

03361650 SUGAR CREEK AT NEW PALESTINE, IN

LOCATION.--Lat 39°42'51", long 85°53'08", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	63	213	191	e51	104	294	41	629	e45	17	13
2	71	62	157	391	e58	166	188	46	326	41	15	12
3	60	59	127	563	e64	158	137	47	164	41	15	11
4	56	56	112	1,020	e76	131	108	53	113	50	22	11
5	51	54	122	1,690	87	209	89	46	85	43	18	10
6	46	51	162	1,620	117	238	78	42	71	41	16	9.3
7	41	48	167	818	153	162	72	38	61	42	13	8.6
8	38	44	137	330	111	121	69	36	52	35	13	8.6
9	36	41	122	227	77	99	62	34	46	34	13	9.0
10	34	40	130	173	73	86	56	33	43	37	12	9.0
11	33	41	173	142	77	76	53	31	235	32	12	8.4
12	33	49	175	131	87	70	51	29	1,040	34	11	7.6
13	32	50	133	120	89	64	50	28	e1,200	31	11	7.2
14	182	50	113	109	75	61	48	33	e1,000	28	11	7.2
15	421	49	100	104	77	58	45	93	490	25	11	7.5
16	458	46	100	95	69	60	43	100	e900	27	11	7.9
17	248	44	121	95	57	60	41	67	e1,120	25	10	8.0
18	163	68	125	162	59	60	41	56	1,000	22	9.7	7.1
19	121	262	104	155	87	65	39	148	522	21	9.5	6.9
20	96	358	88	109	173	71	40	194	246	19	15	6.6
21	81	231	78	90	237	76	41	133	178	24	17	6.6
22	72	155	74	e76	173	73	45	92	161	53	15	6.4
23	65	121	380	e72	131	65	72	73	125	26	12	6.3
24	59	319	638	e70	133	60	70	66	101	22	12	5.8
25	54	388	536	e66	122	58	64	66	86	20	16	6.0
26	73	267	274	e64	101	99	56	71	75	19	27	6.8
27	88	303	188	e62	89	362	50	72	67	19	19	7.7
28	93	513	153	e60	80	326	44	82	60	18	30	5.9
29	85	516	161	e54	77	204	41	313	e56	17	39	5.9
30	71	339	279	e50	---	178	39	217	e50	17	21	5.9
31	61	---	289	e50	---	402	---	661	---	18	16	---
TOTAL	3,114	4,687	5,731	8,959	2,860	4,022	2,126	3,041	10,302	926	489.2	239.2
MEAN	100	156	185	289	98.6	130	70.9	98.1	343	29.9	15.8	7.97
MAX	458	516	638	1,690	237	402	294	661	1,200	53	39	13
MIN	32	40	74	50	51	58	39	28	43	17	9.5	5.8
CFSM	1.07	1.66	1.97	3.08	1.05	1.38	0.75	1.04	3.66	0.32	0.17	0.08
IN.	1.23	1.86	2.27	3.55	1.13	1.59	0.84	1.20	4.08	0.37	0.19	0.09

