

03373500 EAST FORK WHITE RIVER AT SHOALS, IN

LOCATION.--Lat 38°40'01", long 86°47'31", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

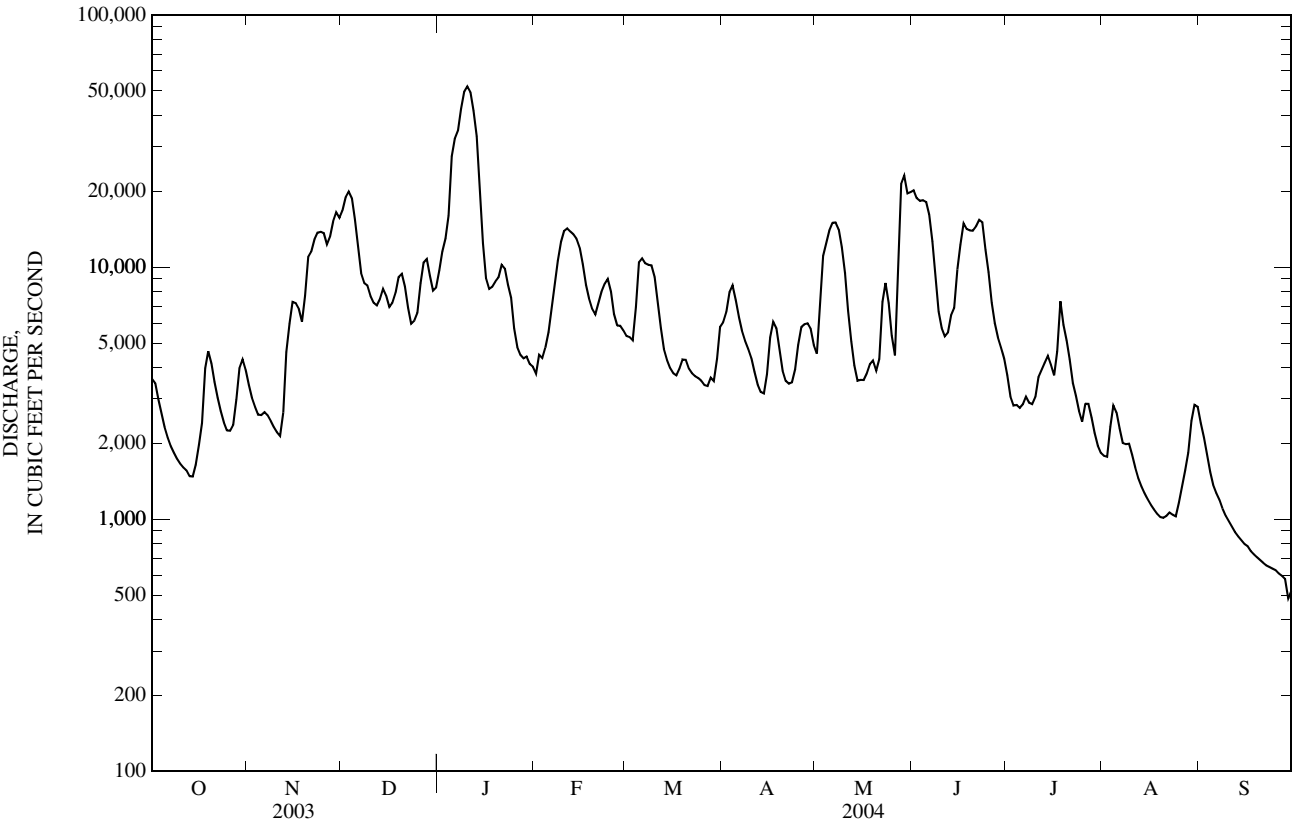
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,600	3,410	16,800	9,690	e3,780	e5,330	6,050	4,530	20,200	3,730	1,780	2,410
2	3,460	3,040	19,000	11,500	e4,500	e5,280	6,630	7,170	18,800	3,060	1,770	2,110
3	3,000	2,790	20,000	13,000	e4,360	5,130	7,960	11,100	18,300	2,830	2,320	1,800
4	2,620	2,600	18,800	16,000	e4,790	6,940	8,450	12,500	18,400	2,840	2,830	1,540
5	2,320	2,590	15,400	27,500	e5,530	10,400	7,410	14,000	18,100	2,770	2,650	1,370
6	2,110	2,660	11,900	32,300	e6,860	10,800	6,330	15,000	16,200	2,860	2,290	1,270
7	1,950	2,580	9,450	34,800	e8,470	10,400	5,600	15,100	12,600	3,060	2,010	1,190
8	1,840	2,450	8,630	42,400	e10,600	10,200	5,090	14,100	9,050	2,900	1,990	1,100
9	1,740	2,320	8,450	49,700	e12,600	10,200	4,750	12,000	6,650	2,860	1,990	1,030
10	1,660	2,210	7,680	52,100	e13,900	9,140	4,350	9,450	5,740	3,060	1,810	979
11	1,610	2,140	7,220	49,400	14,200	7,330	3,850	6,710	5,320	3,660	1,600	931
12	1,560	2,650	7,050	e41,700	13,800	5,730	3,420	5,080	e5,500	3,910	1,460	889
13	1,480	4,600	7,460	33,000	13,500	4,730	3,200	4,080	6,440	4,170	1,350	855
14	1,480	5,970	8,210	20,800	13,000	4,270	3,160	3,540	6,880	4,450	1,270	826
15	1,650	7,270	7,720	12,400	11,900	3,980	3,750	3,570	9,780	4,110	1,200	797
16	1,970	7,190	6,950	9,060	10,300	3,790	5,260	3,570	12,300	3,720	1,140	782
17	2,400	6,840	7,210	8,200	8,500	3,720	6,070	3,780	14,900	4,630	1,090	747
18	3,970	6,070	7,910	8,360	7,510	3,970	5,720	4,120	14,200	7,320	1,050	727
19	4,640	7,680	9,130	8,770	6,820	4,300	4,720	e4,260	14,000	5,910	1,020	706
20	4,150	11,000	9,410	9,100	6,490	4,290	3,880	e3,890	13,900	5,120	1,010	689
21	3,510	11,500	8,390	10,200	7,240	3,960	3,540	4,320	14,500	4,310	1,030	671
22	3,030	12,900	6,890	9,860	7,990	3,790	3,450	7,280	15,400	3,470	1,060	656
23	2,690	13,700	5,970	8,530	8,600	3,700	3,490	8,650	15,100	3,090	1,040	646
24	2,420	13,800	6,130	e7,560	8,980	3,630	3,930	7,200	11,700	2,680	1,030	637
25	2,250	13,600	6,570	e5,710	8,000	3,540	4,910	5,340	e9,530	2,440	1,170	627
26	2,240	e12,300	8,620	e4,810	6,510	3,400	5,780	4,470	e7,210	2,870	1,350	610
27	2,370	e13,200	10,400	e4,490	5,870	3,370	5,930	8,090	6,000	2,870	1,560	596
28	2,990	e15,200	10,800	e4,350	5,850	3,650	e5,980	21,400	5,250	2,530	1,830	579
29	3,970	16,500	e9,280	e4,420	5,600	3,540	5,700	23,000	4,800	2,200	2,450	484
30	4,310	e15,700	8,070	e4,130	---	4,320	4,910	19,600	4,330	1,960	2,840	518
31	3,920	---	8,300	e4,030	---	5,790	---	19,800	---	1,830	2,790	---
TOTAL	82,910	226,460	303,800	557,870	246,050	172,620	153,270	286,700	341,080	107,220	51,780	28,772
MEAN	2,675	7,549	9,800	18,000	8,484	5,568	5,109	9,248	11,370	3,459	1,670	959
MAX	4,640	16,500	20,000	52,100	14,200	10,800	8,450	23,000	20,200	7,320	2,840	2,410
MIN	1,480	2,140	5,970	4,030	3,780	3,370	3,160	3,540	4,330	1,830	1,010	484
CFSM	0.54	1.53	1.99	3.65	1.72	1.13	1.04	1.88	2.31	0.70	0.34	0.19
IN.	0.63	1.71	2.29	4.21	1.86	1.30	1.16	2.16	2.58	0.81	0.39	0.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 2004, BY WATER YEAR (WY)

MEAN	1,698	2,998	5,515	8,658	8,663	10,930	10,060	7,896	4,775	3,039	1,969	1,400
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)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1904 - 2004	
ANNUAL TOTAL	2,708,520		2,558,532		5,615	
ANNUAL MEAN	7,421		6,991		10,370	
HIGHEST ANNUAL MEAN					855	
LOWEST ANNUAL MEAN					1941	
HIGHEST DAILY MEAN	28,500	May 11	52,100	Jan 10	155,000	Mar 28, 1913
LOWEST DAILY MEAN	1,030	Aug 28	484	Sep 29	64	Oct 6, 1935
ANNUAL SEVEN-DAY MINIMUM	1,130	Aug 23	579	Sep 24	168	Oct 3, 1935
MAXIMUM PEAK FLOW			52,500	Jan 10	160,000	Mar 28, 1913
MAXIMUM PEAK STAGE			27.85	Jan 10	42.20	Mar 28, 1913
ANNUAL RUNOFF (CFSM)	1.51		1.42		1.14	
ANNUAL RUNOFF (INCHES)	20.45		19.32		15.48	
10 PERCENT EXCEEDS	16,000		14,200		14,600	
50 PERCENT EXCEEDS	5,970		4,740		2,720	
90 PERCENT EXCEEDS	1,950		1,270		535	

e Estimated



03373980 WHITE RIVER ABOVE PETERSBURG, IN

LOCATION.--Lat 38°31'42", long 87°15'14", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ 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 good. 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

WATERYEAR OCTOBER 2003 TO SEPTEMBER 2004

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, 28.4°C, Aug. 4, minimum, 0.8°C, Jan. 31, and Feb. 2.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	16.9	16.3	16.6	14.9	14.5	14.8	8.4	7.3	7.9	5.7	4.9	5.2
2	16.3	15.7	16.1	15.6	14.7	15.1	7.3	6.5	6.8	7.2	5.7	6.4
3	15.9	15.2	15.4	15.9	14.9	15.4	6.5	6.3	6.4	7.9	7.2	7.5
4	15.8	15.0	15.4	16.3	15.1	15.7	6.3	6.0	6.1	8.5	7.9	8.2
5	16.0	14.9	15.5	16.2	15.5	16.0	6.0	5.9	6.0	8.4	8.1	8.2
6	16.7	15.4	16.1	15.5	14.4	14.9	6.2	5.9	6.1	8.1	6.6	7.3
7	17.3	16.0	16.7	14.4	13.1	13.7	6.5	6.1	6.3	6.6	5.2	5.7
8	17.8	16.6	17.2	13.1	12.1	12.5	6.9	6.3	6.5	5.2	3.7	4.4
9	17.5	17.0	17.3	12.1	11.3	11.8	7.5	6.9	7.2	3.7	2.6	3.1
10	18.5	17.3	17.8	12.6	11.5	12.0	7.8	7.5	7.7	2.6	1.7	2.0
11	19.1	17.9	18.5	13.5	12.6	13.0	7.5	6.8	7.1	2.0	1.4	1.7
12	19.3	18.3	18.8	14.5	13.5	14.0	6.8	6.2	6.4	2.3	1.8	2.0
13	18.8	17.5	18.2	13.5	11.6	12.3	6.2	5.8	6.0	2.6	1.9	2.2
14	18.4	16.5	17.6	11.6	10.4	10.9	5.8	5.5	5.7	3.3	2.1	2.6
15	16.9	15.7	16.3	10.6	10.1	10.3	5.6	5.4	5.5	3.4	2.9	3.2
16	16.6	15.5	16.2	11.0	10.6	10.8	5.4	4.9	5.3	3.8	3.4	3.6
17	16.4	15.7	16.1	11.6	10.9	11.2	4.9	4.5	4.6	4.5	3.8	4.1
18	15.8	15.1	15.5	11.8	11.6	11.7	4.5	4.2	4.4	4.7	4.4	4.6
19	16.3	15.3	15.8	11.8	11.4	11.6	4.3	4.0	4.2	4.4	4.0	4.2
20	16.1	15.3	15.8	11.6	11.2	11.4	4.0	3.7	3.9	4.0	3.7	3.9
21	16.1	15.6	15.8	12.3	11.4	11.8	3.8	3.4	3.6	4.1	3.8	3.9
22	15.7	15.2	15.4	13.0	12.3	12.6	4.2	3.7	3.8	3.8	3.0	3.5
23	16.2	14.8	15.3	13.4	13.0	13.1	4.6	4.2	4.4	3.0	2.5	2.6
24	15.9	15.0	15.5	13.1	11.7	12.3	4.5	4.3	4.4	2.7	2.4	2.6
25	15.7	15.3	15.5	11.7	11.2	11.4	4.4	4.0	4.2	2.7	2.0	2.3
26	15.5	14.9	15.2	11.2	10.9	11.0	4.6	4.1	4.3	2.3	2.0	2.2
27	14.9	14.0	14.4	10.9	10.3	10.7	4.6	4.2	4.4	2.3	2.0	2.2
28	14.2	13.5	13.8	10.3	9.0	9.7	5.1	4.6	4.8	2.0	1.4	1.7
29	13.5	12.8	13.1	9.0	8.6	8.8	5.1	4.9	5.0	1.7	1.4	1.5
30	14.0	12.7	13.4	8.6	8.4	8.5	4.9	4.6	4.8	1.4	0.9	1.1
31	14.9	14.0	14.5	---	---	---	5.0	4.6	4.8	1.1	0.8	0.9
MONTH	19.3	12.7	16.0	16.3	8.4	12.3	8.4	3.4	5.4	8.5	0.8	3.7

