86°58'08", in $SE^{1}_{4}SE^{1}_{4}NE^{1}_{4}$ sec.15, T.31 N., R.5 W., Jasper County, Hydrologic Unit 07120002, (SAN PIERRE, IN quadrangle), 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.

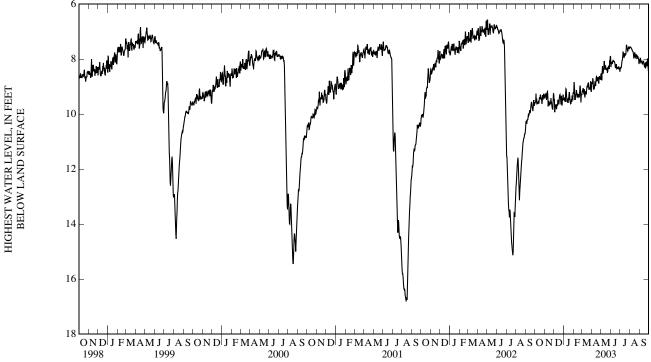
DATUM.--Elevation of land-surface datum is 699.38 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of floor of shelter, 2.75 ft above land-surface datum.

REMARKS.--Water level affected by irrigation pumpage.

PERIOD OF RECORD.--May 1967 to August 1971. September 1971 to May 1978 (semi-annual tape-down readings only). June 1978 to October 2003 (discontinued).

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.

								AND SURFA EMBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.57	9.23	9.71	9.39	9.48	9.09	8.77	8.26	8.18	8.24	7.60	8.12
10	9.61	9.15	9.70	9.32	9.14	9.40	8.94	8.17	8.08	7.75	7.72	8.18
15 20	9.39	9.57	9.49	9.59	9.36	9.15	8.67	8.25	8.28	7.79	7.87	8.20
20 25	9.46 9.31	9.56 9.78	9.29 9.35	9.33 9.47	9.36 9.58	8.88 9.05	8.70 8.62	8.34 8.26	8.35 8.31	7.66 7.71	7.90 7.96	8.34 8.26
EOM	9.31	9.78 9.27	9.33 9.45	9.47	9.38	9.03	8.55	8.20 7.89	8.46	7.71	8.15	8.50
LOM	9.50	9.21	9.43	9.22	9.31	9.00	6.55	7.09	0.40	7.00	0.13	0.50
MIN	9.26	9.15	9.29	9.08	8.84	8.81	8.55	7.89	8.03	7.48	7.54	7.97
WTR YR	2003	HIGH 7.48	JUL 21									
								ND SURFACEMBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.82	9.64	9.94	9.56	9.56	9.30	9.23	8.45	8.31	8.42	7.70	8.27
10	9.75	9.36	9.86	9.55	9.40	9.49	9.08	8.37	8.25	7.95	7.92	8.33
15	9.53	9.82	9.71	9.74	9.65	9.35	8.94	8.46	8.46	7.93	8.04	8.26
20	9.62	9.80	9.48	9.52	9.58	9.07	8.80	8.59	8.44	7.86	8.02	8.51
25	9.62	9.90	9.69	9.62	9.65	9.18	8.74	8.37	8.50	7.88	8.13	8.46
EOM	9.53	9.78	9.65	9.54	9.44	9.28	8.84	8.31	8.64	7.75	8.34	8.55
MAX	9.83	9.95	10.17	9.79	9.65	9.55	9.28	8.91	8.64	8.55	8.34	8.55
WTR YR	2003	LOW 10.17	DEC 3									
	,	<u> </u>										
	`		11111	1 1 1 1 1	1 1 1 1 1 1	111111	1 1 1 1 1	11111	11111	1 1 1 1 1 1	1 1 1 1 1	' ' '
			بالمالي				_		. MMMM			



JASPER COUNTY

410322087163101. Local number, JP 11.

LOCATION.--Lat 41°03'22", long 87°16'31", in NW 4NW 4NW 4sec.18, T.30 N., R.7 W., Jasper County, Hydrologic Unit 07120002, (FAIR OAKS, IN quadrangle), on Prudential Life Insurance Company of America property, 3.2 mi north of State Highway 14, and 1.5 mi southwest of Fair Oaks. Owner: Prudential Insurance Company of America.

AQUIFER .-- Limestone of Devonian age.

WELL CHARACTERISTICS .-- Drilled artesian well, diameter 16 in., depth 630 ft, cased to 63 ft, open end.

INSTRUMENTATION .-- Water-level recorder.

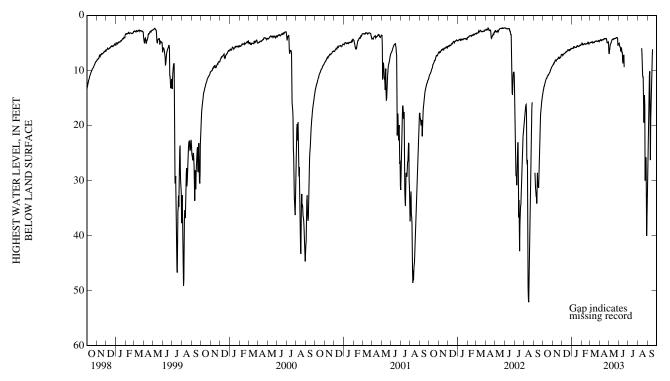
DATUM.--Elevation of land-surface datum is 697.50 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of floor of shelter, 3.50 ft above land-surface datum.

REMARKS.--Water level affected by irrigation pumpage.

PERIOD OF RECORD .-- March 1981 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.04 ft above land-surface datum, Apr. 3, 1982; lowest, 52.76 ft below land-surface datum, Aug. 17, 2002.

						VEL, FEET I						
				WAIEK	I EAR OC	OBER 2002	TO SEFTE	MIDER 2003	1			
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.91	8.61	7.09	5.92	5.36	4.85	4.44	5.23	5.73			14.10
10	11.76	8.11	6.85	5.75	5.15	5.02	4.41	4.42	6.26			26.31
15	11.07	8.02	6.57	5.84	5.21	4.85	4.24	4.25	7.80		9.47	8.73
20	10.68	7.65	6.26	5.53	5.15	4.64	4.20	4.17			19.50	
25	9.86	7.71	6.21	5.55	5.21	4.71	4.91	4.03			26.90	
EOM	9.23	7.08	6.08	5.28	5.04	4.64	6.73	5.15			33.90	
MIN	9.23	7.08	6.01	5.28	4.87	4.55	4.19	4.03	5.09		5.96	6.15
WTR YR	2003	HIGH 4.03	MAY 25									
				LOWEST V	VATER LEV	/FI FEET E	DELOW I A	ND CLIDEA	CE			
						OBER 2002						
DAY	OCT	NOV	DEC							JUL	AUG	SEP
5	13.05	8.90	DEC 7.22	WATER JAN 5.98	YEAR OCT FEB 5.42	OBÉR 2002 MAR 4.94	TO SEPTE APR 4.66	MBER 2003 MAY 5.44	JUN 6.05	JUL 	AUG	16.20
5 10	13.05 11.98	8.90 8.19	DEC	WATER JAN 5.98 5.87	YEAR OCT FEB 5.42 5.25	TOBÉR 2002 MAR	APR 4.66 4.50	MAY 5.44 4.65	JUN 6.05 6.84			
5	13.05	8.90	DEC 7.22	WATER JAN 5.98	YEAR OCT FEB 5.42	OBÉR 2002 MAR 4.94	TO SEPTE APR 4.66	MBER 2003 MAY 5.44	JUN 6.05			16.20
5 10	13.05 11.98	8.90 8.19	DEC 7.22 6.96	WATER JAN 5.98 5.87	YEAR OCT FEB 5.42 5.25	MAR 4.94 5.07	APR 4.66 4.50	MAY 5.44 4.65	JUN 6.05 6.84			16.20 29.36
5 10 15	13.05 11.98 11.21	8.90 8.19 8.10	DEC 7.22 6.96 6.66	WATER JAN 5.98 5.87 5.87	YEAR OCT FEB 5.42 5.25 5.32	MAR 4.94 5.07 4.94	APR 4.66 4.50 4.36	MAY 5.44 4.65 4.37	JUN 6.05 6.84 8.74	 	 13.37	16.20 29.36 10.90
5 10 15 20	13.05 11.98 11.21 10.78	8.90 8.19 8.10 7.79	DEC 7.22 6.96 6.66 6.32	JAN 5.98 5.87 5.87 5.62	YEAR OCT FEB 5.42 5.25 5.32 5.25	MAR 4.94 5.07 4.94 4.73	APR 4.66 4.50 4.36 4.27	MAY 5.44 4.65 4.37 4.26	JUN 6.05 6.84 8.74	 	13.37 24.72	16.20 29.36 10.90
5 10 15 20 25	13.05 11.98 11.21 10.78 10.13	8.90 8.19 8.10 7.79 7.74	DEC 7.22 6.96 6.66 6.32 6.35	JAN 5.98 5.87 5.87 5.62 5.66	YEAR OCT FEB 5.42 5.25 5.32 5.25 5.27	MAR 4.94 5.07 4.94 4.73 4.75	APR 4.66 4.50 4.36 4.27 5.14	MAY 5.44 4.65 4.37 4.26 4.06	JUN 6.05 6.84 8.74	 	13.37 24.72 32.75	16.20 29.36 10.90



JASPER COUNTY

410145087130401. Local number, JP 12.

LOCATION.--Lat $41^{\circ}01'45''$, long $87^{\circ}13'04''$, in $NW^{1}_{4}SW^{1}_{4}SW^{1}_{4}$ sec. 22, T.30 N., R.7 W., Jasper County, Hydrologic Unit 07120002, (PARR, IN quadrangle), in Old Union Township school yard, 200 ft east of County Road 900 West, 750 ft north of State Highway 14, and in Parr. Owner: Prudential Insurance Company of America.

AQUIFER .-- Limestone/dolomite of Silurian/Devonian age.

WELL CHARACTERISTICS .-- Drilled artesian well, diameter 5 in., depth 150 ft, cased to 103 ft, open end.

INSTRUMENTATION .-- Water-level recorder, data-collection platform, and incremental encoder.

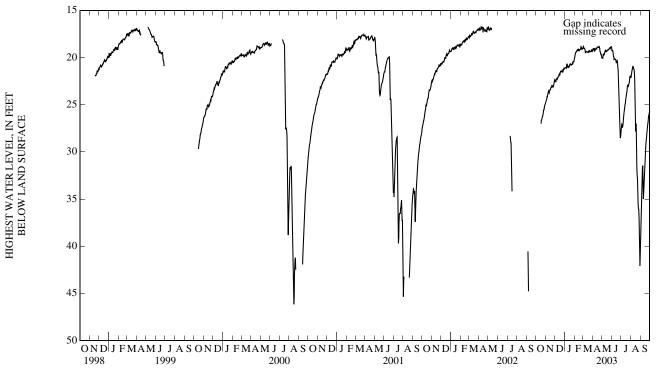
DATUM.--Elevation of land-surface datum is 692.90 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of well casing, 2.6 ft above land-surface datum.

REMARKS.--Water level affected by irrigation pumpage.

PERIOD OF RECORD .-- May 1982 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.08 ft below land-surface datum, May 22, 1983; lowest, 53.41 ft below land-surface datum, Aug. 18, 1988.

	.,											
				HIGHEST V WATER				ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	26.51 25.59 24.90 24.90	24.15 23.54 23.42 23.10 23.09 22.36	22.34 22.09 21.74 21.45 21.33 21.19 21.07	21.06 20.95 20.98 20.69 20.68 20.28	19.46 19.19 19.24 19.15 19.19 19.03	19.04 19.42 19.45 19.27 19.35 19.27	19.14 19.14 18.90 18.89 19.42 20.06	19.59 19.37 19.27 19.17 18.96 18.86	19.53 20.18 20.55 21.03 25.69 28.06	27.44 25.85 24.53 23.34 22.85 22.07	21.28 21.19 26.41 31.67 36.04 39.81 20.94	33.13 34.98 30.91 28.47 26.82 25.68
WTR YR	2003	HIGH 18.83	APR 21									
DAY	OCT	VOV	DEG		YEAR OCT	OBER 2002	TO SEPTE	MBER 2003	i			CED
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	26.87 26.33 25.63	24.75 23.91 23.76 23.44 23.43 23.03	22.57 22.33 22.02 21.75 21.74 21.59	21.41 21.29 21.27 20.95 21.04 20.64	19.78 19.74 19.58 19.46 19.48 19.27	19.19 19.51 19.49 19.60 19.69 19.57	19.76 19.39 19.26 19.04 19.77 20.44	19.98 19.77 19.49 19.65 19.22 19.83	20.23 20.58 21.41 21.98 26.66 28.75	27.76 26.22 24.87 23.92 23.30 22.43	21.81 21.62 28.34 34.02 37.02 42.11	34.01 35.87 31.63 28.95 27.25 26.12
MAX	27.37	25.07	23.25	21.55	20.28	19.82	20.44	20.55	29.42	28.37	42.57	39.81
WTR YR	2003	LOW 42.57	AUG 30									



JASPER COUNTY

405902087141501. Local number, JP 13.

LOCATION.--Lat 40°59′02″, long 87°14′15″, in NW¹/₄NW¹/₄NW¹/₄ sec.9, T.29 N., R.7 W., Jasper County, Hydrologic Unit 07120002, (RENSSELAER, IN quadrangle), 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.

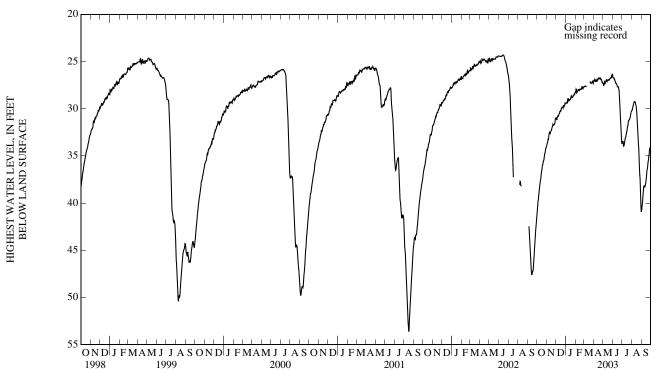
DATUM.--Elevation of land-surface datum is 700 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of well casing, 3.4 ft above land-surface datum.

REMARKS.--Water level 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.

	,											
								ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	39.72 38.12 36.75 35.83 34.83 34.05	33.25 32.51 32.35 31.83 31.70 31.00	30.95 30.61 30.21 29.84 29.69 29.47	29.30 29.07 29.05 28.68 28.62 28.27	28.32 27.97 28.00 27.92 27.96 27.72	27.60 27.17 27.25 27.14	26.94 27.00 26.77 26.73 26.89 27.31	27.16 27.03 26.96 26.90 26.72 26.36	26.79 27.27 27.62 27.92 30.89 33.74	33.98 33.25 32.44 31.56 31.10 30.28	29.67 29.24 29.87 32.38 36.29 40.94	39.42 38.21 37.63 36.26 34.92 33.90
MIN	34.05	31.00	29.41	28.27	27.65	27.04	26.72	26.35	26.71	30.28	29.24	33.90
WTR YR	2003	HIGH 26.35	MAY 30									
								ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	39.92 38.42 37.01 36.00 35.17 34.15	33.58 32.62 32.40 32.01 31.75 31.27	31.08 30.74 30.34 29.93 29.85 29.58 31.32	29.36 29.22 29.13 28.79 28.73 28.49	28.40 28.16 28.19 28.04 28.05 27.80 28.40	27.68 27.30 27.33 27.37 27.80	27.28 27.11 26.98 26.83 27.05 27.47	27.30 27.19 27.09 27.06 26.78 26.71	26.93 27.38 27.77 28.09 31.47 33.85	34.06 33.46 32.66 31.83 31.25 30.36	29.84 29.38 30.24 33.20 36.99 41.05	39.84 38.38 37.90 36.45 35.10 34.06 40.99
WTR YR	2003	LOW 41.46		27.50	20.40	27.00	21.71	21.07	33.03	54.07	71.05	40.77
	2000											



525

GROUND-WATER DATA

JASPER COUNTY

405550087092301. Local number, JP 15.

LOCATION.--Lat 40°55′50″, long 87°09′23″,in SE½, NW½, Sec.30, T.29 N., R.6 W., Jasper County, Hydrologic Unit 07120002, (RENSSELAER, IN quadrangle), at the Peerless Superior Cleaners in the shopping center on the west side of State Highway 231 in Rensselaer. Owner: Department of Natural Resources

AQUIFER .-- Limestone/Dolomite of Silurian/Devonian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 8 in., depth 210 ft, cased to 25 ft, open end.

INSTRUMENTATION .-- Water-level recorder.

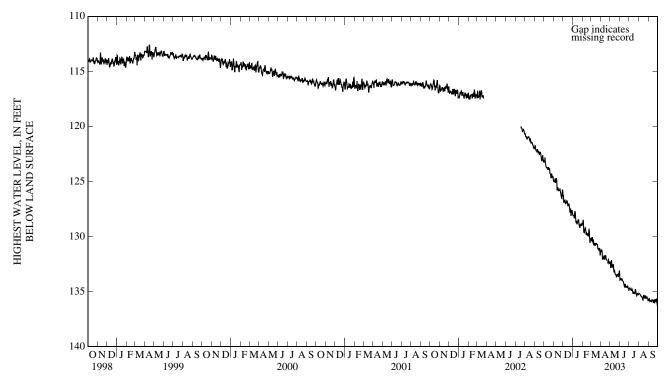
DATUM.--Elevation of land-surface datum is 665 ft above National Geodetic Vertical Datum of 1929 (revised), from topographic map. Measuring point: Top of shelf, 2.00 ft above land-surface datum.

REMARKS.--Water level affected by pumpage.

PERIOD OF RECORD .-- Sept. 1996 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 101.88 ft below land-surface datum, Sept. 9, 1996; lowest, 136.56 ft below land-surface datum, Oct. 2, 2003.

								ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	123.32 123.78 123.71 124.25 124.28 124.86	124.72 124.70 125.61 125.86 126.36 125.81	126.76 126.90 126.93 127.05 127.50 127.81 126.30	128.08 128.25 128.89 128.49 128.90 128.84 127.69	129.53 129.22 129.71 130.00 130.59 130.27	130.10 130.82 130.78 130.72 131.15 131.35	131.34 131.85 131.76 132.14 132.10 132.32	132.16 132.59 133.13 133.47 133.45 133.15	133.97 134.03 134.54 134.65 134.60 134.94	134.80 134.76 135.01 134.91 135.39 135.25	135.29 135.48 135.56 135.52 135.59 135.83	135.90 135.93 135.91 136.08 135.97 136.41
WTR YR	2003	HIGH 122.82		127.09	126.49	130.10	151.25	132.10	155.61	134.08	155.10	155.04
								ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	123.69 123.85 123.86 124.39 124.61 125.00	125.17 125.07 125.91 125.98 126.59 126.53	126.89 127.06 127.19 127.26 128.08 128.07	128.34 128.66 129.01 128.88 129.18 129.05	129.76 129.59 130.12 130.17 130.76 130.37	130.47 130.96 130.81 130.81 131.32 131.72	132.16 132.06 132.00 132.16 132.21 132.58	132.50 132.89 133.34 133.83 133.58 133.93	134.10 134.21 134.60 134.76 134.75 135.04	134.98 134.94 135.13 135.19 135.49 135.33	135.34 135.58 135.80 135.62 135.66 136.03	135.99 136.00 136.00 136.23 136.18 136.54
MAX WTR YR	125.00 2003	126.60 LOW 136.54	128.28 SEP 30	129.39	130.76	131.80	132.62	133.93	135.04	135.49	136.03	136.54



JEFFERSON COUNTY

384949085251901. Local number, JF 5.

LOCATION.--Lat $38^{\circ}49'49''$, long $85^{\circ}25'19''$, in $SE\frac{1}{4}NW\frac{1}{4}SW\frac{1}{4}$ sec. 33, T.5 N., R.10 E., Jefferson County, Hydrologic Unit 05120207, (CLIFTY FALLS, IN quadrangle), 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.

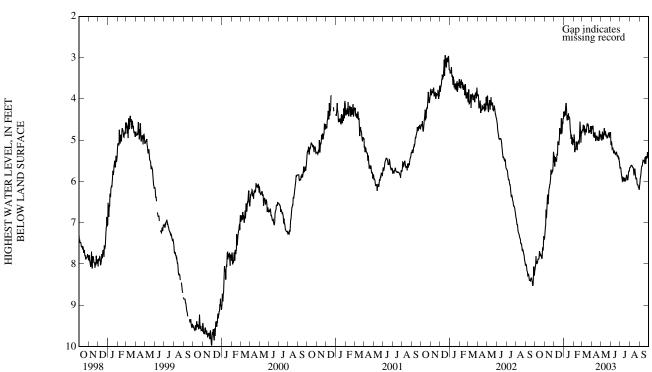
DATUM.--Elevation of land-surface datum is 857.50 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.00 ft above land-surface datum.

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, 2.94 ft below land-surface datum, Dec. 17, 2001; lowest, 10.03 below land-surface datum, Nov. 30, 1999.

						VEL, FEET I ΓOBER 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	8.00 7.90 7.69 7.80 7.60 7.41 7.33	6.68 6.32 6.16 5.91 5.77 5.31	5.41 5.37 5.09 4.78 4.48 4.47	4.29 4.25 4.51 4.47 4.90 4.98	5.29 5.03 5.05 5.03 5.06 4.83 4.55	4.63 4.88 4.73 4.62 4.76 4.78	4.67 4.88 4.92 4.93 4.77 4.87	4.79 4.82 4.80 4.95 4.82 4.81	5.22 5.32 5.33 5.32 5.44 5.67	5.84 5.90 5.92 5.94 5.97 5.69	5.62 5.66 5.77 5.93 6.08 6.20 5.61	5.83 5.60 5.50 5.56 5.44 5.40
WTR YR	2003	HIGH 4.11										
						VEL, FEET I ΓOBER 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	8.18 8.03 7.84 7.89 7.87 7.52	7.16 6.52 6.25 6.13 5.85 5.66	5.57 5.52 5.29 4.89 4.84 4.60	4.40 4.46 4.61 4.62 4.97 5.21	5.37 5.21 5.28 5.17 5.19 4.94	4.77 4.93 4.87 4.77 4.84 4.92	5.02 4.94 5.09 5.04 4.89 5.02	4.89 4.93 4.96 5.01 4.88 5.10	5.30 5.41 5.46 5.39 5.53 5.76	5.90 5.99 6.06 5.98 6.08 5.78	5.65 5.78 5.87 5.96 6.19 6.28	5.94 5.68 5.54 5.68 5.55 5.49
	8.23	7.46	5.81	5.25	5.37	5.00	5.15	5.15	5.76	6.10	6.28	6.21



JENNINGS COUNTY

385601085365701. Local number, JN 3.

LOCATION.--Lat $38^{\circ}56'01''$, long $85^{\circ}36'57''$, in $SE^{1}_{4}SW^{1}_{4}NE^{1}_{4}$ sec.27, T.6 N., R.8 E., Jennings County, Hydrologic Unit 05120207, (VERNON, IN quadrangle), 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.

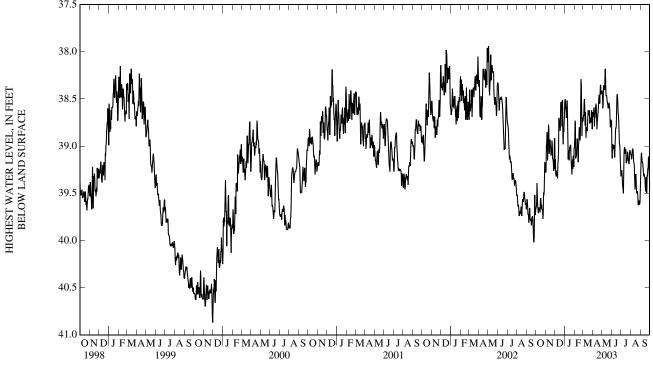
INSTRUMENTATION .-- Water-level recorder.

DATUM.--Elevation of land-surface datum is 718 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of floor of shelter, 3.50 ft above land-surface datum.

PERIOD OF RECORD.--October 1978 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 36.64 ft below land-surface datum, Jan. 2l, 1979; lowest, 40.93 ft below land-surface datum, Nov. 30, 1999.

				HIGHEST V	WATER LEV	VEL, FEET 1	BELOW LA	ND SURFA	CE			
				WATER	YEAR OCT	OBÉR 2002	TO SEPTE	MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	39.53 39.67 39.56 39.67 39.49 39.25	38.85 38.77 38.93 39.08 39.16 38.92	39.26 39.19 38.74 38.53 38.51 38.68	38.58 38.73 39.15 38.99 39.18 39.02	39.13 38.92 38.96 38.88 38.89 38.74	38.50 38.91 38.75 38.63 38.70 38.73	38.59 38.58 38.75 38.50 38.36 38.41	38.36 38.26 38.46 38.60 38.61 38.73	39.03 39.12 38.78 38.55 38.97 39.32	39.41 39.08 39.03 39.16 39.18 39.07	39.06 39.17 39.40 39.50 39.62 39.52	39.13 39.28 39.36 39.49 39.24 39.42
MIN	39.17	38.77	38.51	38.50	38.29	38.50	38.35	38.18	38.45	39.01	39.03	39.07
WTR YR	2003	HIGH 38.18	MAY 11									
								ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	39.73 39.73 39.70 39.71 39.72 39.29	39.10 38.92 39.00 39.20 39.28 39.24	39.32 39.34 38.86 38.57 38.92 38.78	38.70 39.00 39.20 39.10 39.30 39.22	39.23 39.05 39.01 39.00 38.98 38.84	38.61 38.98 38.84 38.72 38.76 38.84	38.90 38.65 38.84 38.58 38.47 38.47	38.56 38.45 38.51 38.66 38.71 39.04	39.10 39.21 38.84 38.64 39.04 39.38	39.47 39.38 39.12 39.21 39.23 39.10	39.13 39.22 39.50 39.53 39.66 39.66	39.18 39.34 39.44 39.58 39.32 39.48
MAX	39.86	39.33	39.53	39.40	39.23	38.98	38.93	39.04	39.38	39.55	39.67	39.59
WTR YR	2003	LOW 39.86	OCT 13									
	37.5	; [11111	1111		1111			 	 	



KNOX COUNTY

383247087361001. Local number, KN 7.

LOCATION.--Lat $38^{\circ}32'47''$, long $87^{\circ}36'10''$, in $SE^{1}_{4}SE^{1}_{4}NW^{1}_{4}$ sec.2, T.1 N., R.11 W., Knox County, Hydrologic Unit 05120113, in (DECKER, IN-IL quadrangle), 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.

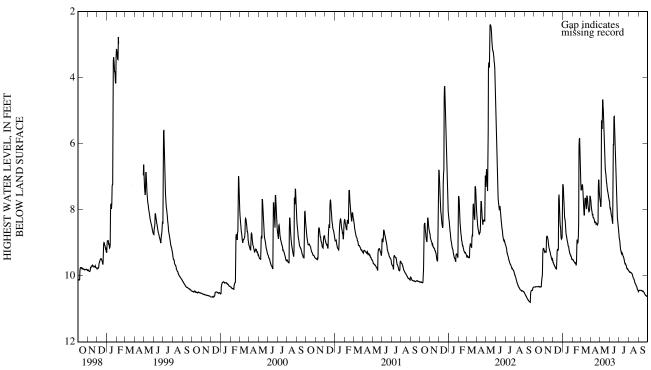
INSTRUMENTATION .-- Water-level recorder. Prior to April 1968, hand-taped monthly.

DATUM.--Elevation of land-surface datum is 405 ft above National Geodetic Vertical Datum of 1929, 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, 2.40 ft below land-surface datum, May 14, 2002; lowest, 11.35 ft below land-surface datum, Feb. 1-13, 1977.

	HIGHEST WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
5 10 15 20 25 EOM	10.34 10.33 10.32 10.33 10.21 9.17	9.26 8.85 8.92 9.24 9.43 9.52 8.80	9.67 9.77 9.20 7.54 8.54 8.02 7.54	7.80 8.52 8.93 9.12 9.35 9.49 7.24	9.56 9.60 9.08 8.80 6.24 7.23 5.83	7.23 8.09 7.67 7.57 8.03 7.66 7.23	8.08 8.24 8.38 8.42 7.28 7.67	5.32 4.84 6.39 7.01 7.45 7.74 4.66	8.13 8.42 5.17 7.45 8.25 8.75 5.17	9.19 9.30 9.44 9.64 9.76 9.84 8.86	9.89 9.92 10.06 10.20 10.31 10.46 9.85	10.44 10.45 10.46 10.53 10.60 10.59		
WTR YR	2003	HIGH 4.66	MAY 9											
								ND SURFACEMBER 2003						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
5 10 15 20 25 EOM	10.34 10.33 10.33 10.34 10.33 9.19	9.33 9.27 9.03 9.26 9.48 9.60	9.70 9.78 9.25 7.73 8.77 8.86	8.05 8.66 8.97 9.20 9.37 9.51	9.58 9.64 9.56 8.98 6.52 7.45	7.34 8.17 7.81 7.64 8.11 7.72	8.23 8.27 8.42 8.46 8.40 7.72	7.69 5.04 6.58 7.15 7.50 7.92	8.18 8.46 5.72 7.64 8.34 8.86	9.23 9.36 9.48 9.64 9.79 9.85	9.90 9.94 10.08 10.23 10.33 10.48	10.45 10.45 10.47 10.56 10.61		
MAX	10.35	9.60	9.81	9.51	9.68	8.26	8.49	7.99	8.86	9.85	10.48	10.63		
WTR YR	2003	LOW 10.63	SEP 28											
		2												



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, (BICKNELL, IN quadrangle), 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.

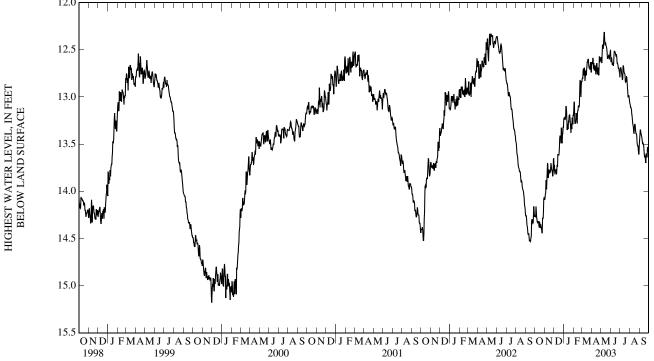
INSTRUMENTATION .-- Water-level recorder.

DATUM.--Elevation of land-surface datum is 460 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 3.50 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 11.86 ft below land-surface datum, Jan. 28, 1994; lowest, 15.32 ft below land-surface datum, Oct. 19, 1991.

MAX WTR YR	14.48 2003 12.0	14.13 LOW 14.48	13.92 OCT 24	13.41	13.31	12.87	12.79	12.70	12.82	13.08	13.66	13.75
5 10 15 20 25 EOM	14.32 14.35 14.38 14.39 14.44 14.10	14.04 13.81 13.81 13.84 13.84 13.80	13.83 13.82 13.67 13.45 13.45 13.36	13.24 13.27 13.36 13.22 13.38 13.30	13.31 13.24 13.20 13.14 13.05 12.86	12.73 12.85 12.77 12.63 12.71 12.76	12.74 12.72 12.77 12.76 12.70 12.62	12.56 12.42 12.46 12.59 12.58 12.62	12.69 12.73 12.58 12.64 12.73 12.82	12.77 12.81 12.77 12.86 13.01 13.08	13.14 13.33 13.39 13.40 13.54 13.66	13.42 13.51 13.61 13.74 13.69 13.66
DAY	ОСТ	NOV	DEC					ND SURFA MBER 2003 MAY		JUL	AUG	SEP
MIN WTR YR	14.07 2003	13.65 HIGH 12.31	13.32 1 MAY 11	13.10	12.82	12.60	12.57	12.31	12.51	12.67	13.07	13.35
5 10 15 20 25 EOM	14.21 14.32 14.32 14.37 14.28 14.08	13.88 13.70 13.77 13.76 13.78 13.65	13.78 13.76 13.61 13.41 13.33 13.32	13.21 13.15 13.34 13.19 13.30 13.19	13.24 13.17 13.14 13.09 13.00 12.84	12.70 12.83 12.72 12.60 12.68 12.68	12.59 12.69 12.72 12.71 12.57 12.58	12.45 12.34 12.42 12.53 12.56 12.50	12.65 12.64 12.53 12.58 12.70 12.79	12.74 12.67 12.75 12.84 12.96 13.05	13.12 13.28 13.34 13.38 13.51 13.51	13.38 13.48 13.56 13.68 13.64 13.62
DAY	ОСТ	NOV	DEC					ND SURFA MBER 2003 MAY		JUL	AUG	SEP



KOSCIUSKO COUNTY

412556085513401. Local number, KO 9.

LOCATION.--Lat $41^{\circ}25'56''$, long $85^{\circ}51'34''$, in $SW^{1}_{4}NE^{1}_{4}NW^{1}_{4}$ sec.5, T.34 N., R.6 E., Kosciusko County, Hydrologic Unit 04050001, (MILFORD, IN quadrangle), 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.

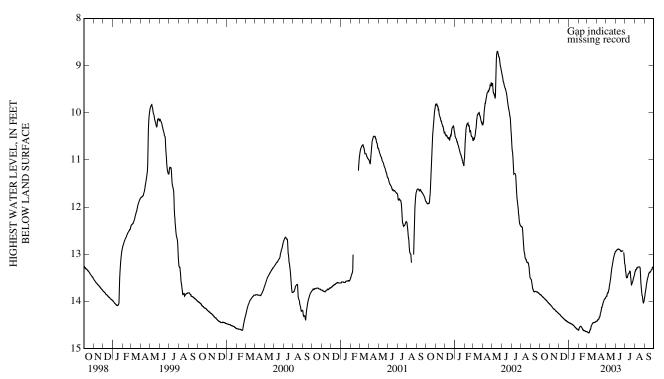
DATUM.--Elevation of land-surface datum is 830.90 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.2 ft above land-surface datum.

REMARKS .-- Water level slightly affected by irrigation pumpage.

PERIOD OF RECORD.--October 1982 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.24 ft below land-surface datum, Apr. 8, 9, 1985; lowest, 14.70 ft below land-surface datum, Mar. 8, 2003.

								ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	13.87 13.91 13.94 13.97 14.01 14.05	14.09 14.13 14.17 14.20 14.23 14.26	14.29 14.33 14.36 14.39 14.42 14.45	14.46 14.48 14.50 14.54 14.57 14.61	14.55 14.54 14.59 14.62 14.64 14.53	14.66 14.62 14.51 14.46 14.45 14.42	14.39 14.33 14.19 14.06 13.96 13.91	13.82 13.75 13.52 13.26 13.07 12.94	12.91 12.89 12.92 12.94 13.21 12.89	13.50 13.43 13.36 13.60 13.58 13.42	13.33 13.29 13.27 13.59 13.89 13.96	13.74 13.53 13.40 13.38 13.32 13.27
IVIIIN	13.63	14.00	14.27	14.43	14.33	14.42	13.91	12.94	12.09	13.20	13.27	13.27
WTR YR	2003	HIGH 12.89	JUN 8									
								ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	13.88 13.91 13.95 13.98 14.02 14.06	14.10 14.14 14.17 14.21 14.24 14.27	14.30 14.34 14.37 14.40 14.42 14.45	14.47 14.48 14.51 14.55 14.58 14.61	14.56 14.55 14.61 14.63 14.64 14.65	14.68 14.63 14.53 14.46 14.45 14.43	14.40 14.33 14.22 14.09 13.98 13.93	13.85 13.76 13.56 13.30 13.10 12.95	12.91 12.90 12.93 12.95 13.26	13.50 13.46 13.39 13.67 13.60 13.46	13.33 13.29 13.27 13.68 13.96 14.01	13.78 13.57 13.42 13.38 13.32 13.27
MAX	14.06	14.27	14.45	14.61	14.65	14.70	14.42	13.91	13.26	13.67	14.03	13.96
WTR YR	2003	LOW 14.70										



LAGRANGE COUNTY

414318085200601. Local number, LG 2.

LOCATION.--Lat $41^{\circ}43'18''$, long $85^{\circ}20'06''$, in SW $^{1}_{4}$ SE $^{1}_{4}$ NE $^{1}_{4}$ sec.26, T.38 N., R.10 E., Lagrange County, Hydrologic Unit 04050001, (MONGO, IN quadrangle), 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.

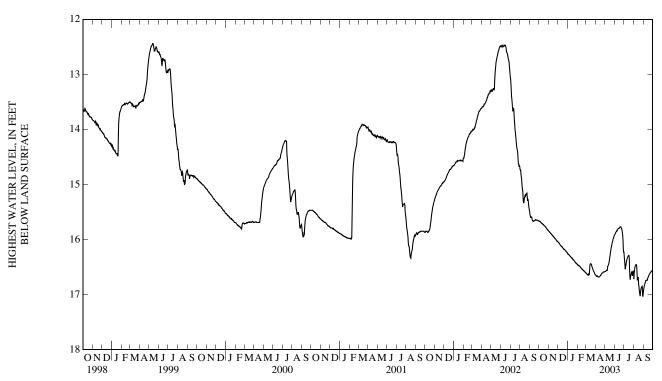
DATUM.--Elevation of land-surface datum is 911.02 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of floor of shelter, 3.0 ft above land-surface datum.

REMARKS.--Water level slightly affected by irrigation pumpage.

PERIOD OF RECORD .-- May 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 10.00 ft below land-surface datum, July 1, 2, 1993; lowest, 17.09 ft below land-surface datum, Aug. 29-30, 2003.

U												
								ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	15.68 15.71 15.73 15.76 15.80 15.84	15.87 15.91 15.94 15.98 16.01 16.04	16.07 16.11 16.14 16.18 16.21 16.25	16.28 16.31 16.34 16.38 16.41 16.45	16.47 16.50 16.53 16.56 16.59 16.61	16.64 16.64 16.44 16.50 16.58 16.64	16.66 16.68 16.66 16.62 16.59 16.58	16.56 16.48 16.35 16.16 16.03 15.92	15.86 15.82 15.79 15.77 15.88 16.23	16.51 16.36 16.29 16.73 16.59 16.62	16.49 16.49 16.69 17.00 16.87 16.97	16.81 16.74 16.69 16.63 16.59 16.56
MIN	15.67	15.85	16.05	16.25	16.46	16.44	16.58	15.92	15.77	16.29	16.46	16.56
WTR YR	2003	HIGH 15.67	OCT 1									
								ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	15.69 15.71 15.74 15.77 15.81 15.85	15.88 15.91 15.95 15.98 16.02 16.05	16.08 16.12 16.15 16.18 16.21 16.25	16.29 16.32 16.35 16.38 16.42 16.46	16.48 16.51 16.55 16.57 16.59 16.62	16.65 16.65 16.45 16.51 16.59 16.65	16.67 16.69 16.67 16.63 16.60 16.59	16.57 16.49 16.39 16.20 16.05 15.93	15.87 15.83 15.80 15.78 15.93 16.31	16.54 16.38 16.30 16.78 16.61 16.73	16.51 16.61 16.82 17.03 16.89 17.03	16.83 16.75 16.71 16.64 16.59 16.57
				10.40	10.02	10.07	10.09	10.50	10.31	10.76	17.09	10.57
WTR YR	2003	LOW 17.09	AUG 29									



HIGHEST WATER LEVEL, IN FEET BELOW LAND SURFACE

LAGRANGE COUNTY

414158085253401. Local number, LG 3.

LOCATION.--Lat 41°41′58″, long 85°25′34″, in SE¹/₄SE¹/₄SE¹/₄sec.36, T.38 N., R.9 E., Lagrange County, Hydrologic Unit 04050001, (LAGRANGE, IN quadrangle), 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.

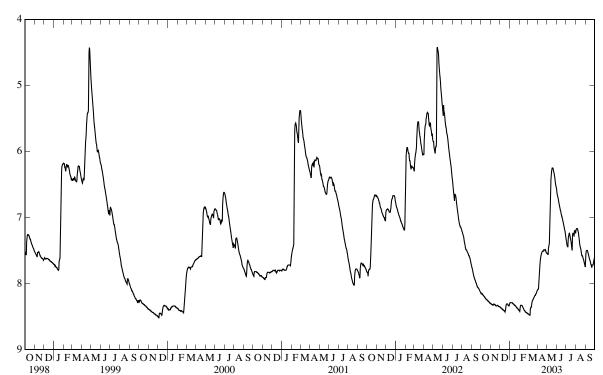
DATUM.--Elevation of land-surface datum is 870 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of floor of shelter, 3.7 ft above land-surface datum.

REMARKS.--Water level slightly affected by irrigation pumpage.

PERIOD OF RECORD .-- June 1981 to October 2003 (discontinued).

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.

1 '												
						VEL, FEET 1 ΓOBER 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	8.16 8.19 8.22 8.25 8.27 8.30 8.15	8.32 8.32 8.32 8.34 8.34 8.35	8.37 8.40 8.42 8.34 8.31 8.32	8.29 8.30 8.32 8.34 8.37 8.41	8.33 8.34 8.39 8.43 8.45 8.46	8.48 8.36 8.26 8.21 8.16 8.10	7.92 7.61 7.52 7.49 7.49 7.54	7.46 6.84 6.30 6.26 6.39 6.56	6.71 6.84 6.95 7.05 7.17 7.31 6.62	7.43 7.25 7.33 7.50 7.26 7.24	7.17 7.27 7.45 7.58 7.63 7.75	7.50 7.56 7.65 7.74 7.72 7.60 7.50
WTR YR	2003	HIGH 6.25 N		0.2)	0.55	0.10	7.47	0.23	0.02	7.20	7.17	7.50
						VEL, FEET I TOBER 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	8.17 8.20 8.23 8.25 8.28 8.30	8.32 8.34 8.33 8.35 8.35 8.36	8.38 8.40 8.42 8.38 8.32 8.34	8.29 8.30 8.33 8.35 8.38 8.41	8.34 8.35 8.40 8.43 8.45 8.46	8.48 8.37 8.27 8.22 8.18 8.11	8.00 7.65 7.53 7.51 7.50 7.56	7.56 7.06 6.36 6.29 6.43 6.62	6.74 6.86 6.98 7.07 7.19 7.34	7.45 7.28 7.36 7.52 7.29 7.26	7.17 7.31 7.47 7.61 7.65 7.77	7.50 7.58 7.67 7.76 7.73 7.62
MAX	8.30	8.36	8.43	8.41	8.46	8.49	8.10	7.57	7.34	7.52	7.77	7.77
WTR YR	2003	LOW 8.49 N	AAR /									



LAKE COUNTY

411038087284701. Local number, LK 12.

LOCATION.--Lat 41°10'38", long 87°28'47", in $SW^{1}_{4}NE^{1}_{4}SW^{1}_{4}$ sec.32, T.32 N., R.9 W., Lake County, Hydrologic Unit 07120001, (SCHNEIDER, IN quadrangle), 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.

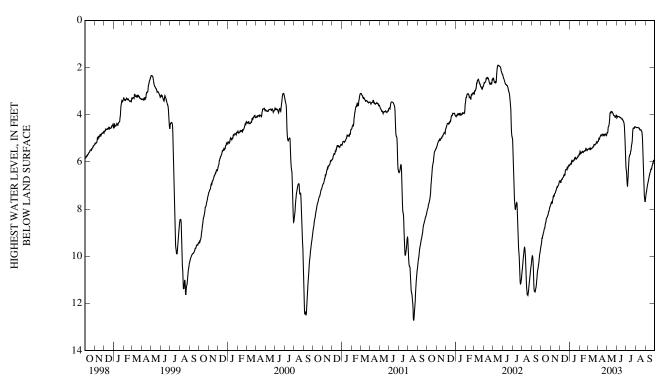
DATUM.--Elevation of land-surface datum is 630.59 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of floor of shelter, 2.55 ft above land-surface datum.

REMARKS.--Water level affected by pumpage.

PERIOD OF RECORD.--March 1967 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.15 ft below land-surface datum, Jan. 12, 1973; lowest, 17.92 ft below land-surface datum, Aug. 27, 1988.

				HIGHEST V	WATER LE	VEL, FEET I	BELOW LA	ND SURFA	CE			
				WATER	YEAR OCT	ГОBÉR 2002	TO SEPTE	MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.26	7.72	6.78	6.06	5.66	5.43	5.04	4.51	4.08	7.05	4.55	7.15
10	8.94	7.44	6.67	5.98	5.56	5.47	4.89	3.95	4.11	5.85	4.57	6.80
15	8.62	7.33	6.54	5.92	5.56	5.41	4.83	3.86	4.17	5.55	4.64	6.47
20	8.37	7.13	6.32	5.84	5.52	5.26	4.83	3.95	4.23	5.15	4.71	6.31
25	8.12	7.02	6.22	5.81	5.54	5.25	4.82	4.05	4.50	4.56	6.35	6.06
EOM	7.87	6.81	6.16	5.68	5.48	5.16	4.80	4.03	6.19	4.53	7.68	5.93
MIN	7.87	6.81	6.13	5.68	5.43	5.16	4.80	3.86	4.07	4.51	4.53	5.93
WTR YR	2003	HIGH 3.86 N	MAY 14									
						VEL, FEET I FOBER 2002						
				WITTER	1 Li IK OCI	OBER 2002	TO SEL TE	AVIDER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.39	7.88	6.85	6.09	5.70	5.49	5.17	4.55	4.13	7.18	4.64	7.25
10	9.03	7.48	6.73	6.01	5.65	5.56	4.96	4.13	4.19	6.07	4.63	6.87
15	8.72	7.46	6.59	5.94	5.61	5.51	4.90	3.91	4.20	5.69	4.67	6.53
20	8.47	7.21	6.36	5.95	5.57	5.35	4.89	4.03	4.28	5.23	4.83	6.44
25	8.21	7.09	6.27	5.85	5.59	5.27	4.86	4.11	4.80	4.60	6.85	6.11
EOM	7.95	6.91	6.18	5.75	5.53	5.26	4.90	4.21	6.40	4.61	7.79	5.98
MAX	9.66	7.93	6.98	6.19	5.77	5.56	5.19	4.81	6.40	7.18	7.85	7.68



HIGHEST WATER LEVEL, IN FEET BELOW LAND SURFACE

LAKE COUNTY

413559087270301. Local number, LK 13.

LOCATION.--Lat $41^{\circ}35'59''$, long $87^{\circ}27'03''$, in $SW^{1}_{4}NW^{1}_{4}SW^{1}_{4}$ sec.3, T.36 N., R.9 W., Lake County, Hydrologic Unit 04040001, (HIGHLAND, IN quadrangle), 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.

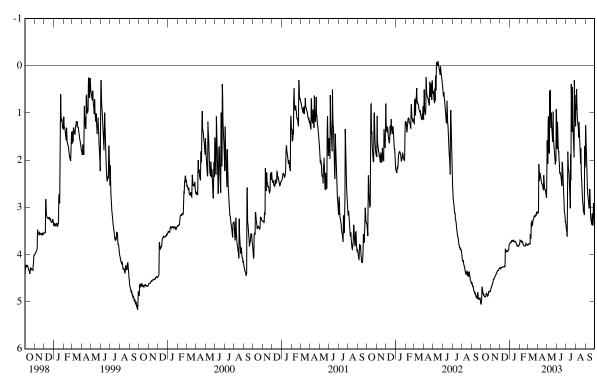
INSTRUMENTATION .-- Water-level recorder.

DATUM.--Elevation of land-surface datum is 591.91 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.33 ft above land-surface datum.

PERIOD OF RECORD .-- July 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.10 ft above land-surface datum, May 16, 2002: lowest, 5.23 ft below land-surface datum, Sept. 26, 27, 1999.

						VEL, FEET I OBER 2002			CE			
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	4.71 4.84 4.90 4.85 4.79 4.78	4.65 4.52 4.47 4.40 4.34 4.29	4.28 4.27 4.25 3.92 3.92 3.78 3.78	3.74 3.71 3.73 3.73 3.80 3.80	3.72 3.73 3.81 3.82 3.80 3.80 3.70	3.77 3.64 3.37 3.18 3.16 3.10	2.14 2.37 2.52 2.32 2.63 2.02	1.07 1.04 1.20 0.97 1.91 1.06	1.69 2.27 2.42 2.42 3.10 3.37	2.20 2.27 1.87 1.40 1.68 1.28	1.02 1.52 1.94 2.50 3.09 2.09	2.25 2.85 2.68 3.35 3.38 3.36
WTR YR	2003	HIGH 0.30	JUL 27									
						VEL, FEET E OBER 2002			CE			
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	4.81 4.95 4.95 4.89 4.86 4.79	4.68 4.55 4.48 4.41 4.34 4.30	4.28 4.27 4.26 3.94 3.94 3.79	3.75 3.72 3.74 3.76 3.81 3.82	3.74 3.76 3.84 3.84 3.82 3.81	3.80 3.65 3.41 3.24 3.21 3.13	2.44 2.40 2.54 2.63 2.68 2.82	1.60 1.35 1.36 1.68 2.00 1.59	1.88 2.28 2.53 2.66 3.37 3.60	3.74 2.58 3.19 1.68 2.00 1.56	1.19 1.77 2.14 2.83 3.33 2.61	2.47 3.01 3.00 3.49 3.49 3.48
MAX	5.14	4.78	4.30	3.86	3.84	3.81	3.16	2.21	3.60	3.86	3.44	3.56
WTR YR	2003	LOW 5.14	OCT 1									



LAKE COUNTY

411146087204101. Local number, LK 14.

LOCATION.--Lat $41^{\circ}11'46''$, long $87^{\circ}20'41''$, in $SE^{1}_{4}SE^{1}_{4}NW^{1}_{4}$ sec. 28, T.32 N., R.8 W., Lake County, Hydrologic Unit 07120001, (SHELBY, IN quadrangle), 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.

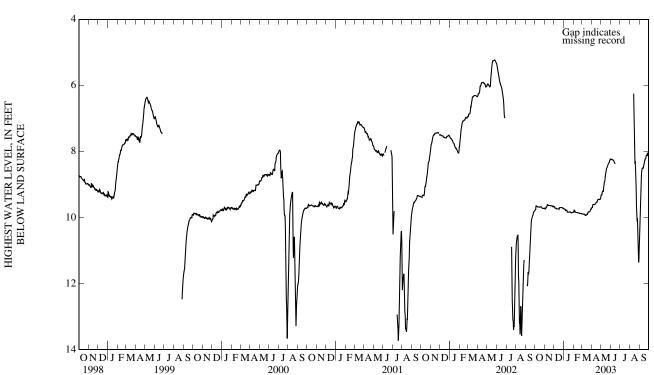
DATUM.--Elevation of land-surface datum is 641 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 3.50 ft above land-surface datum.

REMARKS .-- Water level affected by irrigation pumpage.

PERIOD OF RECORD .-- July 1989 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.70 ft below land-surface datum, May 11, 12, 1998; lowest, 22.86 ft below land-surface datum, July 28, 1991.

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			1			VEL, FEET 1 FOBER 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.65	9.69	9.72	9.75	9.81	9.90	9.61	9.20	8.24			9.11
10	9.68	9.61	9.74	9.78	9.85	9.92	9.61	9.01	8.28			8.50
15	9.69	9.64	9.74	9.84	9.86	9.92	9.55	8.69	8.38		7.54	8.39
20	9.68	9.64	9.70	9.83	9.87	9.84	9.46	8.48			8.86	8.23
25	9.73	9.65	9.70	9.86	9.88	9.82	9.45	8.35			10.02	8.12
EOM	9.72	9.66	9.72	9.84	9.89	9.73	9.37	8.23			10.80	8.15
MIN	9.65	9.61	9.67	9.74	9.78	9.73	9.37	8.23	8.24		6.25	8.06
WTR YR	2003	HIGH 6.25	AUG 13									
						VEL, FEET I ΓOBER 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.66	9.74	9.72	9.76	9.81	9.90	9.61	9.25	8.25			9.37
10	9.68	9.62	9.74	9.78	9.85	9.94	9.61	9.09	8.30			8.53
15	9.70	9.64	9.74	9.84	9.86	9.93	9.56	8.75	8.41		7.87	8.43
20	9.68	9.65	9.70	9.83	9.88	9.88	9.51	8.50			9.12	8.24
25	9.73	9.67	9.70	9.86	9.88	9.83	9.46	8.37			10.22	8.14
EOM	9.72	9.67	9.74	9.85	9.89	9.75	9.44	8.24			11.22	8.18
MAX	9.79	9.74	9.75	9.86	9.89	9.94	9.73	9.37	8.41		11.55	10.80
WTR YR	2003	LOW 11.55	AUG 29									



HIGHEST WATER LEVEL, IN FEET BELOW LAND SURFACE

LAPORTE COUNTY

412350086512801. Local number, LP 9.

LOCATION.--Lat $41^{\circ}23'50''$, long $86^{\circ}51'28''$, in $SE^{1}_{4}SW^{1}_{4}NE^{1}_{4}$ sec.15, T.34 N., R.4 W., LaPorte County, Hydrologic Unit 07120001, (HANNA, IN quadrangle), 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 water-table well, diameter 6 in., depth 32 ft, cased to 27 ft, screened to 32 ft.

INSTRUMENTATION .-- Water-level recorder.

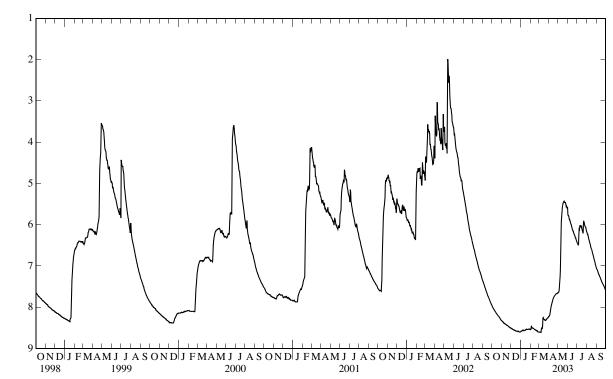
DATUM.--Elevation of land-surface datum is 706.81 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of floor of shelter, 1.60 ft above land-surface datum.

REMARKS .-- Water level slightly affected by irrigation pumpage

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, 8.62 ft below land-surface datum, Mar. 6, 7-8, 2003.

	,											
								AND SURFA EMBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	8.03 8.09 8.15 8.20 8.25 8.32	8.36 8.39 8.42 8.44 8.50	8.53 8.55 8.57 8.58 8.58 8.60	8.57 8.56 8.56 8.53 8.53 8.53	8.48 8.51 8.54 8.57 8.60 8.60	8.61 8.50 8.27 8.31 8.29 8.23	8.14 7.93 7.79 7.72 7.67 7.65	7.45 6.13 5.54 5.43 5.48 5.58	5.85 5.96 6.11 6.21 6.32 6.42	6.48 6.02 6.05 6.21 6.02 6.16	6.28 6.43 6.58 6.71 6.86 7.04	7.14 7.24 7.33 7.42 7.50 7.59
MIN	7.96	8.33	8.51	8.53	8.45	8.23	7.65	5.43	5.75	5.92	6.18	7.06
WTR YR	2003	HIGH 5.43	MAY 20									
								ND SURFACEMBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	8.04 8.10 8.16 8.21 8.26 8.33	8.36 8.40 8.43 8.45 8.49 8.51	8.53 8.55 8.57 8.58 8.59 8.60	8.57 8.57 8.56 8.54 8.54 8.54	8.50 8.52 8.55 8.58 8.60 8.60	8.61 8.51 8.29 8.32 8.30 8.25	8.19 7.96 7.81 7.73 7.68 7.66	7.59 6.44 5.60 5.50 5.54 5.75	5.88 5.99 6.13 6.23 6.33 6.44	6.53 6.05 6.10 6.22 6.04 6.19	6.31 6.46 6.60 6.74 6.90 7.06	7.16 7.25 7.35 7.44 7.52 7.60
MAX	8.33	8.51	8.60	8.60	8.60	8.62	8.23	7.65	6.44	6.53	7.06	7.60
WTR YR	2003	LOW 8.62 I	MAR 6									



LAPORTE COUNTY

413139086341401. Local number, LP 10.

LOCATION.--Lat $41^{\circ}31'40''$, long $86^{\circ}34'10''$, in $SE^{1}_{4}SW^{1}_{4}NE^{1}_{4}$ sec. 31, T.36 N., R.1 W., LaPorte County, Hydrologic Unit 07120001, (STILLWELL, IN quadrangle), 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.

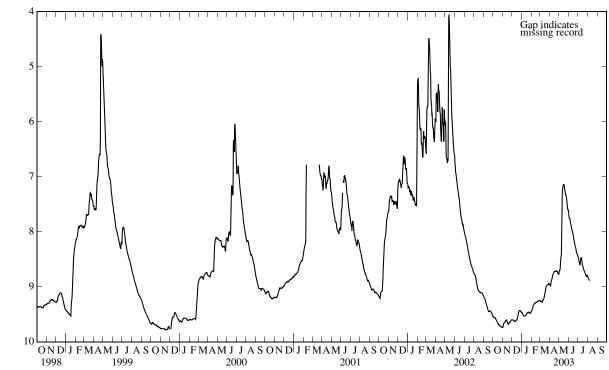
HIGHEST WATER LEVEL, IN FEET BELOW LAND SURFACE

DATUM.--Elevation of land-surface datum is 695 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of floor of shelter, 3.60 ft above land-surface datum.

PERIOD OF RECORD.--August 1980 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.65 ft below land-surface datum, Dec. 29, 1990; lowest, 9.78 ft below land-surface datum, Nov. 16-24, 1999.

								AND SURFA EMBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.56	9.66	9.61	9.51	9.38	9.27	8.91	8.56	7.80	8.58	8.88	
10	9.59	9.62	9.63	9.53	9.31	9.24	8.80	7.43	7.95	8.47		
15	9.65	9.63	9.60	9.51	9.29	9.16	8.72	7.14	8.07	8.62		
20	9.69	9.68	9.53	9.47	9.27	9.00	8.71	7.27	8.23	8.71		
25	9.72	9.63	9.43	9.47	9.25	8.96	8.72	7.41	8.36	8.79		
EOM	9.74	9.60	9.46	9.45	9.25	8.95	8.77	7.62	8.45	8.80		
MIN	9.54	9.60	9.43	9.45	9.25	8.94	8.71	7.14	7.72	8.47	8.82	
WTR YR	2003	HIGH 7.14 I	MAY 15									
								ND SURFACEMBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.56	9.68	9.61	9.52	9.40	9.27	8.96	8.68	7.84	8.60	8.89	
10	9.60	9.64	9.63	9.53	9.32	9.25	8.83	7.73	7.96	8.49		
15	9.66	9.64	9.61	9.52	9.29	9.19	8.74	7.16	8.11	8.63		
20	9.70	9.68	9.55	9.47	9.28	9.03	8.72	7.34	8.25	8.72		
25	9.72	9.64	9.43	9.47	9.26	8.96	8.74	7.47	8.39	8.80		
EOM	9.74	9.60	9.46	9.47	9.26	8.96	8.79	7.72	8.47	8.82		
MAX	9.74	9.74	9.63	9.53	9.45	9.28	9.00	8.77	8.47	8.82	8.90	
WTR YR	2003	LOW 9.74 C	OCT 29									
	2	1	 							1 1 1	Gap indicat missing rec	es ord



LAPORTE COUNTY

412839086533101. Local number, LP 11.

LOCATION.--Lat $41^{\circ}28'39''$, long $86^{\circ}53'31''$, in $SW^{1}_{4}SW^{1}_{4}SW^{1}_{4}$ sec.16, T.35 N., R.4 W., LaPorte County, Hydrologic Unit 07120001, (WANATAH, IN quadrangle), 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.

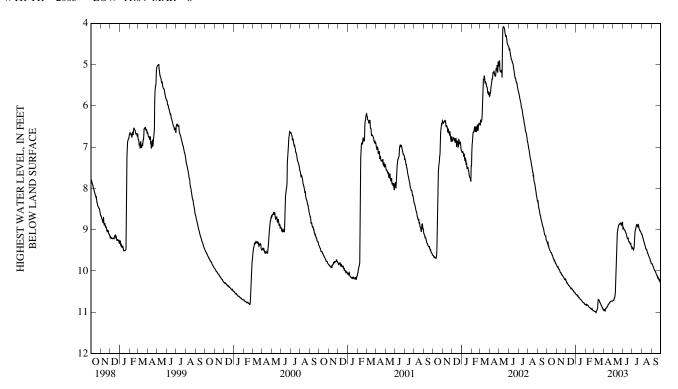
DATUM.--Elevation of land-surface datum is 760 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of floor of shelter, 4.1 ft above land-surface datum.

REMARKS .-- Water level may be affected by pumpage.

PERIOD OF RECORD .-- June 1981 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.82 ft below land-surface datum, Dec. 30, 1990; lowest, 11.04 ft below land-surface datum, Mar. 8, 2003.

,												
								ND SURFA				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	9.40 9.49 9.56 9.67 9.74 9.85	9.90 9.97 10.05 10.12 10.18 10.22	10.29 10.35 10.40 10.43 10.48 10.55	10.58 10.63 10.68 10.72 10.77 10.81	10.81 10.84 10.89 10.93 10.96 10.97	10.99 10.95 10.69 10.77 10.85 10.93	10.96 10.89 10.81 10.76 10.73 10.72	10.66 9.92 9.03 8.87 8.85 8.82	9.00 9.06 9.21 9.29 9.33 9.45	9.49 9.05 8.87 8.89 9.02 9.11	9.22 9.36 9.47 9.58 9.68 9.82 9.11	9.88 9.97 10.05 10.15 10.22 10.29 9.82
WTR YR	2003	HIGH 8.82		10.50	10.01	10.07	10.72	0.02	0.75	0.07	<i>y.</i> .11	7.02
				WATER	YEAR OCT	OBER 2002	TO SEPTE	ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	9.42 9.51 9.59 9.69 9.76 9.87	9.93 10.00 10.08 10.13 10.20 10.25	10.31 10.36 10.42 10.45 10.51 10.56	10.60 10.65 10.69 10.73 10.77	10.83 10.86 10.90 10.93 10.96 10.98	11.00 10.98 10.70 10.78 10.87 10.95	10.97 10.90 10.83 10.78 10.73 10.73	10.69 10.28 9.10 8.92 8.88 8.98	9.03 9.11 9.23 9.31 9.37 9.45	9.52 9.16 8.92 8.93 9.05 9.13	9.25 9.38 9.49 9.59 9.71 9.82	9.89 9.99 10.07 10.17 10.24 10.31
MAX	9.87	10.25	10.56	10.81	10.98	11.04	10.98	10.73	9.45	9.52	9.82	10.31
WTR YR	2003	LOW 11.04	MAR 8									



LAPORTE COUNTY

413434086434701. Local number, LP 12.

LOCATION.--Lat 41°34'34", long 86°43'47", in NE 1 /₄NE 1 /₄NE 1 /₄NW 1 /₄ sec.14, T.36 N., R.3 W., LaPorte County, Hydrologic Unit 07120001, (LAPORTE EAST, IN quadrangle), on County Road 150 West, at LaPorte Municipal Airport, 1.6 mi south of LaPorte. 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.

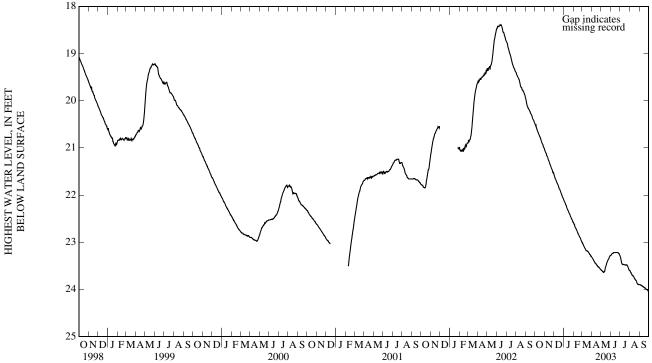
DATUM.--Elevation of land-surface datum is 805 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of floor of shelter, 3.70 ft above land-surface datum.

REMARKS .-- Water level may be affected by pumpage.

PERIOD OF RECORD .-- July 1981 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.96 ft below land-surface datum, Jan. 16, 1991; lowest, 24.10 ft below land-surface datum, Oct. 8, 2003.

				HIGHEST V WATER		VEL, FEET 1 OBER 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	20.57 20.66 20.74 20.83 20.92 21.02	21.11 21.19 21.29 21.38 21.47 21.54	21.65 21.73 21.81 21.89 21.98 22.08	22.16 22.25 22.33 22.40 22.49 22.58	22.65 22.72 22.80 22.88 22.95 22.99	23.06 23.13 23.18 23.20 23.26 23.31	23.36 23.42 23.46 23.52 23.54 23.58	23.62 23.64 23.53 23.43 23.35 23.28	23.24 23.22 23.22 23.22 23.23 23.28	23.43 23.47 23.48 23.49 23.51 23.60	23.65 23.71 23.76 23.81 23.88 23.90	23.91 23.93 23.96 23.98 24.01 24.04
MIN	20.49	21.05	21.57	22.10	22.58	23.01	23.32	23.28	23.22	23.30	23.60	23.90
WTR YR	2003	HIGH 20.49	OCT 1									
				LOWEST W WATER		VEL, FEET I OBER 2002						
DAY	ОСТ	NOV	DEC							JUL	AUG	SEP
DAY 5 10 15 20 25 EOM	OCT 20.59 20.67 20.76 20.85 20.93 21.05	NOV 21.12 21.21 21.31 21.40 21.50 21.58	DEC 21.67 21.75 21.84 21.91 22.01 22.10	WATER	YEAR OCT	OBER 2002	TO SEPTE	MBER 2003	}	JUL 23.45 23.47 23.48 23.49 23.53 23.60	AUG 23.67 23.71 23.78 23.81 23.89 23.90	SEP 23.91 23.94 23.96 23.99 24.01 24.04
5 10 15 20 25	20.59 20.67 20.76 20.85 20.93	21.12 21.21 21.31 21.40 21.50	21.67 21.75 21.84 21.91 22.01	WATER JAN 22.18 22.27 22.35 22.42 22.50	YEAR OCT FEB 22.67 22.74 22.82 22.89 22.96	MAR 23.08 23.14 23.18 23.21 23.26	APR 23.38 23.44 23.48 23.53 23.55	MBER 2003 MAY 23.62 23.65 23.55 23.44 23.36	JUN 23.25 23.23 23.22 23.22 23.22 23.24	23.45 23.47 23.48 23.49 23.53	23.67 23.71 23.78 23.81 23.89	23.91 23.94 23.96 23.99 24.01
5 10 15 20 25 EOM	20.59 20.67 20.76 20.85 20.93 21.05	21.12 21.21 21.31 21.40 21.50 21.58	21.67 21.75 21.84 21.91 22.01 22.10	WATER JAN 22.18 22.27 22.35 22.42 22.50 22.58	YEAR OCT FEB 22.67 22.74 22.82 22.89 22.96 23.01	MAR 23.08 23.14 23.18 23.21 23.26 23.32	APR 23.38 23.44 23.48 23.53 23.55 23.59	MBER 2003 MAY 23.62 23.65 23.55 23.44 23.36 23.29	JUN 23.25 23.23 23.22 23.22 23.24 23.30	23.45 23.47 23.48 23.49 23.53 23.60	23.67 23.71 23.78 23.81 23.89 23.90	23.91 23.94 23.96 23.99 24.01 24.04



393855086120701. Local number, MA 34.

LOCATION.--Lat 39°38'55", long 86°12'07", in $NE_4^1NW_4^1NE_4^1$ sec.21, T.14 N., R.3 E., Marion County, Hydrologic Unit 05120201, (MAYWOOD, IN quadrangle), 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.

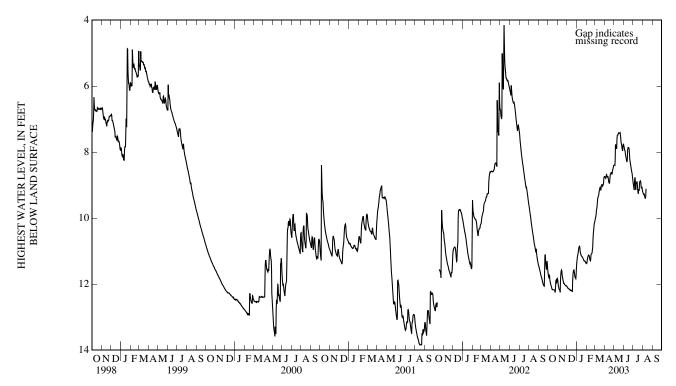
DATUM.--Elevation of land-surface datum is 670.73 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.70 ft above land-surface datum.

REMARKS.--Water level affected by pumpage from water-supply well field.

PERIOD OF RECORD .-- July 1986 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.55 ft below land-surface datum, Nov. 17, 1993; lowest, 13.86 ft below land-surface datum, Aug. 18, 2001. An artificially created extreme of the lowest water level, 17.32 ft below land-surface datum, June 6-8, 9, 1998 was recorded during underground drainage construction in the vicinity immediately surrounding the well.