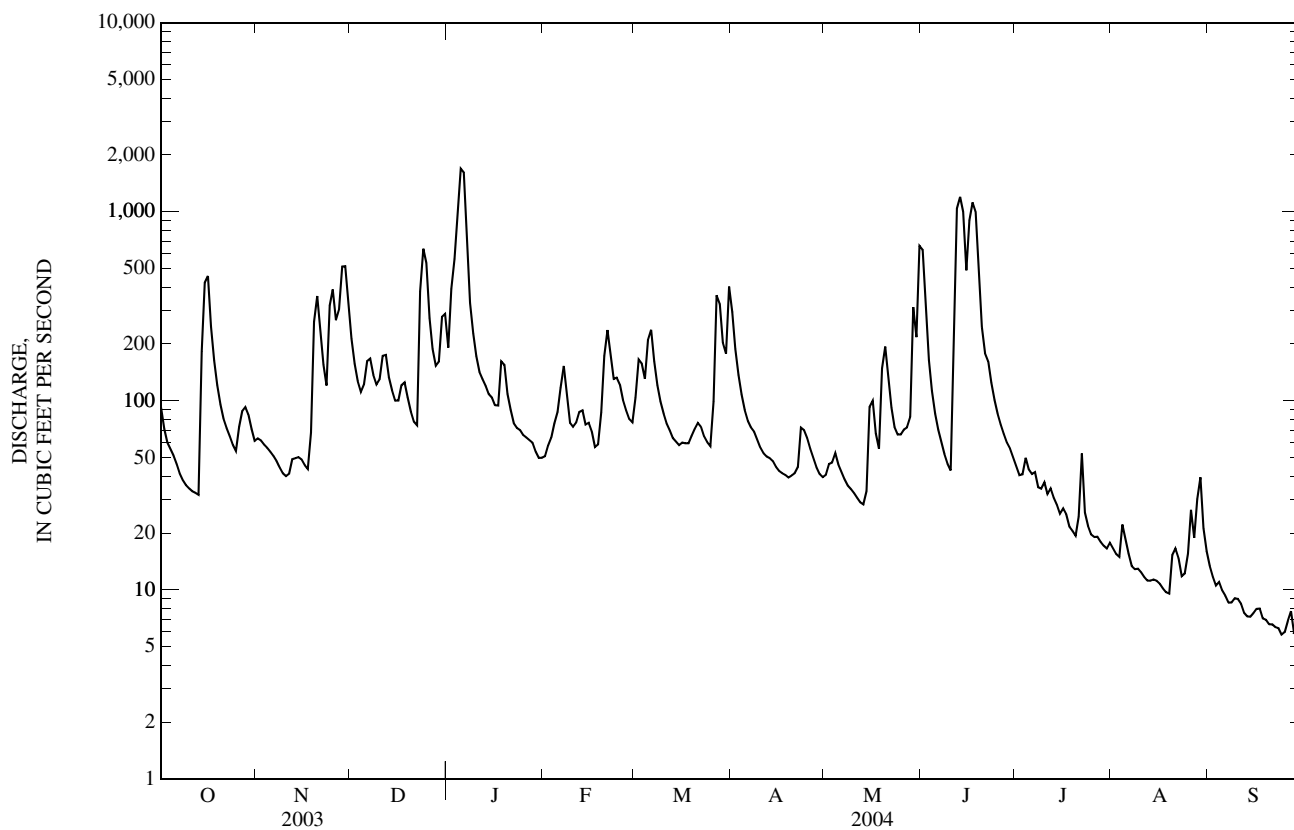
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2004, BY WATER YEAR (WY)

MEAN	44.2	89.9	122	129	157	172	154	137	105	70.8	39.7	31.7
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)

03361650 SUGAR CREEK AT NEW PALESTINE, IN—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1968 - 2004	
ANNUAL TOTAL	53,699		46,496.4			
ANNUAL MEAN	147		127		104	
HIGHEST ANNUAL MEAN					157	
LOWEST ANNUAL MEAN					37.7	
HIGHEST DAILY MEAN	1,450	Jul 7	1,690	Jan 5	1,930	Nov 15, 1993
LOWEST DAILY MEAN	12	Aug 26	5.8	Sep 24	0.11	Sep 19, 1999
ANNUAL SEVEN-DAY MINIMUM	13	Aug 22	6.3	Sep 24	0.26	Sep 16, 1999
MAXIMUM PEAK FLOW			1,800	Jan 5	2,340	Nov 14, 1993
MAXIMUM PEAK STAGE			9.38	Jan 5	10.34	Feb 23, 1979
ANNUAL RUNOFF (CFSM)	1.57		1.35		1.11	
ANNUAL RUNOFF (INCHES)	21.27		18.42		15.04	
10 PERCENT EXCEEDS	364		282		244	
50 PERCENT EXCEEDS	62		64		46	
90 PERCENT EXCEEDS	23		12		8.4	

e Estimated



03361650 SUGAR CREEK AT NEW PALESTINE, IN—Continued

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

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).