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	1.3	0.8	1.1	9.1	7.9	8.4	13.8	13.0	13.4	19.0	18.5	18.7
2	1.8	1.2	1.4	9.7	8.6	9.2	13.6	12.8	13.2	18.5	17.6	18.0
3	1.8	1.5	1.7	9.6	9.2	9.4	13.7	12.7	13.2	17.7	16.8	17.1
4	1.6	1.2	1.4	10.0	9.2	9.5	13.4	12.6	13.0	17.0	16.4	16.7
5	2.0	1.5	1.7	11.2	10.0	10.6	13.0	12.3	12.7	17.1	16.0	16.5
6	2.3	2.0	2.2	11.5	11.0	11.2	13.3	12.3	12.8	17.1	16.1	16.6
7	2.5	2.2	2.3	11.5	11.1	11.3	13.8	12.7	13.2	18.1	16.7	17.4
8	2.6	2.2	2.4	11.2	10.7	11.0	14.8	13.4	14.1	19.5	18.0	18.7
9	2.6	2.3	2.5	11.1	10.8	11.0	15.2	13.8	14.6	20.8	19.4	20.1
10	2.6	2.2	2.4	11.1	10.5	10.8	15.1	14.6	14.9	21.5	20.7	21.1
11	2.6	2.2	2.4	10.7	10.1	10.4	15.4	14.5	15.0	22.7	21.5	22.1
12	3.0	2.5	2.7	10.1	9.3	9.6	15.2	13.8	14.5	23.4	22.0	22.7
13	3.1	2.9	3.0	9.7	8.8	9.3	13.8	12.4	13.1	---	---	---
14	3.5	3.0	3.2	9.8	9.2	9.5	13.7	11.9	12.8	---	---	---
15	3.5	3.1	3.3	10.1	9.0	9.6	15.0	12.9	13.9	---	---	---
16	3.5	2.9	3.2	10.0	9.2	9.5	16.2	14.6	15.4	---	---	---
17	3.7	3.1	3.4	9.5	9.0	9.3	16.9	15.6	16.2	---	---	---
18	4.1	3.3	3.7	10.4	9.3	9.8	17.7	15.9	16.7	---	---	---
19	4.8	3.8	4.3	10.9	9.4	10.1	17.4	16.3	16.8	---	---	---
20	5.4	4.7	5.0	10.8	10.4	10.6	17.9	16.6	17.2	---	---	---
21	5.4	5.2	5.2	10.4	9.4	9.7	18.6	17.6	18.0	---	---	---
22	5.8	5.0	5.4	9.8	8.8	9.3	18.5	18.2	18.4	---	---	---
23	6.5	5.7	6.1	9.7	8.9	9.3	18.3	18.0	18.1	---	---	---
24	6.7	6.2	6.5	11.0	9.6	10.2	18.2	17.7	18.0	---	---	---
25	6.7	6.3	6.5	12.3	10.9	11.5	18.9	18.0	18.4	---	---	---
26	6.7	6.0	6.4	12.9	12.3	12.7	18.9	17.8	18.4	---	---	---
27	7.2	6.2	6.7	13.9	12.8	13.3	18.3	17.3	17.8	23.2	22.4	22.8
28	7.6	6.5	7.1	15.0	13.7	14.3	18.1	16.7	17.5	22.9	21.9	22.1
29	8.1	7.1	7.6	15.2	14.5	14.8	18.5	16.9	17.7	21.9	20.8	21.2
30	---	---	---	15.1	14.5	14.8	19.3	18.0	18.6	21.9	21.1	21.4
31	---	---	---	14.5	13.4	13.8	---	---	---	22.4	21.6	21.9
MONTH	8.1	0.8	3.8	15.2	7.9	10.8	19.3	11.9	15.6	23.4	16.0	19.7
	JUNE			JULY			AUGUST			SEPTEMBER		
1	22.2	21.7	21.9	25.4	24.7	25.1	26.3	24.1	25.1	26.0	24.2	25.0
2	22.5	21.5	21.9	25.9	24.9	25.4	27.1	25.1	26.1	25.9	24.3	25.1
3	22.7	21.9	22.3	26.1	25.3	25.7	27.9	25.9	26.8	25.6	24.9	25.2
4	22.8	22.0	22.4	27.0	25.3	26.0	28.4	26.9	27.6	26.4	24.6	25.4
5	22.9	22.1	22.4	26.4	25.5	26.0	27.9	26.6	27.3	27.2	25.2	26.1
6	22.9	22.3	22.6	26.8	25.2	25.9	27.1	25.5	26.3	27.4	25.4	26.3
7	23.3	22.7	23.0	26.7	25.4	26.0	26.6	24.9	25.8	26.5	25.2	25.8
8	24.0	23.1	23.5	26.6	25.6	26.0	26.5	24.7	25.6	25.2	23.8	24.3
9	24.3	23.6	23.9	27.0	25.6	26.3	26.9	25.1	25.9	24.9	22.8	23.8
10	24.9	23.9	24.4	28.0	26.0	27.0	27.1	25.6	26.3	25.2	22.7	23.9
11	25.9	24.4	25.1	28.3	27.0	27.6	26.1	24.8	25.3	25.1	23.2	24.2
12	25.6	25.0	25.3	27.7	26.6	27.0	24.8	23.0	23.8	25.4	23.4	24.4
13	25.0	24.1	24.5	27.9	26.4	27.0	23.4	22.1	22.8	25.8	23.7	24.7
14	25.5	24.1	24.8	27.1	26.3	26.7	23.1	21.5	22.4	25.0	23.6	24.4
15	25.3	24.8	25.0	26.9	26.1	26.5	24.1	21.6	22.8	25.6	23.6	24.6
16	25.9	24.8	25.4	26.6	25.5	26.0	24.4	21.9	23.1	25.5	24.6	25.0
17	25.9	25.1	25.5	26.6	25.6	26.1	24.7	22.4	23.5	25.2	23.6	24.5
18	25.7	25.3	25.5	26.8	25.7	26.3	26.0	23.3	24.5	24.5	22.5	23.4
19	26.1	25.2	25.6	26.6	25.6	26.2	26.9	24.6	25.7	23.9	21.9	22.8
20	26.0	25.2	25.6	25.6	24.1	24.8	26.1	24.5	25.2	23.7	21.1	22.4
21	25.8	25.3	25.6	26.4	24.4	25.3	25.8	23.4	24.6	23.7	21.2	22.4
22	25.8	25.4	25.6	26.8	25.3	26.0	26.1	23.8	24.9	24.1	21.4	22.7
23	25.7	25.1	25.4	26.6	25.6	26.0	26.3	24.4	25.4	23.7	21.8	22.8
24	25.7	25.0	25.4	26.1	24.9	25.5	26.7	25.2	25.9	23.2	22.2	22.7
25	25.4	24.9	25.1	25.7	24.0	24.8	27.0	25.1	26.0	23.9	22.1	22.8
26	24.9	24.1	24.5	24.0	22.9	23.4	26.5	24.9	25.8	23.3	21.2	22.2
27	24.8	23.8	24.3	23.9	22.1	23.0	26.9	25.8	26.3	23.0	20.6	21.8
28	24.6	23.9	24.3	24.9	22.8	23.8	26.8	25.9	26.4	22.3	20.4	21.3
29	25.2	23.6	24.4	25.0	23.9	24.4	25.9	25.0	25.4	20.8	19.2	20.1
30	25.5	24.0	24.8	24.7	24.2	24.5	25.5	24.4	24.9	20.9	18.4	19.6
31	---	---	---	25.0	23.9	24.4	25.7	24.2	25.0	---	---	---
MONTH	26.1	21.5	24.3	28.3	22.1	25.6	28.4	21.5	25.2	27.4	18.4	23.7
YEAR	28.4	0.8	15.4									

03374000 WHITE RIVER AT PETERSBURG, IN

LOCATION.--Lat 38°30'39", long 87°17'22", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ 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 good. 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

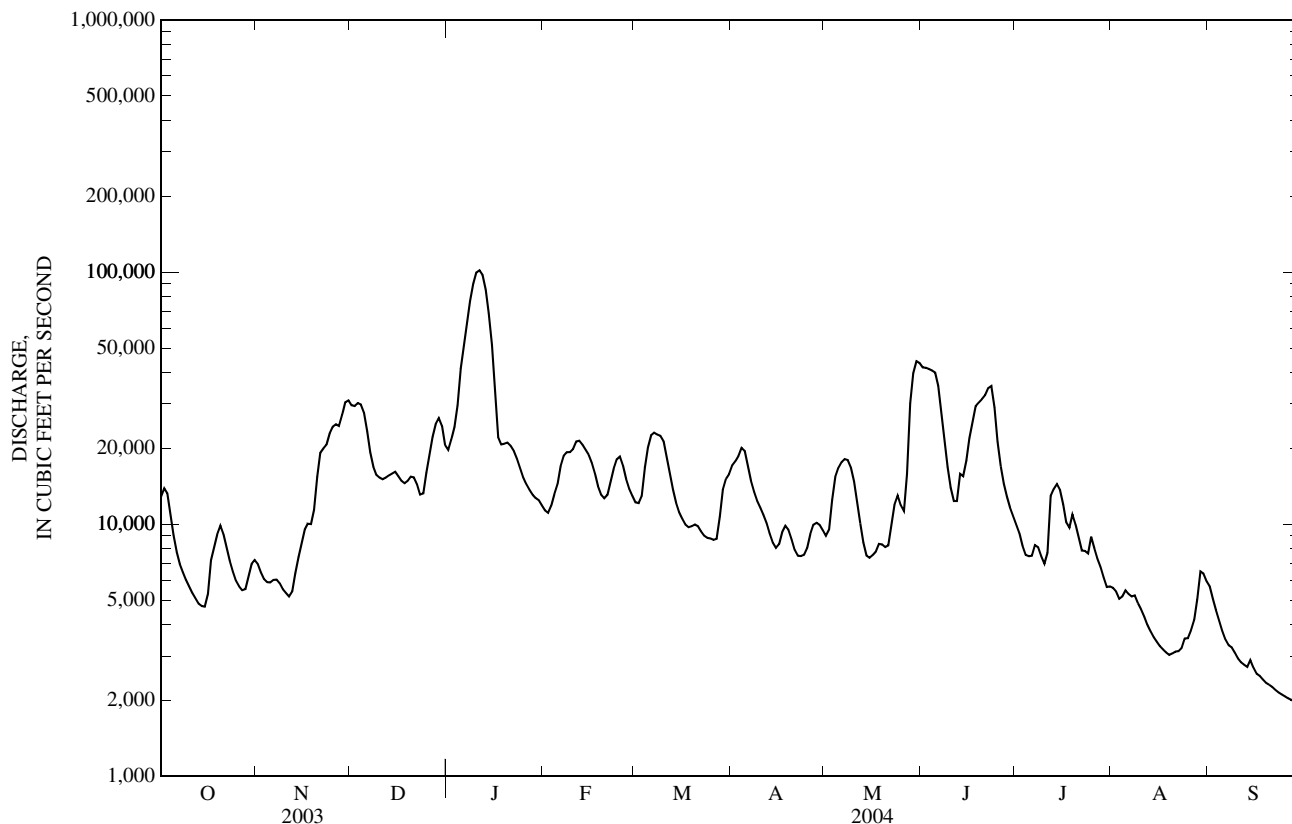
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12,800	6,960	29,700	19,700	11,300	12,200	17,100	8,980	41,900	9,980	5,590	5,670
2	13,900	6,450	29,500	21,700	11,100	12,100	17,800	9,520	41,800	9,210	5,410	5,060
3	13,300	6,060	30,300	24,400	11,900	12,900	18,700	12,400	41,300	8,220	5,060	4,570
4	10,900	5,890	29,900	29,600	13,100	16,800	20,100	15,400	40,700	7,550	5,170	4,140
5	9,050	5,880	27,700	41,500	14,400	20,200	19,500	16,700	40,000	7,470	5,460	3,790
6	7,760	6,020	23,400	51,100	17,000	22,500	17,000	17,600	35,500	7,500	5,290	3,490
7	6,960	6,030	19,300	62,600	18,700	23,100	14,900	18,100	27,800	8,260	5,160	3,310
8	6,440	5,830	16,900	76,700	19,300	22,700	13,400	18,000	21,400	8,100	5,220	3,250
9	6,020	5,530	15,700	90,000	19,300	22,400	12,400	16,800	16,800	7,480	4,860	3,090
10	5,660	5,340	15,300	99,600	19,900	21,300	11,600	14,800	14,000	6,980	4,610	2,940
11	5,340	5,170	15,100	102,000	21,300	18,700	10,900	12,400	12,400	7,700	4,310	2,830
12	5,080	5,420	15,300	97,600	21,400	16,000	10,100	10,100	12,400	13,000	4,000	2,770
13	4,850	6,390	15,600	85,200	20,700	13,800	9,190	8,470	15,900	13,800	3,760	2,710
14	4,740	7,400	15,900	68,500	19,800	12,200	8,440	7,510	15,500	14,400	3,570	2,890
15	4,710	8,370	16,100	51,600	18,800	11,200	8,060	7,360	17,900	13,700	3,420	2,690
16	5,290	9,520	15,500	33,600	17,600	10,500	8,350	7,550	22,000	12,000	3,290	2,550
17	7,200	10,000	14,900	22,200	15,900	9,980	9,300	7,770	25,500	10,200	3,190	2,500
18	8,140	10,000	14,500	20,700	14,200	9,730	9,860	8,360	29,400	9,700	3,100	2,420
19	9,110	11,400	14,800	20,900	13,100	9,820	9,520	8,330	30,400	10,900	3,030	2,350
20	9,870	15,400	15,400	21,100	12,700	9,980	8,710	8,110	31,300	9,960	3,070	2,310
21	9,130	19,200	15,400	20,500	13,100	9,820	7,910	8,230	32,500	8,870	3,130	2,260
22	8,040	20,000	14,400	19,500	14,700	9,360	7,500	10,000	34,700	7,870	3,140	2,200
23	7,180	20,700	13,100	18,200	16,600	9,010	7,480	12,000	35,300	7,830	3,230	2,150
24	6,490	22,900	13,200	16,700	18,100	8,840	7,570	13,000	29,000	7,650	3,520	2,110
25	5,970	24,300	16,000	15,400	18,600	8,780	8,050	11,900	21,200	8,920	3,530	2,080
26	5,670	24,900	19,100	14,400	17,100	8,670	9,140	11,300	17,000	8,030	3,790	2,040
27	5,470	24,500	22,200	13,700	15,100	8,740	9,960	15,800	14,500	7,310	4,170	2,010
28	5,530	27,200	25,000	13,100	13,800	10,700	10,100	30,200	12,800	6,770	5,030	1,980
29	6,180	30,400	26,400	12,700	12,900	13,700	9,950	39,700	11,600	6,160	6,500	1,940
30	6,960	31,000	24,500	12,500	---	15,100	9,460	44,400	10,700	5,640	6,370	1,890
31	7,210	---	20,600	11,900	---	15,800	---	43,600	---	5,660	5,930	---
TOTAL	230,950	394,160	600,700	1,208,900	471,500	426,630	342,050	474,390	753,200	276,820	134,910	85,990
MEAN	7,450	13,140	19,380	39,000	16,260	13,760	11,400	15,300	25,110	8,930	4,352	2,866
MAX	13,900	31,000	30,300	102,000	21,400	23,100	20,100	44,400	41,900	14,400	6,500	5,670
MIN	4,710	5,170	13,100	11,900	11,100	8,670	7,480	7,360	10,700	5,640	3,030	1,890
CFSM	0.67	1.18	1.74	3.51	1.46	1.24	1.02	1.38	2.26	0.80	0.39	0.26
IN.	0.77	1.32	2.01	4.04	1.58	1.43	1.14	1.59	2.52	0.93	0.45	0.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2004, BY WATER YEAR (WY)

MEAN	3,556	6,743	11,360	17,290	18,210	22,320	21,880	18,270	11,700	7,667	4,786	3,572
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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1928 - 2004	
ANNUAL TOTAL	5,958,390		5,400,200		12,260	
ANNUAL MEAN	16,320		14,750		22,760	
HIGHEST ANNUAL MEAN					2,138	
LOWEST ANNUAL MEAN					182,000	
HIGHEST DAILY MEAN	54,200	May 18	102,000	Jan 11	182,000	Jan 22, 1937
LOWEST DAILY MEAN	3,120	Aug 29	1,890	Sep 30	573	Oct 1, 1941
ANNUAL SEVEN-DAY MINIMUM	3,360	Aug 25	2,010	Sep 24	598	Sep 26, 1941
MAXIMUM PEAK FLOW			103,000	Jan 11	183,000	Jan 22, 1937
MAXIMUM PEAK STAGE			25.11	Jan 11	28.30	Jan 22, 1937
ANNUAL RUNOFF (CFSM)	1.47		1.33		1.10	
ANNUAL RUNOFF (INCHES)	19.92		18.06		14.97	
10 PERCENT EXCEEDS	30,600		28,200		30,000	
50 PERCENT EXCEEDS	12,900		11,300		6,680	
90 PERCENT EXCEEDS	5,510		3,560		1,540	



03374100 WHITE RIVER AT HAZLETON, IN—Continued

[(National Water-Quality Assessment Program), White River Basin, Miami River Basin Study Unit]

LOCATION.--Lat 38°29'23", long 87°33'00", in SE¼NW¼ sec 29, T.1 N., R. 10 W., Gibson County, Hydrologic Unit 05120202, (PATOKA, IN quadrangle), on county road bridge 18.7 mi upstream from mouth, 26.8 mi downstream from Petersburg.

DRAINAGE AREA.--11,305 mi².

PERIOD OF RECORD.--

CHEMICAL ANALYSES: February 1973 to September 1986, October 2001 to current year.

WATER TEMPERATURE: October 1973 to September 1981, October 2001 to current year.

SEDIMENT DISCHARGE: October 1973 to September 1983.

SEDIMENT DISCHARGE: October 1975 to September 1976.
WATER DISCHARGE: October 1927 to September 1938.

REMARKS.--Water discharge obtained from station White River at Petersburg (See station 03374000).