								AND SURFA EMBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	11.71 12.02 12.16 12.17 12.08 11.83	12.14 11.87 11.71 11.97 12.03 12.06	12.13 12.17 12.19 11.71 11.70 11.51	11.07 10.85 11.13 11.19 11.29 11.35	11.20 11.14 11.18 10.97 10.26 10.10	9.77 9.37 9.14 9.09 9.03 8.74	8.74 8.76 8.94 8.66 8.59 8.40	7.78 7.59 7.42 7.41 7.81 7.76	7.98 8.27 7.86 8.22 8.54 8.88	8.90 8.96 9.13 9.17 8.90 9.19	9.27 9.35 	
MIN	11.65	11.57	11.51	10.85	10.10	8.74	8.40	7.41	7.83	8.78	9.11	
WTR YR	2003	HIGH 7.41	MAY 20									
								ND SURFACEMBER 2003				
DAY	OCT	NOV	DEC							JUL	AUG	SEP
5 10 15 20 25 EOM	11.82 12.05 12.17 12.18 12.28 11.86	12.17 12.26 11.78 11.97 12.04 12.09	12.14 12.18 12.20 11.89 11.77 11.72	WATER JAN 11.12 10.91 11.16 11.22 11.30 11.36	YEAR OCT FEB 11.25 11.21 11.31 11.06 10.36 10.14	MAR 9.89 9.42 9.18 9.17 9.14 8.76	APR 8.82 8.78 8.96 8.70 8.76 8.42	MAY 8.28 7.93 7.46 7.50 7.88 7.84	JUN 8.07 8.31 7.88 8.29 8.60 8.96	9.22 9.14 9.20 9.23 9.03 9.23	9.32 9.45 	
5 10 15 20 25	11.82 12.05 12.17 12.18 12.28	12.17 12.26 11.78 11.97 12.04	12.14 12.18 12.20 11.89 11.77 11.72	WATER JAN 11.12 10.91 11.16 11.22 11.30	YEAR OCT FEB 11.25 11.21 11.31 11.06 10.36	MAR 9.89 9.42 9.18 9.17 9.14	APR 8.82 8.78 8.96 8.70 8.76	MAY 8.28 7.93 7.46 7.50 7.88	JUN 8.07 8.31 7.88 8.29 8.60	9.22 9.14 9.20 9.23 9.03	9.32 9.45 	



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, (INDIANAPOLIS WEST, IN quadrangle), 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.

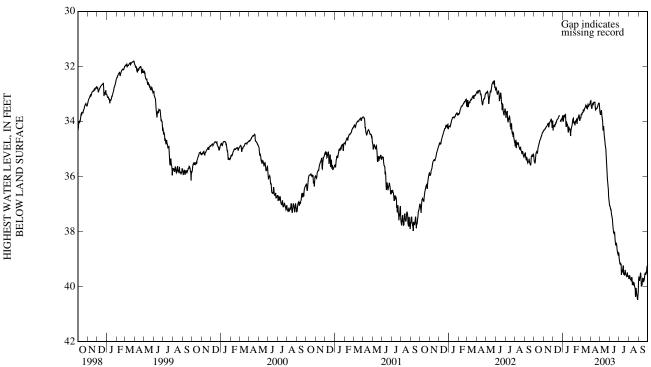
DATUM.--Elevation of land-surface datum is 716.40 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.50 ft above land-surface datum.

REMARKS.--Water levels are affected by pumpage.

PERIOD OF RECORD.--September 1987 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 30.30 ft below land-surface datum, Mar. 27, 1991; lowest, 40.70 ft below land-surface datum, Aug. 29-30, 2003.

Aug. 2	7-30, 200	13.										
				HIGHEST V WATER		VEL, FEET 1 OBER 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	35.45 35.13 34.91 34.69 34.53 34.35	34.27 34.19 34.08 34.05 33.92 33.97	34.18 34.04 33.92 33.82 33.97 33.84	33.79 33.75 34.12 34.19 34.41 34.13	34.07 34.06 33.91 33.86 33.96 33.87	33.68 33.62 33.45 33.51 33.45 33.26	33.48 33.32 33.47 33.54 33.36 33.63	33.59 34.33 34.62 35.20 36.23 37.06	37.25 37.70 38.02 38.51 38.74 38.80	39.14 39.44 39.54 39.40 39.64 39.65	39.71 39.66 39.96 40.02 40.18 40.18	39.68 40.00 39.70 39.67 39.53 39.19
MIN	34.35	33.92	33.77	33.75	33.75	33.26	33.25	33.59	37.07	39.01	39.61	39.19
WTR YR	2003	HIGH 33.25	APR 1									
				LOWEST WATER		/EL, FEET I OBER 2002						
DAY	OCT	NOV	DEC							JUL	AUG	SEP
DAY 5 10 15 20 25 EOM	OCT 35.67 35.38 35.14 34.77 34.58 34.41	NOV 34.31 34.33 34.12 34.22 34.17 34.33		WATER	YEAR OCT	OBER 2002	TO SEPTE	MBER 2003		JUL 39.47 39.74 39.79 39.76 39.95 40.00	AUG 40.05 39.93 40.26 40.34 40.47 40.36	SEP 39.98 40.14 40.04 39.89 39.78 39.25
5 10 15 20 25	35.67 35.38 35.14 34.77 34.58	34.31 34.33 34.12 34.22 34.17	DEC 34.44 34.17 34.13 34.01 34.01	WATER JAN 33.87 34.09 34.34 34.45 34.53	YEAR OCT FEB 34.31 34.31 34.21 34.05 34.21	MAR 33.87 33.88 33.59 33.76 33.65	APR 33.62 33.46 33.78 33.75 33.40	MBER 2003 MAY 33.94 34.60 34.85 35.51 36.35	JUN 37.54 38.04 38.11 38.77 39.01	39.47 39.74 39.79 39.76 39.95	40.05 39.93 40.26 40.34 40.47	39.98 40.14 40.04 39.89 39.78
5 10 15 20 25 EOM	35.67 35.38 35.14 34.77 34.58 34.41	34.31 34.33 34.12 34.22 34.17 34.33	DEC 34.44 34.17 34.13 34.01 33.95 34.46	WATER JAN 33.87 34.09 34.34 34.45 34.53 34.39	YEAR OCT FEB 34.31 34.31 34.21 34.05 34.21 34.13	MAR 33.87 33.88 33.59 33.76 33.65 33.43	APR 33.62 33.46 33.78 33.75 33.40 33.92	MBER 2003 MAY 33.94 34.60 34.85 35.51 36.35 37.27	JUN 37.54 38.04 38.11 38.77 39.01 39.20	39.47 39.74 39.79 39.76 39.95 40.00	40.05 39.93 40.26 40.34 40.47 40.36	39.98 40.14 40.04 39.89 39.78 39.25



394732086115501. Local number, MA 37.

LOCATION.--Lat 39°47'32", long 86°11'55", in SE\(^1/4\)NE\(^1/4\) sec. 33, T.16N., R.3E., Marion County, Hydrologic Unit 05120201, (INDIANAPOLIS WEST, IN quadrangle), 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 artesian well, diameter 6 in., depth 74 ft, cased to 69 ft, screened to 74 ft.

INSTRUMENTATION .-- Water-level recorder.

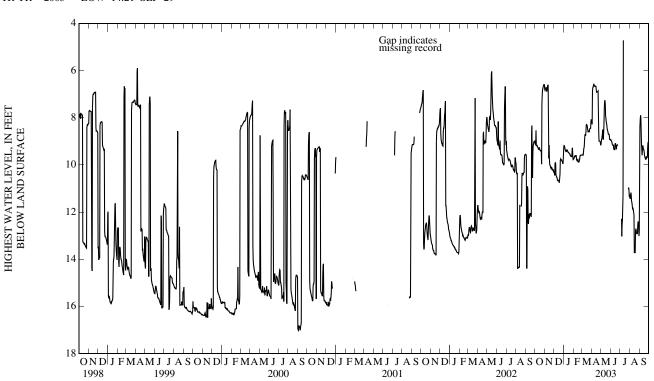
DATUM.--Elevation of land-surface datum is 690 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 3.35 ft above land-surface datum.

REMARKS.--Water level affected by pumpage.

PERIOD OF RECORD .-- July 1988 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.22 ft below land-surface datum, Mar. 20, 1991; lowest, 17.04 ft below land-surface datum, Sept. 3, 9-10, 2000.

1 /												
						VEL, FEET 1 ΓOBER 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	9.18 9.27 9.28 9.39 6.82 6.60	6.72 6.67 9.17 10.11 10.17 10.30	9.91 10.52 10.65 10.39 9.79 9.52	9.33 9.37 9.47 9.53 9.64 9.77	9.61 9.61 9.77 9.81 9.59 9.59	9.50 8.72 8.29 8.60 8.49 8.10	6.71 6.66 6.80 6.89 8.99 9.17 6.60	8.63 8.25 7.93 8.46 8.70 8.95	9.09 9.31 9.10 9.17 8.94	12.29 11.29 11.32 4.72	11.26 11.87 13.72 12.71 12.92 12.86	8.01 9.41 9.40 9.76 9.71
WTR YR	2003	HIGH 4.72		<i>y</i> .10	7.57	0.07	0.00	7.20	0.51	1.72	11.10	7.50
						VEL, FEET I ΓOBER 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	9.20 9.29 9.38 9.41 7.01 6.80	6.79 6.85 9.87 10.20 10.19 10.35	9.94 10.58 10.70 10.56 9.84 9.91	9.38 9.46 9.47 9.54 9.64 9.85	9.66 9.79 9.84 9.88 9.59 9.63	9.61 8.90 8.33 8.60 8.71 8.21	6.73 6.67 7.20 6.91 9.03 9.21	8.78 9.05 8.09 8.52 8.70 9.01	9.17 9.39 9.13 9.29	13.71 11.97 11.44	11.52 11.90 13.77 12.84 13.09 13.02	8.66 9.86 9.55 9.76 9.80
MAX	10.11	10.35	11.05	9.85	9.88	9.67	10.01	9.22	12.03	13.71	13.81	14.21
WTR YR	2003	LOW 14.21	SEP 29									



393950086124701. Local number, MA 38.

LOCATION.--Lat 39°39'50", long 86°12'47", in SE\(^1/4\)SW\(^1/4\)SW\(^1/4\)Sec. 9, T.14N., R.3E., Marion County, Hydrologic Unit 05120201, (MAYWOOD, IN quadrangle), on Southport Road, west of Highway 37 0.7 mi. Owner: U.S. Geological Survey.

AQUIFER .-- Sand and gravel of Pleistocene Epoch.

WELL CHARACTERISTICS .-- Drilled water-table well, diameter 6 in., depth 64 ft, cased to 59 ft, screened to 64 ft.

INSTRUMENTATION .-- Water-level recorder.

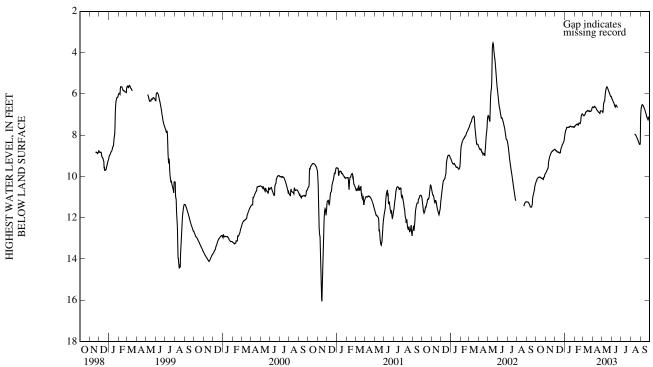
DATUM.--Elevation of land-surface datum is 675 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 3.50 ft above land-surface datum.

REMARKS.--Water level affected by pumpage from water-supply well field.

PERIOD OF RECORD.--December 1997 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.43 ft below land-surface datum, June 16, 1998; lowest, 16.14 ft below land-surface datum, Nov. 14, 2000.

						VEL, FEET I						
				WAIEK	I EAR OC	OBER 2002	TO SEPTE	MIDER 2003	'			
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.11	9.70	8.75	7.73	7.53	7.03	6.65	6.53	6.36			6.55
10	10.04	9.32	8.82	7.63	7.46	6.87	6.66	6.14	6.57			6.59
15	10.04	8.99	8.85	7.62	7.41	6.81	6.80	5.66	6.55		7.98	6.79
20	10.09	8.82	8.66	7.56	7.40	6.85	6.89	5.78			8.11	7.07
25	10.05	8.75	8.45	7.59	6.98	6.85	6.82	5.99			8.30	7.26
EOM	9.87	8.68	8.14	7.60	7.00	6.64	6.83	6.15			8.38	7.18
MIN	9.87	8.68	8.14	7.56	6.97	6.64	6.60	5.66	6.23		7.94	6.52
WTR YR	2003	HIGH 5.66	MAY 15									
				I OWEST V	VATERIEV	VEL EEETE	RELOWIA	ND SURFA	CE			
						VEL, FEET I TOBER 2002						
DAY	OCT	NOV	DEC							JUL	AUG	SEP
5	10.13	9.75	DEC 8.78	WATER JAN 7.76	YEAR OCT FEB 7.55	TOBÉR 2002 MAR 7.08	TO SEPTE APR 6.68	MBER 2003 MAY 6.83	JUN 6.41	JUL 	AUG 	6.61
			DEC	WATER JAN	YEAR OCT FEB	MAR	TO SEPTE APR	MBER 2003 MAY	JUN			
5	10.13	9.75	DEC 8.78	WATER JAN 7.76	YEAR OCT FEB 7.55	TOBÉR 2002 MAR 7.08	TO SEPTE APR 6.68	MBER 2003 MAY 6.83	JUN 6.41			6.61
5 10	10.13 10.05	9.75 9.56	DEC 8.78 8.83	WATER JAN 7.76 7.65	YEAR OCT FEB 7.55 7.50	ГОВЕ́R 2002 MAR 7.08 6.91	APR 6.68 6.69	MAY 6.83 6.36	JUN 6.41 6.61			6.61 6.63
5 10 15	10.13 10.05 10.06	9.75 9.56 9.03	DEC 8.78 8.83 8.87	WATER JAN 7.76 7.65 7.63	YEAR OCT FEB 7.55 7.50 7.49	TOBÉR 2002 MAR 7.08 6.91 6.83	APR 6.68 6.69 6.82	MAY 6.83 6.36 5.73	JUN 6.41 6.61 6.57		 7.99	6.61 6.63 6.84
5 10 15 20	10.13 10.05 10.06 10.11	9.75 9.56 9.03 8.85	DEC 8.78 8.83 8.87 8.72	WATER JAN 7.76 7.65 7.63 7.60	YEAR OCT FEB 7.55 7.50 7.49 7.45	MAR 7.08 6.91 6.83 6.88	APR 6.68 6.69 6.82 6.91	MAY 6.83 6.36 5.73 5.83	JUN 6.41 6.61 6.57		 7.99 8.14	6.61 6.63 6.84 7.13
5 10 15 20 25	10.13 10.05 10.06 10.11 10.16	9.75 9.56 9.03 8.85 8.76	DEC 8.78 8.83 8.87 8.72 8.46	WATER JAN 7.76 7.65 7.63 7.60 7.61	YEAR OCT FEB 7.55 7.50 7.49 7.45 7.03	MAR 7.08 6.91 6.83 6.88 6.89	APR 6.68 6.69 6.82 6.91 6.94	MAY 6.83 6.36 5.73 5.83 6.05	JUN 6.41 6.61 6.57	 	7.99 8.14 8.35	6.61 6.63 6.84 7.13 7.29
5 10 15 20 25 EOM	10.13 10.05 10.06 10.11 10.16 9.89	9.75 9.56 9.03 8.85 8.76 8.73	DEC 8.78 8.83 8.87 8.72 8.46 8.27 8.89	WATER JAN 7.76 7.65 7.63 7.60 7.61 7.63	YEAR OCT FEB 7.55 7.50 7.49 7.45 7.03 7.04	MAR 7.08 6.91 6.83 6.88 6.89 6.67	APR 6.68 6.69 6.82 6.91 6.94 6.85	MAY 6.83 6.36 5.73 5.83 6.05 6.23	JUN 6.41 6.61 6.57		7.99 8.14 8.35 8.50	6.61 6.63 6.84 7.13 7.29 7.20



383659086545901. Local number, MT 5.

LOCATION.--Lat 38°36'59", long 86°54'59", in $SE^1/_4NE^1/_4SW^1/_4$ sec.12, T.2 N., R.5 W., Martin County, Hydrologic Unit 05120208, (ALFORDSVILLE, IN quadrangle), 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.

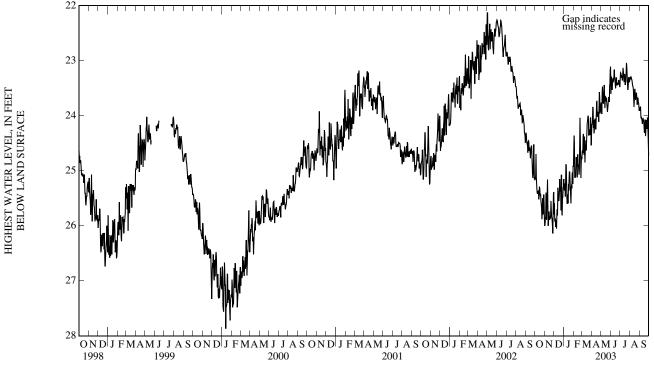
INSTRUMENTATION .-- Water-level recorder.

DATUM.--Elevation of land-surface datum is 565 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 2.80 ft above land-surface datum.

PERIOD OF RECORD .-- May 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 22.13 ft below land-surface datum, May 1-2, 2002; lowest, 34.10 ft below land-surface datum, Jan. 1, 5, 22, 23, 1960, and Dec. 18, 19, 1964.

				HIGHEST WATER				ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	25.11 25.38 25.29 25.56 25.50 25.86	25.40 25.16 25.74 25.81 25.92 25.39	25.87 25.78 25.51 25.26 25.08 25.29	25.23 25.11 25.59 25.02 25.31 24.91	25.12 24.75 24.71 25.00 25.13 24.79	24.33 24.85 24.50 24.00 24.25 24.33	23.87 24.12 24.02 23.94 23.57 23.80	23.47 23.50 23.66 23.84 23.66 23.11	23.53 23.35 23.44 23.43 23.41 23.48	23.31 23.13 23.24 23.24 23.52 23.37	23.30 23.46 23.72 23.67 23.77 23.91	24.01 24.15 24.19 24.37 24.24 24.72
MIN	24.70	25.16	25.08	24.88	24.04	24.00	23.57	23.11	23.16	23.04	23.29	23.84
WTR YR	2003	HIGH 23.04	JUL 21									
				LOWEST W WATER				ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	25.41 25.47 25.47 25.65 25.79 26.00	25.91 25.41 25.89 26.04 26.14 25.91	26.02 26.05 25.70 25.38 25.78 25.41	25.47 25.48 25.69 25.20 25.59 25.24	25.32 25.01 25.00 25.23 25.38 24.90	24.54 25.02 24.63 24.16 24.36 24.59	24.48 24.28 24.24 24.03 23.76 23.95	23.58 23.73 23.75 24.04 23.70 23.60	23.63 23.55 23.52 23.58 23.55 23.58	23.39 23.23 23.40 23.40 23.62 23.43	23.34 23.55 23.90 23.74 23.85 24.01	24.08 24.23 24.31 24.50 24.43 24.83
MAX	26.00	26.22	26.26	25.82	25.38	25.02	24.52	24.07	23.69	23.63	24.01	24.83
WTR YR	2003	LOW 26.26	DEC 3									
	22	2					1111			 	Gan indica	tos



GROUND-WATER DATA

MONTGOMERY COUNTY

400247086482101. Local number, MY 7.

LOCATION.--Lat $40^{\circ}02'47''$, long $86^{\circ}48'21''$, in NE $^{1}_{4}$ NW $^{1}_{4}$ SW $^{1}_{4}$ sec.31, T.19 N., R.3 W., Montgomery County, Hydrologic Unit 05120110, (DARLINGTON, IN quadrangle), 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.

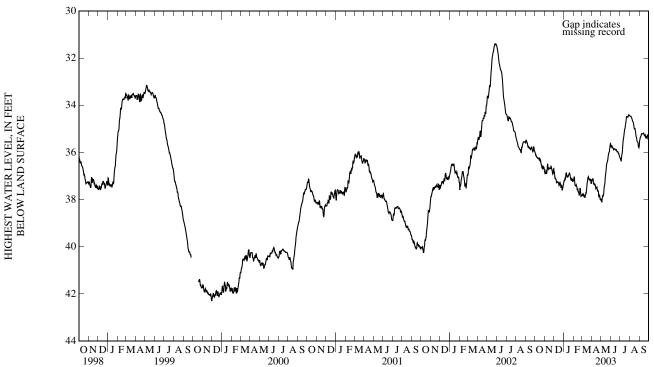
DATUM.--Elevation of land-surface datum is 801 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of floor of shelter, 2.38 ft above land-surface datum.

REMARKS.--Water level affected by pumpage from water-supply well field.

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, 42.34 ft below land-surface datum, Nov. 30, 1999.

								ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	36.16 36.25 36.24 36.45 36.58 36.76	36.77 36.48 36.65 36.68 36.79 36.69	37.09 37.27 37.29 37.26 37.39 37.36	37.10 36.90 37.02 36.88 37.13 37.17	37.26 37.37 37.56 37.82 37.86 37.82	37.77 37.92 37.59 37.06 37.12 37.25	37.12 37.38 37.50 37.60 37.81 37.98	37.84 37.56 36.93 36.43 36.03 35.62	35.74 35.89 35.88 35.94 36.04 36.20	36.22 35.55 35.01 34.62 34.51 34.44	34.48 34.68 34.99 35.23 35.55 35.72	35.32 35.20 35.22 35.33 35.40 35.38
MIN	35.98	36.48	36.84	36.87	37.02	37.03	37.11	35.62	35.71	34.40	34.45	35.18
WTR YR	2003	HIGH 34.40	JUL 28									
								ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	36.26 36.26 36.30 36.52 36.68 36.85	36.94 36.69 36.69 36.75 36.88 36.85	37.14 37.30 37.34 37.33 37.50 37.44	37.16 37.00 37.07 36.95 37.20 37.26	37.38 37.45 37.66 37.86 37.91 37.87	37.83 37.96 37.71 37.14 37.18 37.34	37.34 37.39 37.56 37.65 37.90 38.02	37.98 37.78 37.05 36.46 36.10 35.73	35.81 35.93 35.92 35.98 36.08 36.32	36.44 35.72 35.14 34.75 34.54 34.47	34.52 34.72 35.03 35.34 35.59 35.88	35.36 35.24 35.27 35.40 35.47 35.42
MAX	36.85	36.95	37.63	37.36	37.91	37.96	38.04	38.16	36.32	36.44	35.88	35.72
WTR YR	2003	LOW 38.16	MAY 3									
	50	7''''	1 1 1 1 1		1 1 1 1 1	11111	1 1 1 1 1			1 1 1 1 1 1		



MORGAN COUNTY

393423086161001. Local number, MG 4.

LOCATION.--Lat 39°34′23", long 86°16′10", in NW¹/₄NW¹/₄NW¹/₄ sec.13, T.13 N., R.2 E., Morgan County, Hydrologic Unit 05120201, (MOORESVILLE EAST, IN quadrangle), on east side of County Road 850 East, 0.4 mi north of County Road 950 North, and 1.1 mi north of Waverly. Owner: U.S. Geological Survey.

AQUIFER .-- Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS .-- Drilled water-table well, diameter 6 in., depth 64 ft, cased to 60 ft, screened to 64 ft.

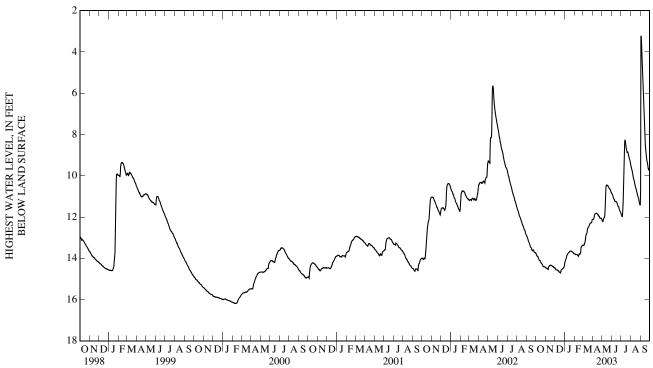
INSTRUMENTATION .-- Water-level recorder.

DATUM.--Elevation of land-surface datum is 645 ft above National Geodetic Vertical Datum of 1929, 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, 16.19 ft below land-surface datum, Feb. 10-14, 2000

				HIGHEST V WATER				ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	13.90 14.04 14.14 14.27 14.41 14.43	14.49 14.43 14.35 14.36 14.40 14.46	14.56 14.57 14.66 14.61 14.51 14.35	14.03 13.81 13.71 13.65 13.69 13.77	13.82 13.82 13.83 13.77 13.40 13.38	13.28 12.88 12.58 12.43 12.29 12.12	12.01 11.83 11.84 11.95 12.05 12.11	12.10 11.76 10.45 10.50 10.63 10.82	11.03 11.22 11.26 11.43 11.63 11.82	11.88 9.51 8.44 8.87 9.05 9.44	9.77 10.16 10.51 10.80 11.07 11.44	4.22 7.05 8.28 9.12 9.61 9.68
MIN	13.77	14.33	14.35	13.65	13.37	12.12	11.82	10.45	10.86	8.28	9.52	3.22
WTR YR	2003	HIGH 3.22	SEP 3									
				LOWEST W WATER	ATER LEV YEAR OCT	/EL, FEET I OBER 2002	BELOW LA TO SEPTE	ND SURFA MBER 2003	CE			
DAY	OCT	NOV	DEC	LOWEST W WATER JAN	ATER LEV YEAR OCT FEB	/EL, FEET F OBER 2002 MAR	BELOW LA TO SEPTE APR	ND SURFA MBER 2003 MAY	CE JUN	JUL	AUG	SEP
DAY 5 10 15 20 25 EOM	OCT 13.90 14.09 14.19 14.29 14.43 14.45	NOV 14.51 14.56 14.36 14.36 14.43 14.49	DEC 14.57 14.62 14.67 14.68 14.52 14.42	WATER	YEAR OCT	OBER 2002	TO SEPTE	MBER 2003		JUL 12.04 10.46 8.55 8.91 9.12 9.52	9.85 10.21 10.58 10.85 11.15 11.45	SEP 4.86 7.38 8.47 9.25 9.70 9.77



405105087173301. Local number, NE 6.

LOCATION.--Lat $40^\circ51'05''$, long $87^\circ17'33''$, in $SE^1/_4SW^1/_4SE^1/_4$ sec.23, T.28 N., R.8 W., Newton County, Hydrologic Unit 07120002, (GOODLAND, IN quadrangle), 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.

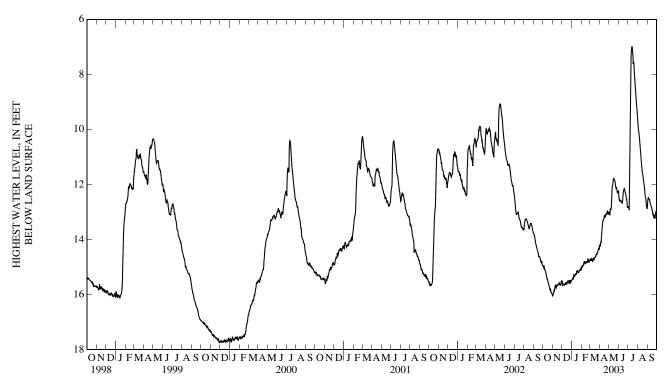
DATUM.--Elevation of land-surface datum is 654.10 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of floor of shelter, 2.15 ft above land-surface datum.

REMARKS .-- Water level may be affected by pumpage.

PERIOD OF RECORD .-- May 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.98 ft below land-surface datum, July. 13, 2003; lowest, 18.82 ft below land-surface datum, Oct. 29, 1988.

	,											
				HIGHEST V	VATER LEV	VEL, FEET I	BELOW LA	ND SURFA	CE			
				WATER	YEAR OCT	OBER 2002	TO SEPTE	MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	15.08 15.22 15.44 15.68 15.82 16.02	15.83 15.66 15.66 15.62 15.66 15.51	15.63 15.63 15.58 15.50 15.49 15.52	15.40 15.33 15.27 15.15 15.13 15.04	14.99 14.80 14.83 14.83 14.85 14.77	14.70 14.77 14.69 14.56 14.47 14.26	14.11 13.39 13.17 13.09 12.97 13.04	12.87 12.21 11.79 11.90 12.14 12.24	12.61 12.66 12.29 12.23 12.53 12.84	12.20 7.46 7.18 7.80 8.66 9.60	10.21 10.89 11.57 11.95 12.44 12.87	12.53 12.71 12.91 13.18 13.24 12.96
MIN	14.94	15.50	15.48	15.04	14.69	14.26	12.97	11.79	12.15	6.98	9.75	12.48
WTR YR	2003	HIGH 6.98	JUL 13									
						/EL, FEET I OBER 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25	15.13 15.27 15.52 15.75	15.98 15.73 15.74 15.69	15.67 15.66 15.66 15.57	15.45 15.39 15.30 15.20	15.05 14.93 14.93 14.90	14.79 14.82 14.73 14.63	14.16 13.52 13.24 13.17	12.95 12.54 11.86 12.06	12.65 12.73 12.41 12.30	13.00 8.37 7.34 8.04	10.35 11.03 11.63 12.04	12.56 12.77 12.97 13.24
EOM	15.88 16.08	15.70 15.68	15.62 15.55	15.19 15.12	14.91 14.83	14.50 14.37	13.03 13.12	12.26 12.48	12.59 12.88	8.87 9.77	12.57 12.95	13.28 12.98
	15.88	15.70	15.62 15.55 15.74	15.19	14.91	14.50						



405959087282901. Local number, NE 7.

LOCATION.--Lat $40^{\circ}59^{\circ}59^{\circ}$, long $87^{\circ}28^{\circ}29^{\circ}$, in $SE^{1}_{4}SW^{1}_{4}SE^{1}_{4}$ sec.32, T.30 N., R.9 W., Newton County, Hydrologic Unit 07120002, (MOROCCO, IN quadrangle), 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.

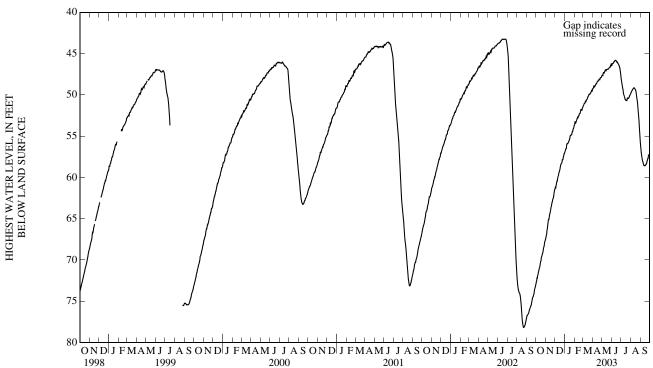
DATUM.--Elevation of land-surface datum is 680.83 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of floor of shelter, 2.03 ft above land-surface datum.

REMARKS.--Water level affected by irrigation pumpage.

PERIOD OF RECORD.--February 1976 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 34.65 ft below land-surface datum, Apr. 14, 1980; lowest, 97.33 ft below land-surface datum, Aug. 29, 30, 1988.

				HIGHEST V								
				WATER	YEAR OCT	OBER 2002	TO SEPTE	MBER 2003	j			
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	72.19	66.39	60.82	56.49	53.39	51.06	48.94	47.30	46.18	49.08	49.45	57.56
10	71.28	65.09	59.99	55.91	52.86	50.82	48.77	47.09	45.90	50.04	49.16	58.36
15	70.32	64.31	59.21	55.57	52.54	50.38	48.41	46.92	45.91	50.57	49.36	58.57
20	69.51	63.31	58.39	54.91	52.12	49.94	48.18	46.86	46.13	50.52	50.34	58.37
25	68.53	62.54	57.87	54.47	51.86	49.77	47.93	46.65	46.57	50.38	52.30	57.68
EOM	67.55	61.49	57.12	53.74	51.50	49.37	47.67	46.24	47.77	49.88	55.69	57.07
MIN	67.55	61.49	57.12	53.74	51.50	49.37	47.67	46.24	45.81	48.10	49.14	56.13
WTR YR	2003	HIGH 45.81	JUN 12									
				I OWEST V	VATERIEV	/FI FEETI	RELOW LA	ND SURFA	CE			
				LOWEST WATER				ND SURFA MBER 2003				
DAY	OCT	NOV	DEC							JUL	AUG	SEP
DAY 5	OCT 72.28	NOV 66.83		WATER	YEAR OCT	OBER 2002	TO SEPTE	MBER 2003	1	JUL 49.26	AUG 49.53	SEP 57.78
			DEC	WATER JAN	YEAR OCT FEB	MAR	TO SEPTE APR	MBER 2003 MAY	JUN			
5	72.28	66.83	DEC 61.01	WATER JAN 56.59	YEAR OCT FEB 53.48	OBER 2002 MAR 51.11	APR 49.13	MBER 2003 MAY 47.40	JUN 46.21	49.26	49.53	57.78
5 10 15 20	72.28 71.46	66.83 65.28	DEC 61.01 60.20	WATER JAN 56.59 55.96	YEAR OCT FEB 53.48 52.95	MAR 51.11 50.88	APR 49.13 48.88	MBER 2003 MAY 47.40 47.18	JUN 46.21 46.00	49.26 50.16	49.53 49.25	57.78 58.51
5 10 15	72.28 71.46 70.55	66.83 65.28 64.40	DEC 61.01 60.20 59.38	WATER JAN 56.59 55.96 55.63	YEAR OCT FEB 53.48 52.95 52.59	MAR 51.11 50.88 50.50	APR 49.13 48.88 48.57	MBER 2003 MAY 47.40 47.18 46.99	JUN 46.21 46.00 46.01	49.26 50.16 50.62	49.53 49.25 49.41	57.78 58.51 58.62
5 10 15 20	72.28 71.46 70.55 69.63	66.83 65.28 64.40 63.54	DEC 61.01 60.20 59.38 58.51	JAN 56.59 55.96 55.63 54.97	YEAR OCT FEB 53.48 52.95 52.59 52.30	MAR 51.11 50.88 50.50 50.05	APR 49.13 48.88 48.57 48.26	MBER 2003 MAY 47.40 47.18 46.99 46.92	JUN 46.21 46.00 46.01 46.23	49.26 50.16 50.62 50.68	49.53 49.25 49.41 50.61	57.78 58.51 58.62 58.42
5 10 15 20 25	72.28 71.46 70.55 69.63 68.81	66.83 65.28 64.40 63.54 62.62	DEC 61.01 60.20 59.38 58.51 57.87	WATER JAN 56.59 55.96 55.63 54.97 54.64	YEAR OCT FEB 53.48 52.95 52.59 52.30 51.94	MAR 51.11 50.88 50.50 50.05 49.79	APR 49.13 48.88 48.57 48.26 48.01	MBER 2003 MAY 47.40 47.18 46.99 46.92 46.67	JUN 46.21 46.00 46.01 46.23 46.67	49.26 50.16 50.62 50.68 50.47	49.53 49.25 49.41 50.61 52.78	57.78 58.51 58.62 58.42 57.78
5 10 15 20 25 EOM	72.28 71.46 70.55 69.63 68.81 67.69	66.83 65.28 64.40 63.54 62.62 61.59	DEC 61.01 60.20 59.38 58.51 57.87 57.15 61.58	WATER JAN 56.59 55.96 55.63 54.97 54.64 53.98	YEAR OCT FEB 53.48 52.95 52.59 52.30 51.94 51.59	MAR 51.11 50.88 50.50 50.05 49.79 49.55	APR 49.13 48.88 48.57 48.26 48.01 47.85	MAY 47.40 47.18 46.99 46.92 46.67 46.42	JUN 46.21 46.00 46.01 46.23 46.67 48.10	49.26 50.16 50.62 50.68 50.47 49.97	49.53 49.25 49.41 50.61 52.78 56.13	57.78 58.51 58.62 58.42 57.78 57.19



410428087231501. Local number, NE 8.

LOCATION.--Lat 41°04'28", long 87°25'44", in NW¹/₄SW¹/₄SW¹/₄Sw¹/₄Sw¹/₄Sw¹/₄Sw¹, sec.2, T.30 N., R.9 W., Newton County, Hydrologic Unit 07120001, (ENOS, IN quadrangle), 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.