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	8.0	8.1	8.2	8.1	8.0	8.2	---	8.1	7.6	---	8.1	7.8
2	8.0	8.1	8.3	---	8.0	8.2	8.3	8.2	7.7	8.1	8.1	7.8
3	8.1	8.1	8.3	7.9	8.0	8.3	8.4	8.3	7.7	8.1	8.1	7.8
4	8.1	8.1	8.3	7.8	8.0	e8.3	8.4	8.3	8.0	8.0	8.0	7.8
5	8.1	7.9	8.3	7.8	8.1	---	8.4	8.3	8.1	8.0	8.0	7.8
6	8.2	8.0	8.2	7.8	---	---	8.4	8.2	8.1	8.0	8.1	7.7
7	8.2	8.1	8.3	7.8	8.0	---	8.4	8.2	8.1	8.0	8.2	7.8
8	8.2	8.2	8.3	7.9	8.0	---	8.3	8.1	8.1	8.0	8.2	8.1
9	8.2	8.2	8.3	7.9	8.0	8.4	8.3	8.0	8.1	8.0	8.2	8.0
10	8.1	8.2	8.2	8.0	8.0	8.5	8.3	7.9	8.0	8.0	8.2	8.1
11	8.1	8.1	8.2	8.0	8.1	8.4	8.3	7.9	8.0	7.9	8.3	8.1
12	8.0	8.1	8.3	8.0	8.1	8.4	8.3	7.9	7.6	7.9	8.3	8.0
13	8.0	8.2	8.2	7.9	8.1	8.4	8.3	7.8	---	7.9	8.3	8.0
14	7.7	8.2	8.2	7.9	8.1	8.3	8.4	7.7	---	8.0	8.3	8.0
15	e7.6	8.2	8.3	7.9	8.1	8.3	8.3	7.8	7.8	8.0	8.3	7.9
16	7.7	8.2	8.2	7.8	8.1	8.2	8.2	7.9	---	8.0	8.3	7.9
17	7.8	8.2	8.3	8.0	8.2	8.2	8.2	---	e7.5	8.0	8.2	8.1
18	7.9	8.2	8.3	8.0	8.2	8.2	8.1	---	7.6	8.0	8.2	8.2
19	8.0	8.1	8.3	---	8.1	8.2	8.1	7.9	7.7	8.0	7.9	8.2
20	8.0	8.2	8.3	---	7.9	8.1	8.1	8.0	7.9	8.0	7.9	8.2
21	7.9	8.2	8.3	8.1	7.8	8.1	8.1	8.0	7.9	7.9	7.9	8.2
22	8.0	8.3	8.3	8.1	8.0	8.1	8.1	8.0	7.9	7.6	8.0	8.1
23	8.0	8.3	8.0	8.1	8.0	8.1	8.1	7.9	8.0	7.7	8.0	8.0
24	8.0	8.1	7.8	8.1	8.1	8.4	8.2	7.9	8.0	7.9	7.9	8.1
25	8.1	8.2	7.9	8.1	8.4	8.3	8.2	7.9	8.1	7.9	7.9	8.2
26	8.1	8.2	8.0	8.1	8.4	8.2	8.2	8.0	8.1	8.0	7.8	8.3
27	8.2	8.2	8.1	8.1	8.4	7.9	8.3	e8.0	8.1	8.2	7.7	8.2
28	8.2	8.1	8.1	8.2	8.4	---	8.3	8.0	8.1	8.2	7.7	8.2
29	8.2	8.0	---	8.1	8.4	---	8.3	7.8	---	8.2	7.6	8.2
30	8.2	8.1	---	8.1	---	---	8.2	7.8	---	8.2	7.7	8.2
31	8.2	---	8.1	8.0	---	---	---	7.6	---	8.1	7.7	---
MED	8.1	8.2	---	---	---	---	---	---	---	---	8.1	8.1