WATER-QUALITY RECORDS

The 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 2003 TO SEPTEMBER 2004
DAILY MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	7.5	6.7	---	7.2	7.8	---	---	---	---	---	---
2	7.7	7.5	6.7	---	7.2	7.9	---	---	---	---	---	---
3	7.8	7.4	6.7	---	7.3	7.9	---	---	---	---	---	---
4	7.9	7.4	6.7	---	7.3	7.8	---	---	---	---	---	---
5	7.8	7.4	6.7	---	7.4	7.6	---	---	---	---	---	---
6	7.9	7.4	6.7	---	7.4	7.6	---	---	---	---	---	---
7	7.8	7.4	6.7	---	7.5	7.7	---	---	---	---	---	---
8	6.9	7.4	6.8	6.7	7.5	7.7	---	---	---	---	---	---
9	6.9	7.4	6.8	6.7	7.6	7.6	---	---	---	---	---	---
10	7.0	7.4	6.9	6.8	7.6	---	---	---	---	---	---	---
11	7.1	7.3	6.8	6.8	7.7	---	---	---	---	---	---	---
12	7.2	7.3	6.8	6.8	7.7	---	---	---	---	---	---	---
13	7.3	7.3	6.8	6.8	7.7	---	---	---	---	---	---	---
14	7.3	7.2	6.8	6.8	7.6	---	---	---	---	---	---	---
15	7.3	7.1	6.8	7.0	7.6	---	---	---	---	---	---	---
16	7.4	7.0	6.9	7.0	7.7	---	---	---	---	---	---	---
17	7.4	6.9	7.2	7.0	7.7	---	---	---	---	---	---	---
18	7.2	---	7.2	7.1	7.7	---	---	---	---	---	---	---
19	7.1	---	7.3	7.1	7.7	---	---	---	---	---	---	---
20	7.2	7.0	7.3	7.1	7.7	---	---	---	---	---	---	---
21	7.3	6.8	7.3	7.2	7.7	---	---	---	---	---	---	---
22	7.3	6.7	7.3	7.2	7.8	---	---	---	---	---	---	---
23	7.2	6.8	7.4	7.2	7.8	---	---	---	---	---	---	---
24	7.2	6.8	7.4	7.3	7.8	---	---	---	---	---	---	---
25	7.4	6.8	7.4	7.3	7.8	---	---	---	---	---	---	---
26	7.4	6.8	7.4	7.4	7.8	---	---	---	---	---	---	---
27	7.4	6.7	---	7.4	7.8	---	---	---	---	---	---	---
28	7.4	6.8	---	7.4	7.8	---	---	---	---	---	---	---
29	7.5	6.7	---	7.0	7.7	---	---	---	---	---	---	---
30	7.5	6.8	---	7.1	---	---	---	---	---	---	---	---
31	7.6	---	---	7.1	---	---	---	---	---	---	---	---

03374100 WHITE RIVER AT HAZLETON, IN—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	11.0	---	13.9	11.7	10.1	e8.8	---	7.3	---	---
2	---	---	11.4	---	13.7	11.5	10.5	---	---	7.1	---	---
3	---	---	11.7	---	13.5	11.2	10.5	---	---	7.1	---	---
4	---	---	11.6	---	13.5	10.7	10.3	---	---	6.9	---	---
5	---	---	11.7	---	13.6	10.1	10.7	---	---	6.7	---	---
6	---	---	11.7	---	13.6	10.1	e10.8	---	---	6.6	---	---
7	---	9.4	11.7	---	13.4	10.2	---	---	---	7.4	---	---
8	9.9	10.1	11.8	---	13.5	10.2	---	---	---	6.5	---	---
9	10	10.8	11.6	---	13.4	10.1	12.0	---	---	7.1	---	---
10	10.2	11.2	11.4	---	13.7	10.3	12.2	---	---	7.0	---	12.6
11	10.9	10.7	11.5	---	13.8	10.2	12.2	---	---	---	---	12.1
12	11.1	10.1	11.6	---	13.7	10.5	12.2	---	---	---	---	10
13	11.6	10.0	11.8	---	13.6	11.0	12.0	---	---	---	---	9.0
14	10.4	e9.8	11.9	---	13.5	11.3	13.1	---	---	---	---	7.3
15	10.3	---	12.2	---	13.6	11.7	14.7	---	---	---	---	6.7
16	11.3	---	12.3	---	13.6	11.8	15.4	---	---	---	---	6.3
17	e10.6	e10.2	11.4	---	13.6	12.0	15.5	---	---	---	---	6.6
18	---	---	10.5	---	13.5	12.4	15.0	---	---	---	---	6.4
19	---	---	10.5	---	13.2	13.0	13.1	---	---	6.7	---	6.6
20	---	9.3	10.6	---	12.8	12.6	11.2	---	---	6.4	---	6.6
21	---	---	10.7	---	12.7	12.6	9.9	---	---	---	---	6.8
22	9.2	9.2	10.7	---	12.7	13.7	8.5	---	---	---	---	6.6
23	9.1	9.1	10.6	---	12.7	14.2	8.3	---	---	---	---	6.1
24	9.6	9.2	10.4	---	12.6	14.4	8.7	---	---	---	---	4.8
25	9.6	9.4	10.2	---	12.6	14.5	9.4	---	---	---	---	4.2
26	9.7	9.7	10.0	---	12.4	13.7	10.1	---	---	---	---	4.5
27	10.3	10.0	---	---	12.0	13.0	10.6	---	---	---	---	---
28	10.2	10.4	---	---	11.9	13.2	10.6	---	---	---	---	---
29	10.3	10.8	---	13.3	11.8	10.4	10.3	---	---	---	---	---
30	10.6	10.9	---	13.6	---	9.2	9.7	---	7.3	---	---	---
31	---	---	---	13.8	---	9.1	---	---	---	---	---	---

e Estimated

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.1	14.8	7.4	---	0.5	8.3	13.6	19.4	22.1	25.9	---	---
2	16.5	15.1	6.6	---	1.2	9.4	13.1	18.2	22.1	26.2	---	---
3	15.9	15.8	6.0	---	1.6	9.8	12.7	17.6	22.2	26.6	---	---
4	15.8	16.2	5.8	---	1.6	e10.0	12.5	16.9	22.4	26.9	---	---
5	16.1	16.3	5.5	---	1.8	10.6	12.5	17.0	22.4	27.0	---	---
6	16.5	15.3	5.5	---	2.0	11.0	e12.8	17.4	22.5	26.7	---	---
7	17.2	14.0	5.8	---	2.0	11.0	---	17.8	23.1	26.7	---	---
8	17.9	12.7	6.1	2.8	2.0	10.6	---	18.6	23.9	26.9	---	---
9	18.0	11.6	6.7	2.2	2.2	10.5	14.8	19.9	24.6	27.4	---	---
10	18.4	11.6	7.4	1.5	2.4	10.0	15.3	20.9	25.2	28.0	---	25.5
11	19.1	12.5	6.9	1.1	2.4	e10.0	15.2	21.8	26.0	28.6	---	26.1
12	19.5	13.5	6.3	1.4	2.6	9.4	14.7	22.9	26.3	28.5	---	26.2
13	19.0	12.4	5.8	1.7	2.7	9.1	13.3	23.3	25.6	27.6	---	26.4
14	18.4	11.0	5.3	2.0	2.9	9.4	12.8	23.2	25.4	27.4	---	26.8
15	17.0	10.1	4.9	2.5	3.0	9.6	13.9	22.2	26.3	27.2	---	26.8
16	16.9	10.0	4.8	2.8	3.0	9.8	15.4	21.5	26.0	27.4	---	26.6
17	16.9	10.6	4.4	3.6	3.3	9.5	17.0	21.5	26.1	27.1	---	26.4
18	16.0	---	4.3	4.2	3.8	10.0	17.9	22.5	26.1	27.3	---	25.5
19	15.8	---	4.0	3.8	4.5	10.5	18.1	23.2	25.9	27.3	---	25.0
20	16.1	11.8	3.6	3.4	5.3	10.9	18.4	e23.9	25.4	27.2	---	24.6
21	16.4	11.8	3.4	3.3	5.3	10.2	18.8	---	25.3	---	---	24.7
22	16.3	12.1	3.6	3.1	5.5	9.7	19.2	---	25.2	---	---	25.0
23	16.0	12.7	4.3	2.5	6.0	9.9	18.8	---	25.2	---	---	25.3
24	15.6	11.9	4.3	2.4	6.4	10.5	18.4	---	25.3	---	---	25.4
25	15.4	10.6	4.1	2.2	6.3	11.9	18.7	---	25.2	---	---	25.5
26	15.0	10.0	4.3	2.0	6.2	13.0	18.8	24.5	24.9	---	---	24.9
27	14.4	9.6	---	1.9	6.3	13.9	18.6	23.2	24.7	---	---	e23.9
28	13.8	8.8	---	1.6	6.9	15.0	18.2	22.5	24.9	---	---	---
29	13.0	7.9	---	1.5	7.5	15.3	18.5	22.0	25.2	---	---	---
30	13.0	7.6	---	0.9	---	14.9	19.1	22.0	25.6	---	---	---
31	14.0	---	---	0.5	---	14.2	---	22.3	---	---	---	---

e Estimated

03374100 WHITE RIVER AT HAZLETON, IN—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	489	646	390	---	529	553	---	466	287	533	---	---
2	481	592	389	---	545	576	---	470	319	534	---	---
3	466	586	394	---	554	585	---	457	299	537	---	---
4	482	611	397	---	532	560	---	428	314	540	---	---
5	507	630	403	---	501	501	---	402	357	547	---	---
6	531	639	419	---	490	478	---	360	371	567	---	---
7	550	654	437	---	461	438	---	356	386	586	---	---
8	572	651	459	---	464	420	---	357	416	573	---	---
9	606	643	482	---	455	456	518	347	448	593	---	---
10	624	647	507	---	447	---	524	358	475	567	---	569
11	631	658	524	---	431	---	530	382	489	537	---	572
12	640	663	537	---	409	395	535	406	500	512	---	602
13	647	659	523	---	394	409	545	431	471	411	---	629
14	649	640	516	---	399	426	552	460	429	399	---	634
15	662	580	531	---	411	446	555	489	511	397	---	643
16	672	577	536	---	430	464	553	513	454	456	---	631
17	686	539	529	---	450	484	534	536	420	447	---	664
18	655	---	519	---	460	496	512	565	395	464	---	678
19	564	---	511	---	472	505	501	568	375	468	---	694
20	570	486	514	---	493	507	484	e590	350	471	---	695
21	581	---	513	---	509	506	480	---	345	---	---	698
22	592	405	508	---	506	515	505	---	354	---	---	714
23	558	418	522	---	484	518	527	---	391	---	---	681
24	565	407	542	---	472	485	544	---	421	---	---	670
25	579	420	550	---	---	506	560	---	451	---	---	682
26	592	400	481	---	---	---	553	492	481	---	---	701
27	609	389	---	---	472	---	544	447	501	---	---	e704
28	627	409	---	---	490	---	529	392	510	---	---	---
29	646	393	---	524	522	---	486	316	528	---	---	---
30	653	387	---	530	---	---	459	283	534	---	---	---
31	657	---	---	526	---	---	---	277	---	---	---	---

e Estimated

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfiltered, μ S/cm 25 deg C (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Alkalinity, wat flt fxd end field, mg/L as CaCO ₃ (39036)	Alkalinity, wat flt inc tit field, mg/L as CaCO ₃ (39086)	Bicarbonate, wat flt incrm. titr., mg/L (00453)	Carbonate, wat flt incrm. titr., mg/L (00452)	Chloride, water, fltrd, mg/L (00940)
NOV 19...	1100	11,100	748	11.2	8.1	491	15.0	11.7	160	164	196	<1	30.1
JAN 28...	1500	12,800	767	13.6	8.1	527	1.0	1.5	180	178	215	1	25.9
MAR 10...	1420	18,300	766	10.6	8.1	475	11.0	10.0	150	141	E172	<1	29.7
APR 21...	1320	7,600	740	10.1	8.2	490	24.0	18.7	150	151	182	<1	27.9
MAY 25...	1230	11,700	742	6.5	7.9	497	27.0	25.5	150	152	182	2	29.9
JUN 29...	1430	11,500	750	9.4	7.8	533	30.0	25.4	190	187	225	1	26.4
JUL 21...	1230	8,850	741	8.3	8.2	419	31.0	26.8	140	140	167	2	20.4
SEP 09...	1130	3,100	753	11.9	8.3	569	32.0	24.2	140	141	140	<1	46.5

03374100 WHITE RIVER AT HAZLETON, IN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Sulfate water, fltrd, mg/L (00945)	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)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	2,6-Di- ethyl- aniline water fltrd 0.7µ GF µg/L (82660)	CIAT, water, fltrd, µg/L (04040)
NOV 19...	40.7	<0.04	0.97	<0.008	0.34	0.101	0.24	2.3	<0.1	2.2	5.6	<0.006	E0.009
JAN 28...	42.0	<.04	1.94	.123	.12	.042	.13	.8	<.1	0.8	2.7	<.006	E.027
MAR 10...	36.6	<.04	2.26	.065	.29	.022	.05	2.5	.3	2.2	3.6	<.006	E.021
APR 21...	39.9	<.04	.77	.025	.64	<.006	.14	5.3	<.1	5.3	3.8	<.006	E.025
MAY 25...	36.7	<.04	2.71	.045	.42	.071	.24	4.2	<.1	4.2	4.4	<.006	E.345
JUN 29...	37.4	<.04	1.86	.010	.50	.047	.24	3.8	.2	3.6	3.2	<.006	E.191
JUL 21...	35.9	<.04	.77	.009	.70	.031	.23	5.2	.1	5.1	3.4	<.006	E.047
SEP 09...	66.8	<.04	<.06	<.008	1.29	<.006	.20	10.8	<.1	10.8	3.2	<.006	E.021

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Aceto- chlor, water, fltrd, µg/L (49260)	Ala- chlor, water, fltrd, µg/L (46342)	alpha- HCH, water, fltrd, µg/L (34253)	Atra- zine, water, fltrd, µg/L (39632)	Azin- phos- methyl, water, fltrd 0.7µm GF µg/L (82686)	Ben- flur- alin, water, fltrd 0.7µ GF µg/L (82673)	Butyl- ate, water, fltrd, µg/L (04028)	Car- baryl, water, fltrd 0.7µm GF µg/L (82680)	Carbo- furan, water, fltrd 0.7µm GF µg/L (82674)	Chlor- pyrifos water, fltrd, µg/L (38933)	cis- Per- methrin water fltrd 0.7µm GF µg/L (82687)	Cyana- zine, water, fltrd, µg/L (04041)	DCPA, water fltrd 0.7µm GF µg/L (82682)
NOV 19...	0.009	<0.005	<0.005	0.18	<0.050	<0.010	<0.004	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003
JAN 28...	.007	<.005	<.005	.10	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003
MAR 10...	.008	<.005	<.005	.09	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003
APR 21...	.052	<.005	<.005	.87	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003
MAY 25...	.869	.041	<.005	6.23	<.050	<.010	<.004	<.041	<.020	<.010	<.006	<.018	<.003
JUN 29...	.049	.007	<.005	1.07	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003
JUL 21...	.036	<.005	<.005	.39	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003
SEP 09...	E.006	<.005	<.005	.20	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Desulf- inyl fipron- nil, water, fltrd, µg/L (62170)	Diazi- non, water, fltrd, µg/L (39572)	Diel- drin, water, fltrd, µg/L (39381)	Disul- foton, water, fltrd 0.7µm GF µg/L (82677)	EPTC, water, fltrd 0.7µm GF µg/L (82668)	Ethal- flur- alin, water, fltrd 0.7µm GF µg/L (82663)	Etho- prop, water, fltrd 0.7µm GF µg/L (82672)	Desulf- inyl- fipron- nil amide, wat flt µg/L (62169)	Fipron- il sulfide water, fltrd, µg/L (62167)	Fipron- il sulfone water, fltrd, µg/L (62168)	Fipron- il, water, fltrd, µg/L (62166)	Fonofos water, fltrd, µg/L (04095)	Lindane water, fltrd, µg/L (39341)
NOV 19...	<0.012	E0.003	<0.009	<0.02	<0.004	<0.009	<0.005	<0.029	<0.013	<0.024	<0.016	<0.003	<0.004
JAN 28...	<0.012	.007	<0.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016	<.003	<.004
MAR 10...	<0.012	.006	<0.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016	<.003	<.004
APR 21...	<0.012	<.005	<0.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016	<.003	<.004
MAY 25...	E.003	.006	<0.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016	<.003	<.004
JUN 29...	<0.012	<.005	<0.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016	<.003	<.004
JUL 21...	<0.012	<.005	<0.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016	<.003	<.004
SEP 09...	<0.012	E.005	<.020	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016	<.003	<.004