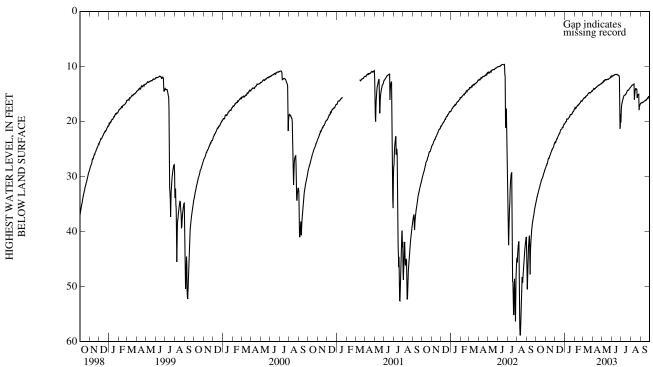
DATUM.--Elevation of land-surface datum is 663.34 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of floor of shelter, 2.83 ft above land-surface datum.

REMARKS.--Water level affected by irrigation pumpage.

PERIOD OF RECORD.--February 1976 to October 2003 (discontinued).

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.

•	*											
						VEL, FEET 1 OBER 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	33.69 32.48 31.36 30.49 29.50 28.58	27.69 26.71 26.18 25.36 24.81 23.88	23.44 22.79 22.15 21.49 21.08 20.49	20.01 19.59 19.31 18.78 18.46 17.87	17.66 17.16 16.95 16.60 16.38 16.09	15.69 15.54 15.18 14.76 14.76 14.40	14.05 13.92 13.60 13.40 13.21 12.99	12.64 12.42 12.39 12.30 12.12 11.73	11.72 11.50 11.49 11.59 12.00 20.20	16.21 15.32 15.04 14.52 14.28 13.80	13.43 13.25 14.23 14.17 15.11 16.88	16.65 16.49 16.25 16.11 15.77 15.55
MIN	28.58	23.88	20.47	17.87	16.09	14.40	12.99	11.73	11.44	13.80	13.21	15.50
WTR YR	2003	HIGH 11.44	4 JUN 18									
						/EL, FEET I OBER 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25	33.83 32.73 31.57 30.65	28.04 26.84 26.24 25.56	23.64 22.97 22.30 21.59	20.08 19.65 19.39 18.81	17.74 17.27 17.02 16.73	15.76 15.63 15.29 14.89	14.25 14.01 13.73 13.48	12.75 12.56 12.46 12.41	11.76 11.61 11.56 11.62	16.54 15.47 15.23 14.72	13.51 13.35 14.61 15.75	16.73 16.56 16.30 16.18
EOM MAX	29.80 28.71 34.92	24.88 24.04 28.58	21.13 20.55 24.04	18.63 18.10 20.53	16.49 16.17 17.93	14.79 14.58 16.12	13.28 13.16 14.40	12.16 11.92 13.08	15.00 24.24 27.64	14.36 13.88 20.20	15.19 17.10 19.08	15.85 15.61 16.88
	28.71	24.04	20.55 24.04	18.10	16.17	14.58	13.16	11.92	24.24	13.88	17.10	15.61



405959087282902. Local number, NE 9.

LOCATION.--Lat $40^{\circ}59^{\circ}59^{\circ}$, long $87^{\circ}28^{\circ}29^{\circ}$, in $SE^{1}_{4}SW^{1}_{4}SE^{1}_{4}$ sec. 32, T.30 N., R.9 W., Newton County, Hydrologic Unit 07120002, (MOROCCO, IN quadrangle), 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.

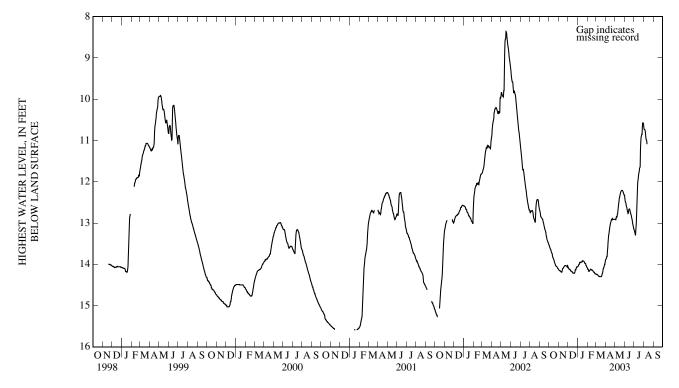
INSTRUMENTATION .-- Water-level recorder.

DATUM.--Elevation of land-surface datum is 681 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Bottom lip of "Y" in well casing, 3.10 ft above land-surface datum.

PERIOD OF RECORD .-- May 1978 to October 2003 (discontinued). 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, 15.60 ft below land-surface datum, Jan. 17-23, 2001.

				HIGHEST V WATER		/EL, FEET I OBER 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.63	14.16	14.12	14.00	14.17	14.25	13.81	12.85	12.56	13.30	10.77	
10	13.73	14.19	14.16	13.95	14.13	14.29	13.29	12.68	12.73	12.34	11.01	
15	13.86	14.10	14.19	13.94	14.14	14.30	13.04	12.38	12.66	11.82		
20	13.98	14.04	14.22	13.92	14.18	14.24	12.91	12.23	12.78	11.64		
25	14.05	14.04	14.13	13.98	14.23	14.09	12.91	12.22	12.96	10.85		
EOM	14.12	14.04	14.06	14.08	14.23	13.90	12.91	12.33	13.15	10.62		
MIN	13.54	14.03	14.06	13.92	14.09	13.90	12.89	12.21	12.41	10.57	10.71	
WTR YR	2003	HIGH 10.57	JUL 29									
				LOWEST W WATER		EL, FEET E OBER 2002						
DAY	OCT	NOV	DEC							JUL	AUG	SEP
5	OCT 13.64	NOV 14.16	DEC 14.12	WATER JAN 14.01	YEAR OCT FEB 14.17	OBER 2002 MAR 14.26	APR 13.82	MBER 2003		13.34	10.83	SEP
5 10	13.64 13.74	14.16 14.19	14.12 14.16	WATER JAN 14.01 13.96	YEAR OCT FEB 14.17 14.15	MAR 14.26 14.30	TO SEPTE APR 13.82 13.39	MBER 2003 MAY 12.87 12.77	JUN 12.60 12.77	13.34 12.64		
5 10 15	13.64 13.74 13.88	14.16 14.19 14.10	14.12 14.16 14.21	WATER JAN 14.01 13.96 13.94	YEAR OCT FEB 14.17 14.15 14.14	MAR 14.26 14.30 14.31	APR 13.82 13.39 13.08	MBER 2003 MAY 12.87 12.77 12.42	JUN 12.60 12.77 12.68	13.34 12.64 11.90	10.83	
5 10 15 20	13.64 13.74 13.88 14.00	14.16 14.19 14.10 14.05	14.12 14.16 14.21 14.22	WATER JAN 14.01 13.96 13.94 13.93	YEAR OCT FEB 14.17 14.15 14.14 14.19	MAR 14.26 14.30 14.31 14.28	TO SEPTE APR 13.82 13.39 13.08 12.92	MBER 2003 MAY 12.87 12.77 12.42 12.24	JUN 12.60 12.77 12.68 12.80	13.34 12.64 11.90 11.66	10.83 11.09	
5 10 15 20 25	13.64 13.74 13.88 14.00 14.06	14.16 14.19 14.10 14.05 14.04	14.12 14.16 14.21 14.22 14.13	WATER JAN 14.01 13.96 13.94 13.93 13.98	YEAR OCT FEB 14.17 14.15 14.14 14.19 14.23	MAR 14.26 14.30 14.31 14.28 14.11	TO SEPTE APR 13.82 13.39 13.08 12.92 12.91	MBER 2003 MAY 12.87 12.77 12.42 12.24 12.24	JUN 12.60 12.77 12.68 12.80 13.02	13.34 12.64 11.90 11.66 10.89	10.83 11.09	
5 10 15 20	13.64 13.74 13.88 14.00	14.16 14.19 14.10 14.05	14.12 14.16 14.21 14.22	WATER JAN 14.01 13.96 13.94 13.93	YEAR OCT FEB 14.17 14.15 14.14 14.19	MAR 14.26 14.30 14.31 14.28	TO SEPTE APR 13.82 13.39 13.08 12.92	MBER 2003 MAY 12.87 12.77 12.42 12.24	JUN 12.60 12.77 12.68 12.80	13.34 12.64 11.90 11.66	10.83 11.09 	
5 10 15 20 25	13.64 13.74 13.88 14.00 14.06	14.16 14.19 14.10 14.05 14.04	14.12 14.16 14.21 14.22 14.13	WATER JAN 14.01 13.96 13.94 13.93 13.98	YEAR OCT FEB 14.17 14.15 14.14 14.19 14.23	MAR 14.26 14.30 14.31 14.28 14.11	TO SEPTE APR 13.82 13.39 13.08 12.92 12.91	MBER 2003 MAY 12.87 12.77 12.42 12.24 12.24	JUN 12.60 12.77 12.68 12.80 13.02	13.34 12.64 11.90 11.66 10.89	10.83 11.09 	



GROUND-WATER DATA

NEWTON COUNTY

410428087231502. Local number, NE 10.

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, (ENOS, IN quadrangle), in the Beaver Lake Prairie Chicken Refuge, 3.0 mi north of Enos. Owner: U.S. Geological Survey.

AQUIFER .-- Sand of Pleistocene age.

WELL CHARACTERISTICS .-- Drilled water-table well, diameter 2 in., depth 45 ft, cased to 41 ft, screened to 44 ft.

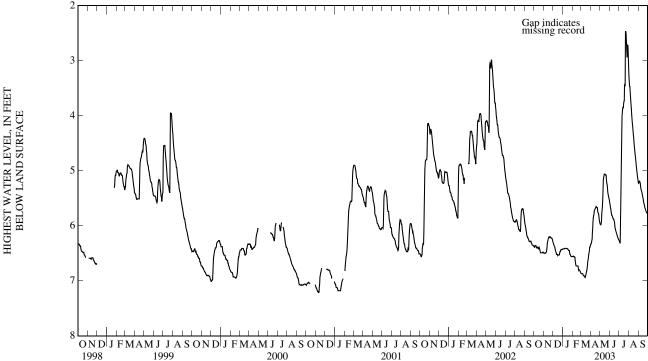
INSTRUMENTATION .-- Water-level recorder.

DATUM.--Elevation of land-surface datum is 662.60 ft above National Geodetic Vertical Datum of 1929. Measuring point: Bottom lip of "Y" in well casing, 2.65 ft above land-surface datum.

PERIOD OF RECORD .-- May 1978 to October 2003 (discontinued). 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, 7.23 ft below land-surface datum, Nov. 8-9, 2000

						VEL, FEET I OBER 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	6.36 6.40 6.42 6.45 6.49 6.48	6.50 6.47 6.25 6.21 6.22 6.28	6.37 6.47 6.52 6.53 6.44 6.43	6.42 6.41 6.42 6.45 6.52 6.56	6.56 6.64 6.73 6.77 6.82 6.86	6.87 6.91 6.92 6.78 6.53 6.34	6.25 5.82 5.69 5.67 5.77 5.95	5.92 5.33 5.06 5.08 5.38 5.56 5.06	5.75 5.84 5.92 6.09 6.19 6.26 5.60	5.98 4.00 3.78 3.44 2.81 3.11 2.47	3.56 3.99 4.34 4.65 4.94 5.22 3.28	5.20 5.36 5.49 5.63 5.74 5.78
WTR YR	2003	HIGH 2.47	JUL 21									
						VEL, FEET E TOBER 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	6.36 6.40 6.42 6.48 6.49 6.49	6.50 6.48 6.28 6.22 6.23 6.30	6.38 6.49 6.54 6.53 6.47 6.43	6.42 6.41 6.42 6.45 6.54 6.56	6.56 6.68 6.73 6.81 6.83 6.88	6.88 6.92 6.94 6.82 6.59 6.38	6.27 5.85 5.70 5.69 5.79 5.97	5.96 5.55 5.07 5.17 5.42 5.60	5.78 5.87 5.94 6.11 6.21 6.27	6.34 4.29 3.91 3.53 2.94 3.28	3.65 4.06 4.39 4.71 4.99 5.24	5.23 5.38 5.53 5.67 5.75 5.79
MAX	6.50	6.51	6.54	6.57	6.88	6.94	6.34	5.99	6.27	6.34	5.24	5.79
WTR YR	2003	LOW 6.94	MAR 11									



410235087305901. Local number, NE 11.

LOCATION.--Lat $41^{\circ}02'35''$, long $87^{\circ}30'59''$, in $SW^{1}_{4}SW^{1}_{4}SE^{1}_{4}$ sec. 13, T.30 N., R.10 W., Newton County, Hydrologic Unit 07120001, (LEESVILLE, IN-IL quadrangle), 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.

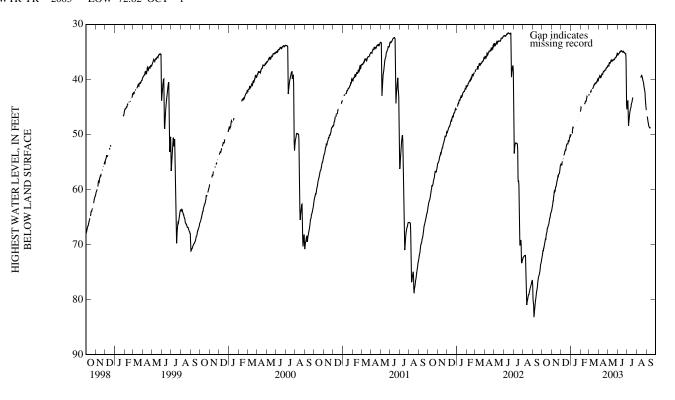
DATUM.--Elevation of land-surface datum is 670 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 3.30 ft above land-surface datum.

REMARKS.--Water level affected by irrigation pumpage.

PERIOD OF RECORD .-- October 1981 to October 2003 (discontinued).

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.

	-											
								ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	71.24 69.66 68.06 66.85 65.33 64.02	62.11 60.26 59.45 57.94 57.14 55.48	54.89 53.82 52.77 51.75 51.16 50.36	49.58 48.89 47.47 46.85 45.84	44.40 43.78 42.94	42.23 41.33 40.67 40.54 39.87	39.47 39.24 38.63 38.34 37.89 37.46	36.88 36.52 36.52 36.35 36.00 35.24	35.33 34.86 35.00 35.12 35.37 45.42	48.45 45.76 44.28 	39.40 40.12 41.73 45.58	47.53 48.69
MIN	64.02	55.48	50.21	45.84	42.94	39.87	37.46	35.24	34.79	43.28	39.28	46.76
WTR YR	2003	HIGH 34.79	JUN 12									
								ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	71.48 70.00 68.41 67.07 65.80 64.19	62.79 60.47 59.52 58.35 57.27 55.91	55.17 54.16 53.01 51.90 51.49 50.50	49.67 49.04 47.65 47.20 46.19	44.58 44.08 43.05	42.44 41.54 40.91 40.61 40.32	39.92 39.48 38.94 38.46 37.99 37.79	37.11 36.86 36.66 36.59 36.07 35.74	35.42 35.10 35.09 35.22 35.51 46.37	49.35 46.19 44.62 	39.65 40.32 42.13 45.68	47.91 48.87
MAX	72.62	64.02	55.91	50.38	45.97	42.98	39.97	37.69	46.83	49.46	45.68	48.96
WTR YR	2003	LOW 72.62	OCT 1									



410917087285801. Local number, NE 14.

HIGHEST WATER LEVEL, IN FEET BELOW LAND SURFACE

LOCATION.--Lat $41^{\circ}09^{\circ}17^{\circ}$, long $87^{\circ}28^{\circ}58^{\circ}$, in NE $^{1}_{4}$ SW $^{1}_{4}$ NW $^{1}_{4}$ sec.8, T.31 N., R.9 W., Newton County, Hydrologic Unit 07120001, (SCHNEIDER, IN quadrangle), 100 ft south of wildlife area parking lot in La Salle State Fish and Wildlife Area. Owner: U.S. Geological Survey.

AQUIFER .-- Dolomitic limestone of Silurian/Devonian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 150 ft, cased to 82 ft, open end.

INSTRUMENTATION .-- Water-level recorder, data-collection platform, and incremental encoder.

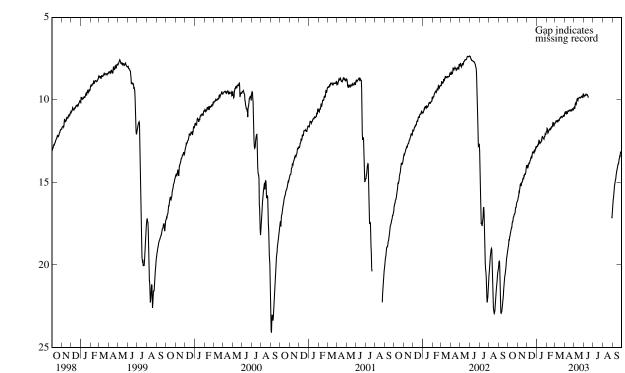
DATUM.--Elevation of land-surface datum is 636.62 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.30 ft above land-surface datum.

REMARKS.--Water level affected by irrigation pumpage.

PERIOD OF RECORD.--August 1985 to October 2003 (discontinued).

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.

U												
						VEL, FEET 1 OBER 2002		ND SURFA MBER 2003	CE			
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM MIN WTR YR	18.52 17.94 17.39 17.04 16.54 16.15 16.15	15.56 15.09 14.98 14.77 14.52 13.98 13.98	13.96 13.73 13.44 13.15 13.04 12.87 12.80	12.70 12.51 12.55 12.24 12.24 11.95	11.95 11.78 11.73 11.61 11.61 11.44 11.37	11.27 11.35 11.17 11.01 11.02 10.89	10.70 10.73 10.62 10.60 10.54 10.47	10.19 9.97 9.89 9.84 9.78 9.64	9.74 9.70 9.87 9.65	 	 16.89 16.89	15.65 14.88 14.23 13.88 13.41 13.14
						/EL, FEET I OBER 2002		ND SURFAO MBER 2003	CE			
DAY	OCT	NOV	DEC						CE JUN	JUL	AUG	SEP
		NOV 15.86 15.15 15.02 14.84 14.54 14.16	DEC 14.07 13.83 13.52 13.20 13.11 12.91 14.19	WATER	YEAR OCT	OBER 2002	TO SEPTE	MBER 2003		JUL	AUG 17.18 17.20	SEP 15.86 14.99 14.33 13.95 13.46 13.18 16.89



NOBLE COUNTY

411922085221801. Local number, NO 8.

LOCATION.--Lat $41^{\circ}19^{\circ}22^{\circ}$, long $85^{\circ}22^{\circ}18^{\circ}$, in $SE^{1}_{4}SW^{1}_{4}SE^{1}_{4}$ sec.9, T.33 N., R.10 E., Noble County, Hydrologic Unit 04050001, (EGE, IN quadrangle), near the east edge of Chain O'Lakes State Park, and 5.0 mi south of Albion. Owner: U.S. Geological Survey.

AQUIFER .-- Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 149 ft, cased to 146 ft, screened to 148 ft.

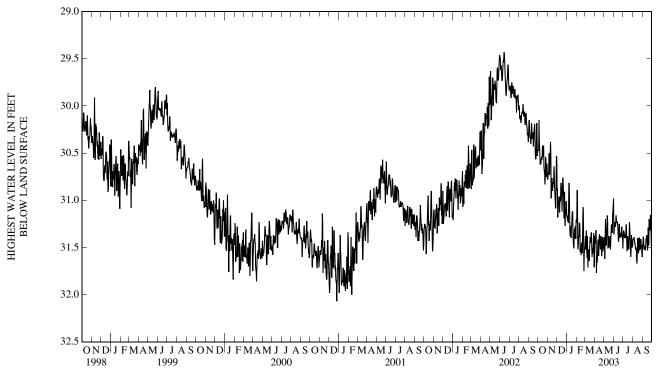
INSTRUMENTATION .-- Water-level recorder.

DATUM.--Elevation of land-surface datum is 928 ft above National Geodetic Vertical Datum of 1929, 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 October 2003 (discontinued).

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.

								ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	30.36 30.62 30.42 30.65 30.54 30.76	30.50 30.38 30.77 30.82 31.02 30.55	31.02 31.01 30.89 30.76 30.91 31.04	31.16 31.07 31.40 31.12 31.32 31.22	31.43 31.24 31.52 31.56 31.75 31.52	31.32 31.71 31.54 31.36 31.51 31.55	31.32 31.51 31.37 31.39 31.39 31.42	31.20 31.27 31.38 31.38 31.26 30.98	31.26 31.24 31.41 31.40 31.36 31.51	31.40 31.26 31.38 31.38 31.60 31.48	31.41 31.52 31.52 31.50 31.60	31.52 31.53 31.42 31.48 31.32 31.58
MIN	30.15	30.38	30.76	30.82	30.89	31.32	31.32	30.98	31.16	31.23	31.39	31.16
WTR YR	2003	HIGH 30.15	OCT 4									
								ND SURFA				
				WATER	YEAR OCT	OBER 2002	TO SEPTE	MBER 2003				
DAY	OCT	NOV	DEC	JAN	YEAR OCT FEB	OBER 2002 MAR	TO SEPTE APR	MBER 2003 MAY	JUN	JUL	AUG	SEP
DAY 5 10 15 20 25 EOM	OCT 30.67 30.64 30.56 30.73 30.78 30.81	NOV 30.82 30.50 30.96 30.94 31.15 30.95	DEC 31.15 31.13 30.98 30.88 31.24 31.20							JUL 31.43 31.39 31.51 31.54 31.66 31.51	AUG 31.44 31.57 31.67 31.57 31.54 31.72	SEP 31.58 31.56 31.48 31.60 31.49 31.61
5 10 15 20 25	30.67 30.64 30.56 30.73 30.78	30.82 30.50 30.96 30.94 31.15	31.15 31.13 30.98 30.88 31.24	JAN 31.24 31.33 31.49 31.36 31.51	FEB 31.60 31.42 31.74 31.67 31.86	MAR 31.54 31.80 31.64 31.48 31.57	APR 31.80 31.64 31.52 31.52 31.46	MAY 31.40 31.36 31.46 31.55 31.35	JUN 31.36 31.36 31.46 31.48 31.45	31.43 31.39 31.51 31.54 31.66	31.44 31.57 31.67 31.57 31.54	31.58 31.56 31.48 31.60 31.49



GROUND-WATER DATA

NOBLE COUNTY

413106085232701. Local number, NO 9.

LOCATION.--Lat 41°31′06", long 85°23′27", in NW \(^1/_4\)NE \(^1/_4\)SE \(^1/_4\) sec.5, T.35 N., R.10 E., Noble County, Hydrologic Unit 04050001, (OLIVER LAKE, IN quadrangle), 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.

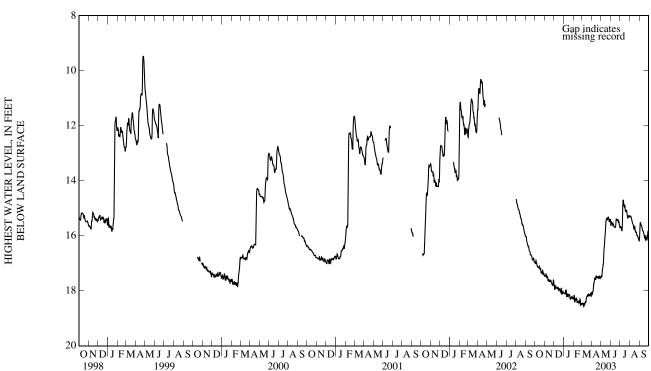
INSTRUMENTATION .-- Water-level recorder.

DATUM.--Elevation of land-surface datum is 930 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of floor of shelter, 2.60 ft above land-surface datum.

PERIOD OF RECORD.--June 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.37 ft below land-surface datum, Jan. 5, 1993; lowest, 18.61 ft below land-surface datum, Mar. 6-7, 2003.

				HIGHEST V WATER		VEL, FEET I OBER 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	16.98 17.14 17.11 17.32 17.26 17.47	17.39 17.46 17.61 17.67 17.79 17.67	17.82 17.89 17.95 17.92 17.93 18.06	18.08 18.17 18.21 18.15 18.22 18.25	18.42 18.27 18.41 18.44 18.52 18.48	18.46 18.48 18.25 18.13 18.15 18.11	18.01 17.56 17.46 17.48 17.47 17.48	17.20 16.51 15.71 15.36 15.36 15.40	15.55 15.65 15.70 15.45 15.50 15.72	15.78 14.72 14.87 15.12 15.36 15.31	15.33 15.56 15.69 15.88 15.99 16.20	15.60 15.79 15.94 16.15 16.13 15.76
MIN WTR YR	16.87 2003	17.39 HIGH 14.71	17.80	17.97	18.17	18.10	17.46	15.33	15.39	14.71	15.28	15.52
WIKIK	2003	111011 14.71	JUL II									
				LOWEST W								
DAV	OCT	NOV		WATER	YEAR OCT	OBER 2002	TO SEPTE	MBER 2003		пп	AUG	SED
DAY 5 10 15 20 25 EOM MAX WTR YR	OCT 17.15 17.15 17.16 17.34 17.36 17.48 17.48 2003	NOV 17.54 17.55 17.72 17.72 17.83 17.91 17.91	DEC 17.85 17.90 18.00 18.00 18.14 18.13							JUL 15.83 14.97 14.94 15.16 15.41 15.33 15.85	AUG 15.37 15.59 15.75 15.90 16.04 16.25	SEP 15.64 15.82 16.01 16.25 16.24 15.82 16.25



NOBLE COUNTY

412405085154501. Local number, NO 11.

LOCATION.--Lat $41^{\circ}24'05''$, long $85^{\circ}15'45''$, in $NW^{1}_{4}NE^{1}_{4}SW^{1}_{4}$ sec. 16, T.34 N., R.11 E., Noble County, Hydrologic Unit 04100003, (KENDALLVILLE, IN quadrangle), on the property of Ron Karst on the south side of County Road 350 North, 0.6 mi west of State Highway 3 and about 22 mi north of Fort Wayne.

Owner: U.S. Geological Survey.

AQUIFER .-- Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled artsian well, diameter 6 in., depth 216 ft, cased to 211 ft, screened to 216 ft.

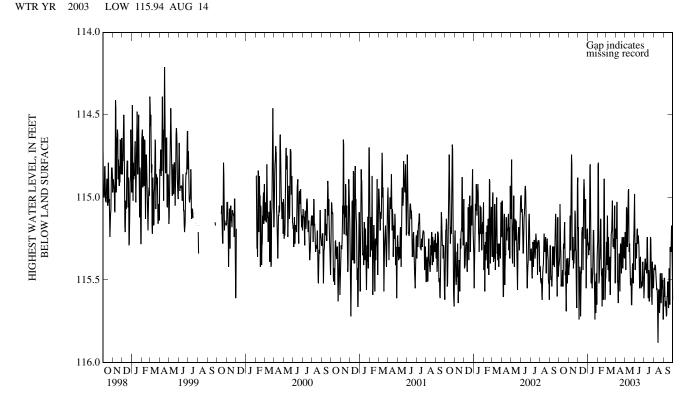
INSTRUMENTATION .-- Water-level recorder.

DATUM.--Elevation of land-surface datum is 1,036.94 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.45 ft above land-surface datum.

PERIOD OF RECORD.--November 1987 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 113.24 ft below land-surface datum, Nov. 6, 1988; lowest, 115.94 ft below land-surface datum, Aug. 14, 2003.

			1			VEL, FEET 1 OBER 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	115.13 115.54 115.30 115.31 115.39 115.44	115.14 114.74 115.24 115.32 115.47 114.88	115.56 115.54 115.18 114.89 115.01 115.19	115.27 114.94 115.55 115.20 115.55 115.37	115.21 115.20 115.48 115.62 115.62 115.48	115.11 115.51 115.46 115.08 115.25 115.44	115.03 115.52 115.35 115.29 115.26 115.26	115.06 115.11 115.28 115.49 115.40 114.98	115.28 115.28 115.44 115.49 115.53 115.61	115.39 115.27 115.44 115.42 115.62 115.54	115.41 115.56 115.76 115.65 115.59 115.74	115.58 115.72 115.54 115.55 115.33 115.62
MIN WTR YR	115.04 2003	114.74 HIGH 114.7	114.89 4 NOV 10	114.80	114.79	115.02	115.03	114.95	115.19	115.24	115.41	115.17
						/EL, FEET I OBER 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	115.49 115.55 115.54 115.47 115.69 115.50	115.49 114.96 115.43 115.43 115.65 115.19	115.74 115.72 115.27 114.96 115.27 115.32	115.35 115.24 115.68 115.40 115.78 115.65	115.52 115.37 115.73 115.69 115.81 115.54	115.29 115.65 115.59 115.22 115.31 115.57	115.51 115.64 115.57 115.46 115.39 115.45	115.33 115.22 115.35 115.65 115.46 115.27	115.41 115.39 115.55 115.60 115.62 115.71	115.46 115.46 115.61 115.61 115.72 115.59	115.43 115.61 115.91 115.72 115.64 115.83	115.67 115.76 115.60 115.74 115.51 115.72
MAX	115.75	115.69	115.86	115.84	115.81	115.68	115.71	115.78	115.71	115.74	115.94	115.78



NOBLE COUNTY

412405085154504. Local number, NO 14.

LOCATION.--Lat $41^{\circ}24'05''$, long $85^{\circ}15'45''$, in $NW^{1}/_{4}NE^{1}/_{4}SW^{1}/_{4}$ sec.16, T.34 N., R.11 E., Noble County, Hydrologic Unit 04100003, (KENDALLVILLE, IN quadrangle), 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.

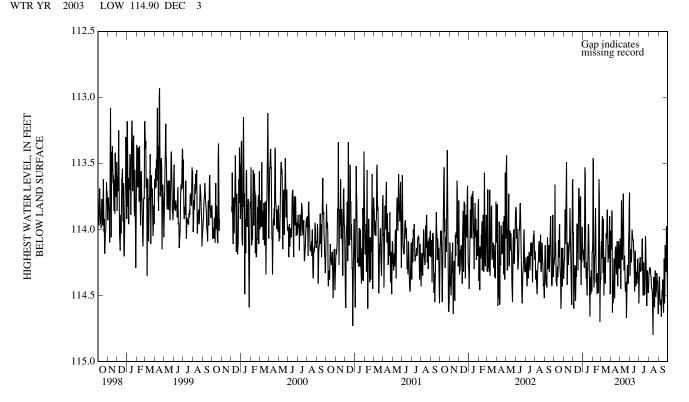
INSTRUMENTATION .-- Water-level recorder.

DATUM.--Elevation of land-surface datum is 1,037.24 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.50 ft above land-surface datum.

PERIOD OF RECORD.--November 1987 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 112.21 ft below land-surface datum, Dec. 15, 1987; lowest, 114.93 ft below land-surface datum, Dec. 25, 2000.

]	HIGHEST V	VATER LEV	VEL, FEET	BELOW LA	ND SURFA	CE			
					YEAR OCT							
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	114.10 114.43 114.08 114.28 114.14 114.37	113.85 113.49 114.12 114.10 114.40 113.62	114.39 114.36 113.97 113.69 113.75 114.06	114.15 113.96 114.50 113.97 114.38 114.17	114.36 113.96 114.42 114.48 114.70 114.38	113.90 114.50 114.29 113.88 114.13 114.24	113.86 114.36 114.16 114.14 114.09 114.10	113.78 113.91 114.20 114.40 114.29 113.72	114.23 114.07 114.39 114.43 114.31 114.56	114.32 114.08 114.25 114.23 114.58 114.44	114.30 114.45 114.58 114.50 114.46 114.64	114.56 114.66 114.45 114.56 114.32 114.62
MIN	113.66	113.49	113.69	113.53	113.46	113.85	113.86	113.72	114.00	114.05	114.29	113.98
WTR YR	2003	HIGH 113.4	6 FEB 3									
					VATER LEV YEAR OCT							
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	114.49 114.49 114.30 114.42 114.53 114.44	114.39 113.72 114.42 114.34 114.65 114.25	114.53 114.54 114.16 113.81 114.37 114.30	114.29 114.31 114.68 114.38 114.66 114.47	114.58 114.30 114.77 114.69 114.90 114.49	114.29 114.66 114.41 114.11 114.28 114.52	114.68 114.58 114.42 114.34 114.21 114.36	114.09 114.14 114.35 114.73 114.40 114.35	114.39 114.29 114.48 114.55 114.50 114.63	114.47 114.31 114.47 114.49 114.68 114.49	114.34 114.51 114.80 114.61 114.50 114.77	114.65 114.69 114.53 114.72 114.50 114.71
MAX	114.72	114.67	114.90	114.88	114.90	114.72	114.80	114.81	114.63	114.68	114.89	114.73
WTD VD	2002	I OW 1140	0 DEC 2									



PARKE COUNTY

393619087043001. Local number, PA 6.

LOCATION.--Lat $39^{\circ}36'19''$, $\log 87^{\circ}04'30''$, in $SE^{1}_{4}SW^{1}_{4}SE^{1}_{4}$ sec.33, T.14 N., R.6 W., Parke County, Hydrologic Unit 05120111, (BRAZIL EAST, IN quadrangle), on county right-of-way on north side of road at the Parke-Clay county line, 1.7 mi east of Carbon, 2.6 mi east of State Highway 59, and 6.2 mi north of Brazil.

Owner: U.S. Geological Survey.

AQUIFER .-- Sandstone of Pennsylvanian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 155 ft, cased to 46 ft, open end.

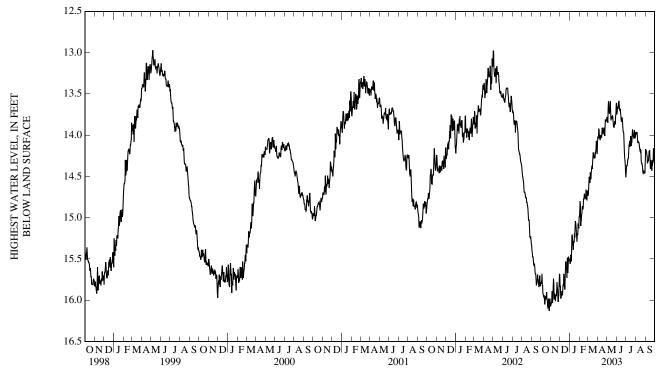
INSTRUMENTATION .-- Water-level recorder.