e Estimated

03361650 SUGAR CREEK AT NEW PALESTINE, 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	11.5	9.5	---	13.5	16.1	11.7	---	7.9	7.2	---	7.9	---
2	12.0	9.4	---	---	16.0	11.6	12.5	9.4	7.6	7.9	7.7	---
3	12.4	9.4	---	11.4	15.8	12.3	12.7	10.6	8.0	7.5	7.5	---
4	12.1	9.3	---	12.0	16.3	e11.6	13.1	10.6	8.0	7.1	6.7	---
5	12.1	8.2	---	13.0	16.3	---	14.0	10.5	8.1	7.2	7.3	---
6	10.8	9.5	---	14.8	---	---	14.0	9.6	8.0	7.2	7.9	---
7	9.9	12.0	---	15.4	16.0	---	13.4	8.7	7.8	7.2	8.1	---
8	9.6	13.4	---	14.9	16.5	---	12.3	8.9	7.5	7.7	8.4	---
9	9.5	14.2	---	14.7	16.3	14.2	12.4	8.3	7.2	7.6	8.4	8.1
10	9.0	14.4	---	15.2	15.9	14.9	12.1	7.5	7.1	7.5	8.1	8.6
11	8.5	11.3	---	15.1	16.1	14.3	11.3	7.5	6.9	7.4	8.6	9.1
12	7.6	11.1	---	14.5	15.6	15.5	12.0	7.0	6.0	7.3	8.7	9.3
13	7.9	12.6	---	14.6	15.9	16.1	12.5	6.3	---	7.2	9.4	9.2
14	6.8	14.4	---	14.7	16.4	14.7	14.2	6.3	---	7.3	9.3	8.9
15	e7.3	13.0	---	15.0	16.2	15.3	13.1	7.9	7.0	7.7	9.3	8.7
16	7.9	13.1	---	15.3	17.0	14.8	11.4	9.2	---	8.0	9.2	8.8
17	e8.6	13.5	---	15.1	17.1	15.0	9.9	---	e6.3	7.7	9.0	9.1
18	---	10	13.7	15.4	16.7	15.4	8.8	---	6.4	8.1	8.5	9.5
19	---	8.7	14.0	---	15.6	15.8	8.2	6.8	6.8	8.2	7.9	9.6
20	---	---	14.7	---	13.7	14.0	7.8	7.2	7.8	8.1	7.1	9.5
21	---	---	15.0	16.1	13.6	14.2	7.9	7.1	7.9	7.8	8.1	9.3
22	---	---	13.9	16.1	14.8	15.9	7.9	6.9	7.9	6.7	8.2	8.6
23	---	---	12.3	16.5	14.8	15.8	9.1	6.7	8.1	6.8	8.2	---
24	---	---	12.4	16.4	14.2	14.0	9.4	6.9	8.0	7.8	8.1	---
25	---	---	13.1	16.5	13.9	12.6	9.1	6.9	8.2	8.1	7.4	---
26	---	---	13.6	16.2	13.1	10.0	9.4	7.1	8.6	8.3	7.1	---
27	---	---	13.8	16.3	13.2	10.1	10.2	e7.3	8.6	8.8	7.1	---
28	---	---	13.5	16.7	13.3	---	10.7	7.4	8.3	8.6	6.6	---
29	---	---	---	16.6	13.3	---	10.1	7.5	---	8.6	---	---
30	11.0	---	---	16.6	---	---	8.8	7.4	---	8.0	---	---
31	10.2	---	13.2	16.5	---	---	---	6.9	---	7.9	---	---

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	12.3	14.1	5.9	4.8	0.1	7.8	---	16.8	18.8	---	22.1	20.6
2	11.3	14.8	5.0	---	.1	8.1	9.2	14.2	18.7	22.4	22.8	20.8
3	10.5	15.1	5.1	8.7	.1	7.6	10.1	13.1	18.3	23.3	23.6	21.6
4	11.5	15.2	4.9	6.8	.1	e7.9	9.6	13.0	18.5	23.5	23.3	22.0
5	12.2	14.8	5.3	4.4	.1	---	9.1	14.6	18.7	23.7	22.1	22.3
6	12.6	11.8	5.4	1.1	e.1	---	10.0	17.2	19.4	24.0	20.6	22.5
7	12.9	9.1	5.5	0.3	.0	---	12.3	18.6	20.4	23.6	19.8	21.9
8	14.2	7.1	5.6	1.5	.0	---	14.0	18.4	22.1	22.2	20.0	20.0
9	14.6	5.8	7.0	2.4	.1	6.1	13.3	20.0	23.1	22.6	20.6	19.8
10	15.7	6.4	8.1	1.5	.4	5.7	13.8	20.8	22.8	22.8	21.3	19.4
11	16.5	9.2	6.6	2.0	1.1	6.8	13.3	21.2	22.1	23.4	20.0	19.4
12	16.7	11.3	4.3	3.2	2.2	5.0	10.6	21.9	22.2	24.0	17.7	19.7
13	15.1	8.3	3.0	3.2	1.7	4.7	8.4	21.5	---	24.5	17.1	20.4
14	14.4	6.0	2.7	2.9	1.4	6.1	9.0	20.7	---	23.5	17.4	20.6
15	e13.8	6.3	3.0	2.5	1.6	6.5	11.8	17.6	22.3	22.6	17.9	20.6
16	13.3	7.5	3.6	2.4	.7	6.0	14.6	16.7	---	22.2	18.2	21.1
17	13.3	8.4	3.1	2.4	1.3	4.9	17.2	---	e23.1	22.1	18.9	19.8
18	12.4	10.6	2.6	1.5	2.0	4.5	19.0	---	23.6	21.6	20.2	17.8
19	12.7	11.8	2.6	---	3.2	5.7	18.5	19.4	22.6	21.5	21.6	17.2
20	13.5	10.9	1.5	---	4.1	7.4	16.9	19.5	20.4	22.2	20.9	16.9
21	14.5	10.5	1.4	.9	3.4	6.3	16.6	20.5	20.3	23.1	19.8	16.8
22	13.0	11.0	3.1	.8	3.7	4.9	15.2	21.7	20.4	23.3	20.1	17.4
23	12.0	12.3	4.9	.0	4.9	5.9	14.0	21.9	19.9	23.8	20.6	18.2
24	11.1	9.7	4.4	.1	5.1	8.7	14.5	21.2	20.6	21.8	21.3	18.7
25	11.4	7.1	3.2	.1	4.4	10.8	15.8	20.9	19.9	20.0	22.0	18.8
26	11.5	6.7	3.1	.1	4.5	11.7	15.3	20.5	19.0	18.9	22.2	17.3
27	e10.0	8.1	3.5	.1	5.0	11.0	14.0	e20.4	19.3	18.9	23.2	17.2
28	9.4	8.1	4.6	.0	5.3	---	13.7	20.3	20.3	19.6	23.4	16.5
29	9.4	6.1	---	.0	6.3	---	15.7	18.8	---	20.1	21.9	15.4
30	10.3	5.7	---	.0	---	---	17.0	---	---	20.7	20.9	14.8
31	12.9	---	4.9	.0	---	---	---	19.3	---	21.7	20.4	---