03374100 WHITE RIVER AT HAZLETON, IN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Linuron water fltrd 0.7µm GF µg/L (82666)	Malathion, water, fltrd, µg/L (39532)	Methyl para- thion, water, fltrd 0.7µm GF µg/L (82667)	Metola- chlor, water, fltrd, µg/L (39415)	Metri- buzin, water, fltrd, µg/L (82630)	Moli- nate, water, fltrd 0.7µm GF µg/L (82671)	Naprop- amide, water, fltrd 0.7µm GF µg/L (82684)	p,p'- DDE, water, fltrd, µg/L (34653)	Para- thion, water, fltrd, µg/L (39542)	Peb- ulate, water, fltrd 0.7µm GF µg/L (82669)	Pendi- meth- alin, water, fltrd 0.7µm GF µg/L (82683)	Phorate water fltrd 0.7µm GF µg/L (82664)	Prome- ton, water, fltrd, µg/L (04037)
NOV 19...	<0.035	<0.027	<0.015	0.046	0.020	<0.003	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	0.01
JAN 28...	<0.035	<0.027	<0.015	.023	E.005	<0.003	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	.01
MAR 10...	<0.035	<0.027	<0.015	.029	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	.01
APR 21...	<0.035	<0.027	<0.015	.036	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	.03
MAY 25...	<0.035	<0.027	<0.015	.823	<0.015	<0.003	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	.05
JUN 29...	<0.035	<0.027	<0.015	.377	.006	<0.003	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	.02
JUL 21...	<0.035	<0.027	<0.015	.125	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	.04
SEP 09...	<0.035	<0.027	<0.015	.039	<0.006	<0.003	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	.06

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Propy- zamide, water, fltrd 0.7µm GF µg/L (82676)	Propan- chlor, water, fltrd, µg/L (04024)	Propanil, water, fltrd 0.7µm GF µg/L (82679)	Propanil, water, fltrd 0.7µm GF µg/L (82685)	Sima- zine, water, fltrd, µg/L (04035)	Tebu- thiuron water fltrd 0.7µm GF µg/L (82670)	Terba- cil, water, fltrd 0.7µm GF µg/L (82665)	Terbu- fos, water, fltrd 0.7µm GF µg/L (82675)	Thio- bencarb water fltrd 0.7µm GF µg/L (82681)	Tri- allate, water, fltrd 0.7µm GF µg/L (82678)	Tri- flur- alin, water, fltrd 0.7µm GF µg/L (82661)	Sus- pended sediment concentration mg/L (80154)
NOV 19...	<0.004	<0.025	<0.011	<0.02	1.56	<0.02	<0.034	<0.02	<0.010	<0.002	<0.009	98
JAN 28...	<0.004	<0.025	<0.011	<0.02	.21	<0.02	<0.034	<0.02	<0.010	<0.002	<0.009	48
MAR 10...	<0.004	<0.025	<0.011	<0.02	.15	<0.02	<0.034	<0.02	<0.010	<0.002	<0.009	138
APR 21...	<0.004	<0.025	<0.011	<0.02	.14	<0.02	<0.034	<0.02	<0.010	<0.002	<0.009	68
MAY 25...	<0.004	<0.025	<0.011	<0.02	.94	E.01	<0.034	<0.02	<0.010	<0.002	<0.009	173
JUN 29...	<0.004	<0.025	<0.011	<0.02	.11	<0.02	<0.034	<0.02	<0.010	<0.002	<0.009	164
JUL 21...	<0.004	<0.025	<0.011	<0.02	.06	<0.02	<0.034	<0.02	<0.010	<0.002	<0.009	160
SEP 09...	<0.004	<0.025	<0.011	.03	.03	M	<0.034	<0.02	<0.010	<0.002	<0.009	72

LOCATION.--Lat 38°26'31", long 86°42'51", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ 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.

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).

REMARKS.--Flow regulated by U.S. Army Corps of Engineers from Patoka Lake since February 1978.

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 FOR CURRENT YEAR.--Maximum gage height, 9.03 ft, Jan. 2; minimum gage height, 3.24 ft, Nov. 7.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.80	5.29	5.86	7.42	8.26	3.61	4.38	4.09	3.50	5.59	4.62	5.71
2	4.80	5.29	5.85	4.85	7.65	3.60	4.37	3.65	3.48	5.04	4.61	5.70
3	4.80	5.29	5.85	4.41	7.46	4.64	4.36	3.55	3.47	5.04	4.61	5.70
4	4.80	5.29	5.85	7.27	5.69	3.81	4.35	3.53	3.47	5.06	4.61	5.70
5	4.81	5.29	5.86	4.46	5.76	3.72	4.35	4.38	4.66	5.06	5.25	5.69
6	4.80	5.30	5.85	4.37	5.54	3.66	4.35	3.52	5.17	5.09	5.76	5.69
7	4.80	5.87	5.84	4.35	5.43	3.65	4.35	3.51	5.17	5.06	5.75	5.69
8	4.81	5.86	5.83	5.23	7.39	3.64	4.35	3.50	5.18	5.57	5.75	5.69
9	4.81	5.85	5.83	7.50	7.30	4.36	4.34	4.36	5.18	5.57	5.75	5.69
10	4.82	5.83	5.86	7.56	8.38	4.35	4.34	4.35	5.19	5.61	5.75	5.68
11	4.83	5.84	5.69	8.43	8.29	4.35	4.34	4.35	5.19	5.65	5.75	5.68
12	4.85	5.87	5.44	8.37	8.35	4.35	4.34	4.81	5.20	4.55	5.75	5.68
13	4.86	5.86	6.05	8.50	8.35	4.35	4.39	4.81	5.20	4.82	5.74	5.68
14	4.91	5.87	5.60	8.47	8.27	4.35	4.36	4.88	5.19	4.66	5.74	5.67
15	4.90	5.86	6.24	8.41	8.30	4.35	4.35	4.88	5.18	4.64	5.73	5.67
16	4.90	5.85	6.50	8.37	8.24	4.36	4.35	4.82	5.17	5.28	5.73	4.50
17	4.90	5.85	6.47	8.53	8.19	4.35	4.34	4.80	5.21	5.27	5.73	4.50
18	4.90	5.89	6.49	5.64	8.25	4.35	4.33	4.80	5.19	5.27	5.73	4.50
19	4.89	5.87	6.47	5.51	8.20	4.35	3.47	4.79	5.17	5.27	5.73	4.50
20	4.90	5.84	6.46	7.44	8.29	4.36	3.47	4.79	5.16	5.26	5.76	4.49
21	5.32	5.83	6.45	7.37	8.21	4.35	3.47	4.79	5.15	5.37	5.75	4.50
22	4.36	5.81	6.45	8.33	8.14	4.34	3.52	4.79	5.15	5.39	5.74	3.70
23	4.36	5.87	7.43	7.39	8.25	4.34	3.52	4.78	5.14	5.38	5.74	3.69
24	4.36	5.87	7.32	5.59	5.34	4.34	3.49	4.78	5.13	5.37	5.76	3.69
25	4.38	5.84	7.24	5.48	5.22	4.34	3.56	4.96	5.59	5.37	5.76	3.69
26	4.38	5.82	7.40	7.47	3.62	4.34	3.50	5.30	5.59	5.36	4.61	3.69
27	4.37	5.97	7.32	8.30	3.60	4.34	3.48	5.80	5.60	5.90	4.59	3.69
28	5.29	5.92	7.35	8.25	3.60	4.34	3.47	3.88	5.60	5.89	4.60	3.70
29	5.28	5.88	7.32	8.30	3.59	4.35	3.46	3.48	5.60	5.88	4.59	3.70
30	5.30	5.86	7.21	8.38	---	4.59	3.66	4.59	5.59	4.64	5.72	3.70
31	5.29	---	7.42	8.31	---	4.42	---	3.57	---	4.63	5.71	---
MEAN	4.83	5.75	6.41	7.04	6.94	4.21	4.01	4.42	5.02	5.24	5.43	4.85
MAX	5.32	5.97	7.43	8.53	8.38	4.64	4.39	5.80	5.60	5.90	5.76	5.71
MIN	4.36	5.29	5.44	4.35	3.59	3.60	3.46	3.48	3.47	4.55	4.59	3.69

WTR YR 2004 MEAN 5.34 MAX 8.53 MIN 3.46

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, 29.1°C, July 3, minimum, 1.8°C, Feb. 3, and 4.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	20.7	19.9	20.3	17.0	16.7	16.9	11.2	10.7	10.9	5.7	5.4	5.5
2	20.2	19.6	19.9	17.4	16.7	17.0	10.8	10.5	10.6	6.9	5.7	6.3
3	19.9	19.3	19.6	17.9	16.9	17.2	10.5	10.1	10.3	7.1	6.5	6.8
4	19.6	19.0	19.3	17.8	16.9	17.4	10.1	10.0	10.0	8.1	6.9	7.4
5	19.7	18.8	19.2	17.6	16.7	17.2	10.0	9.6	9.8	7.5	6.0	6.4
6	19.8	18.9	19.2	16.7	16.4	16.6	9.6	9.3	9.5	6.0	5.4	5.6
7	20.1	19.1	19.6	16.4	15.9	16.1	9.7	9.2	9.4	5.5	5.1	5.3
8	20.4	19.3	20.0	15.9	15.6	15.8	9.4	9.2	9.3	5.1	5.0	5.1
9	20.6	20.0	20.3	15.6	15.2	15.4	9.4	9.3	9.3	5.1	5.0	5.0
10	20.8	20.1	20.4	15.5	15.0	15.2	9.4	9.1	9.3	5.1	4.8	4.9
11	20.9	20.3	20.6	15.2	15.1	15.1	9.1	8.7	9.0	4.8	4.6	4.7
12	20.7	19.6	20.2	15.3	14.7	15.1	8.7	8.5	8.6	4.6	4.5	4.6
13	20.6	19.3	20.0	14.7	14.3	14.5	8.5	7.8	8.2	4.6	4.5	4.5
14	20.4	19.0	19.8	14.3	14.0	14.1	7.9	7.6	7.7	4.6	4.3	4.5
15	19.4	18.7	19.0	14.0	13.7	13.8	7.6	7.3	7.4	4.5	4.3	4.4
16	19.3	18.6	18.9	13.8	13.6	13.7	7.4	7.1	7.3	4.4	4.2	4.3
17	18.8	18.4	18.6	14.0	13.6	13.8	7.1	6.9	7.0	4.3	4.1	4.2
18	18.9	18.3	18.5	14.1	13.9	14.0	6.9	6.6	6.8	4.3	4.1	4.2
19	19.0	18.1	18.4	14.0	13.5	13.7	6.6	6.3	6.5	4.2	3.9	4.0
20	19.3	18.2	18.7	14.0	13.5	13.7	6.3	6.0	6.2	4.1	3.8	3.9
21	18.7	18.1	18.3	14.0	13.5	13.7	6.1	5.8	6.0	3.9	3.5	3.6
22	18.5	17.8	18.1	14.1	13.5	13.7	6.2	5.9	6.0	3.6	3.4	3.5
23	18.5	17.7	18.0	14.0	13.8	13.9	6.2	5.9	6.1	3.4	3.1	3.3
24	18.3	17.5	17.9	13.8	12.9	13.2	5.9	5.7	5.8	3.5	3.2	3.3
25	18.2	17.6	17.8	12.9	12.7	12.8	5.7	5.4	5.6	3.2	2.6	2.8
26	17.6	17.1	17.4	12.7	12.5	12.6	5.7	5.4	5.5	2.6	2.6	2.6
27	17.4	16.8	17.1	12.5	12.3	12.5	5.6	5.3	5.4	2.7	2.4	2.6
28	16.9	16.7	16.8	12.4	11.7	12.0	5.7	5.4	5.6	2.4	2.2	2.3
29	16.7	16.5	16.6	11.8	11.4	11.6	5.7	5.5	5.6	2.3	2.1	2.2
30	17.1	16.4	16.7	11.6	11.2	11.4	5.6	5.4	5.5	2.2	2.1	2.1
31	17.2	16.6	16.8	---	---	---	5.6	5.3	5.5	2.1	1.9	2.0
MONTH	20.9	16.4	18.8	17.9	11.2	14.5	11.2	5.3	7.6	8.1	1.9	4.3