DATUM.--Elevation of land-surface datum is 703.24 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of shelf, 2.40 ft above land-surface datum.

PERIOD OF RECORD.--July 1967 to August 1971, September 1971 to September 1981 (well taped semi-annually). October 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 11.53 ft below land-surface datum, Apr. 19, 1970; lowest, 16.87 ft below land-surface datum, Oct. 30, 1988.

				HIGHEST V	VATER LEV	VEL. FEET I	BELOW LA	ND SURFA	CE			
						OBÉR 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15	15.82 15.96 15.95	15.89 15.74 15.94	15.96 15.85 15.77	15.47 15.26 15.30	15.10 14.87 14.78	14.51 14.53 14.34	13.94 14.03 13.91	13.59 13.66 13.78	13.68 13.69 13.83	14.33 14.12 14.01	13.97 14.09 14.20	14.24 14.31 14.28
20 25 EOM	15.98 15.98 16.07	15.89 16.02 15.69	15.58 15.49 15.52	15.06 15.21 14.99	14.77 14.79 14.73	14.28 14.20 14.09	13.92 13.81 13.78	13.83 13.83 13.61	13.90 14.21 14.51	14.02 14.03 14.00	14.34 14.45 14.29	14.38 14.33 14.36
MIN	15.68	15.68	15.47	14.99	14.66	14.07	13.78	13.59	13.59	13.93	13.96	14.16
WTR YR	2003	HIGH 13.59	MAY 5									
				LOWEST V	VATER LEV	/EL, FEET I	BELOW LA	ND SURFA	CE			
				LOWEST WATER		/EL, FEET I OBER 2002						
DAY	OCT	NOV	DEC							JUL	AUG	SEP
5 10 15 20	15.91 16.01 16.01 16.04	16.10 15.85 16.03 16.02	DEC 16.02 15.93 15.87 15.66	JAN 15.53 15.33 15.35 15.10	YEAR OCT FEB 15.17 14.97 14.88 14.83	MAR 14.60 14.58 14.44 14.35	APR 14.13 14.06 14.01 13.96	MBER 2003 MAY 13.67 13.77 13.85 13.91	JUN 13.72 13.75 13.88 13.95	14.47 14.21 14.13 14.10	14.06 14.17 14.23 14.36	14.30 14.37 14.39 14.44
5 10 15	15.91 16.01 16.01	16.10 15.85 16.03	DEC 16.02 15.93 15.87	WATER JAN 15.53 15.33 15.35	YEAR OCT FEB 15.17 14.97 14.88	MAR 14.60 14.58 14.44	APR 14.13 14.06 14.01	MBER 2003 MAY 13.67 13.77 13.85	JUN 13.72 13.75 13.88	14.47 14.21 14.13	14.06 14.17 14.23	14.30 14.37 14.39
5 10 15 20 25	15.91 16.01 16.01 16.04 16.12	16.10 15.85 16.03 16.02 16.05	DEC 16.02 15.93 15.87 15.66 15.67	WATER JAN 15.53 15.33 15.35 15.10 15.29	YEAR OCT FEB 15.17 14.97 14.88 14.83 14.87	MAR 14.60 14.58 14.44 14.35 14.22	APR 14.13 14.06 14.01 13.96 13.92	MBER 2003 MAY 13.67 13.77 13.85 13.91 13.87	JUN 13.72 13.75 13.88 13.95 14.32	14.47 14.21 14.13 14.10 14.09	14.06 14.17 14.23 14.36 14.52	14.30 14.37 14.39 14.44 14.41



POSEY COUNTY

380758087551001. Local number, PY 3.

LOCATION.--Lat $38^{\circ}07'58''$, long $87^{\circ}55'10''$, in $NW^{1}_{4}NW^{1}_{4}SW^{1}_{4}$ sec. 31, T.4 S., R.13 W., Posey County, Hydrologic Unit 05120113, (NEW HARMONY, IN-IL quadrangle) on property of the New Harmony Park Board, at the east edge of New Harmony. Owner: U.S. Geological Survey.

AQUIFER .-- Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 58 ft, cased to 54ft, screened to 56 ft.

INSTRUMENTATION .-- Water-level recorder.

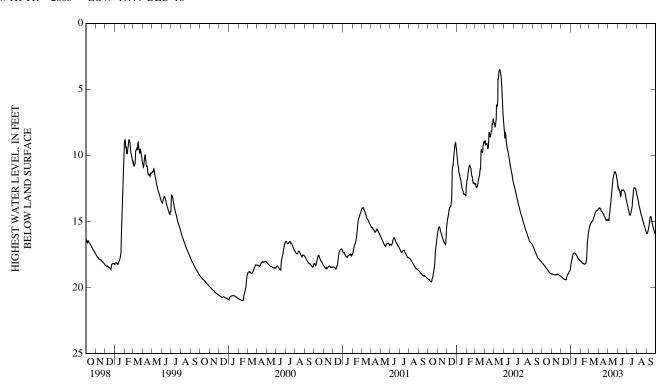
DATUM.—Elevation of land-surface datum is 380.55 (revised) ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of floor of shelter, 3.00 ft above land-surface datum.

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, 3.51 ft below land-surface datum, May 19, 2002; lowest, 21.40 ft below land-surface datum, Nov. 4, 8-15, 1988.

								ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	18.25 18.39 18.55 18.72 18.88 18.97	18.98 19.04 19.03 18.99 19.07 19.13	19.26 19.36 19.41 19.14 18.92 18.57	17.84 17.41 17.45 17.55 17.80 17.97	18.09 18.17 18.21 17.96 16.16 15.70	15.19 15.03 14.76 14.37 14.20 14.05	14.04 14.23 14.41 14.67 14.86 14.85	14.44 13.41 12.05 11.40 11.37 12.02	12.60 13.09 12.65 12.66 13.01 13.61	14.12 14.53 14.08 12.93 12.45 12.88	13.40 14.01 14.52 14.95 15.36 15.82	15.76 15.16 14.64 15.26 15.70 16.02
MIN	18.13	18.98	18.57	17.39	15.70	14.05	13.98	11.23	12.37	12.45	12.97	14.62
WTR YR	2003	HIGH 11.23	3 MAY 22									
								ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	18.27 18.42 18.58 18.75 18.90 18.98	19.01 19.05 19.05 19.01 19.09 19.17	19.27 19.37 19.41 19.22 18.94 18.71	17.94 17.44 17.47 17.61 17.82 17.99	18.12 18.21 18.24 18.11 16.42 15.81	15.24 15.08 14.84 14.47 14.24 14.12	14.17 14.28 14.44 14.73 14.93 14.89	14.81 13.67 12.30 11.48 11.44 12.37	12.68 13.20 12.67 12.72 13.11 13.70	14.22 14.56 14.20 13.21 12.48 12.97	13.53 14.11 14.58 15.03 15.44 15.85	15.87 15.31 14.73 15.37 15.79 16.03
MAX	18.98	19.17	19.44	18.57	18.25	15.70	14.99	15.01	13.70	14.56	15.85	16.03
WTR YR	2003	LOW 19.44	DEC 18									



POSEY COUNTY

380546087474301. Local number, PY 5.

LOCATION.--Lat $38^{\circ}05'46''$, long $87^{\circ}47'43''$, in $NE^{1}_{4}NW^{1}_{4}NE^{1}_{4}$ sec. 18, T.5S., R.12W., Posey County, Hydrologic Unit 05120113, (WADESVILLE, IN quadrangle), about 0.5 mi southwest of Wadesville along the west edge of Laurel Hill Cemetary. Owner: U.S. Geological Survey

AQUIFER .-- Sandstone of Pennsylvanian age.

WELL CHARACTERISTICS .-- Drilled artesian well, diameter 6 in., depth 221 ft, cased to 160 ft, open end.

INSTRUMENTATION .-- Water-level recorder.

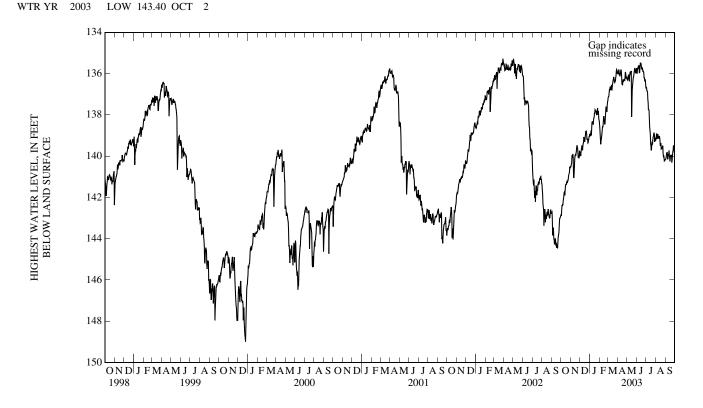
DATUM.--Elevation of land-surface datum is 460.60 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.60 ft above landsurface datum.

REMARKS.--Water level record may be affected by pumpage.

PERIOD OF RECORD .-- September 1988 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 132.83 ft below land-surface datum, Mar. 27, 1991; lowest, 151.99 ft below land-surface datum, Sept. 18, 1999.

			1			VEL, FEET 1 OBER 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	142.42 141.91 141.45 141.23 140.95 140.52	139.95 140.93 139.97 139.61 140.07 139.77	139.68 139.49 139.28 138.82 139.17 139.04	138.76 138.34 138.12 137.82 137.75 138.26	139.42 138.74 138.06 138.15 137.86 137.31	136.78 136.75 136.51 136.24 136.21 135.91	135.89 135.92 136.42 136.31 135.92 136.19	136.05 135.97 138.10 136.26 135.75 135.74	135.68 135.94 135.61 135.88 136.18 136.68	136.88 137.77 139.40 139.30 138.92 139.25	139.16 139.15 139.50 139.66 140.02 140.16	139.85 139.92 140.26 139.96 139.74 139.76
MIN	140.52	139.47	138.80	137.67	137.31	135.80	135.80	135.74	135.49	136.66	138.92	139.50
WTR YR	2003	HIGH 135.4	49 JUN 12									
						/EL, FEET I OBER 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	142.64 142.21 141.74 141.53 141.32 140.73	140.44 141.41 140.16 139.89 140.21 140.17	139.92 139.78 139.52 139.03 139.38 139.44	139.14 138.56 138.41 138.03 138.08 138.55	139.69 139.00 138.47 138.53 138.20 137.58	136.98 137.05 136.80 136.49 136.43 136.24	136.43 136.20 140.64 136.49 136.21 136.50	136.36 136.16 142.65 136.50 135.99 136.46	136.07 136.38 136.04 136.21 136.85 136.94	137.69 138.73 140.06 140.76 139.10 139.68	140.03 139.50 140.33 139.95 140.37 140.53	140.32 140.55 140.68 140.90 139.92 139.94
MAX	143.40	141.41	140.35	139.36	139.69	137.37	140.64	142.65	137.51	141.26	142.85	141.56



GROUND-WATER DATA

PULASKI COUNTY

405916086530701. Local number, PU 6.

LOCATION.--Lat $40^{\circ}59'16''$, long $86^{\circ}53'07''$, in $NW^{1}_{4}SE^{1}_{4}SW^{1}_{4}$ sec.4, T.29 N., R.4 W., Pulaski County, Hydrologic Unit 05120106, (FRANCESVILLE, IN quadrangle), on private property at the north edge of Francesville. Owner: Earl Overmeyer.

AQUIFER .-- Limestone of Devonian age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 8 in., depth 663 ft, cased to 11 ft, open end.

INSTRUMENTATION .-- Water-level recorder.

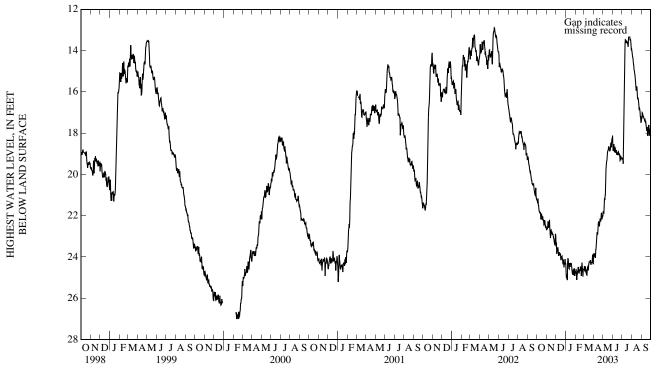
DATUM.--Elevation of land-surface datum is 678.60 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.00 ft above land-surface datum.

REMARKS.--Water level affected by pumpage and earthquakes.

PERIOD OF RECORD.--July 1956 to February 1971, January 1974 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.03 ft below land-surface datum, June 15, 1958; lowest, 27.91 ft below land-surface datum, Apr. 5, 1996.

трг. э,	1,,,0.											
				HIGHEST V WATER				ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	21.48 21.87 21.90 22.17 22.24 22.64	22.27 22.20 22.69 22.93 23.26 22.96	23.55 23.84 23.86 23.96 24.12 24.33	24.87 24.34 24.48 24.47 24.60 24.69	25.11 24.48 24.59 24.92 24.95 24.59	24.46 24.88 24.44 24.24 24.26 24.11	23.91 23.14 22.41 22.30 21.86 22.02	21.16 19.75 18.89 18.67 18.49 18.12	18.82 18.95 19.01 18.99 19.29 19.26	18.67 13.67 13.52 13.81 13.30 13.92	14.49 15.12 15.94 16.34 16.79 17.45	17.12 17.33 17.58 18.05 17.98 18.12
MIN	21.16	22.20	23.30	24.06	24.27	23.88	21.86	18.12	18.53	13.12	14.03	17.01
WTR YR	2003	HIGH 13.12	2 JUL 23									
								ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	22.08 22.21 22.26 22.64 22.62 23.07	22.86 22.76 23.24 23.35 23.70 23.86	23.97 24.06 24.45 24.42 24.69 24.88	25.38 24.88 24.93 25.00 24.96 25.10	25.40 25.09 25.11 25.50 25.26 24.96	24.98 25.18 24.84 24.66 24.66 24.68	24.57 23.54 23.03 22.72 22.27 22.54	21.66 20.51 19.28 19.17 18.96 18.98	19.27 19.35 19.43 19.47 19.70 19.71	19.54 14.46 13.93 14.10 13.79 14.37	14.82 15.51 16.23 16.72 17.22 17.80	17.48 17.76 17.97 18.44 20.53 18.41
MAX	23.07	25.17	24.88	25.48	25.50	25.22	24.57	22.34	19.71	19.90	17.81	20.53
WTR YR	2003	LOW 25.50	FEB 20									



PULASKI COUNTY

410739086365201. Local number, PU 7.

LOCATION.--Lat 41°07'39", long 86°36'52", in $NE^{1}_{4}NE^{1}_{4}NW^{1}_{4}$ sec.23, T.31 N., R.2 W., Pulaski County, Hydrologic Unit 05120106, (BASS LAKE, IN quadrangle), 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.

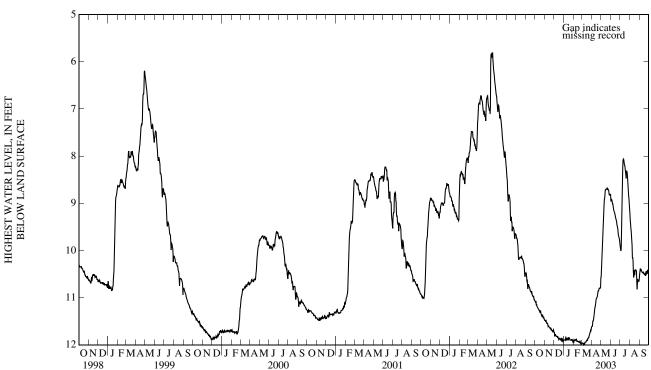
INSTRUMENTATION .-- Water-level recorder.

DATUM.--Elevation of land-surface datum is 715.26 ft above National Geodetic Vertical Datum of 1929. 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, 12.01 ft below land-surface datum, Mar. 9, 2003.

HIGHEST WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
5 10 15 20 25 EOM	11.16 11.22 11.27 11.34 11.36 11.47	11.47 11.54 11.62 11.66 11.70 11.71	11.78 11.82 11.86 11.87 11.86 11.92	11.89 11.90 11.89 11.87 11.89 11.90	11.91 11.88 11.92 11.95 11.98 11.97	11.97 11.95 11.91 11.86 11.77 11.63	11.50 11.26 11.03 10.91 10.80 10.58	9.93 9.06 8.72 8.68 8.73 8.81	8.96 9.14 9.27 9.43 9.68 9.85	9.68 8.09 8.19 8.47 8.54 9.12	9.59 10.15 10.42 10.41 10.68 10.60 9.21	10.42 10.47 10.49 10.54 10.50 10.46	
WTR YR	2003	HIGH 8.06		11.84	11.88	11.03	10.58	8.08	8.92	8.06	9.21	10.39	
					YEAR OCT	OBER 2002	TO SEPTE	MBER 2003					
DAY	OCT	NOV	DEC							JUL	AUG	SEP	
DAY 5 10 15 20 25 EOM MAX WTR YR	OCT 11.19 11.23 11.30 11.37 11.40 11.49 11.49 2003	NOV 11.54 11.58 11.65 11.67 11.72 11.79 11.79 LOW 12.01	11.80 11.82 11.89 11.89 11.93 11.93	WATER	YEAR OCT	OBER 2002	TO SEPTE	MBER 2003		JUL 9.98 8.25 8.22 8.50 8.66 9.21 10.02	9.70 10.22 10.52 10.42 10.45 10.68	SEP 10.44 10.48 10.50 10.56 10.54 10.48	



GROUND-WATER DATA

RANDOLPH COUNTY

401532085085301. Local number, RA 3.

LOCATION.--Lat $40^{\circ}15'32''$, long $85^{\circ}08'53''$, in NE $^{1}_{4}$ NE $^{1}_{4}$ Se $^{1}_{4}$ sec.23, T.21 N., R.12 E., Randolph County, Hydrologic Unit 05120103, (REDKEY, IN quadrangle), at the east edge of Purdue University Agriculture Experiment Station, about 5.5 mi north of Farmland. Owner: U.S. Geological Survey.

AQUIFER .-- Limestone of Silurian age.

WELL CHARACTERISTICS .-- Drilled artesian well, diameter 6 in., depth 54 ft, cased to 33 ft, open end.

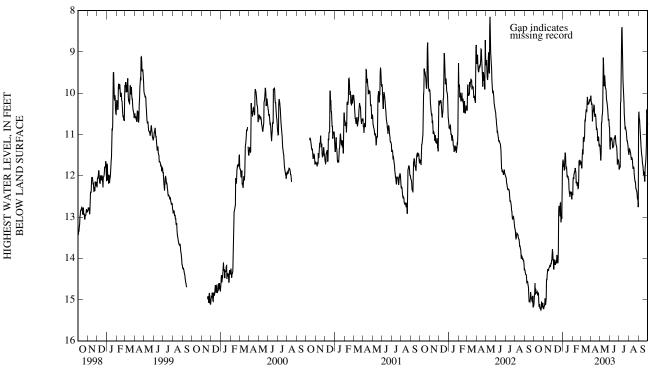
INSTRUMENTATION .-- Water-level recorder.

DATUM.--Elevation of land-surface datum is 969.67 ft above National Geodetic Vertical Datum of 1929. 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, 15.32 ft below land-surface datum, Oct. 22-23, 2002.

HIGHEST WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
5 10 15 20 25 EOM	14.88 14.83 14.84 15.22 15.05 15.22 14.60	14.97 14.52 14.28 14.20 14.14 13.86	14.03 14.07 14.02 12.73 12.66 11.84	11.72 11.53 12.03 12.09 12.40 12.43	12.08 11.81 12.16 12.30 11.75 11.70	11.42 11.18 10.59 10.25 10.26 10.15	10.28 10.36 10.50 10.85 11.05 11.25	10.72 9.75 9.57 9.93 10.39 10.83 9.14	11.12 11.33 11.09 11.20 11.73 11.73	10.23 8.40 10.06 10.87 11.09 11.44 8.40	11.41 11.56 11.81 12.11 12.34 12.76	10.79 11.41 11.78 12.12 11.50 10.76	
WTR YR	2003	HIGH 8.40	JUL 10										
				LOWEST W WATER				ND SURFA MBER 2003	CE				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
5 10 15 20 25 EOM	14.97 14.88 15.05 15.28 15.23 15.28	15.20 14.97 14.38 14.33 14.19 14.20	14.13 14.15 14.13 12.86 13.13 12.34	11.87 11.74 12.17 12.31 12.51 12.58	12.17 12.01 12.32 12.46 11.91 11.84	11.66 11.30 10.72 10.43 10.38 10.29	10.76 10.44 10.59 10.89 11.09 11.36	11.44 10.42 9.83 10.13 10.54 11.28	11.20 11.40 11.19 11.29 11.81 11.88	11.82 8.92 10.21 10.93 11.18 11.51	11.44 11.61 11.88 12.17 12.44 12.85	10.92 11.51 11.88 12.24 11.65 10.83	
MAX	15.32	15.29	14.37	12.66	12.54	11.92	11.36	11.72	11.88	11.90	12.85	12.76	
WTR YR	2003	LOW 15.32	OCT 22										
	S												



ST. JOSEPH COUNTY

413120086055601. Local number, SJ 31.

LOCATION.--Lat 41°31'20", long 86°05'56", in $SE^{1}_{4}SE^{1}_{4}SE^{1}_{4}SE^{1}_{4}$ sec.31, T.36 N., R.4 E., St. Joseph County, Hydrologic Unit 07120001, (WAKARUSA, IN quadrangle), 4 mi west of Wakarusa. Owner: U.S. Geological Survey.

AQUIFER .-- Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS .-- Drilled artesian well, diameter 6 in., depth 109 ft, cased to 104 ft, screened to 109 ft.

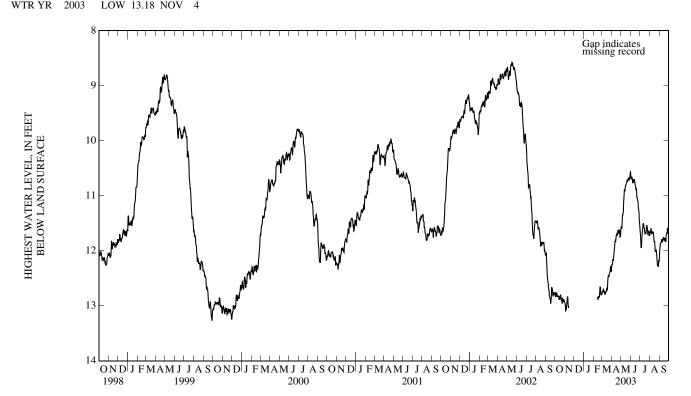
INSTRUMENTATION .-- Water-level recorder.

DATUM.--Elevation of land-surface datum is 830.50 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.40 ft above land-surface datum.

PERIOD OF RECORD.--August 1986 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.71 ft below land-surface datum, Jan. 23, 1991; lowest, 13.29 ft below land-surface datum, Sept. 28, 1999.

								ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	12.79 12.83 12.83 12.85 12.87 12.93	13.08 12.83 12.83	 	 	12.86 12.85 12.80 12.79	12.69 12.80 12.71 12.48 12.40 12.31	12.16 11.91 11.73 11.65 11.63 11.62	11.35 11.02 10.81 10.71 10.70 10.57	10.67 10.76 10.81 11.03 11.23 11.59	11.91 11.52 11.64 11.66 11.70 11.73	11.60 11.69 11.84 12.00 12.26 12.18	11.85 11.83 11.80 11.81 11.69 11.64
WTR YR	2003	HIGH 10.57	MAY 31									
				WATER	YEAR OCT	OBER 2002	TO SEPTE	ND SURFA MBER 2003	i			
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	12.84 12.84 12.89 12.90 12.98 12.96	13.18 12.88 	 	 	12.93 12.89 12.85 12.82	12.75 12.84 12.75 12.56 12.46 12.39	12.23 11.99 11.80 11.71 11.67 11.79	11.47 11.10 10.84 10.78 10.73 10.71	10.74 10.78 10.86 11.12 11.44 11.67	12.00 11.60 11.73 11.71 11.75 11.80	11.69 11.73 11.87 12.02 12.39 12.24	11.88 11.86 11.87 11.88 11.74 11.64
MAX	13.16	13.18			12.96	12.84	12.32	11.64	11.67	12.07	12.41	12.19
WTP VP	2003	LOW 13 18	NOV 4									



GROUND-WATER DATA

SHELBY COUNTY

393943085490901. Local number, SH 2.

LOCATION.--Lat 39°39'43", long 85°49'09", in $SW^{1}_{4}SW^{1}_{4}NW^{1}_{4}$ sec.13, T.14 N., R.6 E., Shelby County, Hydrologic Unit 05120204, (FOUNTAINTOWN, IN quadrangle), 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.

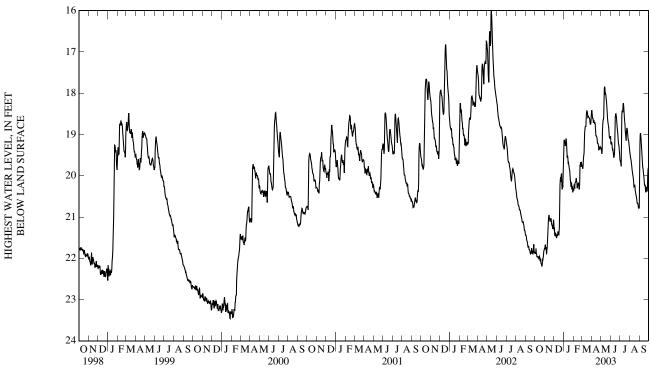
INSTRUMENTATION .-- Water-level recorder.

DATUM.--Elevation of land-surface datum is 816.10 ft above National Geodetic Vertical Datum of 1929. 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, 23.51 ft below land-surface datum, Ian 28, 2000

								ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	21.89 21.96 21.95 22.12 22.01 21.77	21.73 21.50 20.96 21.09 21.21 21.09	21.38 21.46 21.42 20.22 19.96 19.70	19.17 19.22 19.69 19.86 20.19 20.33	20.31 20.06 20.24 20.33 19.78 19.74	19.58 18.87 18.47 18.58 18.62 18.46	18.62 18.73 19.03 19.21 19.31 19.32	18.89 18.30 18.02 18.43 18.84 19.04	19.29 19.55 18.57 18.69 19.21 19.60	18.85 18.29 18.68 19.15 19.01 19.38	19.65 19.97 20.26 20.44 20.67 20.78	19.04 19.68 20.06 20.35 20.38 19.80
MIN	21.76	20.96	19.70	19.11	19.67	18.43	18.41	17.84	18.50	18.24	19.45	18.97
WTR YR	2003	HIGH 17.84	MAY 12									
								ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	22.00 22.00 22.01 22.17 22.17 21.83	21.90 21.74 21.05 21.16 21.29 21.33	21.45 21.52 21.50 20.64 20.23 20.07	19.28 19.41 19.78 19.99 20.27 20.44	20.37 20.15 20.31 20.40 19.84 19.83	19.75 18.95 18.57 18.67 18.72 18.57	18.77 18.76 19.09 19.25 19.36 19.38	19.40 18.66 18.09 18.58 18.95 19.21	19.40 19.61 18.82 18.82 19.29 19.69	19.83 18.49 18.75 19.23 19.12 19.46	19.73 20.04 20.31 20.50 20.70 20.87	19.19 19.80 20.15 20.43 20.47 19.84
MAX	22.23	21.97	21.60	20.45	20.41	19.94	19.43	19.54	19.69	19.87	20.87	20.79
WTR YR	2003	LOW 22.23	OCT 22									
	16	, 				111111	1111	11111		 	 	



STARKE COUNTY

411342086365601. Local number, SK 2.

LOCATION.--Lat $41^{\circ}13'42''$, long $86^{\circ}36'56''$, in $NW^{1}_{4}NE^{1}_{4}NW^{1}_{4}$ sec. 14, T.32 N., R.2 W., Starke County, Hydrologic Unit 07120001, (BASS LAKE, IN quadrangle), 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.

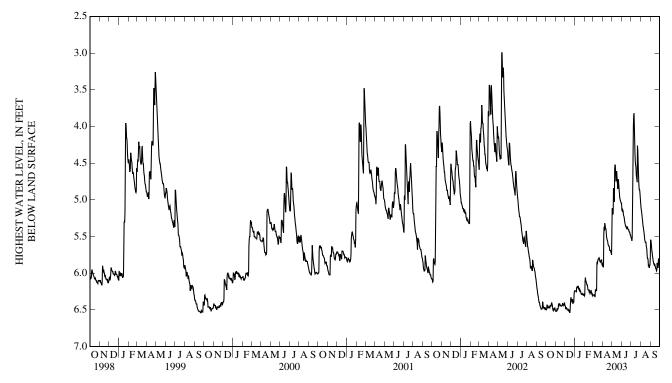
INSTRUMENTATION .-- Water-level recorder.

DATUM.--Elevation of land-surface datum is 712.97 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of floor of shelter, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--October 1935 to December 1952 (random instantaneous measurements only), August 1963 to October 1966, June 1976 to October 2003 (discontinued).

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.

								AND SURFA EMBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	6.48 6.47 6.44 6.42 6.48 6.51	6.48 6.42 6.43 6.45 6.43 6.43	6.47 6.50 6.52 6.33 6.36 6.25	6.24 6.18 6.23 6.25 6.28 6.28	6.10 6.16 6.23 6.27 6.29 6.31 6.06	6.29 6.24 5.86 5.79 5.84 5.87	5.37 5.40 5.55 5.63 5.69 5.30 5.30	4.84 4.52 4.61 4.72 4.97 5.05	5.16 5.30 5.38 5.40 5.44 5.51	5.25 3.82 4.53 4.76 4.76 5.04 3.82	5.24 5.42 5.58 5.68 5.91 5.80 5.09	5.70 5.85 5.89 5.97 5.93 5.89 5.55
WTR YR	2003	HIGH 3.82	JUL 10									
								ND SURFACEMBER 2003				
DAY	OCT	NOV	DEC							JUL	AUG	SEP
DAY 5 10 15 20 25 EOM	OCT 6.49 6.48 6.45 6.43 6.51 6.52	NOV 6.54 6.48 6.46 6.48 6.44 6.48	DEC 6.48 6.50 6.54 6.36 6.42 6.28	WATER	YEAR OCT	OBER 2002	TO SEPTE	EMBER 2003		JUL 5.52 3.99 4.56 4.80 4.84 5.09	AUG 5.28 5.45 5.58 5.76 5.94 5.93	SEP 5.73 5.87 5.91 5.98 5.94 5.90
5 10 15 20 25	6.49 6.48 6.45 6.43 6.51	6.54 6.48 6.46 6.48 6.44	6.48 6.50 6.54 6.36 6.42	WATER JAN 6.26 6.20 6.25 6.28 6.30	YEAR OCT FEB 6.11 6.21 6.27 6.29 6.32	MAR 6.33 6.25 5.88 5.81 5.87	APR 5.46 5.41 5.56 5.64 5.71	MAY 5.19 4.58 4.73 4.88 4.99	JUN 5.21 5.32 5.39 5.41 5.45	5.52 3.99 4.56 4.80 4.84	5.28 5.45 5.58 5.76 5.94	5.73 5.87 5.91 5.98 5.94



GROUND-WATER DATA

STEUBEN COUNTY

414204085054002. Local number, SB 6.

LOCATION.--Lat 41°42'04", long 85°05'40", in $SE^{1}_{4}SE^{1}_{4}SW^{1}_{4}$ sec.36, T.38 N., R.12 E., Steuben County, Hydrologic Unit 04050001, (ANGOLA WEST, IN quadrangle), 0.5 east of Panama on the north side of the Lake Gage Congregational Church. Owner: U.S. Geological Survey.

AQUIFER .-- Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 76 ft, cased to 71 ft, screened to 76 ft.

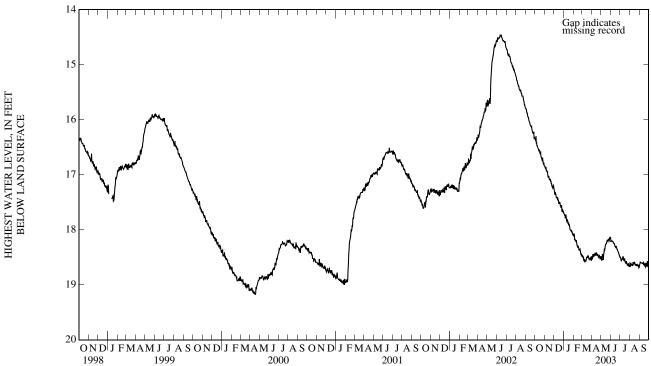
INSTRUMENTATION .-- Water-level recorder.

DATUM.--Elevation of land-surface datum is 987.89 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.60 ft above land-surface datum.

PERIOD OF RECORD.--August 1986 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.46 ft below land-surface datum, June 14, 2002; lowest, 19.30 ft below land-surface datum, Mar. 1, 2, 1995.

HIGHEST WATER LEVEL, FEET BELOW LAND SURFACE WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
5 10 15 20 25 EOM	16.43 16.51 16.55 16.67 16.69 16.84	16.86 16.93 17.06 17.13 17.22 17.23	17.33 17.41 17.47 17.51 17.56 17.69	17.74 17.83 17.89 17.95 18.01 18.08	18.19 18.19 18.32 18.37 18.46 18.48	18.50 18.58 18.51 18.47 18.52 18.52	18.45 18.44 18.42 18.45 18.47 18.48	18.44 18.42 18.27 18.20 18.19 18.13	18.21 18.24 18.31 18.35 18.41 18.50	18.55 18.48 18.52 18.61 18.65 18.67	18.64 18.65 18.59 18.64 18.64 18.68	18.60 18.61 18.62 18.68 18.67 18.66	
WTR YR	2003	HIGH 16.30		17.09	16.07	10.47	10.42	10.13	16.20	10.40	16.39	16.57	
				LOWEST W				ND SURFA MBER 2003					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
5 10 15 20 25 EOM	16.49 16.53 16.60 16.71 16.75 16.87	16.95 17.01 17.11 17.16 17.25 17.34	17.38 17.43 17.54 17.57 17.67 17.74	17.79 17.87 17.94 18.00 18.03 18.12	18.22 18.29 18.39 18.40 18.49 18.51	18.58 18.62 18.54 18.52 18.55 18.58	18.57 18.47 18.46 18.48 18.51 18.55	18.54 18.48 18.31 18.26 18.23 18.24	18.26 18.28 18.35 18.36 18.46 18.52	18.58 18.55 18.58 18.63 18.68 18.70	18.65 18.68 18.62 18.66 18.68 18.72	18.64 18.63 18.64 18.71 18.71 18.68	
MAX	16.87	17.34	17.74	18.13	18.51	18.63	18.57	18.59	18.52	18.70	18.73	18.71	
WTR YR	2003	LOW 18.73	AUG 30										



TIPPECANOE COUNTY

402734087033401. Local number, TC 17.

LOCATION.--Lat $40^{\circ}27'34''$, long $87^{\circ}03'34''$, $NW^{1}/_{4}NE^{1}/_{4}NE^{1}/_{4}$ sec. 11, T.23 N., R.6 W., Tippecanoe County, Hydrologic Unit 05120108, (OTTERBEIN, IN quadrangle), 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.