e Estimated

03361650 SUGAR CREEK AT NEW PALESTINE, 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	579	651	841	554	719	595	---	650	354	---	668	680
2	602	651	906	---	712	603	582	639	431	637	667	684
3	622	658	959	468	731	587	591	652	517	631	670	685
4	629	658	1,000	381	731	e595	599	644	579	608	639	687
5	637	662	1,030	249	675	---	593	632	623	629	619	700
6	644	664	1,030	236	---	---	553	642	656	625	653	695
7	647	663	1,060	318	569	---	473	639	674	612	659	587
8	650	663	1,070	446	558	---	413	641	684	614	664	602
9	648	664	1,110	497	551	612	417	640	694	634	669	629
10	649	665	1,140	530	576	617	445	640	706	621	669	641
11	651	667	1,130	556	591	619	497	637	615	643	664	648
12	650	667	1,160	576	594	618	542	640	247	650	663	---
13	651	667	1,170	591	599	598	582	652	---	651	661	---
14	520	664	1,220	606	610	568	594	643	---	647	663	---
15	e490	667	1,270	616	598	586	550	603	400	648	666	---
16	458	672	1,300	626	594	591	517	619	---	631	666	---
17	525	668	981	632	613	629	522	---	e310	618	669	---
18	567	658	667	607	620	636	539	---	327	648	671	---
19	593	601	666	---	595	635	596	581	418	650	672	---
20	616	625	669	---	555	608	642	618	491	646	625	---
21	634	632	679	610	503	640	667	623	524	629	629	---
22	644	692	683	633	495	655	664	641	536	506	637	---
23	650	744	548	665	532	638	654	655	560	604	645	---
24	652	648	432	657	566	617	666	667	574	648	653	---
25	653	686	436	676	582	627	662	660	585	655	634	---
26	640	699	511	676	590	612	666	672	598	657	597	---
27	636	726	555	674	597	533	658	e676	613	660	599	---
28	641	707	584	687	601	---	627	678	623	659	603	---
29	644	687	---	694	597	---	e631	491	---	660	525	---
30	651	747	---	700	---	---	633	465	---	667	620	---
31	655	---	544	723	---	---	---	360	---	660	664	---

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]

LOCATION.--Lat 39°43'40", long 85°52'45", in SW¹/₄SE¹/₄ sec. 20, T.15 N., R.6 E., Hancock County, Hydrologic Unit 05120204 (ACTON, IN quadrangle), 1.1 mi upstream from Sugar Creek at New Palestine, 4.2 mi upstream from Little Sugar Creek and at mi 38.4

DRAINAGE AREA.--92.6 mi².

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).