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	2.2	2.0	2.1	6.5	5.4	5.8	11.3	10.1	10.5	18.3	16.4	17.3
2	2.1	1.9	1.9	7.1	5.5	6.1	10.9	9.9	10.3	16.9	15.2	16.0
3	1.9	1.8	1.8	7.5	5.5	6.0	11.2	10.0	10.5	17.4	15.9	16.5
4	2.1	1.8	2.0	9.6	7.4	8.3	11.2	9.8	10.4	18.2	16.0	16.9
5	2.3	2.1	2.2	9.2	8.3	8.8	12.7	10.2	11.2	18.3	16.6	17.4
6	2.3	2.3	2.3	8.3	7.3	7.9	13.4	10.8	12.3	19.6	17.6	18.5
7	2.4	2.2	2.3	8.6	7.2	7.6	13.7	12.3	13.0	20.0	18.2	19.0
8	2.3	2.2	2.2	8.2	7.1	7.5	13.3	10.9	12.4	21.4	18.5	20.0
9	2.4	2.2	2.3	7.9	7.1	7.4	13.5	11.3	12.3	21.6	19.2	20.3
10	2.5	2.3	2.4	8.7	7.2	7.9	13.9	12.2	13.3	21.9	19.4	20.8
11	2.7	2.4	2.5	8.6	7.4	7.9	13.9	13.3	13.5	23.4	20.3	22.0
12	2.8	2.6	2.7	8.2	7.3	7.6	13.6	13.0	13.3	24.4	22.4	23.4
13	2.8	2.7	2.8	8.6	7.3	7.9	13.0	11.8	12.5	23.9	23.1	23.5
14	2.9	2.7	2.8	8.5	7.7	8.1	13.1	11.4	12.1	24.1	20.7	23.3
15	3.0	2.8	2.9	9.4	7.7	8.4	14.5	11.9	13.1	21.0	19.2	20.3
16	3.1	2.8	3.0	8.7	8.1	8.4	15.3	13.1	14.1	22.1	20.9	21.5
17	3.3	3.0	3.1	8.8	8.1	8.3	16.2	14.1	15.1	22.7	21.5	22.0
18	3.4	3.1	3.3	9.6	8.1	8.6	17.4	15.1	16.1	22.7	21.4	22.0
19	3.7	3.3	3.5	9.9	8.1	8.9	16.9	15.7	16.2	23.0	21.4	22.3
20	3.7	3.6	3.6	9.8	8.8	9.5	17.6	15.7	16.6	23.1	22.0	22.6
21	3.6	3.4	3.4	9.0	8.4	8.6	17.2	16.6	16.8	23.5	22.3	22.9
22	3.7	3.3	3.5	9.4	8.3	8.7	16.8	16.4	16.6	23.9	22.3	23.2
23	3.9	3.5	3.7	9.5	8.5	9.0	17.3	16.1	16.5	24.8	23.0	24.0
24	4.0	3.8	3.9	10.1	9.0	9.5	17.3	15.9	16.6	24.9	23.7	24.1
25	4.2	3.8	4.0	10.8	9.5	10.0	18.3	16.3	17.1	24.9	23.1	24.3
26	4.9	3.8	4.2	11.0	10.0	10.5	17.9	15.7	16.6	24.4	20.0	23.3
27	5.4	3.8	4.5	11.6	10.0	10.8	17.4	15.3	16.1	24.8	20.0	23.0
28	5.9	4.0	4.9	13.6	11.2	12.4	17.7	15.1	16.3	24.1	20.3	22.1
29	6.4	5.1	5.6	13.1	11.3	12.2	18.4	16.1	17.2	25.2	22.6	23.9
30	---	---	---	13.0	11.4	12.5	19.1	16.9	17.9	24.8	22.7	24.3
31	---	---	---	11.5	10.0	10.6	---	---	---	24.2	20.1	22.5
MONTH	6.4	1.8	3.1	13.6	5.4	8.8	19.1	9.8	14.2	25.2	15.2	21.4
	JUNE			JULY			AUGUST			SEPTEMBER		
1	23.6	20.2	22.6	27.2	26.2	26.6	27.1	25.8	26.4	26.9	25.9	26.5
2	24.6	21.1	23.0	27.6	26.2	26.8	27.4	26.3	26.8	27.1	26.1	26.6
3	24.4	21.1	23.0	29.1	27.4	28.2	27.5	26.5	27.0	26.7	26.4	26.6
4	24.2	22.8	23.4	28.3	25.0	27.1	27.4	25.9	27.0	27.1	26.1	26.5
5	24.6	22.7	23.7	27.6	26.4	27.1	27.5	25.9	26.8	27.3	26.2	26.8
6	24.7	23.8	24.2	27.5	26.1	26.9	27.2	26.5	26.9	27.8	26.9	27.2
7	25.5	24.1	24.8	26.8	25.2	26.1	27.2	26.2	26.6	27.2	26.3	26.5
8	25.6	24.7	25.2	26.9	25.3	26.4	27.2	26.2	26.7	26.4	25.6	26.0
9	25.7	24.6	25.0	27.4	26.7	27.0	27.2	26.5	26.8	25.6	25.0	25.3
10	26.1	25.1	25.5	27.8	27.1	27.5	26.7	25.5	26.2	25.9	24.8	25.3
11	25.6	23.4	24.6	28.1	26.2	27.2	25.9	25.4	25.7	26.1	25.1	25.6
12	26.6	24.2	25.6	27.3	24.8	26.5	25.5	25.1	25.3	26.4	25.4	25.9
13	26.8	25.1	26.0	28.0	25.2	27.1	25.1	24.7	24.8	27.0	25.9	26.3
14	26.1	25.1	25.5	27.6	25.2	26.6	25.1	24.5	24.8	26.7	26.2	26.4
15	26.5	25.5	25.9	27.8	25.6	26.9	25.3	24.4	24.8	26.9	26.1	26.5
16	27.1	26.4	26.7	28.1	27.1	27.6	25.4	24.4	24.9	26.9	26.1	26.4
17	26.6	24.7	25.9	27.9	27.3	27.7	25.8	24.8	25.3	26.4	25.6	26.1
18	26.2	24.7	25.8	28.1	27.4	27.8	26.0	25.1	25.5	26.0	25.0	25.4
19	26.1	23.8	25.1	28.0	27.2	27.5	25.8	25.1	25.4	25.4	24.5	24.9
20	26.4	23.8	25.5	28.2	27.3	27.8	25.6	25.1	25.5	25.0	24.0	24.5
21	27.1	25.6	26.2	29.0	27.9	28.4	25.8	24.9	25.3	25.0	24.0	24.5
22	26.2	24.9	25.6	28.7	26.7	28.1	26.3	25.2	25.8	25.3	23.8	24.4
23	26.6	24.9	25.7	28.3	27.4	27.9	26.8	25.8	26.3	25.3	23.9	24.6
24	26.6	25.8	26.1	28.6	27.9	28.2	27.6	26.3	26.9	25.2	24.2	24.6
25	26.5	25.4	26.1	28.1	27.1	27.6	27.8	26.6	27.1	24.8	24.1	24.4
26	25.9	25.0	25.5	27.1	26.0	26.5	27.5	26.1	27.0	24.7	23.6	24.1
27	26.4	25.4	25.9	26.0	25.5	25.7	27.7	27.0	27.3	24.5	23.3	23.8
28	26.4	25.4	25.9	26.3	25.3	25.7	27.9	27.0	27.3	24.1	22.9	23.4
29	26.4	25.3	25.8	26.7	26.0	26.3	27.1	26.1	26.6	23.0	22.2	22.6
30	26.7	25.5	26.2	26.9	26.1	26.4	26.5	26.0	26.2	23.2	21.8	22.4
31	---	---	---	26.6	25.9	26.2	26.7	25.8	26.2	---	---	---
MONTH	27.1	20.2	25.2	29.1	24.8	27.1	27.9	24.4	26.2	27.8	21.8	25.3
YEAR	29.1	1.8	16.4									

03375500 PATOKA RIVER AT JASPER, IN

LOCATION.--Lat 38°24'49", long 86°52'36", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ 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.

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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

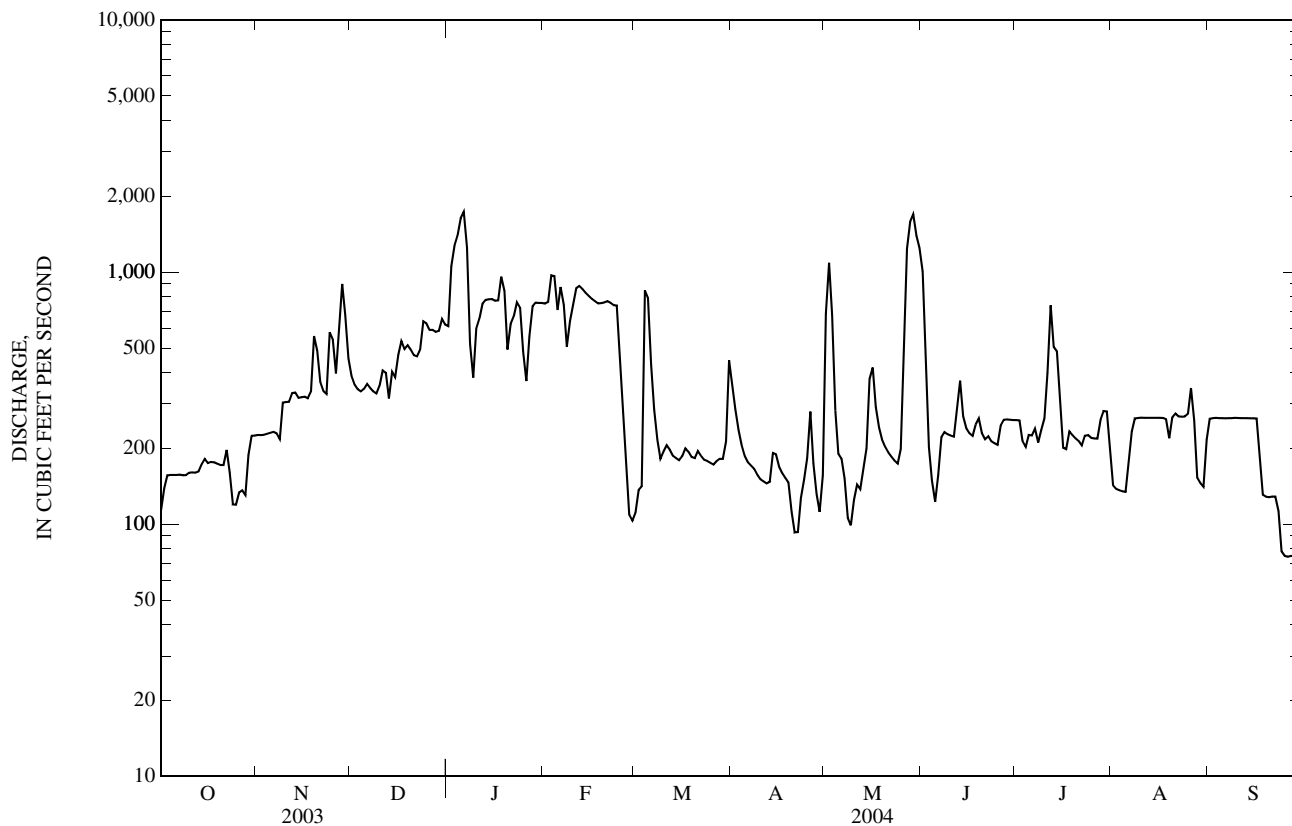
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	114	226	388	611	751	111	357	685	1,000	259	143	262
2	139	226	358	1,060	762	137	286	1,090	397	258	138	263
3	156	226	343	1,270	971	141	237	677	202	214	136	264
4	157	229	336	1,400	965	847	207	283	149	203	135	263
5	157	230	344	1,640	708	791	187	190	123	226	134	263
6	157	233	360	1,730	872	427	176	182	157	225	172	263
7	157	229	347	1,250	742	284	171	152	222	239	233	263
8	156	217	336	520	507	216	166	106	232	211	263	263
9	157	304	330	382	641	182	157	99	227	237	264	264
10	160	306	355	596	736	194	151	125	225	263	265	264
11	161	306	407	655	864	205	148	144	222	398	264	264
12	160	332	398	749	881	197	145	138	288	739	264	263
13	162	333	316	776	857	187	147	163	371	505	264	263
14	173	317	403	781	829	183	192	200	268	485	264	263
15	182	319	382	781	805	180	189	377	240	322	264	263
16	175	320	472	770	784	186	169	418	230	201	264	263
17	177	316	533	773	767	200	160	292	224	199	264	186
18	176	336	495	959	752	194	153	242	248	233	261	131
19	174	557	513	844	754	185	146	217	263	226	219	129
20	172	487	492	493	758	183	112	203	230	219	265	128
21	172	367	468	623	767	195	93	193	217	214	274	129
22	197	338	464	670	756	187	93	185	223	205	268	129
23	160	329	493	759	739	180	127	179	213	224	267	113
24	120	578	638	722	738	178	151	174	209	226	268	78
25	120	542	627	484	484	175	183	199	206	220	274	75
26	134	397	589	370	290	173	280	629	247	219	347	74
27	136	589	591	556	174	178	174	1,240	260	219	258	75
28	131	898	579	732	109	182	132	1,590	260	260	153	75
29	188	676	584	757	103	181	112	1,690	260	281	146	75
30	224	455	653	755	---	213	156	1,400	259	280	141	76
31	225	---	620	755	---	447	---	1,250	---	200	216	---
TOTAL	5,029	11,218	14,214	25,223	19,866	7,519	5,157	14,712	7,872	8,410	7,088	5,684
MEAN	162	374	459	814	685	243	172	475	262	271	229	189
MAX	225	898	653	1,730	971	847	357	1,690	1,000	739	347	264
MIN	114	217	316	370	103	111	93	99	123	199	134	74
CFSM	0.62	1.43	1.75	3.11	2.61	0.93	0.66	1.81	1.00	1.04	0.87	0.72
IN.	0.71	1.59	2.02	3.58	2.82	1.07	0.73	2.09	1.12	1.19	1.01	0.81

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2004, BY WATER YEAR (WY)

MEAN	103	230	432	633	666	756	590	429	208	125	103	92.7
MAX	494	800	1,506	2,742	1,898	2,543	1,574	2,034	1,044	787	530	484
(WY)	(1980)	(1975)	(1952)	(1950)	(1950)	(1964)	(1972)	(1996)	(1996)	(1958)	(1977)	(1979)
MIN	0.00	0.00	0.17	17.5	27.7	144	54.1	29.8	8.66	0.07	0.00	0.00
(WY)	(1949)	(1954)	(1954)	(1964)	(1964)	(1992)	(2001)	(2001)	(1953)	(1954)	(1952)	(1953)

03375500 PATOKA RIVER AT JASPER, IN—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1949 - 2004	
ANNUAL TOTAL	130,104		131,992		363	
ANNUAL MEAN	356		361		673	
HIGHEST ANNUAL MEAN					63.6	
LOWEST ANNUAL MEAN					1950	
HIGHEST DAILY MEAN	1,730	Feb 24	1,730	Jan 6	13,500	Mar 11, 1964
LOWEST DAILY MEAN	68	Jul 7	74	Sep 26	0.00	Oct 1, 1948
ANNUAL SEVEN-DAY MINIMUM	70	Aug 23	75	Sep 24	0.00	Oct 1, 1948
MAXIMUM PEAK FLOW			1,770	Jan 6	14,100	Mar 11, 1964
MAXIMUM PEAK STAGE			14.55	Jan 6	21.20	Mar 11, 1964
ANNUAL RUNOFF (CFSM)	1.36		1.38		1.38	
ANNUAL RUNOFF (INCHES)	18.47		18.74		18.81	
10 PERCENT EXCEEDS	821		758		1,040	
50 PERCENT EXCEEDS	226		260		139	
90 PERCENT EXCEEDS	76		138		8.1	



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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

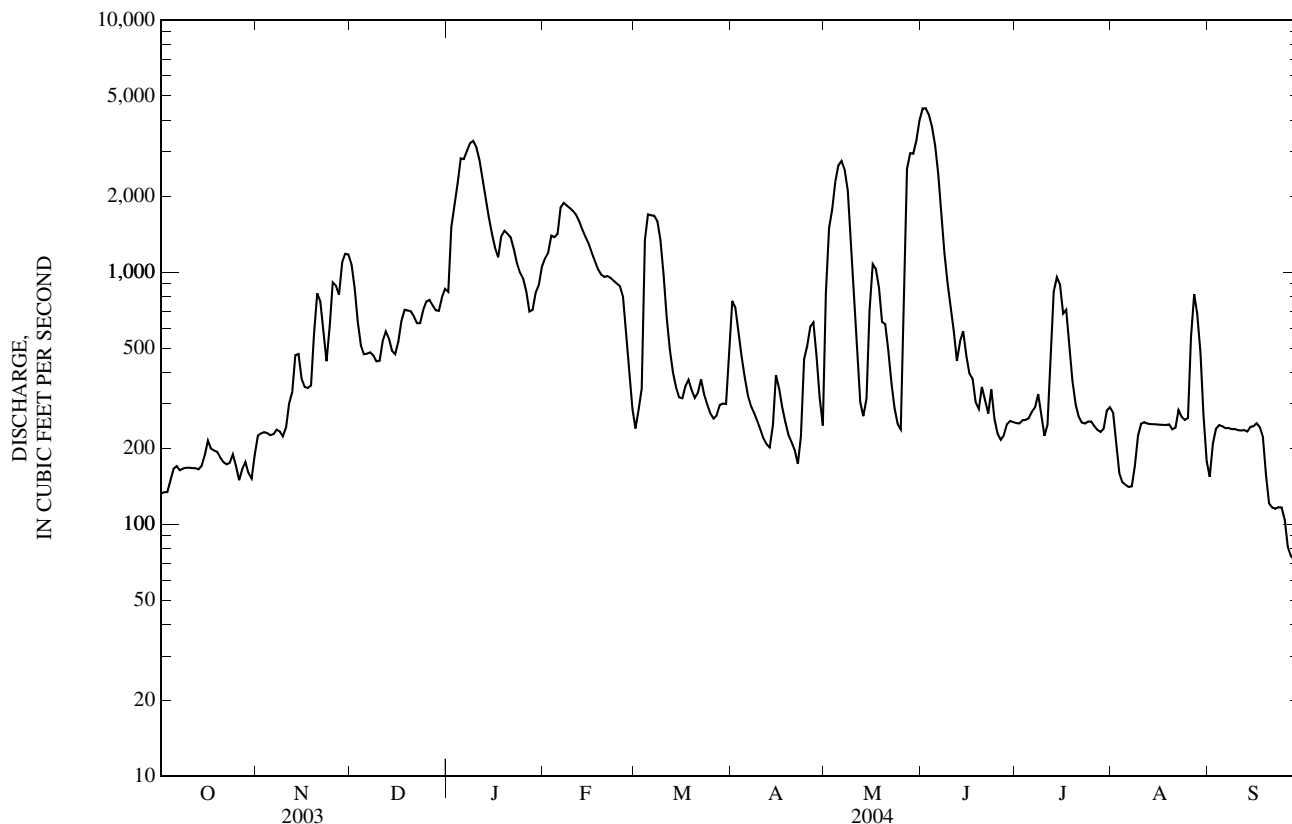
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	132	224	1,080	835	1,130	240	768	828	4,450	252	277	154
2	134	229	863	1,510	1,190	286	724	1,500	4,470	251	208	209
3	134	232	638	1,860	1,390	345	582	1,760	4,210	258	160	239
4	150	230	512	2,240	1,380	1,340	464	2,290	3,780	260	147	247
5	166	225	473	2,830	1,420	1,690	382	2,650	3,170	263	143	245
6	170	228	475	2,810	1,810	1,680	324	2,760	2,460	279	141	241
7	164	237	480	3,030	1,880	1,670	295	2,560	1,750	290	141	241
8	166	233	468	3,240	1,840	1,590	276	2,100	1,190	328	170	238
9	168	223	443	3,320	1,790	1,340	257	1,500	900	271	225	239
10	167	242	445	3,140	1,750	972	238	961	723	224	250	236
11	167	301	532	2,780	1,690	663	219	562	580	248	254	236
12	167	336	582	2,370	1,590	492	207	305	444	435	251	236
13	165	468	545	1,980	1,470	401	202	268	531	837	250	233
14	170	474	487	1,650	1,380	349	247	315	583	956	249	243
15	188	379	473	1,420	1,300	319	391	705	465	896	249	245
16	215	350	531	1,250	1,200	316	345	1,080	396	684	248	251
17	200	347	639	1,140	1,110	352	291	1,030	378	709	248	243
18	196	355	708	1,390	1,030	374	254	868	306	524	247	223
19	194	570	705	1,460	977	341	227	636	287	370	249	156
20	183	824	700	1,420	957	317	212	622	351	299	238	121
21	176	768	669	1,370	965	332	197	490	310	267	241	116
22	173	576	627	1,230	949	376	174	363	275	253	284	115
23	175	444	628	1,090	923	327	223	289	342	251	267	117
24	189	610	710	993	900	298	453	249	261	256	259	117
25	171	912	764	943	879	275	509	238	229	256	264	104
26	149	884	775	836	800	262	608	1,100	216	245	553	81
27	165	815	738	698	586	270	632	2,570	225	237	817	75
28	176	1,090	706	708	418	297	462	2,960	249	232	681	72
29	160	1,180	702	827	287	301	319	2,950	257	239	481	71
30	152	1,180	794	889	---	300	246	3,340	254	282	271	72
31	188	---	859	1,050	---	497	---	4,000	---	291	178	---
TOTAL	5,270	15,166	19,751	52,309	34,991	18,612	10,728	43,849	34,042	11,443	8,641	5,416
MEAN	170	506	637	1,687	1,207	600	358	1,414	1,135	369	279	181
MAX	215	1,180	1,080	3,320	1,880	1,690	768	4,000	4,470	956	817	251
MIN	132	223	443	698	287	240	174	238	216	224	141	71
CFSM	0.28	0.84	1.06	2.80	2.00	1.00	0.59	2.35	1.88	0.61	0.46	0.30
IN.	0.33	0.94	1.22	3.23	2.16	1.15	0.66	2.71	2.10	0.71	0.53	0.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)
MEAN	167	388	833	1,088	1,353	1,535	1,357	1,189	580	300	188	182
MAX	653	2,218	3,175	2,576	2,832	5,126	3,426	4,863	2,958	1,305	865	708
(WY)	(2002)	(1994)	(2002)	(1991)	(1991)	(1964)	(1972)	(1996)	(1996)	(1969)	(2000)	(1996)
MIN	2.84	6.83	13.8	56.3	45.5	428	131	85.7	13.4	13.5	7.46	0.94
(WY)	(1965)	(1964)	(1964)	(1964)	(1964)	(1969)	(2001)	(1988)	(1972)	(1966)	(1965)	(1972)