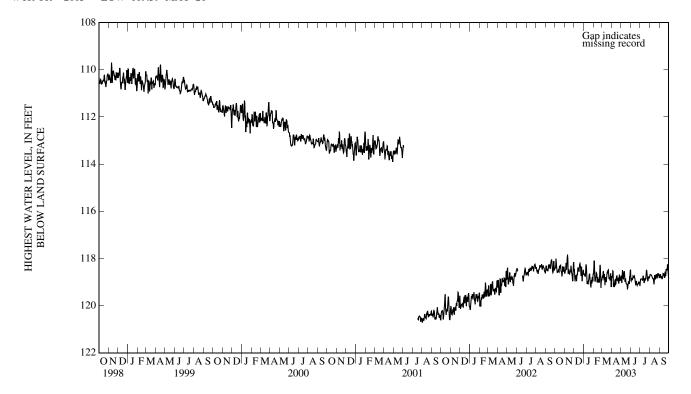
DATUM.--Elevation of land-surface datum is 681 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 3.60 ft above land-surface datum.

REMARKS.--The hydrograph reflects a large change in water levels following a redevelopment of the well in July 2001. A June 2001 slug test indicated well-screen degradation had occurred and was potentially affecting measurement accuracy.

PERIOD OF RECORD .-- August 1989 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 109.69 ft below land-surface datum, Nov. 10, 1998; lowest, 121.28 ft below land-surface datum, Aug. 18, 1989.

datum,	71ug. 10,	1707.										
			I					ND SURFA				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	118.21 118.58 118.35 118.50 118.37 118.53	118.19 117.84 118.48 118.56 118.76 118.16	118.84 118.75 118.42 118.21 118.38 118.53	118.64 118.46 119.10 118.66 118.94 118.66	118.77 118.60 118.81 119.02 119.24 118.91	118.54 119.13 118.87 118.50 118.82 118.99	118.55 119.03 118.85 118.85 118.71 118.79	118.49 118.60 118.86 119.10 118.98 118.47	118.90 118.83 119.00 119.11 119.07 119.16	118.87 118.73 118.87 118.68 118.95 118.79	118.70 118.85 118.94 118.80 118.76 118.83	118.81 118.83 118.70 118.73 118.50 118.87
MIN	118.00	117.84	118.21	118.27	118.09	118.48	118.53	118.47	118.74	118.48	118.64	118.27
WTR YR	2003	HIGH 117.8	84 NOV 10									
]					ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	118.59 118.61 118.57 118.60 118.68 118.64	118.59 118.00 118.68 118.71 118.96 118.61	118.97 118.96 118.55 118.31 118.79 118.72	118.77 118.85 119.17 118.87 119.23 118.97	119.01 118.79 119.09 119.16 119.38 118.97	118.75 119.23 119.00 118.59 118.93 119.22	119.22 119.21 119.07 118.96 118.85 118.97	118.74 118.77 119.00 119.32 119.02 118.92	119.02 118.94 119.11 119.24 119.17 119.23	118.94 118.89 119.02 118.86 119.03 118.84	118.73 118.91 119.10 118.88 118.84 118.98	118.88 118.88 118.78 118.88 118.70 118.97
MAX	118.87	118.99	119.19	119.37	119.38	119.26	119.34	119.39	119.24	119.18	119.15	118.97
WTR YR	2003	LOW 119.3	9 MAY 21									



TIPPECANOE COUNTY

402734087033402. Local number, TC 18.

LOCATION.--Lat $40^{\circ}27'34''$, long $87^{\circ}03'34''$, $NW^{1}_{4}NE^{1}_{4}NE^{1}_{4}$ sec. 11, T.23 N., R.6 W., Tippecanoe County, Hydrologic Unit 05120108, (OTTERBEIN, IN quadrangle), 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.

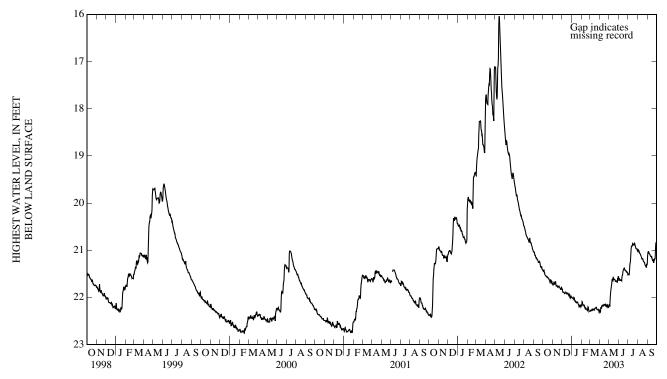
INSTRUMENTATION .-- Water-level recorder.

DATUM.--Elevation of land-surface datum is 681 ft above National Geodetic Vertical Datum of 1929, 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, 16.05 ft below land-surface datum, May 13-14, 2002; lowest, 22.79 ft below land-surface datum, Feb. 16-17, 2000.

				HIGHEST WATER				ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	21.48 21.55 21.57 21.62 21.62 21.71	21.67 21.66 21.75 21.78 21.81 21.80	21.89 21.91 21.91 21.91 21.93 22.00	22.02 22.05 22.11 22.10 22.17 22.17	22.15 22.17 22.23 22.28 22.30 22.29	22.27 22.27 22.26 22.21 22.26 22.30	22.23 22.17 22.15 22.15 22.16 22.20	21.93 21.64 21.59 21.63 21.65 21.56	21.64 21.65 21.43 21.42 21.46 21.52	21.44 21.00 20.86 20.89 20.95 21.02	21.04 21.11 21.19 21.25 21.33 21.29	21.06 21.12 21.17 21.26 21.19 20.84
MIN	21.41	21.66	21.83	22.00	22.09	22.21	22.15	21.56	21.38	20.84	20.99	20.84
WTR YR	2003	HIGH 20.84	JUL 21									
				LOWEST W WATER				ND SURFA MBER 2003				
DAY	OCT	NOV	DEC							JUL	AUG	SEP
DAY 5 10 15 20 25 EOM MAX	OCT 21.52 21.55 21.58 21.63 21.67 21.73	NOV 21.73 21.71 21.78 21.80 21.83 21.85 21.85	DEC 21.90 21.92 21.93 21.94 22.01 22.02 22.02	WATER '	YEAR OCT	OBER 2002	TO SEPTE	MBER 2003		JUL 21.56 21.11 20.91 20.97 21.03 21.56	AUG 21.05 21.13 21.20 21.26 21.34 21.38	SEP 21.08 21.14 21.20 21.29 21.22 20.85



VANDERBURGH COUNTY

380608087395901. Local number, VA 6.

LOCATION.--Lat 38°06′08", long 87°39′59", in $SE^{1}_{4}SW^{1}_{4}NW^{1}_{4}$ sec.8, T.5 S., R.11 W., Vanderburgh County, Hydrologic Unit 05120113, (KASSON, IN quadrangle), 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.

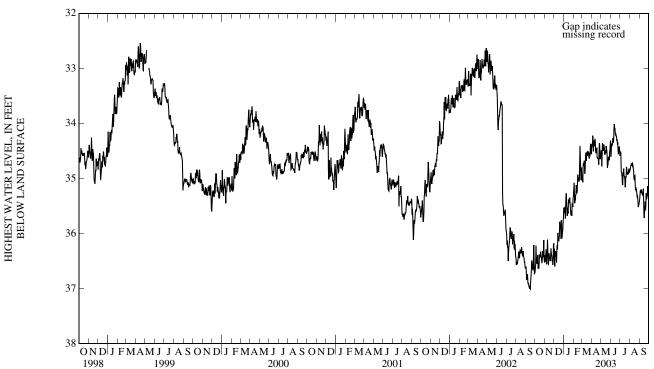
DATUM.--Elevation of land-surface datum is 446.57 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of floor of shelter, 3.40 ft above land-surface datum.

REMARKS .-- Water level may be affected by pumpage.

PERIOD OF RECORD .-- May 1965 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 24.88 ft below land-surface datum, Apr. 3, 4, 1968; lowest, 37.18 ft below land-surface datum, Sept. 13, 15, 2002.

ocpt. 13	5, 15, 20,	02.										
				HIGHEST V WATER	VATER LEV YEAR OCT	VEL, FEET 1 OBER 2002	BELOW LA TO SEPTE	ND SURFA MBER 2003	CE			
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	36.44 36.39 36.39 36.40 36.33 36.51	36.29 36.11 36.36 36.45 36.51 36.18	36.32 36.29 36.12 35.82 35.81 35.72	35.51 35.42 35.64 35.35 35.64 35.35	35.45 35.12 34.93 35.03 35.03 34.98	34.72 34.92 34.60 34.55 34.53 34.54	34.33 34.35 34.49 34.63 34.36 34.56	34.36 34.39 34.50 34.59 34.64 34.31	34.40 34.28 34.18 34.32 34.56 34.59	34.89 34.91 34.97 34.97 34.91 34.88	34.75 34.78 35.02 35.16 35.32 35.44	35.26 35.30 35.68 35.58 35.31 35.38
MIN	36.12	36.11	35.72	35.27	34.41	34.37	34.22	34.31	34.01	34.51	34.72	35.14
WTR YR	2003	HIGH 34.01	JUN 12									
						VEL, FEET I						
DAY	OCT	NOV	DEC							JUL	AUG	SEP
5 10 15 20 25 EOM	36.68 36.71 36.55 36.60 36.58 36.62	36.71 36.35 36.55 36.68 36.65 36.69	DEC 36.55 36.54 36.32 35.99 36.15 35.95	WATER JAN 35.84 35.62 35.79 35.53 35.85 35.68	YEAR OCT FEB 35.55 35.33 35.27 35.21 35.21 35.22	MAR 34.84 34.99 34.79 34.75 34.68 34.76	APR 34.70 34.48 34.72 34.84 34.57 34.73	MBER 2003 MAY 34.56 34.56 34.70 34.87 34.81 34.68	JUN 34.58 34.47 34.33 34.43 34.70 34.74	35.10 35.15 35.21 35.12 35.02 35.08	34.90 34.97 35.15 35.42 35.54 35.58	35.33 35.48 35.80 35.75 35.43 35.53
5 10 15 20 25	36.68 36.71 36.55 36.60 36.58	36.71 36.35 36.55 36.68 36.65	DEC 36.55 36.54 36.32 35.99 36.15 35.95	JAN 35.84 35.62 35.79 35.53 35.85	YEAR OCT FEB 35.55 35.33 35.27 35.21 35.21	MAR 34.84 34.99 34.79 34.75 34.68	APR 34.70 34.48 34.72 34.84 34.57	MBER 2003 MAY 34.56 34.56 34.70 34.87 34.81	JUN 34.58 34.47 34.33 34.43 34.70	35.10 35.15 35.21 35.12 35.02	34.90 34.97 35.15 35.42 35.54	35.33 35.48 35.80 35.75 35.43



VANDERBURGH COUNTY

380626087344401. Local number, VA 7.

LOCATION.--Lat $38^{\circ}06'26''$, long $87^{\circ}34'44''$, in NE $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.7, T.5 S., R.10 W., Vanderburgh County, Hydrologic Unit 05120113, (EVANSVILLE NORTH, IN quadrangle), 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.

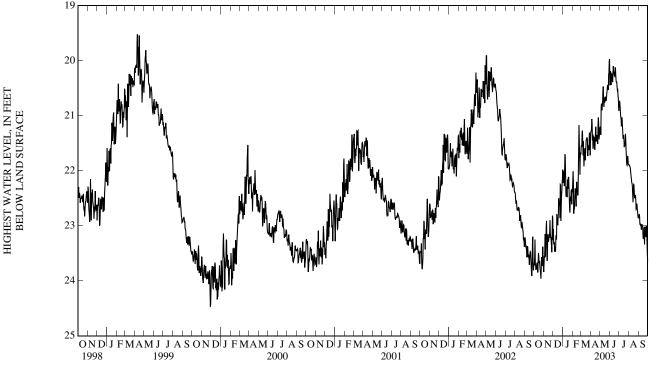
INSTRUMENTATION .-- Water-level recorder.

DATUM.--Elevation of land-surface datum is 475.35 ft above National Geodetic Vertical Datum of 1929. 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, 19.27 ft below land-surface datum, June 19, 1997; lowest, 25.06 ft below land-surface datum, Oct. 29, 1988

	, -,											
								ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	23.69 23.69 23.50 23.77 23.57 23.75	23.15 22.91 23.15 23.13 23.29 22.84	23.30 23.22 22.96 22.63 22.26 22.14	22.01 22.02 22.48 22.12 22.53 22.34	22.78 22.32 22.21 22.19 22.07 21.70	21.27 21.92 21.70 21.40 21.54 21.44	21.14 21.43 21.44 21.35 21.03 21.23	20.78 20.50 20.70 20.73 20.44 19.97	20.44 20.39 20.27 20.28 20.54 20.91	20.97 21.03 21.35 21.51 21.89 21.89	21.94 22.21 22.43 22.49 22.69 22.85	22.97 23.07 23.19 23.34 23.20 23.65
MIN	23.25	22.83	22.14	21.70	21.17	21.27	21.03	19.97	20.10	20.73	21.89	22.79
WTR YR	2003	HIGH 19.97	MAY 31									
								ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	23.95 23.80 23.65 23.85 23.81 23.84	23.61 23.20 23.31 23.36 23.48 23.38	23.50 23.47 23.17 22.71 22.91 22.32	22.28 22.39 22.61 22.32 22.76 22.61	22.93 22.59 22.47 22.51 22.38 21.80	21.49 22.09 21.81 21.55 21.67 21.74	21.74 21.58 21.63 21.45 21.17 21.36	20.87 20.71 20.78 20.85 20.50 20.45	20.51 20.56 20.33 20.44 20.65 20.98	21.04 21.14 21.45 21.60 21.97 21.95	21.99 22.30 22.61 22.55 22.76 22.96	23.04 23.14 23.30 23.44 23.40 23.68
MAX	24.08	23.94	23.70	22.96	22.93	22.09	21.76	21.43	20.98	21.99	22.96	23.68
WTR YR	2003	LOW 24.08	OCT 13		1111	11111	1111		1111	T		
			1									



VIGO COUNTY

392820087242601. Local number, VI 7.

LOCATION.--Lat 39°28'20", long 87°24'26", in $SE^{1}_{4}SE^{1}_{4}NE^{1}_{4}$ sec.21, T.12 N., R.9 W., Vigo County, Hydrologic Unit 05120111, (TERRE HAUTE, IN quadrangle), 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.

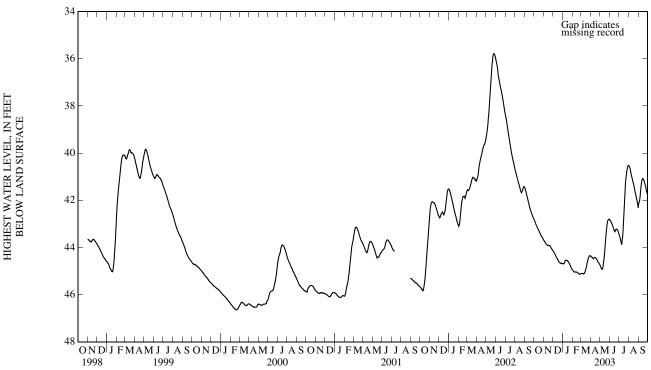
INSTRUMENTATION .-- Water-level recorder.

DATUM.--Elevation of land-surface datum is 502 ft above National Geodetic Vertical Datum of 1929, 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, 35.78 ft below land-surface datum, May. 25, 2002; lowest, 51.90 ft below land-surface datum, Sept. 29 to Oct. 1, 1972.

				HIGHEST WATER				ND SURFA MBER 2003	CE			
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	42.94 43.10 43.25 43.39 43.52 43.66 42.80	43.77 43.87 43.91 43.92 44.02 44.12	44.23 44.36 44.49 44.61 44.67 44.68	44.68 44.55 44.56 44.62 44.76 44.92 44.54	45.01 45.04 45.04 45.10 45.13 45.11 44.94	45.10 45.11 44.96 44.66 44.42 44.36 44.35	44.42 44.46 44.42 44.50 44.63 44.73	44.89 44.82 44.22 43.40 42.88 42.80	42.92 43.08 43.28 43.24 43.25 43.42 42.84	43.67 43.73 42.85 41.49 40.79 40.52	40.67 40.99 41.28 41.59 41.90 42.31 40.53	41.92 41.29 41.08 41.24 41.52 41.70 41.08
WTR YR	2003	HIGH 40.52	JUL 31									
				LOWEST W WATER				ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	42.98 43.13 43.27 43.42 43.54 43.69	43.79 43.88 43.92 43.92 44.04 44.14	44.25 44.39 44.51 44.62 44.68 44.69	44.69 44.56 44.56 44.65 44.79 44.94	45.02 45.04 45.05 45.11 45.14 45.12	45.11 45.12 45.01 44.74 44.45 44.36	44.44 44.48 44.43 44.52 44.64 44.76	44.90 44.92 44.38 43.55 42.94 42.84	42.96 43.11 43.31 43.28 43.27 43.46	43.73 43.86 43.12 41.72 40.89 40.53	40.74 41.04 41.33 41.65 41.96 42.37	42.02 41.40 41.09 41.30 41.60 41.73
MAX	43.69	44.14	44.69	44.94	45.14	45.12	44.76	44.95	43.46	43.88	42.37	42.36
WTR YR	2003	LOW 45.14	FEB 23									
	2	l										



WABASH COUNTY

404424085422801. Local number, WB 3.

LOCATION.--Lat $40^{\circ}44'24''$, long $85^{\circ}42'28''$, in $SE^{1}_{4}SE^{1}_{4}SW^{1}_{4}$ sec. 35, T.27 N., R.7 E., Wabash County, Hydrologic Unit 05120101, (LA FONTAINE, IN quadrangle), 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.

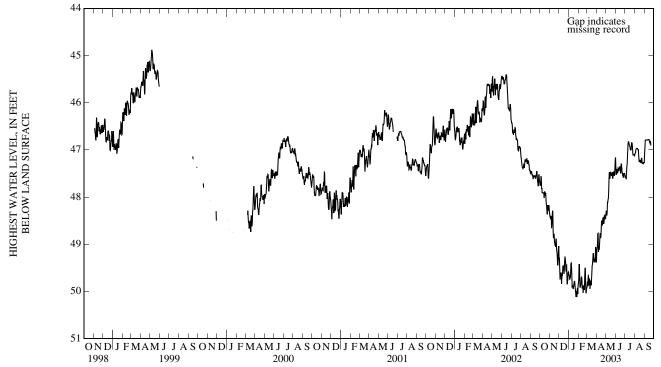
DATUM.--Elevation of land-surface datum is 850.45 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.50 ft above land-surface datum.

REMARKS.--Water level may be affected by pumpage.

PERIOD OF RECORD.--August 1986 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 43.85 ft below land-surface datum, Mar. 27, 1991 and Apr. 1, 1993; lowest, 50.18 ft below land-surface datum, Jan. 24, 2003.

iana-su	rrace dat	um, Jan. 24, 20	03.									
				HIGHEST V WATER				ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM MIN WTR YR	47.59 47.91 47.89 48.04 48.18 48.32 47.56	48.40 48.29 48.80 49.06 49.25 49.04 48.29 HIGH 46.78	49.64 49.71 49.48 49.26 49.43 49.59 49.26	49.67 49.48 49.95 49.79 50.04 49.87	49.77 49.71 49.88 49.97 50.03 49.93 49.43	49.65 49.95 49.75 49.23 49.34 49.33	48.77 48.98 48.65 48.46 48.40 48.38 48.38	48.11 47.62 47.49 47.47 47.47 47.16	47.43 47.45 47.43 47.39 47.59 47.55	47.49 46.87 46.92 47.00 47.05 47.12 46.83	46.98 46.98 47.26 47.27 47.29 47.27 46.97	46.79 46.79 46.78 46.82 46.78
WIKIK	2003	HIGH 40.78	SEF 12	LOWEST V				ND SURFA				
				WAIEK	I EAR OCT	OBER 2002	TO SEFTE	MIDER 2003	'			
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	47.86 47.91 48.02 48.15 48.37 48.36	48.61 48.46 48.93 49.10 49.41 49.32	49.75 49.84 49.56 49.34 49.64 49.67	49.75 49.70 50.06 49.88 50.17 50.08	49.91 49.86 50.07 50.02 50.14 49.97	49.75 50.03 49.87 49.35 49.37 49.43	49.16 49.10 48.83 48.60 48.53 48.48	48.32 47.89 47.52 47.57 47.47 47.39	47.52 47.53 47.50 47.49 47.65 47.60	47.62 47.04 46.95 47.00 47.12 47.12	46.99 47.00 47.26 47.27 47.29 47.32	46.80 46.80 46.81 46.91
MAX	40 41	49.50	49.92	50.18	50.14	50.03	49.33	48.50	47.68	47.73	47.35	47.27
	48.41	77.50	49.52	30.10	30.14	30.03	47.55	40.50	17.00	.,,,,	.,,,,,,	



WABASH COUNTY

403948085414601. Local number, WB 4.

LOCATION.--Lat $40^{\circ}39'48''$, long $85^{\circ}41'46''$, in NE $^{1}_{4}$ SE $^{1}_{4}$ NE $^{1}_{4}$ sec. 35, T.26N., R.7E., Wabash County, Hydrologic Unit 05120103, (LA FONTAINE, IN quadrangle), on America Road, 1.3 mi southeast of La Fountaine. Owner: U.S. Geological Survey

AQUIFER .-- Sand and gravel of the Pleistocene age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 118 ft, cased to 113 ft, screened to 118 ft.

INSTRUMENTATION .-- Water-level recorder.

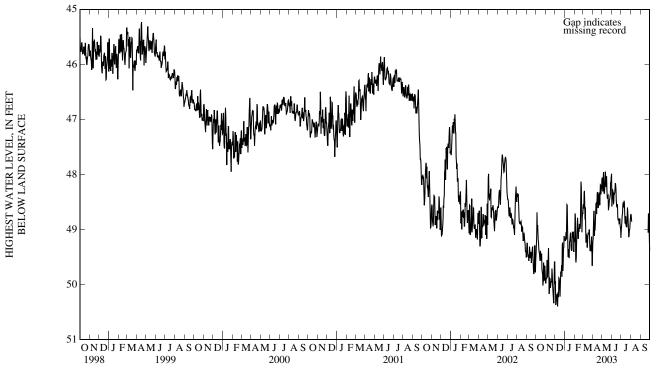
DATUM.--Elevation of land-surface datum is 837.40 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.30 ft above land-surface datum.

REMARKS.--Water level affected by public water supply pumpage.

PERIOD OF RECORD.--August 1988 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 38.19 ft below land-surface datum, Nov. 5, 1988; lowest, 50.64 ft below land-surface datum, Dec. 3-4, 2002.

	1, 2002.											
								ND SURFA				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	48.99	49.56	50.23	49.05	49.55	48.30	48.67	47.96	48.43	48.71		
10	49.36	49.34	50.21	48.91	48.90	49.24	48.68	48.07	48.34	48.48		
15	49.39	49.90	49.96	49.52	49.00	49.24	48.34	48.04	48.47	48.76		
20	49.73	49.95	49.77	49.07	48.94	49.02	48.38	48.38	48.78	48.77		
25	49.60	50.21	49.24	49.08	49.05	49.30	48.19	48.45	48.88	49.14		49.06
EOM	49.92	49.59	49.19	49.22	48.72	49.41	48.10	47.99	49.15	48.75		49.38
MIN	48.69	49.34	49.12	48.55	48.13	48.30	48.10	47.95	48.16	48.48	48.72	48.71
WTR YR	2003	HIGH 47.95	5 MAY 11									
				LOWEST	VATER LEV	/FI FEFTI	BELOWIA	ND SURFA	CE			
								MBER 2003				
DAY	OCT	NOV	DEC							JUL	AUG	SEP
5	49.27	50.00	DEC 50.35	WATER	YEAR OCT	OBER 2002	APR 49.30	MBER 2003 MAY 48.17	3	48.85	AUG	SEP
			DEC	WATER JAN	YEAR OCT FEB	OBER 2002 MAR	TO SEPTE APR	MAY	JUN			
5	49.27	50.00	DEC 50.35	WATER JAN 49.18	YEAR OCT FEB 49.77	OBER 2002 MAR 48.58	APR 49.30	MBER 2003 MAY 48.17	JUN 48.60	48.85		
5 10	49.27 49.43	50.00 49.56	DEC 50.35 50.40	WATER JAN 49.18 49.36	YEAR OCT FEB 49.77 49.13	MAR 48.58 49.40	APR 49.30 48.91	MAY 48.17 48.35	JUN 48.60 48.49	48.85 48.61		
5 10 15	49.27 49.43 49.57	50.00 49.56 50.14	DEC 50.35 50.40 50.12	WATER JAN 49.18 49.36 49.61	YEAR OCT FEB 49.77 49.13 49.26	MAR 48.58 49.40 49.34	APR 49.30 48.91 48.58	MAY 48.17 48.35 48.28	JUN 48.60 48.49 48.57	48.85 48.61 48.89	 	
5 10 15 20	49.27 49.43 49.57 49.84	50.00 49.56 50.14 50.16	DEC 50.35 50.40 50.12 49.82	JAN 49.18 49.36 49.61 49.30	YEAR OCT FEB 49.77 49.13 49.26 49.15	MAR 48.58 49.40 49.34 49.17	APR 49.30 48.91 48.58 48.58	MAY 48.17 48.35 48.28 48.65	JUN 48.60 48.49 48.57 48.91	48.85 48.61 48.89 48.98	 	
5 10 15 20 25	49.27 49.43 49.57 49.84 49.95	50.00 49.56 50.14 50.16 50.40	DEC 50.35 50.40 50.12 49.82 49.75	JAN 49.18 49.36 49.61 49.30 49.36	YEAR OCT FEB 49.77 49.13 49.26 49.15 49.25	MAR 48.58 49.40 49.34 49.17 49.43	APR 49.30 48.91 48.58 48.58 48.33	MAY 48.17 48.35 48.28 48.65 48.50	JUN 48.60 48.49 48.57 48.91 49.00	48.85 48.61 48.89 48.98 49.24	 	 49.26
5 10 15 20 25 EOM	49.27 49.43 49.57 49.84 49.95 50.00	50.00 49.56 50.14 50.16 50.40 50.12	DEC 50.35 50.40 50.12 49.82 49.75 49.33 50.64	WATER JAN 49.18 49.36 49.61 49.30 49.36 49.41	YEAR OCT FEB 49.77 49.13 49.26 49.15 49.25 48.80	MAR 48.58 49.40 49.34 49.17 49.43 49.67	APR 49.30 48.91 48.58 48.58 48.33 48.30	MAY 48.17 48.35 48.28 48.65 48.50 48.58	JUN 48.60 48.49 48.57 48.91 49.00 49.21	48.85 48.61 48.89 48.98 49.24 48.83	 	 49.26 49.48



GROUND-WATER DATA

WARRICK COUNTY

380624087164801. Local number, WK 4.

LOCATION.--Lat $38^{\circ}06'24''$, long $87^{\circ}16'48''$, in $SE^{1}_{4}SW^{1}_{4}SW^{1}_{4}$ sec.2, T.5 S., R.8 W., Warrick County, Hydrologic Unit 05140201, (BOONVILLE, IN quadrangle), 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.

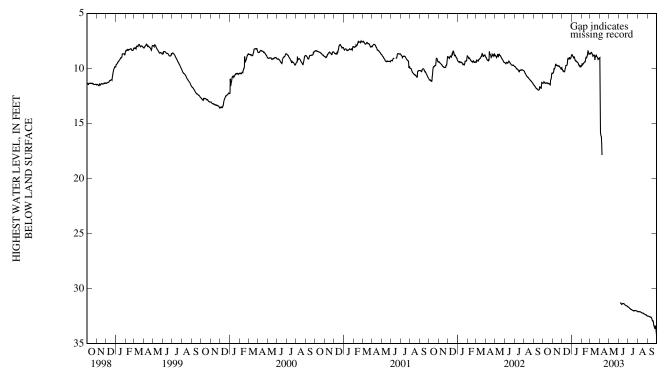
DATUM.--Elevation of land-surface datum is 446.18 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of floor of shelter, 4.09 ft above land-surface datum.

REMARKS.--The hydrograph indicates the natural aquifer condition was impacted by anthropogenic activities in April 2003.

PERIOD OF RECORD .-- June 1986 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.85 ft below land-surface datum, June 17, 1997; lowest, 34.77 ft below land-surface datum, Oct. 7, 2003.

Oct. 7,	2005.											
				HIGHEST V WATER		VEL, FEET 1 TOBER 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	11.25 11.33 11.32 11.38 11.08 10.44	10.02 9.64 9.72 9.81 9.91 9.93	10.22 10.18 9.73 9.09 9.02 8.82	8.91 9.04 9.37 9.45 9.74 9.81	9.66 9.46 9.08 8.80 8.71 8.66	8.54 8.90 8.82 8.81 9.06 9.05	16.13 	 	31.33 31.45 31.36 31.46 31.57 31.68	31.79 31.89 31.99 32.04 32.02 32.10	32.11 32.14 32.24 32.30 32.38 32.50	32.53 32.60 32.80 33.16 33.64 34.35
MIN	10.43	9.62	8.82	8.75	8.42	8.54	9.02		31.32	31.69	32.10	32.51
WTR YR	2003	HIGH 8.42	FEB 22									
						VEL, FEET I OBER 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	11.32 11.38 11.37 11.40 11.50 10.46	10.33 9.88 9.74 9.84 9.99 10.07	10.27 10.31 9.74 9.19 9.12 9.00 10.34	8.99 9.17 9.41 9.48 9.77 9.88	9.71 9.50 9.20 8.94 8.76 8.79 9.83	8.59 8.96 9.58 8.97 9.17 9.12	16.26 22.44	 	31.35 31.48 31.38 31.50 31.59 31.69	31.82 31.90 32.00 32.05 32.04 32.11 32.11	32.12 32.16 32.25 32.31 32.39 32.51 32.51	32.55 32.62 32.91 33.39 33.81 34.50
WTR YR	2003	LOW 34.50	SEP 30									



WASHINGTON COUNTY

383012086124501. Local number, WA 2.

LOCATION.--Lat 38°30'12", long 86°12'45", IN NE½SW½SW½ sec.20, T.1 N., R.3 E., Washington County, Hydrologic Unit 05140104, (BECKS MILL, IN quadrangle), 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.

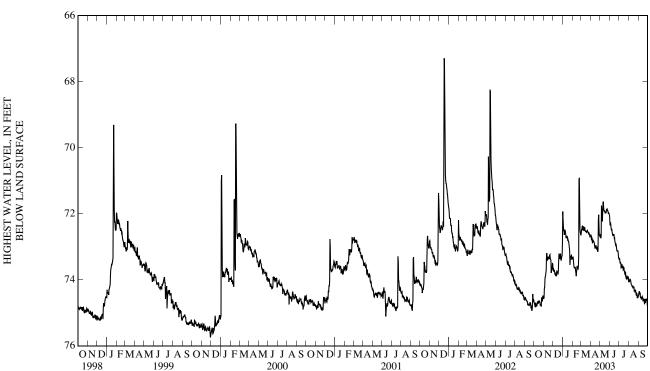
INSTRUMENTATION .-- Water-level recorder.

DATUM.--Elevation of land-surface datum is 780 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 3.50 ft above land-surface datum.

PERIOD OF RECORD .-- August 1989 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 61.14 ft below land-surface datum, Apr. 30, 1996; lowest, 75.95 ft below land-surface datum, Nov. 29, 1999

				HIGHEST V WATER		VEL, FEET 1 OBER 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	74.83 74.80 74.65 74.69 74.58 74.58	73.95 73.26 73.33 73.26 73.79 73.52	73.70 73.81 73.77 73.21 73.22 72.92	72.52 72.58 72.72 72.84 73.38 73.31	73.52 73.61 73.66 73.61 72.45 72.65	72.36 72.52 72.54 72.53 72.57 72.67	72.74 72.84 73.02 73.05 72.18 72.68	71.75 71.68 71.91 71.98 71.90 72.05	72.46 72.64 72.74 72.96 73.13 73.37	73.48 73.53 73.62 73.84 73.92 74.03	73.99 74.16 74.23 74.35 74.48 74.51	74.43 74.60 74.65 74.74 74.62 74.75
MIN	74.49	73.19	72.92	71.93	70.93	72.36	72.03	71.63	72.26	73.34	73.99	74.36
WTR YR	2003	HIGH 70.93	FEB 23									
				LOWEST V								
				WAIEK	YEAR OCT	OBER 2002	TO SEPTE	MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	TO SEPTE APR	MBER 2003 MAY	JUN	JUL	AUG	SEP
DAY 5 10 15 20 25 EOM	OCT 74.92 74.98 74.83 74.91 74.91 74.66	NOV 74.30 73.71 73.44 73.41 73.99 73.77	DEC 73.85 73.96 73.88 73.41 73.38 73.39							JUL 73.52 73.76 73.79 73.92 74.04 74.14	AUG 74.05 74.31 74.38 74.41 74.60 74.62	SEP 74.53 74.69 74.76 74.85 74.76 74.84
5 10 15 20 25	74.92 74.98 74.83 74.91 74.91	74.30 73.71 73.44 73.41 73.99	73.85 73.96 73.88 73.41 73.38	JAN 72.65 72.74 72.87 72.95 73.55	FEB 73.66 73.80 73.81 73.76 72.62	MAR 72.54 72.67 72.67 72.63 72.71	APR 72.99 72.90 73.16 73.10 73.12	MAY 72.70 71.96 72.02 72.12 72.04	JUN 72.54 72.72 72.87 73.00 73.24	73.52 73.76 73.79 73.92 74.04	74.05 74.31 74.38 74.41 74.60	74.53 74.69 74.76 74.85 74.76
5 10 15 20 25 EOM	74.92 74.98 74.83 74.91 74.91 74.66	74.30 73.71 73.44 73.41 73.99 73.77	73.85 73.96 73.88 73.41 73.38 73.39	JAN 72.65 72.74 72.87 72.95 73.55 73.56	FEB 73.66 73.80 73.81 73.76 72.62 72.75	MAR 72.54 72.67 72.67 72.63 72.71 72.83	APR 72.99 72.90 73.16 73.10 73.12 72.78	MAY 72.70 71.96 72.02 72.12 72.04 72.31	JUN 72.54 72.72 72.87 73.00 73.24 73.55	73.52 73.76 73.79 73.92 74.04 74.14	74.05 74.31 74.38 74.41 74.60 74.62	74.53 74.69 74.76 74.85 74.76 74.84



WAYNE COUNTY

394426085080601. Local number, WE 6.

LOCATION.--Lat $39^{\circ}44'26''$, long $85^{\circ}08'06''$, in $SE^{1}_{4}NW^{1}_{4}NE^{1}_{4}$ sec.24, T.15 N., R.12 E., Wayne County, Hydrologic Unit 05080003, (CONNERSVILLE, IN quadrangle), 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.