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 unfltrd μS/cm 25 deg C (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt fxd end field, mg/L as CaCO ₃ (39036)
OCT													
15...	1400	447	743	8.1	7.7	510	18.0	13.6	65.2	22.4	4.68	8.8	--
NOV													
18...	1320	51	729	10.3	8.1	663	6.0	10.7	--	--	--	--	270
DEC													
17...	1330	121	744	13.3	8.3	664	-3.0	3.0	92.3	29.6	1.42	15.1	--
JAN													
20...	1140	169	756	14.5	8.3	603	-4.0	.4	--	--	--	--	240
FEB													
11...	1030	68	751	15.0	8.2	582	4.0	.8	76.5	24.8	2.72	17.0	--
MAR													
09...	1120	94	747	14.2	8.6	601	4.0	5.9	--	--	--	--	230
24...	1130	55	749	14.6	8.3	620	19.0	8.2	80.1	30.5	1.26	14.6	--
APR													
01...	1040	293	742	10.8	8.1	546	9.0	8.2	--	--	--	--	180
20...	1040	43	740	7.7	8.0	632	16.0	16.0	80.0	30.0	1.52	13.2	--
MAY													
05...	1240	46	740	13.6	8.4	625	24.0	14.8	--	--	--	--	250
17...	1030	68	742	8.0	7.9	594	24.0	17.3	75.7	27.9	1.85	10.5	--
JUN													
03...	1040	165	740	8.2	7.7	525	22.0	17.9	--	--	--	--	190
28...	1200	60	735	8.1	8.1	614	25.0	20.1	81.9	26.7	1.93	11.2	--
JUL													
06...	0850	42	730	7.3	8.1	619	28.0	23.0	--	--	--	--	260
26...	1010	19	740	8.1	8.1	650	19.0	19.0	51.8	19.0	1.23	8.9	--
AUG													
18...	1020	10	730	8.6	8.1	646	24.0	19.8	80.3	31.7	1.98	13.8	--
SEP													
08...	1230	9	733	7.5	8.1	646	21.0	20.5	78.1	32.3	2.22	15.4	250

394340085524601 SUGAR CREEK AT CO. RD. 400S AT NEW PALESTINE, IN—Continued

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

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 water, fltrd, sum of constituents mg/L (70301)	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)
OCT 15...	--	--	--	21.7	0.2	8.11	22.4	--	282	--	<0.04	1.93	0.070
NOV 18...	267	E325	<1	31.2	--	--	37.3	--	--	--	<.04	0.84	.010
DEC 17...	--	--	--	36.1	.2	8.20	33.8	--	368	--	<.04	2.92	E.007
JAN 20...	237	284	2	30.4	--	--	31.1	--	--	--	E.03	2.48	.009
FEB 11...	--	--	--	38.7	.2	7.26	32.4	--	354	--	<.04	1.59	.066
MAR 09...	231	E281	<1	30.9	--	--	31.6	--	--	--	<.04	2.78	.051
24...	--	--	--	34.1	.2	1.27	36.4	--	345	--	<.04	1.68	.014
APR 01...	180	E218	E1	19.6	--	--	20.5	--	--	--	<.04	4.43	.016
20...	--	--	--	32.0	.2	1.63	34.8	--	358	--	<.04	.72	.022
MAY 05...	246	E297	E1	32.0	--	--	34.8	--	--	--	<.04	1.00	.020
17...	--	--	--	28.7	.3	10.10	28.3	--	390	--	<.04	5.60	.155
JUN 03...	188	227	1	21.9	--	--	20.4	--	--	--	<.04	5.61	.091
28...	--	--	--	26.0	.2	8.62	32.7	--	356	--	<.04	2.02	.009
JUL 06...	260	312	3	28.3	--	--	36.5	--	--	--	<.04	1.40	E.007
26...	--	--	--	32.1	.3	6.12	42.5	--	380	--	<.04	.59	E.006
AUG 18...	--	--	--	31.3	.3	9.39	45.2	--	380	--	<.04	.19	.013
SEP 08...	246	295	2	34.2	.3	11.20	38.5	361	385	0.29	<.04	.25	E.004