03376300 PATOKA RIVER AT WINSLOW, IN—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1964 - 2004	
ANNUAL TOTAL	269,608		260,218		760	
ANNUAL MEAN	739		711		1,332	
HIGHEST ANNUAL MEAN					224	
LOWEST ANNUAL MEAN					15,200	
HIGHEST DAILY MEAN	4,340	Feb 27	4,470	Jun 2	15,200	Mar 13, 1964
LOWEST DAILY MEAN	88	Aug 27	71	Sep 29	0.50	Aug 5, 1964
ANNUAL SEVEN-DAY MINIMUM	89	Aug 21	85	Sep 24	0.61	Sep 8, 1972
MAXIMUM PEAK FLOW			4,640	Jun 2	15,500	Mar 13, 1964
MAXIMUM PEAK STAGE			23.60	Jun 2	28.84	Mar 13, 1964
ANNUAL RUNOFF (CFSM)	1.22		1.18		1.26	
ANNUAL RUNOFF (INCHES)	16.63		16.05		17.12	
10 PERCENT EXCEEDS	1,880		1,680		2,010	
50 PERCENT EXCEEDS	475		359		312	
90 PERCENT EXCEEDS	118		170		28	



03376350 SOUTH FORK PATOKA RIVER NEAR SPURGEON, IN

LOCATION.--Lat 38°17'49", long 87°15'37", in NW¼SW¼ 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e8.0	20	18	19	39	30	31	757	84	13	10	16
2	e6.8	24	15	648	59	28	27	186	68	14	9.5	13
3	e6.0	27	14	117	222	58	25	71	40	13	11	16
4	e5.6	14	14	510	e57	429	22	43	40	14	9.8	13
5	e5.4	14	18	353	e74	109	19	34	34	11	9.2	12
6	e5.2	14	15	86	e151	74	19	29	27	13	8.9	11
7	e5.0	14	14	56	e70	51	19	24	23	18	8.7	11
8	e5.0	14	13	45	50	40	18	21	21	12	8.4	10
9	e5.2	14	13	40	49	35	15	19	19	11	8.2	11
10	e5.0	19	20	35	55	29	16	16	20	10	8.1	10
11	e6.8	24	17	33	50	28	17	15	21	21	7.6	10
12	e6.3	48	15	32	45	26	15	14	26	25	7.8	10
13	e12	13	13	29	37	24	16	38	22	22	7.9	10
14	e13	8.8	15	29	35	24	18	47	20	35	7.8	21
15	e11	10	15	27	33	24	15	121	21	12	7.8	13
16	e13	9.7	22	26	28	31	15	71	41	12	7.6	12
17	e12	9.0	21	57	26	30	15	56	22	23	7.1	11
18	e11	34	19	183	25	26	14	49	18	11	7.2	9.8
19	e10	64	20	67	28	23	14	334	18	9.5	7.8	9.8
20	e10	20	16	47	33	33	14	139	15	10	9.5	8.9
21	e9.8	13	24	36	30	43	14	55	14	10	11	9.1
22	e8.6	11	16	34	26	30	25	36	13	11	7.5	8.9
23	8.2	11	31	45	26	26	38	31	13	13	7.5	8.7
24	7.5	117	24	29	25	25	29	25	12	11	7.7	9.2
25	8.2	26	18	27	25	24	33	207	12	9.6	10	9.2
26	14	20	15	33	22	24	25	416	14	10	381	10
27	11	123	14	36	21	28	20	838	11	11	35	8.3
28	9.5	87	14	45	20	27	16	541	10	13	28	7.6
29	9.6	33	33	58	21	28	14	102	10	9.7	22	8.0
30	9.1	23	40	e69	---	30	19	99	10	10	14	8.0
31	14	---	24	42	---	33	---	237	---	13	12	---
TOTAL	271.8	878.5	580	2,893	1,382	1,470	597	4,671	719	430.8	705.6	325.5
MEAN	8.77	29.3	18.7	93.3	47.7	47.4	19.9	151	24.0	13.9	22.8	10.8
MAX	14	123	40	648	222	429	38	838	84	35	381	21
MIN	5.0	8.8	13	19	20	23	14	14	10	9.5	7.1	7.6
CFSM	0.20	0.68	0.44	2.18	1.11	1.11	0.46	3.52	0.56	0.32	0.53	0.25
IN.	0.24	0.76	0.50	2.51	1.20	1.28	0.52	4.06	0.62	0.37	0.61	0.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2004, BY WATER YEAR (WY)

	MEAN	15.7	38.1	59.8	60.3	81.5	91.4	84.5	75.6	43.1	30.7	23.0	16.8
MAX	39.0	136	164	186	229	188	223	263	227	283	127	72.7	
(WY)	(2002)	(1986)	(2002)	(1982)	(1985)	(1975)	(1983)	(1983)	(1979)	(1979)	(1979)	(1982)	
MIN	3.35	5.51	4.84	0.81	26.1	21.2	19.4	12.5	11.0	6.02	6.83	5.00	
(WY)	(1965)	(2000)	(1977)	(1977)	(1978)	(1981)	(2001)	(1965)	(1972)	(1966)	(1999)	(1972)	

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

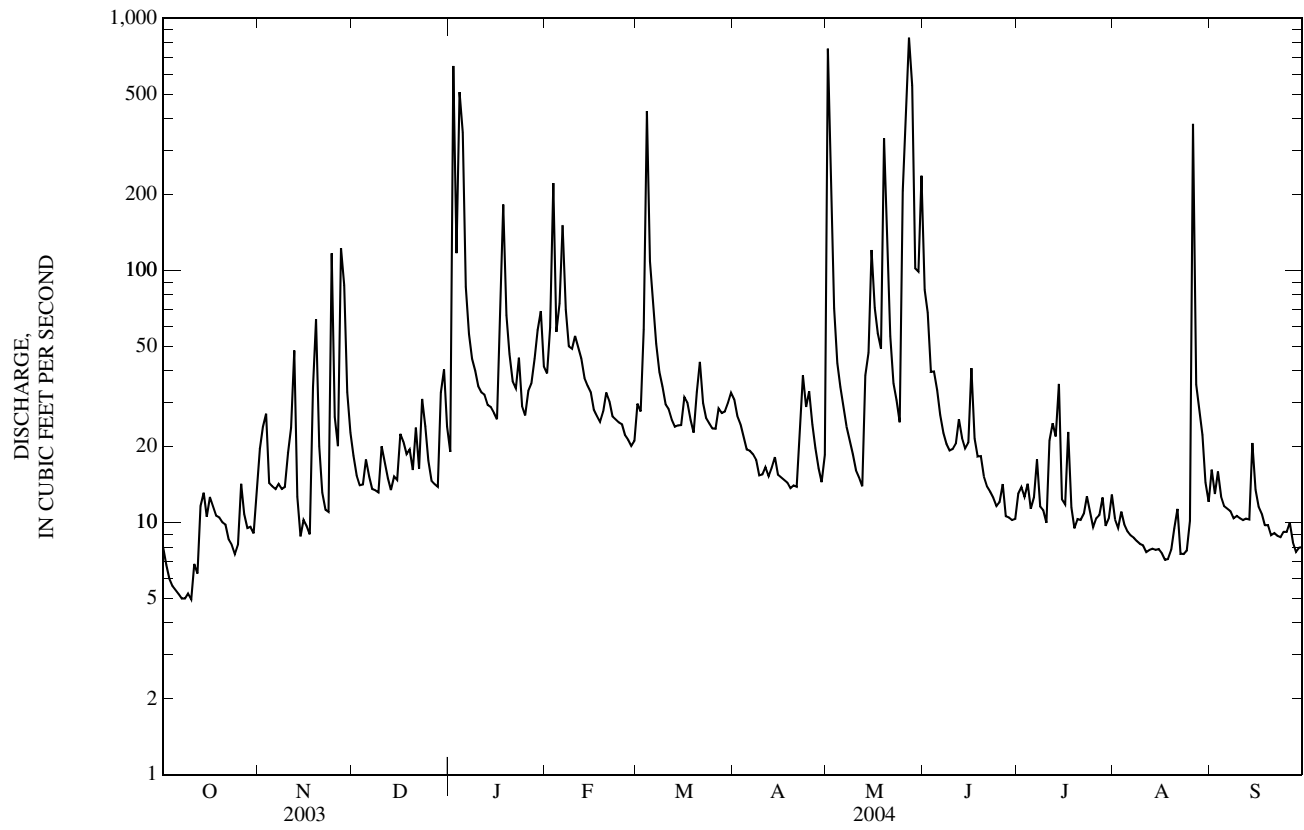
FOR 2004 WATER YEAR

WATER YEARS 1965 - 2004

ANNUAL TOTAL	17,651.7	14,924.2	
ANNUAL MEAN	48.4	40.8	51.6
HIGHEST ANNUAL MEAN			118
LOWEST ANNUAL MEAN			25.3
HIGHEST DAILY MEAN	1,160	838	3,640
LOWEST DAILY MEAN	5.0	e 5.0	0.00
ANNUAL SEVEN-DAY MINIMUM	5.2	e 5.2	0.00
MAXIMUM PEAK FLOW		2,340	5,900
MAXIMUM PEAK STAGE		11.25	15.07
ANNUAL RUNOFF (CFSM)	1.13	0.953	1.20
ANNUAL RUNOFF (INCHES)	15.34	12.97	16.37
10 PERCENT EXCEEDS	97	60	110
50 PERCENT EXCEEDS	20	19	22
90 PERCENT EXCEEDS	7.9	8.7	6.5

e Estimated

03376350 SOUTH FORK PATOKA RIVER NEAR SPURGEON, IN—Continued



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.

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 except those for June 3 to Sept. 30, which are poor. Flow regulated by Patoka Lake.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	139	218	1,350	999	1,080	353	796	671	3,220	316	345	285
2	138	241	1,190	1,410	1,050	377	912	1,560	3,500	319	299	279
3	138	243	905	1,720	1,390	428	777	1,690	e3,750	317	230	355
4	144	245	655	2,020	1,650	1,560	609	1,770	e3,840	336	196	365
5	169	239	543	2,280	1,640	1,840	492	1,880	e3,800	344	180	342
6	179	237	525	2,340	1,850	1,920	414	1,990	e3,730	357	180	336
7	178	248	526	2,480	1,930	1,950	371	2,110	e3,660	369	168	328
8	175	251	518	2,600	1,970	1,950	351	2,200	e3,400	400	176	313
9	174	244	496	2,710	2,010	1,910	321	2,220	e3,120	370	228	308
10	175	235	480	2,840	2,050	1,780	297	2,150	2,750	308	264	310
11	175	285	535	2,960	2,070	1,380	277	1,790	2,270	310	278	310
12	178	338	622	3,050	2,050	927	261	911	1,440	397	281	307
13	178	441	619	3,060	2,010	617	248	554	931	802	277	299
14	184	534	571	3,000	1,930	494	249	496	899	1,240	279	305
15	205	458	512	2,850	1,840	438	366	683	718	1,110	273	336
16	229	389	556	2,660	1,710	420	414	1,250	577	916	272	337
17	231	375	657	2,440	1,580	435	357	1,350	538	841	273	318
18	220	382	771	2,310	1,460	471	313	1,240	459	732	276	290
19	215	545	803	2,130	1,360	444	277	962	400	506	272	251
20	204	839	790	2,030	1,300	439	261	963	416	374	281	198
21	193	919	767	1,930	1,250	488	244	806	429	320	273	164
22	191	759	723	1,830	1,200	480	224	575	409	321	301	158
23	183	546	706	1,680	1,160	455	253	433	419	369	305	160
24	188	724	777	1,500	1,120	403	406	362	399	332	291	167
25	201	979	841	1,350	1,080	371	610	346	332	307	299	163
26	177	1,070	881	1,210	1,030	355	628	1,200	287	292	1,840	134
27	170	981	863	1,010	839	375	734	2,380	273	279	1,470	107
28	187	1,210	815	846	590	401	610	2,500	286	266	1,210	96
29	188	1,370	797	905	433	410	425	2,580	303	265	1,370	92
30	167	1,380	887	1,050	---	419	315	2,760	301	316	705	90
31	163	---	989	1,070	---	474	---	3,030	---	378	411	---
TOTAL	5,636	16,925	22,670	62,270	42,632	24,764	12,812	45,412	46,856	14,109	13,503	7,503
MEAN	182	564	731	2,009	1,470	799	427	1,465	1,562	455	436	250
MAX	231	1,380	1,350	3,060	2,070	1,950	912	3,030	3,840	1,240	1,840	365
MIN	138	218	480	846	433	353	224	346	273	265	168	90
CFSM	0.22	0.69	0.89	2.44	1.79	0.97	0.52	1.78	1.90	0.55	0.53	0.30
IN.	0.26	0.77	1.03	2.82	1.93	1.12	0.58	2.06	2.12	0.64	0.61	0.34