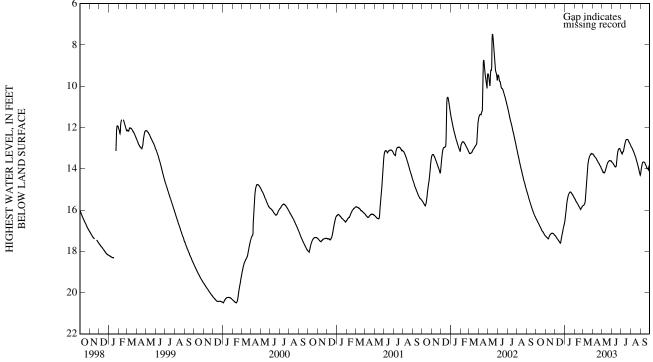
INSTRUMENTATION .-- Water-level recorder.

DATUM.--Elevation of land-surface datum is 888 ft above National Geodetic Vertical Datum of 1929, 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.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.09 ft below land-surface datum, May 8 and 9, 1996; lowest, 21.68 ft below land-surface datum, Feb. 1, 1977.

				HIGHEST WATER		VEL, FEET 1 OBER 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	16.52 16.68 16.84 17.00 17.11 17.25	17.33 17.39 17.20 17.13 17.14 17.22	17.32 17.43 17.54 17.48 17.07 16.65	16.05 15.45 15.19 15.13 15.24 15.40	15.54 15.67 15.81 15.95 15.86 15.80	15.72 15.02 13.97 13.48 13.30 13.29	13.36 13.47 13.60 13.73 13.87 14.03	14.16 14.15 13.87 13.68 13.60 13.63	13.74 13.88 13.86 13.18 13.02 13.16	13.20 13.00 12.65 12.58 12.68 12.86	13.00 13.18 13.40 13.65 13.95 14.31	13.84 13.67 13.72 13.91 14.02 13.80
WTR YR	2003	HIGH 12.58	JUL 18									
				LOWEST W WATER		/EL, FEET I OBER 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	16.56 16.71 16.87 17.02 17.14 17.27	17.35 17.43 17.23 17.14 17.15 17.24	17.34 17.45 17.57 17.59 17.14 16.72	16.19 15.53 15.22 15.14 15.25 15.42	15.57 15.69 15.83 15.98 15.89 15.81	15.75 15.30 14.16 13.54 13.33 13.30	13.40 13.48 13.62 13.75 13.89 14.06	14.19 14.20 13.94 13.70 13.61 13.68	13.78 13.90 13.90 13.30 13.03 13.19	13.36 13.09 12.71 12.58 12.71 12.89	13.04 13.22 13.43 13.70 14.01 14.36	13.94 13.68 13.76 13.95 14.05 13.84
MAX	17.27	17.43	17.62	16.65	16.01	15.80	14.06	14.21	13.92	13.36	14.36	14.37
WTR YR	2003	LOW 17.62	DEC 18									
	6	<u> </u>										



WELLS COUNTY

404331085064701. Local number, WL 4.

LOCATION.--Lat $40^{\circ}43'31''$, long $85^{\circ}06'47''$, in $SE^{1}_{4}NW^{1}_{4}NE^{1}_{4}$ sec. 12, T.26 N., R.12 E., Wells County, Hydrologic Unit 05120101, (LINN GROVE, IN quadrangle), 3.5 mi southeast of Bluffton on Hwy 316 to entrance of Quabache State Park. Owner: U.S. Geological Survey.

AQUIFER .-- Silty dolomite of Silurian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 79 ft, cased to 46 ft, open end.

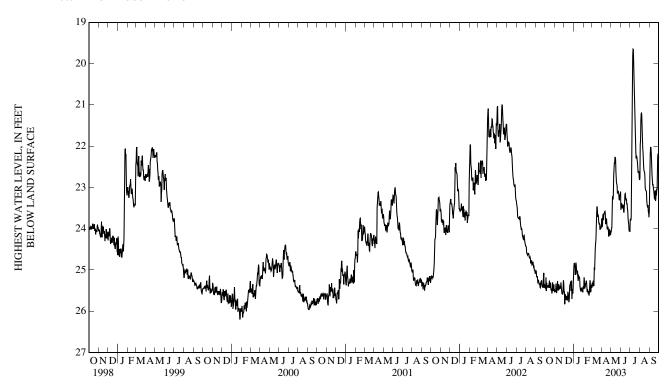
INSTRUMENTATION .-- Water-level recorder.

DATUM.--Elevation of land-surface datum is 826.04 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of floor of shelter, 2.35 ft above land-surface datum.

PERIOD OF RECORD.--January 1967 to August 1971. September 1971 to December 1981 (semi-annual tape-down readings only). January 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 17.70 ft below land-surface datum, Apr. 4, 1973; lowest, 26.27 ft below land-surface datum, Jan. 27, Feb. 4, 16, 2000.

				HIGHEST V WATER				ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	25.51 25.40 25.26 25.49 25.30 25.52	25.33 25.27 25.37 25.42 25.58 25.33	25.59 25.64 25.63 25.36 25.27 25.18	24.93 25.01 25.26 25.21 25.45 25.40	25.45 25.26 25.53 25.55 25.50 25.43	25.26 24.75 23.64 23.67 23.89 23.87	23.65 23.59 23.76 23.95 24.03 24.06	23.23 22.59 22.33 22.97 23.15 23.10	23.46 23.59 23.15 23.41 23.83 24.08	22.30 19.65 20.96 22.30 22.52 22.82	21.21 22.04 22.61 23.07 23.46 23.58	22.03 22.83 23.14 23.33 23.06 22.27
MIN	25.18	25.25	25.18	24.82	25.18	23.47	23.58	22.27	23.15	19.65	21.20	22.03
WTR YR	2003	HIGH 19.65	JUL 10									
				LOWEST W WATER				ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	25.65 25.46 25.35 25.57 25.52 25.59	25.65 25.41 25.55 25.56 25.69 25.72	25.71 25.73 25.77 25.43 25.70 25.52	25.12 25.13 25.36 25.43 25.52 25.55	25.61 25.51 25.74 25.77 25.68 25.51	25.51 25.01 23.88 23.79 24.04 24.01	23.95 23.69 23.89 24.02 24.08 24.20	23.76 22.81 22.62 23.18 23.29 23.57	23.54 23.67 23.27 23.44 23.96 24.18	23.73 19.81 21.31 22.43 22.68 22.97	21.37 22.20 22.72 23.13 23.55 23.78	22.14 22.99 23.23 23.41 23.18 22.41
MAX	25.65	25.72	25.93	25.73	25.77	25.62	24.30	24.18	24.19	24.08	23.82	23.58
WTR YR	2003	LOW 25.93	DEC 3									



GROUND-WATER DATA

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 W., White County, Hydrologic Unit 05120106, (IDAVILLE, IN quadrangle), 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 artesian well, diameter 6 in., depth 134 ft, cased to 129 ft, screened to 134 ft.

INSTRUMENTATION .-- Water-level recorder.

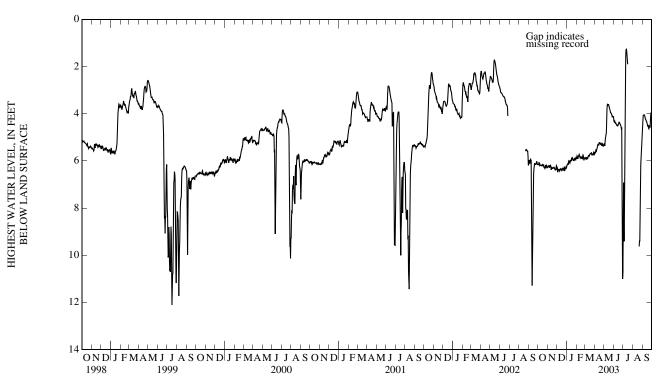
DATUM.--Elevation of land-surface datum is 683.06 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.20 ft above land-surface datum.

REMARKS.--Water level affected by irrigation pumpage.

PERIOD OF RECORD .-- July 1986 to October 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.27 ft below land-surface datum, July 11, 2003; lowest, 13.66 ft below land-surface datum, Aug. 3, 1991.

C	,											
						VEL, FEET I TOBER 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	6.15 6.19 6.16 6.27 6.18 6.28	6.18 6.17 6.29 6.30 6.39 6.23	6.37 6.38 6.37 6.31 6.26 6.29	6.11 6.08 6.00 5.89 5.91 5.87	5.92 5.73 5.83 5.91 5.98 5.90	5.87 5.86 5.75 5.67 5.71 5.67	5.57 5.35 5.23 5.25 5.27 5.34	5.03 3.78 3.61 3.85 4.03 4.13	4.38 4.49 4.46 4.43 4.64 10.66	6.07 1.29 1.88 	 7.29 4.93	4.05 4.21 4.40 4.60 4.55 3.94
MIN	6.05	6.17	6.26	5.86	5.73	5.65	5.23	3.60	4.30	1.27	4.93	3.94
WTR Y	R 2003	HIGH 1.27	JUL 11									
						VEL, FEET I TOBER 2002						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	6.23 6.21 6.20 6.31 6.29 6.31	6.32 6.26 6.38 6.36 6.42 6.41	6.42 6.43 6.43 6.37 6.39 6.32	6.16 6.13 6.03 5.96 5.97 5.95	5.96 5.83 5.92 5.95 6.01 5.94	5.93 5.91 5.80 5.72 5.75 5.77 5.98	5.71 5.42 5.30 5.30 5.30 5.40 5.71	5.16 4.25 3.68 3.95 4.09 4.31 5.39	4.43 4.53 4.51 4.47 4.67 11.90	10.63 1.57 1.91 10.66	7.83 5.16	4.08 4.27 4.44 4.66 4.59 3.96 4.93
WTR Y	R 2003	LOW 11.90	JUN 30									



WHITLEY COUNTY

410337085264201. Local number, WY 3.

LOCATION.--Lat $41^{\circ}03'37''$, long $85^{\circ}26'42''$, in $NW^{1}/_{4}SE^{1}/_{4}NW^{1}/_{4}$ sec. 18, T.30 N., R.10 E., Whitley County, Hydrologic Unit 05120104, (LAUD, IN quadrangle), 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.

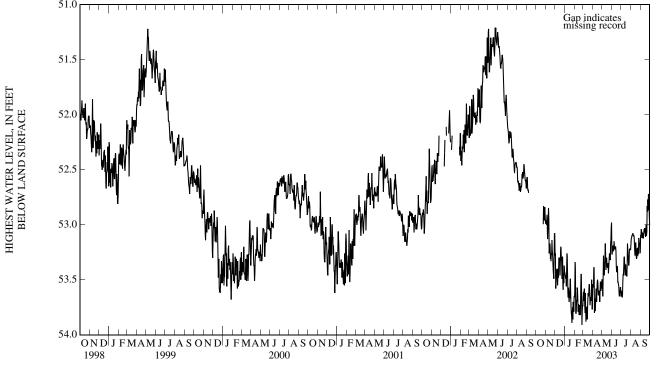
INSTRUMENTATION .-- Water-level recorder.

DATUM.--Elevation of land-surface datum is 870 ft above National Geodetic Vertical Datum of 1929, 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, 54.03 ft below land-surface datum, Mar. 13, 2003.

				HIGHEST V WATER		,		ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	52.83 52.83 52.83	52.91 52.85 53.20 53.27 53.42 53.08	53.43 53.46 53.30 53.20 53.29 53.42 53.20	53.46 53.44 53.70 53.58 53.79 53.65 53.26	53.79 53.57 53.78 53.82 53.91 53.74 53.34	53.58 53.88 53.76 53.55 53.66 53.68 53.50	53.39 53.69 53.52 53.61 53.52 53.50 53.39	53.28 53.28 53.30 53.35 53.26 52.98	53.23 53.22 53.37 53.52 53.65 53.65	53.63 53.30 53.36 53.38 53.37 53.23	53.10 53.10 53.23 53.30 53.26 53.25 53.08	53.12 53.12 53.07 53.10 52.87 53.00 52.72
WTR YR	2003	HIGH 52.72	2 SEP 26									
				LOWEST WATER				ND SURFA MBER 2003				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	53.03 53.06	53.22 52.98 53.37 53.42 53.53 53.42	53.57 53.57 53.45 53.35 53.55 53.57	53.56 53.64 53.86 53.76 53.89 53.86	53.86 53.79 53.97 53.94 53.96 53.85	53.76 53.95 53.88 53.72 53.75 53.84	53.80 53.79 53.70 53.74 53.59 53.68	53.48 53.40 53.42 53.48 53.34 53.26	53.34 53.36 53.49 53.56 53.78 53.76	53.72 53.43 53.48 53.51 53.47 53.32	53.16 53.22 53.33 53.36 53.36 53.36	53.22 53.21 53.11 53.20 52.99 53.03
MAX	53.08	53.56	53.74	53.99	53.97	54.03	53.89	53.78	53.78	53.74	53.40	53.25
WTR YR	2003	LOW 54.03	MAR 13									
	51 (



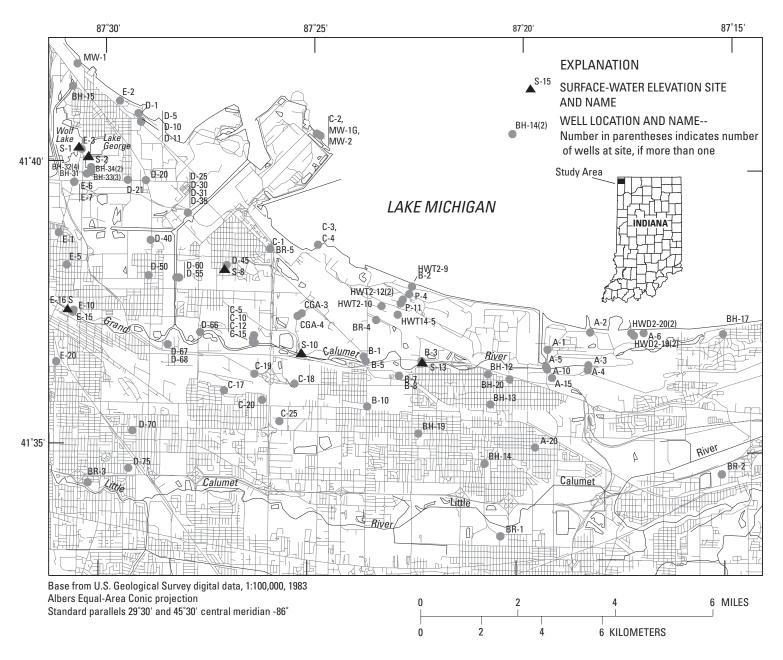


Figure 10.--Locations of wells in the Northern Lake County network.

GROUND-WATER AND SURFACE-WATER LEVELS IN NORTHERN LAKE COUNTY, IN

The following tables (1-5) list characteristics of water wells, surface-water-stage measurement sites, and results of miscellaneous measurements of ground-water level and surface-water stage in Northern Lake County, Indiana. Data presented here have been collected periodically since 1985 to provide a base of information to evaluate ground-water-flow directions and ground-water/surface-water interactions. Locations of wells and surface-water sites are shown in figure 10.

Table 1. Characteristics of observation wells in the Northern Lake County network.

USGS, U.S. Geological Survey; Auger, hollow-stem auger; SS, stainless steel; CA, Calumet aquifer; USEPA, U.S. Environmental Protection Agency; PVC, polyvinyl chloride; n.a., not applicable; ?, not known; GAA, Gary Airport Authority; USX, USX Corporation; ISPAT, ISPAT Inland Incorporated.

Well name	Well owner	Latitude/longitude	USGS site identifier	Date drilled (month- year)	Method of installation	Land surface, in feet above sea level	Open interval, in feet below land surface	Screen and casing material	Aquifer and relative vertical position of open interval in aquifer
A-1	USGS	41°36′47″/87°19′19″	413647087191901	07-85	Auger	604	18-21	SS 304	CA Top
A-2	USGS	41°37′06″/87°18′18″	413706087181800	06-87	Auger	603	34-39	SS 316L	CA Middle
A-3	USGS	41°36′31″/87°18′20″	413631087182000	06-87	Hand driven	590	3-6	SS 316L	CA Top
A-4	USGS	41°36′30″/87°18′16″	413630087182100	06-87	Auger	603	18-23	SS 316L	CA Middle
A-5	USGS	41°36′29″/87°19′21″	413629087192102	12–85	Auger	601	18-21	SS 304	CA Top
A-6	USGS	41°37′06″/87°17′01″	413706087170101	06-87	Hand driven	588	4-7	SS 316L	CA Top
A-10	USGS	41°36′26″/87°19′19″	413626087191901	07-85	Hand driven	590	12-15	SS 304	CA Top
A-15	USGS	41°36′17″/87°19′12″	413617087191201	07-85	Hand driven	591	2-5	SS 304	CA Top
A-20	USGS	41°35′03″/87°19′35″	413503087193501	12-85	Auger	614	21-24	SS 304	CA Top
B-1	USGS	41°36′37″/87°23′43″	413637087234301	08-85	Hand driven	585	9-12	SS 304	CA Top
B-2	USGS	41°37′52″/87°22′35″	413752087223500	06-87	Auger	608	43-48	SS 316L	CA Middle
B-3	USGS	41°36′33″/87°22′20″	413633087222000	06-87	Auger	594	18-23	SS 316L	CA Middle
B-5	USGS	41°36′32″/87°23′40″	413632087234001	08-85	Hand driven	589	8-11	SS 304	CA Top
B-7	USGS	41°36′16″/87°22′51″	413617087225202	06-87	Hand driven	596	8-11	SS 316L	CA Top
B-8	USGS	41°36′17″/87°22′51″	413617087225201	06–87	Auger	596	32-37	SS 316L	CA Bottom
B-10	USGS	41°35′44″/87°23′37″	413544087233700	12–85	Auger	607	17-20	SS 304	CA Top
BH-12	USEPA	41°36′20″/87°20′44″	413620087204401	06-92	Mud rotary	601	10-20	PVC	CA Top
BH-13	USEPA	41°35′48″/87°20′40″	413548087204001	06-92	Mud rotary	603	9-19	PVC	CA Top
BH-14	USEPA	41°34′45″/87°20′47″	413445087204701	06-92	Mud rotary	610	9-19	PVC	CA Top
BH-15	USEPA	41°41′20″/87°30′47″	414120087304701	06-92	Mud rotary	585	10-15	PVC	CA Top

Table 1. Characteristics of observation wells in the Northern Lake County network. -- Continued

Well name	Well owner	Latitude/longitude	USGS site identifier	Date drilled (month- year)	Method of installation	Land surface, in feet above sea level	Open interval, in feet below land surface	Screen and casing material	Aquifer and relative vertical position of open interval in aquifer
BH-17	USEPA	41°37′06″/87°15′07″	413706087150701	06-92	Mud rotary	599	10-20	PVC	CA Top
BH-19	USEPA	41°35′16″/87°22′23″	413516087222301	06-92	Mud rotary	602	10-20	PVC	CA Top
BH-20	USEPA	41°36′15″/87°20′13″	413615087201301	06-92	Mud rotary	600	14-24	PVC	CA Top
BH-31	USEPA	41°39′47″/87°30′25″	413947087302501	04-93	Mud rotary	598	18-28	PVC	CA Top
BH-32-D	USGS	41°39′49″/87°30′19″	413949087301901	07-96	Auger	597	36-38.5	PVC	CA Bottom
ВН-32-І	USGS	41°39′49″/87°30′19″	413949087301902	07-96	Auger	597	26.4-28.9	PVC	CA Middle
BH-32-SH	USGS	41°39′49″/87°30′19″	413949087301903	07-96	Auger	597	21.6-23.1	PVC	CA Top
BH-32-SL	USGS	41°39′49″/87°30′19″	413949087301904	07-96	Auger	597	7.4-19.9	PVC	Slag Bottom
BH-33-I	USGS	41°39′51″/87°30′19″	413951087301901	07-96	Auger	585	11.5-14	PVC	CA Middle
BH-33-SH	USGS	41°39′51″/87°30′19″	413951087301902	07–96	Auger	585	7.6-10.1	PVC	CA Top
BH-33-SL	USGS	41°39′51″/87°30′19″	413951087301903	07-96	Auger	585	2.5-5	PVC	Slag Bottom
BH-34-D	USGS	41°39′54″/87°30′19″	413954087301901	07-96	Hand driven	580	4.4-6.4	PVC	CA Top
BH-34-SH	USGS	41°39′54″/87°30′19″	413954087301902	07-96	Hand driven	581	1.8-3.8	PVC	Slag Bottom
BR-1	USGS	41°33′28″/87°20′24″	413328087202301	12-93	Mud rotary	595	135-145	PVC	Devonian
BR-2	USGS	41°34′37″/87°15′06″	413437087150601	12-93	Mud rotary	600	136-146	PVC	Silurian
BR-3	USGS	41°34′19″/87°30′17″	413419087301701	11-94	Mud rotary	595	137-147	PVC	Silurian
BR-4	USGS	41°37′17″/87°23′26″	413716087232601	11-94	Mud rotary	595	138-148	PVC	Silurian
BR-5	USEPA	41°37′32″/87°25′58″	413732087255801	06-95	Mud rotary	587	146-156	PVC	Silurian
C-1	USGS	41°38′30″/87°26′00″	413830087260000	12-85	Auger	587	4-7	SS 304	CA Top
C -2	USGS	41°40′30″/87°24′51″	414031087245000	06-87	Auger	594	13-18	SS 316L	CA Top
C-3	USGS	41°38′27″/87°25′16″	413828087251301	06–87	Auger	589	23-28	SS 316L	CA Middle
C-4	USGS	41°38′27″/87°25′16″	413828087251302	06-87	Auger	589	8-13	SS 316L	CA Top
C- 5	USGS	41°36′55″/87°26′20″	413655087275202	07-85	Hand driven	584	2-5	SS 304	CA Top
C-10	USGS	41°36′50″/87°26′20″	413652087274901	07-85	Hand driven	584	1-4	SS 304	CA Top
C-12	USGS	41°36′50″/87°26′20″	413650087262000	06-87	Auger	584	13-18	SS 316L	CA Middle

Table 1. Characteristics of observation wells in the Northern Lake County network. -- Continued

Well name	Well owner	Latitude/longitude	USGS site identifier	Date drilled (month- year)	Method of installation	Land surface, in feet above sea level	Open interval, in feet below land surface	Screen and casing material	Aquifer and relative vertical position of open interval in aquifer
C-15	USGS	41°36′48″/87°26′20″	413650087274802	07–85	Hand driven	583	1-4	SS 304	CA Top
C-17	USGS	41°35′59″/87°27′03″	413559087270301	07-86	Mud rotary	592	18-23	?	CA Bottom
C-18	USGS	41°36′07″/87°25′22″	413607087252200	06-87	Auger	595	17-22	SS 316L	CA Bottom
C-19	USGS	41°36′17″/87°26′20″	413617087262001	12-86	Hand driven	592	2-5	SS 304	CA Top
C-20	USGS	41°35′57″/87°26′11″	413557087283901	07–85	Hand driven	593	3-6	SS 304	CA Top
C-25	USGS	41°35′27″/87°25′43″	413527087270301	07–85	Hand driven	599	2-5	SS 304	CA Top
CGA-3	GAA	41°37′22″/87°25′13″	413722087251301	pre-1985	?	590	?	PVC	CA?
CGA-4	GAA	41°37′19″/87°25′19″	413719087251901	pre-1985	?	591	?	PVC	CA?
D-1	USGS	41°40′52″/87°29′12″	414052087291201	07–85	Hand driven	590	8-11	SS 304	CA Top
D-5	USGS	41°40′44″/87°29′08″	414044087290801	07–85	Hand driven	588	2-7	SS 304	CA Top
D-10	USGS	41°40′43″/87°29′08″	414043087290802	07–85	Hand driven	588	7-10	SS 304	CA Top
D-11	USGS	41°40′43″/87°29′08″	414043087290801	06-87	Auger	588	17-22	SS 316L	CA Middle
D-20	USGS	41°39′41″/87°29′00″	413941087290000	07-85	Hand	588	6-9	SS 304	CA Top
D-21	USGS	41°39′41″/87°29′26″	413941087292600	06-87	Auger	584	13-18	SS 316L	CA Middle
D-25	USGS	41°39′09″/87°28′03″	413804087291102	07–85	Hand driven	588	5-8	SS 304	CA Top
D-30	USGS	41°39′07″/87°27′58″	413758087290702	07–85	Hand driven	586	6-9	SS 304	CA Top
D-31	USGS	41°39′07″/87°27′58″	413907087275901	06-87	Auger	586	12-17	SS 316L	CA Middle
D-35	USGS	41°39′06″/87°27′57″	413757087290601	07-85	Hand driven	586	4-7	SS 304	CA Top
D-40	USGS	41°38′35″/87°28′51″	413835087245101	07-85	Hand driven	584	4-7	SS 304	CA Top
D-45	USGS	41°38′12″/87°27′02″	413812087270201	07–85	Hand driven	586	6-9	SS 304	CA Top
D-50	USGS	41°38′00″/87°28′54″	413800087285401	12–85	Hand driven	585	9-12	SS 304	СА Тор
D-55	USGS	41°37′58″/87°28′14″	413758087281401	07-85	Hand driven	585	5-8	SS 304	CA Top
D-60	USGS	41°37′58″/87°28′10″	413758087281001	07-85	Hand driven	587	5-8	SS 304	CA Top
D-66	USGS	41°36′54″/87°27′40″	413654087274000	06-87	Auger	587	17-22	SS 316L	CA Middle
D-67	USGS	41°36′47″/87°28′25″	413647087282502	06-87	Hand driven	589	4-7	SS 316L	CA Top

Table 1. Characteristics of observation wells in the Northern Lake County network. -- Continued

Well name	Well owner	Latitude/longitude	USGS site identifier	Date drilled (month- year)	Method of installation	Land surface, in feet above sea level	Open interval, in feet below land surface	Screen and casing material	Aquifer and relative vertical position of open interval in aquifer
D-68	USGS	41°36′47″/87°28′25″	413647087282501	06-87	Auger	589	18-23	SS 316L	CA Middle
D-70	USGS	41°35′15″/87°29′15″	413515087291401	07-85	Hand driven	603	6-9	SS 304	CA Top
D-75	USGS	41°34′34″/87°29′19″	413435087291901	07-85	Hand driven	601	5-8	SS 304	CA Top
E-1	USGS	41°38′44″/87°31′04″	413844087310401	07-85	Hand driven	582	5-8	SS 304	CA Top
E-2	USGS	41°41′05″/87°29′39″	414105087293900	06-87	Hand driven	585	3-6	SS 316L	CA Top
E-3	USGS	41°40′13″/87°30′33″	414013087303300	06–87	Auger	585	8-13	SS 316L	CA Middle
E-5	USGS	41°38′10″/87°30′52″	413810087305201	07-85	Hand driven	587	9-12	SS 304	CA Top
E-6	USGS	41°39′38″/87°30′43″	413938087304301	06-87	Auger	586	17-22	SS 316L	CA Bottom
E-7	USGS	41°39′38″/87°30′43″	413938087304302	06-87	Hand driven	586	2-5	SS 316L	CA Top
E-10	USGS	41°37′22″/87°30′41″	413722087304101	07-85	Hand driven	586	6-9	SS 304	CA Top
E-15	USGS	41°37′20″/87°30′42″	413720087 304201	07-85	Hand driven	584	11-14	SS 304	CA Top
E-20	USGS	41°36′27″/87°31′05″	413627087310500	07-85	Hand driven	592	5-8	SS 304	CA Top
HWD2-19D	USX	41°37′06″/87°17′19″	413706087171901	12-93	Auger	598	47-57	PVC	CA Bottom
HWD2-19S	USX	41°37′06″/87°17′19″	413706087171902	12-93	Auger	598	6-21	PVC	CA Top
HWD2-20D	USX	41°37′03″/87°17′15″	413703087171501	12–93	Auger	617	62-72	PVC	CA Middle
HWD2-20S	USX	41°37′03″/87°17′15″	413703087171502	12-93	Auger	617	23-38	PVC	CA Middle
HWT2-9	USX	41°37′52″/87°22′35″	413752087223501	04-84	Auger	608	50-70	PVC	Slag + CA
HWT2-10	USX	41°37′32″/87°23′22″	413732087232201	04-84	Auger	589	24-44	PVC	CA Top
HWT2-12D	USX	41°37′38″/87°22′48″	413738087224803	03-91	Auger	600	49-59	PVC	CA Bottom
HWT2-12S	USX	41°37′38″/87°22′48″	413738087224801	03-91	Auger	601	14-29	PVC	Slag and CA
HWT14-05	USX	41°37′22″/87°22′55″	413722087225501	04-84	Auger	589	37-47	PVC	CA Bottom
P-4	USX	41°37′44″/87°22′39″	413744087223901	04-84	Auger	603	25-35	PVC	Slag
P-11	USX	41°37′34″/87°22′51″	413734087225101	04-84	Auger	596	15-25	PVC	CA Top
MW-1	USEPA	41°41′44″/87°30′41″	414144087304101	?	Auger	591	21-24	SS 304	CA Bottom
MW1G	ISPAT	41°40′33″/87°24′55″	414033087245501	?	Drilled	594	?-13	PVC	Slag
MW-02	ISPAT	41°40′33″/87°24′55″	414033087245502	?	Drilled	594	?-124	PVC	Silurian

¹ This well also is known as LK-13, a continuous recording water-level well operated by the USGS as part of a statewide ground-water-data network. Water levels for LK-13 are published in the U.S. Geological Survey water data reports, IN-87-1 to IN-02-1, and on page 534 of this report.

Table 2. Period of record for observation wells in the Northern Lake County network.

	Period	of Record		Period of Record			
Well name	Beginning End (month-year)		Well name	Beginning (month-year)	End (month-year)		
A-1	10-1985	07-2003	C-19	12-1986	04-2003		
A-2	06-1987	07-2003	C-20	08-1985	04-2003		
A-3	06-1987	03-1998	C-25	12-1985	07-2003		
A-4	06-1987	07-2003	CGA-3	10-1985	03-1999		
A-5	12-1985	07-2003	CGA-4	10-1985	08-1999		
A-06	07-1987	07-2003	D-1	08-1985	07-2003		
A-10	10-1985	07-2003	D-5	08-1985	07-2003		
A-15	10-1985	07-2003	D-10	08-1985	07-2003		
A-20	01-1986	07-2003	D-11	06-1987	07-2003		
B-1	08-1985	09-1999	D-20	08-1985	01-1995		
B-2	06-1987	07-2003	D-21	07-1987	07-2003		
B-3	07-1987	06-2000	D-25	12-1985	07-2003		
B-5	08-1985	07-2003	D-30	12-1985	07-2003		
B-7	06-1987	07-2003	D-31	07-1987	07-2003		
B-8	07-1987	07-2003	D-35	12-1985	06-2001		
B-10	12-1985	07-2003	D-40	10-1985	07-2003		
BH-12	06-1992	07-2003	D-45	10-1985	07-2003		
BH-13	06-1992	07-2003	D-50	12-1985	07-2003		
BH-14	06-1992	07-2003	D-55	10-1985	01-1995		
BH-15	06-1992	07-2003	D-60	10-1985	07-2003		
BH-17	06-1992	07-2003	D-66	07-1987	07-2003		
BH-19	06-1992	07-2003	D-66 D-67	07-1987	07-2003		
BH-20	06-1992	09-1998	D-67 D-68	07-1987	07-2003		
BH-31	04-1992	09-1998	D-68 D-70	01-1986	07-2003		
BH-32-D	07-1996	09-1998	D-75	01-1986	07-2003		
BH-32-I	07-1996	09-2001	E-1	12-1985	07-2003		
BH-32-SH BH-32-SL	07-1996	09-2001	E-2 E-3	06-1987	07-2003		
	07-1996	09-2001		06-1987	07-2003		
BH-33-I BH-33-SH	07-1996 07-1996	07-2003 07-2003	E-5 E-6	08-1985 06-1987	07-2003 07-2003		
BH-33-SL	07-1996	07-2003	E-7	06-1987	07-2003		
BH-34-D	06-1996	07-1998	E-10	10-1985	07-2003		
BH-34-SH	06-1996	07-1998	E-15	10-1985	07-2003		
BR-1	01-1995	07-2003	E-20	08-1985	07-2003		
BR-2	01-1995	07-2003	HWD2-19D	07-1995	07-2003		
BR-3	07-1995	07-2003	HWD2-19S	07-1995	07-2003		
BR-4	07-1995	07-2003	HWD2-20D	07-1996	07-2003		
BR-5	07-1995	07-2003	HWD2-20S	07-1996	07-2003		
C-1	12-1985	07-2003	HWT2-9	12-1985	07-2003		
C-2	07-1987	07-2003	HWT2-10	12-1985	12-1997		
C-3	06-1987	07-2003	HWT2-12D	12-1992	12-1998		
C-4	06-1987	07-2003	HWT2-12S	06-1992	12-1998		
C-5	10-1985	07-2003	HWT14-5	12-1985	07-2003		
C-10	10-1985	07-2003	P-4	12-1985	07-2003		
C-12	08-1987	07-2003	P-11	10-1985	07-2003		
C-15	10-1985	03-1998	MW-1	06-1992	07-2003		
C-17	07-1986	09-2001	MW-1G	10-1992	07-2003		
C-18	06-1987	06-2000	MW-2	10-1992	09-2002		

Table 3. Water-level records for observation wells in the Northern Lake County network, collected during water year 2003 and summary statistics.