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

Date	Particulate nitrogen, susp, water, mg/L (49570)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sediment total, mg/L (00694)	Inorganic carbon, suspnd sediment total, mg/L (00688)	Organic carbon, suspnd sediment total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Iron, water, fltrd, µg/L (01046)	Manganese, water, fltrd, µg/L (01056)	1-Naphthol, water, fltrd 0.7µm GF µg/L (49295)	2,6-Diethyl-aniline water fltrd 0.7µm GF µg/L (82660)	2-[(2-Et-6-Me-Ph)-amino]propan-1-ol, µg/L (61615)	2Chloro -2,6-' diethyl acet-anilide wat flt µg/L (61618)
OCT 15...	0.31	0.145	0.270	2.2	<0.1	2.2	--	103	11.1	<0.09	<0.006	<0.1	<0.005
NOV 18...	.12	<.006	.034	0.9	<.1	0.8	2.9	--	--	--	<.006	--	--
DEC 17...	.06	<.006	.036	.5	<.1	.5	--	9	22.7	<.09	<.006	<.1	<.005
JAN 20...	.11	.007	.070	.7	<.1	.7	2.9	--	--	--	<.006	--	--
FEB 11...	.06	.030	.082	.6	<.1	.6	--	21	30.1	<.09	<.006	<.1	<.005
MAR 09...	.04	<.006	.022	.2	<.1	.2	2.4	--	--	--	<.006	--	--
24...	.04	<.006	.019	.6	<.1	.6	--	79	40.9	<.09	<.006	--	<.005
APR 01...	1.11	<.006	.680	15.2	1.9	13.3	5.9	--	--	--	<.006	--	--
20...	.10	<.006	.046	1.0	<.1	1.0	--	31	67.8	<.09	<.006	--	<.005
MAY 05...	.08	<.006	.029	.5	<.1	.5	2.5	--	--	--	<.006	--	--
17...	.14	.012	.060	.8	<.1	.8	--	10	18.4	<.09	<.006	--	<.005
JUN 03...	.23	.049	.161	2.1	<.1	2.1	4.0	--	--	--	<.006	--	--
28...	.07	.023	.066	.8	<.1	.8	--	8	9.4	<.09	<.006	--	<.005
JUL 06...	<.02	.035	.079	.4	<.1	.4	3.0	--	--	--	<.006	--	--
26...	.05	.039	.064	.8	<.1	.8	--	<6	13.3	<.09	<.006	--	<.005
AUG 18...	<.02	.036	.063	.5	<.1	.5	--	11	20.3	<.09	<.006	--	<.005
SEP 08...	.04	.030	.076	.5	<.1	.5	2.6	17	34.6	--	<.006	--	--

394340085524601 SUGAR CREEK AT CO. RD. 400S AT NEW PALESTINE, IN—Continued

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

Date	CIAT, water, fltrd, µg/L (04040)	2-Ethyl -6- methyl- aniline water, fltrd, µg/L (61620)	3,4-Di- chloro- aniline water, fltrd, µg/L (61625)	4Chloro 2methyl phenol, water, fltrd, µg/L (61633)	Aceto- chlor ESA, water, fltrd, 0.7µm GF µg/L (61029)	Aceto- chlor OA, water, fltrd, 0.7µm GF µg/L (61030)	Aceto- chlor, water, fltrd, µg/L (49260)	Ala- chlor ESA, water, fltrd, 0.7µm GF µg/L (50009)	Ala- chlor OA, water, fltrd, 0.7µm GF µg/L (61031)	Ala- chlor, water, fltrd, µg/L (46342)	alpha- HCH, water, fltrd, µg/L (34253)	Atra- zine, water, fltrd, µg/L (39632)	Azin- phos- methyl oxon, water, fltrd, µg/L (61635)
OCT 15...	E0.056	<0.004	<0.004	<0.006	0.25	0.13	0.016	0.08	0.02	<0.005	--	0.171	<0.03
NOV 18...	E.007	--	--	--	--	--	<.006	--	--	<.005	<.005	.077	--
DEC 17...	E.022	<.004	<.004	<.006	.10	.06	<.006	.05	.02	<.005	--	.090	<.03
JAN 20...	E.020	--	--	--	--	--	<.006	--	--	<.005	<.005	.059	--
FEB 11...	E.011	<.004	<.004	<.006	.03	.02	.010	.04	<.02	<.005	--	.076	<.02
MAR 09...	E.018	--	--	--	--	--	<.006	--	--	<.005	<.005	.089	--
24...	E.010	<.004	<.004	<.006	.05	.03	<.006	.05	.02	<.005	--	.062	<.03
APR 01...	E.029	--	--	--	--	--	.012	--	--	<.005	<.005	.148	--
20...	E.017	<.004	<.004	<.006	.02	<.02	.012	.05	<.02	<.005	--	.180	<.02
MAY 05...	E.020	--	--	--	--	--	.058	--	--	<.005	<.005	.712	--
17...	E.346	E.002	<.004	<.006	.24	.31	2.060	.05	.02	<.005	--	9.020	<.02
JUN 03...	E.360	--	--	--	--	--	.420	--	--	E.004	<.005	3.790	--
28...	E.106	<.004	<.004	<.006	.37	.31	.021	.06	<.02	<.005	--	.382	<.02
JUL 06...	E.047	--	--	--	--	--	.012	--	--	<.005	<.005	.269	--
26...	E.020	<.004	<.004	<.006	.08	.06	.007	.06	.02	<.005	--	.107	<.07
AUG 18...	E.006	<.004	<.004	<.006	--	--	<.006	--	--	<.005	--	.070	<.07
SEP 08...	E.011	--	--	--	--	--	<.006	--	--	<.005	<.005	.133	--