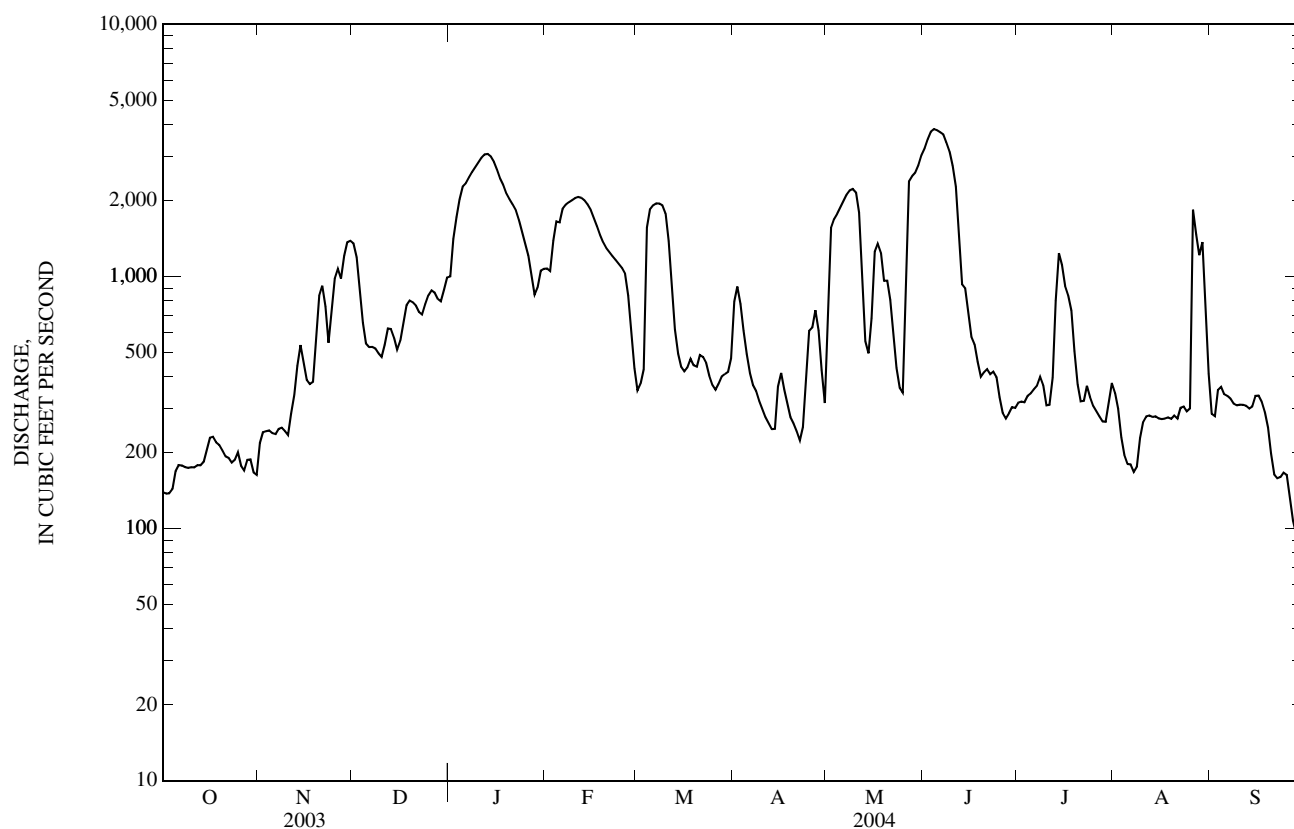
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2004, BY WATER YEAR (WY)

MEAN	255	516	1,014	1,524	1,793	2,174	1,922	1,540	824	443	314	229
MAX	2,573	2,978	4,232	8,365	5,570	8,531	4,664	6,810	4,322	3,075	3,915	1,125
(WY)	(1946)	(1994)	(2002)	(1937)	(1950)	(1945)	(1989)	(1961)	(1996)	(1958)	(1979)	(1979)
MIN	1.53	9.83	10.2	44.3	64.2	61.5	240	117	7.93	15.0	4.60	8.12
(WY)	(1943)	(1944)	(1944)	(1944)	(1964)	(1941)	(2001)	(1941)	(1936)	(1944)	(1936)	(1942)

03376500 PATOKA RIVER NEAR PRINCETON, IN—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1935 - 2004	
ANNUAL TOTAL	354,889		315,092		1,042	
ANNUAL MEAN	972		861		2,080	
HIGHEST ANNUAL MEAN					151	
LOWEST ANNUAL MEAN					1950	
HIGHEST DAILY MEAN	3,920	Mar 3	e 3,840	Jun 4	18,500	Jan 26, 1937
LOWEST DAILY MEAN	88	Aug 28	90	Sep 30	0.00	Aug 29, 1936
ANNUAL SEVEN-DAY MINIMUM	91	Aug 24	121	Sep 24	0.00	Aug 29, 1936
MAXIMUM PEAK FLOW			unknown		18,700	Jan 26, 1937
MAXIMUM PEAK STAGE			unknown		26.80	Jan 26, 1937
ANNUAL RUNOFF (CFSM)	1.18		1.05		1.27	
ANNUAL RUNOFF (INCHES)	16.06		14.26		17.22	
10 PERCENT EXCEEDS	2,340		2,060		2,830	
50 PERCENT EXCEEDS	633		472		391	
90 PERCENT EXCEEDS	137		190		30	

e Estimated



03377500 WABASH RIVER AT MOUNT CARMEL, IL

LOCATION.--Lat 38°24'07", long 87°45'10", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ 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 fair 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39,000	15,500	57,600	59,100	22,500	27,700	51,900	18,000	70,100	33,100	13,900	21,400
2	40,700	15,300	53,700	59,200	21,500	27,900	54,500	18,400	71,400	29,300	12,500	24,500
3	42,400	14,700	51,700	61,000	21,800	30,500	56,200	19,200	71,200	26,500	11,500	25,800
4	42,800	14,300	51,500	64,700	23,600	35,800	57,300	23,000	71,600	24,300	10,700	24,600
5	40,900	14,000	50,400	75,100	25,400	43,900	57,800	26,900	71,700	24,600	10,300	21,500
6	e36,600	13,800	47,000	86,900	27,600	52,100	55,500	28,700	70,500	24,800	10,300	19,000
7	e30,500	13,800	41,100	96,600	30,200	57,400	47,600	29,400	68,100	24,100	10,400	17,600
8	e25,300	13,900	35,400	107,000	31,000	59,500	38,800	29,700	58,600	24,000	10,600	16,800
9	e22,000	13,600	32,100	119,000	31,300	60,400	33,100	29,600	42,700	22,600	10,800	15,700
10	e20,200	13,300	30,600	133,000	31,400	60,200	29,400	28,100	34,700	21,300	11,000	14,000
11	e19,000	13,200	30,100	149,000	33,000	58,200	26,800	25,100	29,700	20,600	10,700	12,200
12	e18,100	13,300	30,600	157,000	34,800	54,500	24,500	21,500	26,700	25,500	9,940	11,100
13	e17,100	13,700	32,100	157,000	35,300	50,300	22,500	18,500	29,800	35,900	9,190	10,600
14	e16,400	14,200	35,000	147,000	33,800	43,900	20,600	17,100	39,500	38,700	8,610	10,000
15	e15,700	15,100	37,700	131,000	31,900	36,200	19,100	16,300	43,900	38,300	8,180	9,630
16	e16,100	16,400	38,500	114,000	30,300	30,800	18,300	16,700	48,800	33,400	7,890	8,970
17	e16,800	17,800	36,400	91,700	28,500	27,400	18,200	17,300	54,200	32,500	7,650	8,250
18	e18,000	19,200	33,400	71,300	26,200	25,400	18,600	18,200	60,200	27,200	7,370	7,910
19	e19,200	22,100	31,200	62,700	24,300	24,100	18,700	19,000	66,200	23,500	7,160	7,540
20	e20,600	31,500	30,000	58,100	23,700	23,400	18,000	19,400	71,200	22,100	7,160	7,320
21	e21,700	42,000	29,400	51,700	24,500	22,900	17,000	20,500	77,200	20,800	7,100	7,030
22	e21,100	47,200	28,100	45,700	26,000	21,800	16,000	22,800	85,900	19,100	7,550	6,790
23	e19,300	48,400	26,600	41,000	29,300	20,900	15,800	24,100	90,800	17,600	9,100	6,610
24	17,900	51,200	29,800	37,000	33,300	20,100	15,900	24,700	92,300	17,900	10,700	6,420
25	16,800	56,200	40,500	33,500	37,500	19,500	16,400	25,100	87,100	17,600	11,900	6,230
26	16,000	58,800	47,900	31,000	38,900	19,000	17,300	26,600	76,200	17,200	18,100	6,030
27	15,300	59,800	51,800	29,100	36,800	21,500	18,600	34,500	66,700	16,200	20,400	5,800
28	14,700	59,300	53,900	27,100	33,200	31,600	19,300	49,400	58,600	15,700	20,200	5,700
29	14,400	59,800	55,900	25,800	30,100	41,300	19,100	63,000	49,800	14,600	18,800	5,620
30	14,900	60,000	58,700	24,900	---	47,600	18,600	66,300	40,000	13,400	18,000	5,480
31	15,400	---	60,000	23,900	---	50,000	---	68,500	---	14,000	18,400	---
TOTAL	704,900	861,400	1,268,700	2,371,100	857,700	1,145,800	861,400	865,600	1,825,400	736,400	356,100	356,130
MEAN	22,740	28,710	40,930	76,490	29,580	36,960	28,710	27,920	60,850	23,750	11,490	11,870
MAX	42,800	60,000	60,000	157,000	38,900	60,400	57,800	68,500	92,300	38,700	20,400	25,800
MIN	14,400	13,200	26,600	23,900	21,500	19,000	15,800	16,300	26,700	13,400	7,100	5,480
CFSM	0.79	1.00	1.43	2.67	1.03	1.29	1.00	0.98	2.12	0.83	0.40	0.41
IN.	0.92	1.12	1.65	3.08	1.11	1.49	1.12	1.12	2.37	0.96	0.46	0.46

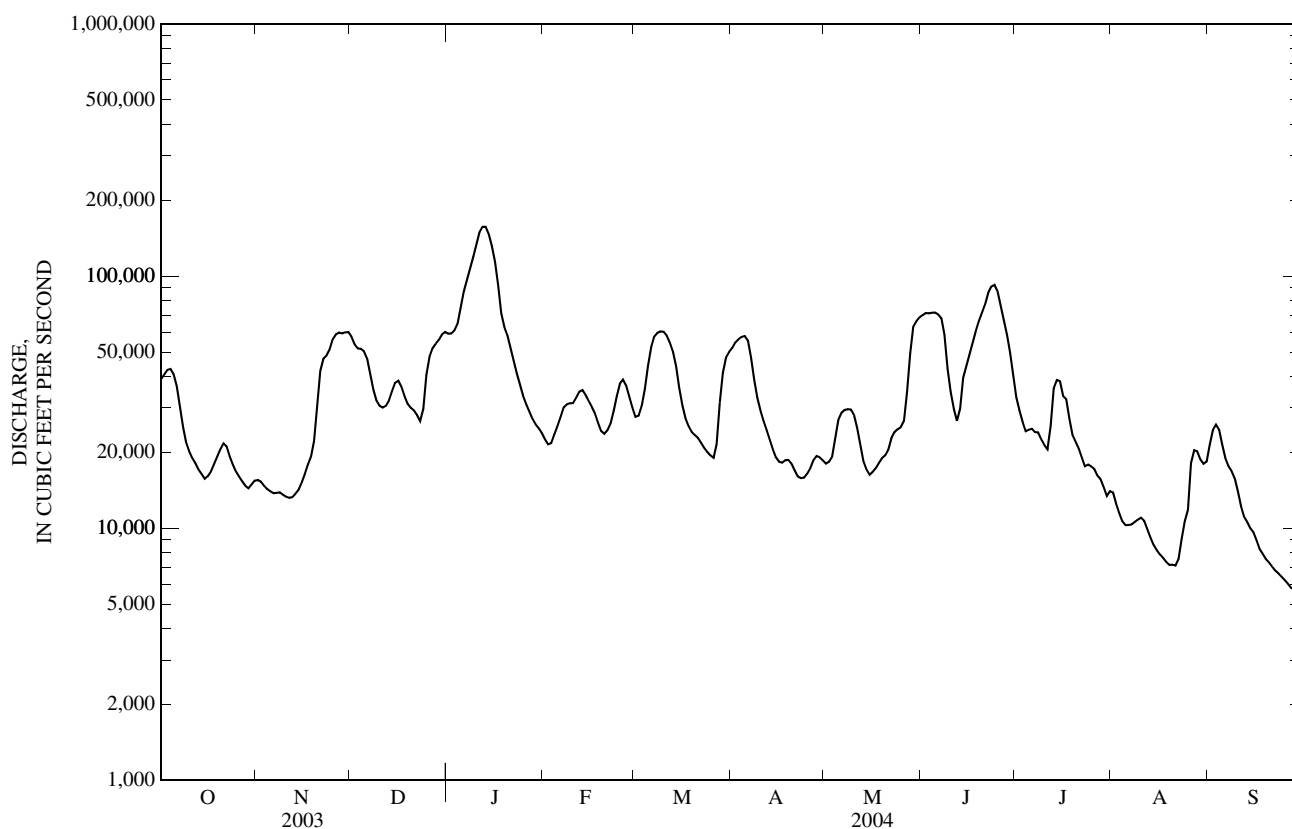
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2004, BY WATER YEAR (WY)