SITE ID NUMBER: 413647087191901

STATION NAME: USGS WELL A-1 @ USX NR. BOAT SLIP, GARY, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER
LEVEL LEVEL

APR 10 20.04 JUL 09 19.52

WATER YEAR 2003 HIGHEST 19.52 JUL 09, 2003 LOWEST 20.04 APR 10, 2003 PERIOD OF RECORD HIGHEST 15.72 SEP 08, 1993 LOWEST 20.12 MAR 29, 2000

RECORD AVAILABLE FROM OCT 24, 1985 TO JUL 09, 2003 60 ENTRIES

SITE ID NUMBER: 413706087181800

STATION NAME: USGS WELL A-2 @ USX, NR. LAKE, GARY, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 10 19.42 JUL 09 18.35

WATER YEAR 2003 HIGHEST 18.35 JUL 09, 2003 LOWEST 19.42 APR 10, 2003
PERIOD OF RECORD HIGHEST 14.83 SEP 08, 1993 LOWEST 19.42 APR 10, 2003
RECORD AVAILABLE FROM JUN 26, 1987 TO JUL 09, 2003 49 ENTRIES

SITE ID NUMBER: 413629087192102

STATION NAME: USGS WELL A-5 @ USX, N OF GCR, @ GARY HARBOR

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER LEVEL LEVEL

APR 10 15.44 JUL 09 14.78

RECORD AVAILABLE FROM DEC 17, 1985 TO JUL 09, 2003 55 ENTRIES

SITE ID NUMBER: 413706087170101

APR 07

STATION NAME: USGS WELL A-6, E OF USX IN DUNES NAT LKSH, GARY, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER
LEVEL LEVEL
4.70 JUL 07 3.80

WATER YEAR 2003 HIGHEST 3.80 JUL 07, 2003 LOWEST 4.70 APR 07, 2003
PERIOD OF RECORD HIGHEST 2.65 JUN 10, 1993 LOWEST 4.86 OCT 12, 1988
RECORD AVAILABLE FROM JUL 14, 1987 TO JUL 07, 2003 29 ENTRIES

Table 3. Water-level records for observation wells in the Northern Lake County network, collected during water year 2003 and summary statistics. -- Continued

SITE ID NUMBER: 413626087191901

STATION NAME: USGS WELL A-10 @ USX, N OF GCR, @ GARY HARBOR

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 10 5.09 JUL 09 3.96

WATER YEAR 2003 HIGHEST 3.96 JUL 09, 2003 LOWEST 5.09 APR 10, 2003 PERIOD OF RECORD HIGHEST 3.89 JUN 26, 1987 LOWEST 5.77 AUG 29, 2000

RECORD AVAILABLE FROM OCT 24, 1985 TO JUL 09, 2003 53 ENTRIES

SITE ID NUMBER: 413617087191201 STATION NAME: USGS WELL A15 @ GARY, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM (READINGS ABOVE LAND-SURFACE INDICATED BY "+") WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 07 JUL 07 .73 1.49

WATER YEAR 2003 HIGHEST .73 JUL 07, 2003 LOWEST 1.49 APR 07, 2003
PERIOD OF RECORD HIGHEST +.99 MAR 19, 1991 LOWEST 1.73 JAN 03, 2000
RECORD AVAILABLE FROM OCT 24, 1985 TO APR 07, 2003 57 ENTRI 57 ENTRIES

SITE ID NUMBER: 413503087193501 STATION NAME: USGS WELL A20 @ GARY, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL

APR 07 18.40 JUL 07 17.92

WATER YEAR 2003 HIGHEST 17.92 JUL 07, 2003 LOWEST 18.40 APR 07, 2003
PERIOD OF RECORD HIGHEST 17.32 JUL 12, 1996 JUL 01, 1997 LOWEST 19.07 MAR 06, 1986 RECORD AVAILABLE FROM JAN 03, 1986 TO JUL 07, 2003 65 ENTRIES

SITE ID NUMBER: 413752087223500

STATION NAME: USGS WELL B2 @ USXBY HWT-2-9 @ GARY, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL APR 10 29.04 JUL 09 28.88

WATER YEAR 2003 HIGHEST 28.88 JUL 09, 2003 LOWEST 29.04 APR 10, 2003 PERIOD OF RECORD HIGHEST 25.92 JUN 25, 1987 LOWEST 29.53 MAR 29, 2000 RECORD AVAILABLE FROM JUN 25, 1987 TO JUL 09, 2003

Table 3. Water-level records for observation wells in the Northern Lake County network, collected during water year 2003 and summary statistics.--Continued

SITE ID NUMBER: 413632087234001 STATION NAME: USGS WELL B5 AT GARY, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 09 5.55 JUL 08 5.10

WATER YEAR 2003 HIGHEST 5.10 JUL 08, 2003 LOWEST 5.55 APR 09, 2003
PERIOD OF RECORD HIGHEST 2.77 JUN 09, 1993 LOWEST 7.66 OCT 11, 1988
RECORD AVAILABLE FROM AUG 28, 1985 TO JUL 08, 2003 68 ENTRIES

SITE ID NUMBER: 413617087225202

STATION NAME: USGS WELL B7 SHALLOW @ CHASE ST. @ GARY, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 07 9.56 JUL 07 8.59

SITE ID NUMBER: 413617087225201

STATION NAME: USGS WELL B8 DEEP @ CHASE ST. @ GARY, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 07 9.57 JUL 07 8.61

WATER YEAR 2003 HIGHEST 8.61 JUL 07, 2003 LOWEST 9.57 APR 07, 2003
PERIOD OF RECORD HIGHEST 6.88 JUN 09, 1993 LOWEST 9.57 APR 07, 2003
RECORD AVAILABLE FROM JUL 14, 1987 TO JUL 07, 2003 53 ENTRIES

SITE ID NUMBER: 413544087233700

STATION NAME: USGS WELL B10 @ BRUNSWICK @ GARY, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER
LEVEL LEVEL

APR 08 15.16 JUL 08 13.92

Table 3. Water-level records for observation wells in the Northern Lake County network, collected during water year 2003 and summary statistics.--Continued

SITE ID NUMBER: 413620087204401

STATION NAME: USEPA WELL BH-12 AT GARY, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 07 13.17 JUL 07 12.47

SITE ID NUMBER: 413548087204001

STATION NAME: USEPA WELL BH-13 AT GARY, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 07 11.24 JUL 07 10.53

WATER YEAR 2003 HIGHEST 10.53 JUL 07, 2003 LOWEST 11.24 APR 07, 2003
PERIOD OF RECORD HIGHEST 9.61 MAR 24, 1998 LOWEST 11.29 SEP 03, 2002
RECORD AVAILABLE FROM JUN 23, 1992 TO JUL 07, 2003 34 ENTRIES

SITE ID NUMBER: 413445087204701

STATION NAME: USEPA WELL BH-14 AT GARY, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 08 7.80 JUL 07 6.75

WATER YEAR 2003 HIGHEST 6.75 JUL 07, 2003 LOWEST 7.80 APR 08, 2003
PERIOD OF RECORD HIGHEST 2.59 JUL 12, 1996 LOWEST 9.49 MAR 27, 2000
RECORD AVAILABLE FROM JUN 23, 1992 TO JUL 07, 2003 32 ENTRIES

SITE ID NUMBER: 414120087304701

STATION NAME: USEPA WELL BH-15 AT HAMMOND, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER
LEVEL LEVEL

APR 09 2.30 JUL 08 2.50

WATER YEAR 2003 HIGHEST 2.30 APR 09, 2003 LOWEST 2.50 JUL 08, 2003
PERIOD OF RECORD HIGHEST 1.28 MAR 29, 1996 LOWEST 2.50 JUL 08, 2003
RECORD AVAILABLE FROM JUN 23, 1992 TO JUL 08, 2003 32 ENTRIES

Table 3. Water-level records for observation wells in the Northern Lake County network, collected during water year 2003 and summary statistics.--Continued

SITE ID NUMBER: 413706087150701

STATION NAME: USEPA WELL BH-17 AT GARY, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER WATER
LEVEL LEVEL LEVEL

OCT 16 12.88 APR 07 13.19 JUL 07 12.07

WATER YEAR 2003 HIGHEST 12.07 JUL 07, 2003 LOWEST 13.19 APR 07, 2003
PERIOD OF RECORD HIGHEST 10.00 SEP 08, 1993 LOWEST 13.23 OCT 11, 2001
RECORD AVAILABLE FROM JUN 23, 1992 TO JUL 07, 2003 36 ENTRIES

SITE ID NUMBER: 413516087222301

STATION NAME: USEPA WELL BH-19 AT GARY, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL

APR 07 11.34 JUL 07 12.00

WATER YEAR 2003 HIGHEST 11.34 APR 07, 2003 LOWEST 12.00 JUL 07, 2003
PERIOD OF RECORD HIGHEST 6.03 MAR 25, 2002 LOWEST 12.00 JUL 07, 2003
RECORD AVAILABLE FROM JUN 23, 1992 TO JUL 07, 2003 21 ENTRIES

SITE ID NUMBER: 413951087301901

STATION NAME: USGS WELL BH-33-I @ BAIRSTOW SLAG DUMP

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 09 1.90 JUL 08 3.14

WATER YEAR 2003 HIGHEST 1.90 APR 09, 2003 LOWEST 3.14 JUL 08, 2003
PERIOD OF RECORD HIGHEST 1.07 JUN 05, 2001 LOWEST 5.73 JUN 24, 1997
RECORD AVAILABLE FROM JUL 17, 1996 TO JUL 08, 2003 20 ENTRIES

SITE ID NUMBER: 413951087301902

STATION NAME: USGS WELL BH-33-SH @ BAIRSTOW SLAG DUMP

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER
LEVEL LEVEL

APR 09 1.75 JUL 08 2.99

WATER YEAR 2003 HIGHEST 1.75 APR 09, 2003 LOWEST 2.99 JUL 08, 2003
PERIOD OF RECORD HIGHEST 1.53 JUL 31, 1996 AUG 02, 1996 LOWEST 4.66 JUN 24, 1997
RECORD AVAILABLE FROM JUL 17, 1996 TO JUL 08, 2003 18 ENTRIES

Table 3. Water-level records for observation wells in the Northern Lake County network, collected during water year 2003 and summary statistics.--Continued

SITE ID NUMBER: 413951087301903

STATION NAME: USGS WELL BH-33-SL @ BAIRSTOW SLAG DUMP

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 09 1.56 JUL 08 2.81

RECORD AVAILABLE FROM JUL 17, 1996 TO JUL 08, 2003 18 ENTRIES

SITE ID NUMBER: 413328087202301

STATION NAME: USGS WELL BR-1, AT IU-NW CAMPUS, GARY, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM (READINGS ABOVE LAND-SURFACE INDICATED BY "+")

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 08 .58 JUL 07 .29

SITE ID NUMBER: 413437087150601

STATION NAME: USGS WELL BR-2 @ FOUR WINDS PARK, LAKE STATION, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM (READINGS ABOVE LAND-SURFACE INDICATED BY "+")

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL

APR 07 7.53 JUL 07 7.49

SITE ID NUMBER: 413419087301701

STATION NAME: USGS WELL BR-3 AT RIVERSIDE PARK, HAMMOND, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER
LEVEL LEVEL

APR 08 4.56 JUL 08 1.84

WATER YEAR 2003 HIGHEST 1.84 JUL 08, 2003 LOWEST 4.56 APR 08, 2003 PERIOD OF RECORD HIGHEST 1.47 JUL 09, 2002 LOWEST 9.34 JUL 21, 1995

RECORD AVAILABLE FROM JUL 21, 1995 TO JUL 08, 2003 17 ENTRIES

Table 3. Water-level records for observation wells in the Northern Lake County network, collected during water year 2003 and summary statistics. -- Continued

SITE ID NUMBER: 413716087232601

STATION NAME: USGS WELL BR-4, IDNR BONGI PROP, CLARK ST, GARY, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 08 53.60 JUL 07 50.06

RECORD AVAILABLE FROM JUL 21, 1995 TO JUL 07, 2003 27 ENTRIES

SITE ID NUMBER: 413732087255801

STATION NAME: USEPA WELL BR-5 @ SR-912 & US-12, EAST CHICAGO, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 09 30.11 JUL 09 30.20

RECORD AVAILABLE FROM JUL 21, 1995 TO JUL 09, 2003 27 ENTRIES

SITE ID NUMBER: 413830087260000

STATION NAME: USGS WELL C1 @ CLINE&GUTHRIE @ GARY, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL

4.84 JUL 09 4.36

WATER YEAR 2003 HIGHEST 4.36 JUL 09, 2003 LOWEST 4.84 APR 09, 2003 PERIOD OF RECORD HIGHEST 2.04 JUN 11, 1993 LOWEST 5.30 OCT 11, 1988 RECORD AVAILABLE FROM DEC 09, 1985 TO JUL 09, 2003 67 ENTRIES

SITE ID NUMBER: 414031087245000

STATION NAME: USGS WELL C2 @INLAND STEEL NR. EAST CHICAGO, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL APR 09 DRY JUL 09 DRY

RECORD AVAILABLE FROM JUL 07, 1987 TO JUL 09, 2003 30 ENTRIES

Table 3. Water-level records for observation wells in the Northern Lake County network, collected during water year 2003 and summary statistics.--Continued

SITE ID NUMBER: 413828087251301

STATION NAME: USGS WELL C3 @ BUFFINGTON HARBOR, E. CHICAGO, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 09 10.17 JUL 09 9.73

WATER YEAR 2003 HIGHEST 9.73 JUL 09, 2003 LOWEST 10.17 APR 09, 2003 PERIOD OF RECORD HIGHEST 7.05 JUN 11, 1993 LOWEST 10.17 APR 09, 2003 RECORD AVAILABLE FROM JUN 24, 1987 TO JUL 09, 2003 50 ENTRIES

SITE ID NUMBER: 413828087251302

STATION NAME: USGS WELL C4 @ BUFFINGTON HARBOR, E. CHICAGO IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

JUL 09 APR 09 10.30 9.88

HIGHEST 9.88 JUL 09, 2003 HIGHEST 6.69 SEP 08, 1998 WATER YEAR 2003 LOWEST 10.30 APR 09, 2003 LOWEST 10.30 APR 09, 2003 PERIOD OF RECORD 6.69 SEP 08, 1998 RECORD AVAILABLE FROM JUN 24, 1987 TO JUL 09, 2003 50 ENTRIES

SITE ID NUMBER: 413655087275202

STATION NAME: USGS WELL C-5 DUPONT PROPERTY NORTH (RPD=96)

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM (READINGS ABOVE LAND-SURFACE INDICATED BY "+") WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER

LEVEL

PERIOD OF RECORD HIGHEST +.91 JUN 10, 1993 LOWEST 3.49 SEP 05, 2002 RECORD AVAILABLE FROM OCT 25, 1985 TO JUL 09, 2003 38 ENTRIES

SITE ID NUMBER: 413652087274901

STATION NAME: USGS WELL C-10 DUPONT PROPERTY MIDDLE (RPD=24)

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM (READINGS ABOVE LAND-SURFACE INDICATED BY "+") WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

1.68 JUL 09 APR 08 1.90

RECORD AVAILABLE FROM OCT 25, 1985 TO JUL 09, 2003 63 ENTRIES

GROUND-WATER AND SURFACE-WATER LEVELS IN NORTHERN LAKE COUNTY, IN--Continued Table 3. Water-level records for observation wells in the Northern Lake County network, collected during water year 2003 and summary statistics. -- Continued SITE ID NUMBER: 413650087262000 STATION NAME: USGS WELL C12 DEEP AT EAST CHICAGO, IN. WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 WATER WATER LEVEL LEVEL APR 08 1.88 JUL 09 2.02 RECORD AVAILABLE FROM AUG 05, 1987 TO JUL 09, 2003 48 ENTRIES SITE ID NUMBER: 413559087270301 STATION NAME: USGS WELL C17 AT GIBSON WOODS WATER LEVELS IN FEET BELOW LAND SURFACE DATUM (READINGS ABOVE LAND-SURFACE INDICATED BY "+") WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 WATER WATER LEVEL LEVEL APR 08 2.34 JUL 08 +.90 WATER YEAR 2003 HIGHEST +.90 JUL 08, 2003 LOWEST 2.34 APR 08, 2003 PERIOD OF RECORD HIGHEST +2.79 FEB 27, 2001 LOWEST 4.90 OCT 12, 1988 RECORD AVAILABLE FROM JUL 18, 1986 TO JUL 08, 2003 35 ENTRIES SITE ID NUMBER: 413617087262001 STATION NAME: USGS WELL C19 AT HAMMOND, IN. WATER LEVELS IN FEET BELOW LAND SURFACE DATUM (READINGS ABOVE LAND-SURFACE INDICATED BY "+") WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 WATER LEVEL 1.59 PERIOD OF RECORD HIGHEST +.61 MAR 18, 1993 LOWEST 3.83 SEP 05, 2002 RECORD AVAILABLE FROM DEC 15, 1986 TO APR 08, 2003 47 ENTRIES SITE ID NUMBER: 413557087283901

STATION NAME: USGS WELL C20 @ GARY, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM (READINGS ABOVE LAND-SURFACE INDICATED BY "+") WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER LEVEL

.29

APR 08

PERIOD OF RECORD HIGHEST +1.35 NOV 29, 1990 LOWEST 5.75 MAR 04, 1986 RECORD AVAILABLE FROM AUG 28, 1985 TO APR 08, 2003 51 ENTRIES

Table 3. Water-level records for observation wells in the Northern Lake County network, collected during water year 2003 and summary statistics. -- Continued

SITE ID NUMBER: 413527087254301

STATION NAME: USGS WELL C25 AT GARY, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 08 3.49 JUL 08 .91

WATER YEAR 2003 HIGHEST .91 JUL 08, 2003 LOWEST 3.49 APR 08, 2003 PERIOD OF RECORD HIGHEST .46 FEB 27, 2001 LOWEST 4.17 AUG 31, 1999 RECORD AVAILABLE FROM DEC 05, 1985 TO JUL 08, 2003 61 ENTRIES

SITE ID NUMBER: 414052087291201

STATION NAME: USGS WELL D1 @ WHITING, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 09 DRY JUL 09 DRY

WATER YEAR 2003

RECORD AVAILABLE FROM AUG 25, 1985 TO JUL 09, 2003 66 ENTRIES

SITE ID NUMBER: 414044087290801

STATION NAME: USGS WELL D5 AT WHITING, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER WATER LEVEL LEVEL LEVEL

APR 09 DRY JUL 08 7.01 JUL 09 DRY

WATER YEAR 2003 HIGHEST 7.01 JUL 08, 2003 LOWEST 7.01 JUL 08, 2003 PERIOD OF RECORD HIGHEST 4.10 SEP 07, 1993 LOWEST 7.27 JUN 05, 2001 RECORD AVAILABLE FROM AUG 28, 1985 TO JUL 09, 2003 64 ENTRIES

SITE ID NUMBER: 414043087290802

STATION NAME: USGS WELL D10 @ WHITING, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL T.EVET.

APR 09 7.69 JUL 08 6.97

WATER YEAR 2003 HIGHEST 6.97 JUL 08, 2003 LOWEST 7.69 APR 09, 2003 PERIOD OF RECORD HIGHEST 4.12 SEP 07, 1993 LOWEST 8.38 JAN 06, 2000 RECORD AVAILABLE FROM AUG 28, 1985 TO JUL 08, 2003 72 ENTRIES

Table 3. Water-level records for observation wells in the Northern Lake County network, collected during water year 2003 and summary statistics.--Continued

SITE ID NUMBER: 414043087290801

STATION NAME: USGS WELL D11 DEEP @ WHITING GARAGE @ WHITING, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 09 7.55 JUL 08 6.82

SITE ID NUMBER: 413941087292600

STATION NAME: USGS WELL D21 @ AMOCO PARK @ HAMMOND, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 09 3.06 JUL 08 3.06

WATER YEAR 2003 HIGHEST 3.06 APR 09, 2003 JUL 08, 2003 LOWEST 3.06 APR 09, 2003 JUL 08, 2003
PERIOD OF RECORD AVAILABLE FROM JUL 17, 1987 TO JUL 08, 2003 55 ENTRIES

SITE ID NUMBER: 413804087291102

STATION NAME: USGS WELL D-25 DICKY ROAD AT IHC WEST (RPD=96)

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 09 6.48 JUL 08 5.84

WATER YEAR 2003 HIGHEST 5.84 JUL 08, 2003 LOWEST 6.48 APR 09, 2003
PERIOD OF RECORD HIGHEST 1.94 JUN 09, 1993 LOWEST 6.48 APR 09, 2003
RECORD AVAILABLE FROM DEC 05, 1985 TO JUL 08, 2003 63 ENTRIES

SITE ID NUMBER: 413758087290702

STATION NAME: USGS WELL D-30 DICKY ROAD AT IHC MIDDLE (RPD=96)

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER
LEVEL LEVEL

APR 09 6.19 JUL 08 5.97

WATER YEAR 2003 HIGHEST 5.97 JUL 08, 2003 LOWEST 6.19 APR 09, 2003
PERIOD OF RECORD HIGHEST 2.43 DEC 05, 1985 LOWEST 6.19 APR 09, 2003
RECORD AVAILABLE FROM DEC 05, 1985 TO JUL 08, 2003 63 ENTRIES

Table 3. Water-level records for observation wells in the Northern Lake County network, collected during water year 2003 and summary statistics.--Continued

SITE ID NUMBER: 413907087275901

STATION NAME: USGS WELL D31 DEEP @ DICKY RD. @ EAST CHICAGO, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 09 6.13 JUL 08 5.93

WATER YEAR 2003 HIGHEST 5.93 JUL 08, 2003 LOWEST 6.13 APR 09, 2003
PERIOD OF RECORD HIGHEST 2.71 JUN 09, 1993 LOWEST 6.13 APR 09, 2003
RECORD AVAILABLE FROM JUL 16, 1987 TO JUL 08, 2003 53 ENTRIES

SITE ID NUMBER: 413835087245101

STATION NAME: USGS WELL D40 @ E. CHICAGO, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 09 3.27 JUL 09 2.67

SITE ID NUMBER: 413812087270201

STATION NAME: USGS WELL D45 AT E. CHICAGO, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 09 4.57 JUL 09 4.53

WATER YEAR 2003 HIGHEST 4.53 JUL 09, 2003 LOWEST 4.57 APR 09, 2003
PERIOD OF RECORD HIGHEST 2.93 NOV 28, 1990 LOWEST 6.87 JUN 29, 1999
RECORD AVAILABLE FROM OCT 24, 1985 TO JUL 09, 2003 65 ENTRIES

SITE ID NUMBER: 413800087285401

STATION NAME: USGS WELL D50 AT EAST CHICAGO, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 09 7.00 JUL 09 6.76

Table 3. Water-level records for observation wells in the Northern Lake County network, collected during water year 2003 and summary statistics.--Continued

SITE ID NUMBER: 413758087281001

STATION NAME: USGS WELL D-60 PHILLIPS PIPELINE MIDDLE (RPD=96)

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER

LEVEL

JUL 09 DRY

PERIOD OF RECORD HIGHEST 3.29 NOV 27, 1985 LOWEST 6.37 OCT 12, 1988

RECORD AVAILABLE FROM OCT 29, 1985 TO JUL 09, 2003 40 ENTRIES

SITE ID NUMBER: 413654087274000

STATION NAME: USGS WELL D66 @DUPONT, KENNEDY & GR. CAL. @ E. CHICAGO, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER
LEVEL LEVEL

APR 08 5.87 JUL 09 5.76

WATER YEAR 2003 HIGHEST 5.76 JUL 09, 2003 LOWEST 5.87 APR 08, 2003 PERIOD OF RECORD HIGHEST 4.76 JUN 27, 1997 LOWEST 6.68 MAR 28, 2000

RECORD AVAILABLE FROM JUL 15, 1987 TO JUL 09, 2003 50 ENTRIES

SITE ID NUMBER: 413647087282502

STATION NAME: USGS WELL D67 SHALLOW NIPSCO SUBSTA AT HAMMOND, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 08 5.12 JUL 08 4.9

WATER YEAR 2003 HIGHEST 4.98 JUL 08, 2003 LOWEST 5.12 APR 08, 2003 PERIOD OF RECORD HIGHEST .34 NOV 28, 1990 LOWEST 6.21 SEP 04, 2002

RECORD AVAILABLE FROM JUL 16, 1987 TO JUL 08, 2003 52 ENTRIES

SITE ID NUMBER: 413647087282501

STATION NAME: USGS WELL D68 DEEP NIPSCO SUBSTA, AT HAMMOND, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER

LEVEL LEVEL

APR 08 5.30 JUL 08 5.17

RECORD AVAILABLE FROM JUL 16, 1987 TO JUL 08, 2003 52 ENTRIES

Table 3. Water-level records for observation wells in the Northern Lake County network, collected during water year 2003 and summary statistics.--Continued

SITE ID NUMBER: 413515087291401

STATION NAME: USGS WELL D70 AT HAMMOND, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 08 4.12 JUL 08 3.86

WATER YEAR 2003 HIGHEST 3.86 JUL 08, 2003 LOWEST 4.12 APR 08, 2003
PERIOD OF RECORD HIGHEST 1.10 NOV 28, 1990 LOWEST 5.10 SEP 04, 2002
RECORD AVAILABLE FROM JAN 07, 1986 TO JUL 08, 2003 58 ENTRIES

SITE ID NUMBER: 413435087291901

STATION NAME: USGS WELL D-75 @ HAMMOND, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL

APR 08 4.45 JUL 08 3.99

SITE ID NUMBER: 413844087310401

STATION NAME: USGS WELL E1 @ HAMMOND, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 08 3.17 JUL 08 2.92

WATER YEAR 2003 HIGHEST 2.92 JUL 08, 2003 LOWEST 3.17 APR 08, 2003
PERIOD OF RECORD HIGHEST 1.08 JUL 18, 1996 LOWEST 3.97 OCT 12, 1988
RECORD AVAILABLE FROM DEC 13, 1985 TO JUL 08, 2003 67 ENTRIES

SITE ID NUMBER: 414105087293900

STATION NAME: USGS WELL E2 @ WHIHALA BEACH PARK @ WHITING, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER
LEVEL LEVEL

APR 08 5.68 JUL 08 6.10

WATER YEAR 2003 HIGHEST 5.68 APR 08, 2003 LOWEST 6.10 JUL 08, 2003
PERIOD OF RECORD HIGHEST 2.95 JUN 09, 1987 LOWEST 6.20 JAN 06, 2000
RECORD AVAILABLE FROM JUN 09, 1987 TO JUL 08, 2003 51 ENTRIES

Table 3. Water-level records for observation wells in the Northern Lake County network, collected during water year 2003 and summary statistics.--Continued

SITE ID NUMBER: 414013087303300

STATION NAME: USGS WELL E3 @ WOLF LAKE PARK @ HAMMOND, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 08 1.38 JUL 08 2.50

WATER YEAR 2003 HIGHEST 1.38 APR 08, 2003 LOWEST 2.50 JUL 08, 2003
PERIOD OF RECORD HIGHEST .59 JUL 18, 1996 LOWEST 3.40 JUL 05, 1988
RECORD AVAILABLE FROM JUN 22, 1987 TO JUL 08, 2003 58 ENTRIES

SITE ID NUMBER: 413810087305201

STATION NAME: USGS WELL E5 AT HAMMOND, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 08 5.63 JUL 08 5.38

WATER YEAR 2003 HIGHEST 5.38 JUL 08, 2003 LOWEST 5.63 APR 08, 2003
PERIOD OF RECORD HIGHEST 3.60 JUL 10, 1993 LOWEST 5.98 SEP 06, 2001
RECORD AVAILABLE FROM AUG 28, 1985 TO JUL 08, 2003 64 ENTRIES

SITE ID NUMBER: 413938087304301

STATION NAME: 8SGS WELL E6 @ 129TH & SHEFFIELD @ HAMMOND, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 08 .52 JUL 08 1.35

WATER YEAR 2003 HIGHEST .52 APR 08, 2003 LOWEST 1.35 JUL 08, 2003
PERIOD OF RECORD HIGHEST .25 JUN 05, 2001 LOWEST 3.15 AUG 31, 1999
RECORD AVAILABLE FROM JUN 22, 1987 TO JUL 08, 2003 55 ENTRIES

SITE ID NUMBER: 413938087304302

STATION NAME: USGS WELL E7 @ 129TH & SHEFFIELD @ HAMMOND, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER
LEVEL LEVEL

APR 08 .40 JUL 08 1.37

Table 3. Water-level records for observation wells in the Northern Lake County network, collected during water year 2003 and summary statistics.--Continued

SITE ID NUMBER: 413722087304101

STATION NAME: USGS WELL E-10 SPOHN SCHOOL NORTH (RPD=24)

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 08 5.16 JUL 08 5.12

WATER YEAR 2003 HIGHEST 5.12 JUL 08, 2003 LOWEST 5.16 APR 08, 2003
PERIOD OF RECORD HIGHEST 2.46 JUN 10, 1993 LOWEST 6.11 SEP 06, 2001
RECORD AVAILABLE FROM OCT 17, 1985 TO JUL 08, 2003 70 ENTRIES

SITE ID NUMBER: 413720087304201

STATION NAME: USGS WELL E-15 SPOHN SCHOOL SOUTH (RPD=24)

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 08 3.79 JUL 08 3.80

SITE ID NUMBER: 413627087310500

STATION NAME: USGS WELL E20 @ EGGERS SCHOOL @ HAMMOND, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 08 3.60 JUL 08 3.69

SITE ID NUMBER: 413706087171901

STATION NAME: USX WELL HWD2-19D, GARY, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER
LEVEL LEVEL

APR 10 15.76 JUL 09 15.15

Table 3. Water-level records for observation wells in the Northern Lake County network, collected during water year 2003 and summary statistics. -- Continued

SITE ID NUMBER: 413706087171902

STATION NAME: USX WELL HWD-2-19S, AT GARY, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 10 DRY JUL 10 DRY

HIGHEST WATER YEAR 2003 LOWEST

PERIOD OF RECORD HIGHEST 13.04 MAR 24, 1998 LOWEST 15.64 JUL 10, 2002

RECORD AVAILABLE FROM JUL 18, 1995 TO JUL 10, 2003 20 ENTRIES

SITE ID NUMBER: 413703087171501

STATION NAME: USX WELL HWD-2-20D, AT GARY, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 10 32.23 JUL 09 31.08

WATER YEAR 2003 HIGHEST 31.08 JUL 09, 2003 LOWEST 32.23 APR 10, 2003 PERIOD OF RECORD HIGHEST 29.93 JUL 01, 1999 LOWEST 32.23 APR 10, 2003 RECORD AVAILABLE FROM JUL 10, 1996 TO JUL 09, 2003 18 ENTRIES

SITE ID NUMBER: 413703087171502

STATION NAME: USX WELL HWD-2-20S AT GARY, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL

APR 10 32.41 JUL 09 31.25

WATER YEAR 2003 HIGHEST 31.25 JUL 09, 2003 LOWEST 32.41 APR 10, 2003 PERIOD OF RECORD HIGHEST 30.10 JUL 01, 1999 LOWEST 32.41 APR 10, 2003 RECORD AVAILABLE FROM JUL 10, 1996 TO JUL 09, 2003 18 ENTRIES

SITE ID NUMBER: 413752087223501

STATION NAME: USX WELL HWT2-9 AT GARY, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM (READINGS ABOVE LAND-SURFACE INDICATED BY "+") WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL APR 10 29.58 JUL 09 29.18

WATER YEAR 2003 HIGHEST 29.18 JUL 09, 2003 LOWEST 29.58 APR 10, 2003 PERIOD OF RECORD HIGHEST 25.68 JUL 24, 1986 LOWEST 29.94 MAR 29, 2000 RECORD AVAILABLE FROM DEC 10, 1985 TO JUL 09, 2003 57 ENTRIES

Table 3. Water-level records for observation wells in the Northern Lake County network, collected during water year 2003 and summary statistics.--Continued

SITE ID NUMBER: 413722087225501

STATION NAME: USX WELL HWT14-05 AT GARY, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 08 4.95 JUL 07 4.83

RECORD AVAILABLE FROM DEC 10, 1985 TO JUL 07, 2003 43 ENTRIES

SITE ID NUMBER: 413744087223901

STATION NAME: USX WELL P-4 AT GARY, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER LEVEL LEVEL

APR 10 21.94 JUL 09 20.80

.... 10 21.31 001 03 20.00

WATER YEAR 2003 HIGHEST 20.80 JUL 09, 2003 LOWEST 21.94 APR 10, 2003
PERIOD OF RECORD HIGHEST 18.39 JUN 08, 1993 LOWEST 22.59 MAR 29, 2000
RECORD AVAILABLE FROM DEC 10, 1985 TO JUL 09, 2003 55 ENTRIES

SITE ID NUMBER: 414144087304101

STATION NAME: USEPA WELL MW-1 AT HAMMOND, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 09 13.66 JUL 08 13.26

WATER YEAR 2003 HIGHEST 13.26 JUL 08, 2003 LOWEST 13.66 APR 09, 2003
PERIOD OF RECORD HIGHEST 2.46 JUL 09, 2002 LOWEST 13.91 JAN 06, 2000
RECORD AVAILABLE FROM MAR 17, 1993 TO JUL 08, 2003 25 ENTRIES

SITE ID NUMBER: 414033087245501

STATION NAME: ISPAT INLAND STEEL WELL MW-1G, EAST CHICAGO, IN.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

WATER WATER LEVEL LEVEL

APR 09 18.82 JUL 10 19.56

WATER YEAR 2003 HIGHEST 18.82 APR 09, 2003 LOWEST 19.56 JUL 10, 2003
PERIOD OF RECORD HIGHEST 5.80 DEC 16, 1998 LOWEST 19.56 JUL 10, 2003
RECORD AVAILABLE FROM OCT 07, 1992 TO JUL 10, 2003 20 ENTRIES

MISCELLANEOUS PROJECT DATA

GROUND-WATER AND SURFACE-WATER LEVELS IN NORTHERN LAKE COUNTY, IN--Continued

Table 4. Location and description of surface-water stage measurement sites in Northern Lake County network measured during water year 2003.

Site name	Surface-water body	Latitude/longitude	USGS site identifier	Measurement location
S-1	Wolf Lake	41°40′16″/87°30′37″	414016087303701	Fishing pier in Wolf Lake Park, Hammond, IN.
S-8	Sewer	41°38′08″/87°27′05″	413808087270501	Sewer grate, Washington Park, East Chicago, IN.
S-13	Grand Calumet River	41°36′32″/87°22′18″	413632087221900	At Bridge Street bridge, Gary, IN.
E-16S	Grand Calumet River	41°37′19″/87°30′44″	413719087304302	Spohn School, Hammond, IN.

MISCELLANEOUS PROJECT DATA

GROUND-WATER AND SURFACE-WATER LEVELS IN NORTHERN LAKE COUNTY, IN--Continued

Table 5. Reference-point altitude and miscellaneous measurements of surface-water stage in the Northern Lake County network, water year 2003 and period of record.

ft, feet; LSD, land surface datum; --, not recorded; >, greater than

Site name	USGS site identifier	Period of record	Date	Depth to water surface below measuring point (ft)	Altitude of measuring point (ft above sea level) ¹
S-1	414016087303701	03-1986 through 07-2003	APR 08, 2003	1.74	581.49
			JUL 08, 2003	1.84	581.49
S-8	413808087270501	01-1986 through 09-2002	APR 09, 2003	1.40	581.56
			JUL 09, 2003	1.45	581.56
S-13	413632087221900	10-1988 through 09-2002	APR 07, 2003	18.02	600.02
2-13	413632067221900	10-1988 through 09-2002	•		
			JUL 07, 2003	17.45	600.02
E-16S	413719087304302	12-1985 through 09-2002	APR 08, 2003	6.96	581.86
	=== : == : :	== == == ==== oug op =oo	JUL 08, 2003	6.11	582.86
			001 00, 2003	0.11	302.00

 $^{^{\}rm 1}$ Several sites have multiple measuring points to accommodate changing site conditions.

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