	MEAN	9,916	15,730	25,900	37,430	40,800	49,650	49,650	42,870	29,320	19,860	12,170	9,359
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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1928 - 2004	
ANNUAL TOTAL	12,603,210		12,210,630		28,490	
ANNUAL MEAN	34,530		33,360		56,740	
HIGHEST ANNUAL MEAN					6,144	
LOWEST ANNUAL MEAN					1941	
HIGHEST DAILY MEAN	116,000	Jul 20	157,000	Jan 12	302,000	May 25, 1943
LOWEST DAILY MEAN	9,590	Aug 30	5,480	Sep 30	1,650	Sep 27, 1941
ANNUAL SEVEN-DAY MINIMUM	10,300	Aug 25	5,900	Sep 24	1,700	Dec 19, 1963
MAXIMUM PEAK FLOW			159,000	Jan 12	305,000	May 25, 1943
MAXIMUM PEAK STAGE			28.06	Jan 12	31.75	Jan 7, 1991
ANNUAL RUNOFF (CFSM)	1.21		1.17		0.995	
ANNUAL RUNOFF (INCHES)	16.37		15.86		13.52	
10 PERCENT EXCEEDS	60,400		60,600		67,900	
50 PERCENT EXCEEDS	29,400		25,600		16,900	
90 PERCENT EXCEEDS	13,200		10,700		4,430	

e Estimated



03378500 WABASH RIVER AT NEW HARMONY, IN

LOCATION.--Lat 38°07'53", long 87°56'32" in SE $\frac{1}{4}$ SE $\frac{1}{4}$ 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, 19.56 ft, Jan. 14; minimum gage height, 1.45 ft, Sept. 30.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.80	3.80	12.46	12.74	---	6.72	11.52	4.94	14.82	7.88	3.62	5.18
2	9.19	3.76	11.85	12.86	---	6.74	11.92	4.74	15.00	7.00	3.28	5.83
3	9.51	3.63	11.47	13.08	---	7.31	12.16	4.90	14.98	6.35	3.02	6.06
4	9.47	3.55	11.39	13.82	---	8.66	12.38	5.64	15.02	5.82	2.84	5.73
5	9.01	3.49	11.16	14.89	---	10.04	12.42	6.34	14.92	5.90	2.75	5.14
6	8.06	3.43	10.58	15.76	6.73	11.51	11.94	6.67	14.60	5.94	2.75	4.60
7	6.87	3.42	9.46	16.39	---	12.44	10.67	6.80	13.90	5.76	2.75	4.28
8	5.93	3.45	8.34	17.08	---	12.84	9.00	6.86	12.36	5.71	2.79	4.13
9	5.33	3.40	7.60	17.59	---	12.96	7.80	6.77	10.20	5.41	2.84	3.90
10	4.99	3.33	7.22	17.93	---	12.88	7.00	6.46	8.36	5.24	2.88	3.54
11	4.73	3.31	7.07	18.58	---	12.57	6.42	---	7.12	4.98	2.82	3.16
12	4.54	3.27	7.14	19.29	---	11.99	5.92	5.16	6.47	6.08	2.64	2.91
13	4.33	3.37	7.44	19.48	---	11.30	5.48	4.59	7.02	8.02	2.49	2.80
14	4.19	3.49	7.99	19.38	---	10.12	5.06	4.24	8.82	8.59	2.34	2.66
15	4.03	3.67	8.56	18.83	---	8.62	4.75	4.07	9.66	8.43	2.24	2.58
16	4.18	3.93	8.72	18.20	---	7.46	4.55	4.16	10.60	7.56	2.17	2.43
17	4.36	4.26	8.38	17.24	---	6.68	4.50	4.26	11.56	8.40	2.10	2.26
18	4.67	4.63	7.78	15.66	---	6.22	4.58	4.46	12.61	7.10	2.02	2.17
19	4.93	5.13	7.32	---	---	5.90	4.58	4.62	13.52	5.94	1.94	2.08
20	5.31	7.03	7.04	---	---	5.84	4.47	4.67	14.26	5.42	1.96	2.02
21	5.45	9.09	6.90	---	6.04	5.67	4.24	5.03	14.86	5.08	1.94	1.92
22	5.11	10.13	6.64	---	6.28	5.42	4.04	5.48	15.57	4.84	2.04	1.86
23	4.69	10.54	6.32	---	6.91	5.16	3.98	5.78	16.07	4.50	2.46	1.79
24	4.35	11.11	6.91	---	7.74	4.99	4.00	5.90	16.26	4.46	2.84	1.74
25	4.11	12.01	9.00	---	8.58	4.84	4.10	6.27	16.08	4.36	3.18	1.68
26	3.92	12.49	10.46	---	8.86	4.76	4.28	7.26	15.32	4.25	7.36	1.63
27	3.78	12.72	11.30	---	8.54	5.28	4.56	9.12	14.21	4.02	6.57	1.56
28	3.63	12.70	11.74	---	7.86	7.39	4.70	11.74	12.97	3.91	6.00	1.50
29	3.56	12.83	12.14	---	7.24	9.44	4.64	13.50	11.43	3.68	5.34	1.48
30	3.64	12.83	12.66	---	---	10.70	4.53	14.23	9.42	3.62	4.92	1.45
31	3.77	---	12.90	---	---	11.18	---	14.51	---	3.74	4.79	---
MEAN	5.43	6.46	9.22	---	---	8.50	6.67	---	12.60	5.74	3.22	3.00
MAX	9.51	12.83	12.90	---	---	12.96	12.42	---	16.26	8.59	7.36	6.06
MIN	3.56	3.27	6.32	---	---	4.76	3.98	---	6.47	3.62	1.94	1.45

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)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Turbidity, wat unf lab, Hach 2100AN NTU (99872)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf μ S/cm 25 deg C (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)
NOV												
04...	1230	Environmental	14,400	22	0.097	0.073	--	8.4	623	16.5	290	78.0
04...	1240	Replicate	--	22	.101	.076	--	--	--	--	290	77.9
DEC												
02...	1220	Environmental	53,700	29	.136	.103	11.2	7.9	467	7.0	240	64.3
02...	1228	Field Blank	--	--	--	--	--	--	--	--	--	.03
02...	1230	Replicate	--	--	--	--	--	--	--	--	--	--
JAN												
09...	1100	Environmental	120,000	200	.159	.124	--	7.5	290	2.0	130	35.1
20...	1340	Environmental	62,200	82	.121	.092	12.1	7.8	464	2.5	210	57.1
FEB												
03...	1320	Environmental	22,700	12	.059	.043	13.8	8.0	599	1.5	290	77.4
MAR												
09...	1240	Environmental	58,200	140	.131	.099	11.6	7.8	448	10.0	190	51.6
23...	1340	Environmental	22,900	22	.073	.054	13.7	8.4	607	9.5	300	79.5
23...	1348	Field Blank	--	--	<.004	<.004	--	--	--	--	--	--
APR												
19...	1230	Environmental	20,900	28	.061	.045	12.4	8.2	539	18.0	240	56.8
26...	1220	Environmental	17,200	20	.073	.054	11.6	8.3	597	18.5	280	69.5
MAY												
18...	1200	Environmental	18,100	65	.097	.073	9.7	8.2	563	22.0	260	63.8
18...	1210	Replicate	--	59	.097	.073	--	--	--	--	260	63.3
25...	1210	Environmental	25,000	100	.096	.071	7.3	8.0	562	25.0	270	69.1
25...	1218	Field Blank	--	--	--	--	--	--	--	--	--	.02
JUN												
02...	1420	Environmental	71,100	180	.180	.137	5.8	7.5	366	22.5	150	41.5
22...	1330	Environmental	73,800	51	.171	.129	6.2	7.7	366	25.5	170	45.9
22...	1340	Replicate	--	48	.171	.128	--	--	--	--	160	45.2
JUL												
20...	1200	Environmental	25,400	83	.115	.085	8.1	8.0	477	27.0	230	62.9
AUG												
24...	1210	Environmental	10,500	19	.084	.063	11.8	8.3	556	26.5	230	50.2
31...	1300	Environmental	18,200	65	.171	.130	6.2	7.7	510	25.5	230	59.2
31...	1308	Field Blank	--	--	<.004	<.004	--	--	--	--	--	--

03378500 WABASH RIVER AT NEW HARMONY, IN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

[illegible]

03378500 WABASH RIVER AT NEW HARMONY, IN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Nitrite + nitrate water ftrd, mg/L as N (00631)	Nitrite water, ftrd, mg/L as N (00613)	Particulate nitrogen, susp, water, mg/L (49570)	Ortho-phosphate, water, ftrd, mg/L as P (00671)	Phosphorus, water, ftrd, mg/L (00666)	Phosphorus, water, unftrd 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, ftrd, mg/L (00681)	Phaeophytin a, phytoplankton, µg/L (62360)	Chlorophyll a phytoplankton, fluoro, µg/L (70953)	Aluminum, water, ftrd, µg/L (01106)
NOV													
04...	2.00	E0.004	0.47	0.047	0.063	0.16	3.4	<0.1	3.4	3.5	35.2	36.0	--
04...	2.01	E.005	.49	.048	.064	.16	3.4	<.1	3.3	3.5	34.7	45.0	--
DEC													
02...	3.52	.011	.29	.079	.099	.24	2.8	<.1	2.7	4.3	5.0	3.1	--
02...	<0.016	<.002	--	<.006	--	--	--	--	--	--	--	--	E1
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
09...	1.97	.024	.45	.080	.097	.38	4.0	<.1	3.9	6.6	3.4	1.6	--
20...	2.98	.011	.42	.108	.123	.30	3.8	<.1	3.8	4.4	2.0	2.6	5
FEB													
03...	3.02	.010	.12	.058	.066	.12	1.3	<.1	1.3	2.3	1.2	2.2	2
MAR													
09...	3.50	.017	.22	.081	.101	.36	2.1	<.1	2.1	4.6	3.4	3.6	4
23...	3.18	E.006	.27	.025	.036	.14	1.7	<.1	1.7	3.0	11.7	19.6	3
23...	--	--	<.02	--	--	--	<.1	<.1	<0.1	0.3	--	--	--
APR													
19...	1.88	.009	1.05	<.006	.013	.16	11.4	1.2	10.2	2.8	53.7	92.7	5
26...	1.70	.009	.77	<.006	.012	.11	5.9	<.1	5.8	3.1	48.0	55.2	--
MAY													
18...	2.30	.027	.89	.010	.025	.20	6.6	.2	6.4	3.6	58.8	60.0	7
18...	2.29	.022	.80	.011	.024	.19	6.2	.9	5.3	5.2	53.7	53.3	5
25...	4.72	.043	.74	.058	.080	.30	8.0	1.9	6.1	3.3	32.8	27.0	4
25...	<0.016	E.001	--	<.006	--	--	--	--	--	--	--	--	<2
JUN													
02...	3.58	.077	.68	.084	.105	.39	6.0	<.1	5.9	6.1	6.6	7.6	--
22...	3.78	.071	.41	.100	.117	.22	3.3	<.1	3.3	5.2	13.8	19.1	3
22...	3.78	.069	.44	.099	.117	.24	3.6	<.1	3.5	5.2	13.9	19.1	4
JUL													
20...	1.69	E.007	.68	.060	.075	.24	5.6	.3	5.3	3.4	36.4	36.6	5
AUG													
24...	--	--	1.35	--	--	.17	9.5	.6	8.8	3.2	75.3	123	6
31...	--	--	.76	--	--	.26	6.7	.2	6.5	4.9	30.1	42.1	4
31...	--	--	<.02	--	--	--	<.1	<.1	<.1	.9	--	--	--

03378500 WABASH RIVER AT NEW HARMONY, IN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

[illegible]

03378500 WABASH RIVER AT NEW HARMONY, IN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

[illegible]

03378500 WABASH RIVER AT NEW HARMONY, IN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

[illegible]

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

[illegible]

03378500 WABASH RIVER AT NEW HARMONY, IN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

[illegible]

03378500 WABASH RIVER AT NEW HARMONY, IN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Tri- allate, water, fltrd 0.7µm GF µg/L (82678)	Tri- flur- alin, water, fltrd 0.7µm GF µg/L (82661)	Uranium natural water, fltrd, µg/L (22703)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
NOV					
04...	<0.002	<0.009	--	97	45
04...	<.002	<.009	--	96	44
DEC					
02...	<.002	<.009	--	83	115
02...	--	--	<0.04	--	--
02...	--	--	--	83	120
JAN					
09...	<.002	<.009	--	74	222
20...	<.002	<.009	.89	85	141
FEB					
03...	<.002	<.009	1.05	91	30
MAR					
09...	<.002	<.009	.92	93	260
23...	<.002	<.009	1.34	97	51
23...	--	--	--	--	--
APR					
19...	<.002	<.009	1.12	98	96
26...	<.002	<.009	--	98	74
MAY					
18...	<.002	<.009	.91	96	106
18...	<.002	<.009	.91	97	105
25...	<.002	<.009	.91	98	204
25...	--	--	<.04	--	--
JUN					
02...	<.002	<.009	--	66	402
22...	<.002	<.009	.56	82	117
22...	<.002	<.009	.55	84	112
JUL					
20...	<.002	<.009	.87	98	154
AUG					
24...	<.002	<.009	.98	97	52
31...	<.002	<.009	.90	99	140
31...	--	--	--	--	--

03378550 BIG CREEK NEAR WADESVILLE, IN

LOCATION.--Lat 38°04'58", long 87°46'10", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.59	0.69	4.5	15	19	31	36	4,520	106	2.0	27	7.1
2	0.43	0.59	2.9	387	40	43	30	1,740	69	2.0	16	5.5
3	0.39	0.50	2.3	94	256	43	26	366	45	2.5	12	4.1
4	0.72	0.47	2.3	496	85	695	23	159	35	2.4	11	3.7
5	0.62	0.44	2.7	581	104	210	19	103	29	4.3	8.5	2.9
6	0.49	0.38	3.4	101	436	121	18	76	25	8.0	6.1	2.4
7	0.43	0.34	3.3	59	134	90	19	54	21	19	4.9	1.9
8	0.36	0.30	2.5	52	82	70	19	41	17	16	5.2	1.6
9	0.32	0.25	2.0	44	79	61	16	32	31	6.0	4.3	1.3
10	0.38	0.20	2.1	35	90	46	14	26	25	4.0	3.7	1.2
11	0.39	0.30	3.5	28	95	42	14	23	16	73	4.7	1.3
12	0.49	0.62	4.3	26	84	36	14	20	70	69	2.6	1.2
13	0.76	0.99	3.3	23	73	29	13	73	84	22	2.1	1.2
14	1.1	2.1	3.2	21	68	28	13	44	28	9.2	1.8	0.93
15	1.3	1.9	3.0	21	62	26	11	55	90	e5.7	2.0	0.72
16	2.0	1.5	3.6	19	49	30	10	75	34	4.5	2.4	0.52
17	1.8	1.4	8.1	50	44	34	10	58	23	7,000	2.1	0.73
18	1.3	1.7	8.6	491	41	29	9.3	59	15	4,960	1.9	0.71
19	1.3	76	6.4	133	42	24	8.6	101	14	555	2.0	0.89
20	1.2	21	5.0	74	58	64	9.0	90	10	34	4.4	0.68
21	0.93	3.9	4.0	57	66	211	11	45	8.8	17	4.0	0.57
22	0.70	1.4	3.4	51	52	70	15	33	8.0	50	5.8	0.66
23	0.52	0.84	3.9	39	47	52	65	26	7.3	291	2.8	0.52
24	0.38	213	12	37	46	45	52	23	5.7	85	2.6	0.83
25	0.32	29	10	31	40	37	69	120	4.6	28	22	1.0
26	0.45	7.5	7.4	33	36	32	52	881	4.7	21	5,300	0.73
27	0.77	24	5.8	35	32	34	36	1,590	3.6	17	4,600	0.54
28	1.7	85	4.8	35	28	34	27	555	2.7	13	518	0.47
29	1.2	26	5.1	30	27	32	21	133	2.5	12	203	0.44
30	0.93	8.4	28	24	---	36	18	93	2.2	95	23	0.64
31	0.78	---	25	22	---	39	---	280	---	98	11	---
TOTAL	25.05	510.71	186.4	3,144	2,315	2,374	697.9	11,494	837.1	13,525.6	10,816.9	46.98
MEAN	0.81	17.0	6.01	101	79.8	76.6	23.3	371	27.9	436	349	1.57
MAX	2.0	213	28	581	436	695	69	4,520	106	7,000	5,300	7.1
MIN	0.32	0.20	2.0	15	19	24	8.6	20	2.2	2.0	1.8	0.44
CFSM	0.01	0.16	0.06	0.98	0.77	0.74	0.22	3.57	0.27	4.20	3.36	0.02
IN.	0.01	0.18	0.07	1.12	0.83	0.85	0.25	4.11	0.30	4.84	3.87	0.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2004, BY WATER YEAR (WY)

MEAN	24.1	81.5	135	140	188	209	191	169	91.7	79.8	50.2	25.3
MAX	228	513	710	559	727	581	702	742	347	436	349	233
(WY)	(2002)	(1986)	(1983)	(1982)	(1990)	(1975)	(1996)	(1990)	(1996)	(2004)	(2004)	(1982)
MIN	0.02	0.61	0.30	0.13	9.15	14.3	8.73	2.98	0.62	0.33	0.18	0.00
(WY)	(1969)	(2000)	(1966)	(1977)	(1992)	(1981)	(1981)	(1988)	(1988)	(1994)	(1988)	(1983)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1966 - 2004

ANNUAL TOTAL	29,126.01	45,973.64	
ANNUAL MEAN	79.8	126	115
HIGHEST ANNUAL MEAN			207
LOWEST ANNUAL MEAN			38.7
HIGHEST DAILY MEAN	2,940	Feb 22	7,000
LOWEST DAILY MEAN	0.20	Nov 10	0.20
ANNUAL SEVEN-DAY MINIMUM	0.32	Nov 5	0.32
MAXIMUM PEAK FLOW			9,710
MAXIMUM PEAK STAGE			19.79
ANNUAL RUNOFF (CFSM)	0.767		1.21
ANNUAL RUNOFF (INCHES)	10.42		16.44
10 PERCENT EXCEEDS	147		99
50 PERCENT EXCEEDS	12		18
90 PERCENT EXCEEDS	0.90		0.70

e Estimated

03378550 BIG CREEK NEAR WADESVILLE, IN—Continued