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

Date	Azin- phos- methyl water, fltrd 0.7µm GF µg/L (82686)	Ben- flur- alin, water, fltrd 0.7µm 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 oxon, water, fltrd, µg/L (61636)	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)	Cyflu- thrin, water, fltrd, µg/L (61585)	Cyper- methrin water, fltrd, µg/L (61586)	DCPA, water fltrd 0.7µm GF µg/L (82682)	Desulf- inyl fipronil, water, fltrd, µg/L (62170)
OCT 15...	<0.050	<0.010	--	<0.041	--	<0.06	<0.005	<0.006	--	<0.008	<0.009	<0.003	<0.012
NOV 18...	<0.050	<0.010	<0.004	<0.041	<0.020	--	<0.005	<0.006	<0.018	--	--	<0.003	<0.012
DEC 17...	<0.050	<0.010	--	<0.041	--	<.06	<.005	<.006	--	<.008	<.009	<.003	<.012
JAN 20...	<0.050	<0.010	<0.004	<0.041	<0.020	--	<0.005	<0.006	<0.018	--	--	<0.003	<0.012
FEB 11...	<0.050	<0.010	--	<0.041	--	<.06	<.005	<.006	--	<.008	<.009	<.003	<.012
MAR 09...	<0.050	<0.010	<0.004	<0.041	<0.020	--	<0.005	<0.006	<0.018	--	--	<0.003	<0.012
24...	<0.050	<0.010	--	<0.041	--	<.06	<.005	<.006	--	<.008	<.009	<.003	<.012
APR 01...	<0.050	<0.010	<0.004	<0.041	<0.020	--	<0.005	<0.006	<0.018	--	--	<0.003	<0.012
20...	<0.050	<0.010	--	<0.041	--	<.06	<.005	<.006	--	<.008	<.009	<.003	<.012
MAY 05...	<0.050	<0.010	<0.004	<0.041	<0.020	--	<0.005	<0.006	<0.018	--	--	<0.003	E.004
17...	<0.050	<0.010	--	<0.041	--	<.06	E.001	<.006	--	<.008	<.009	<.003	<.012
JUN 03...	<0.050	<0.010	<0.004	<0.041	<0.020	--	.007	<.006	E.009	--	--	<.003	<.012
28...	<0.050	<0.010	--	<0.041	--	<.06	<.005	<.006	--	<.030	<.030	<.003	<.012
JUL 06...	<0.050	<0.010	<0.004	<0.041	<0.020	--	<0.005	<0.006	<0.018	--	--	<0.003	<0.012
26...	<0.050	<0.010	--	<0.041	--	<.06	<.005	<.006	--	<.008	<.009	<.003	<.012
AUG 18...	<0.050	<0.010	--	<0.041	--	<.06	<.005	<.006	--	<.008	<.009	<.003	<.012
SEP 08...	<0.050	<0.010	<0.004	<.041	<0.020	--	<.5	<.006	<.018	--	--	<.003	<.012

394340085524601 SUGAR CREEK AT CO. RD. 400S AT NEW PALESTINE, IN—Continued

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

Date	Diazinon, water, fltrd, µg/L (39572)	Dicrotophos, water, fltrd, µg/L (38454)	Dieldrin, water, fltrd, µg/L (39381)	Dimeth-enamid ESA, water, fltrd, µg/L (61951)	Dimeth-enamid OA, water, fltrd, µg/L (62482)	Dimeth-oate, water, fltrd, 0.7µm GF µg/L (82662)	Disulfoton, 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)	Ethion monoxon water, fltrd, µg/L (61644)	Ethion, water, fltrd, µg/L (82346)	Etho-prop, water, fltrd, 0.7µm GF µg/L (82672)	Fenami-phos sulfone water, fltrd, µg/L (61645)
OCT 15...	<0.005	<0.08	<0.009	0.03	0.02	<0.006	--	--	--	<0.030	<0.004	--	<0.008
NOV 18...	<.005	--	<.009	--	--	--	<0.02	<0.004	<0.009	--	--	<0.005	--
DEC 17...	<.005	<.08	<.009	<.02	<.02	<.006	--	--	--	<.030	<.004	--	<.008
JAN 20...	<.005	--	<.009	--	--	--	<.02	<.004	<.009	--	--	<.005	--
FEB 11...	<.005	<.08	<.009	<.02	<.02	<.006	--	--	--	<.030	<.004	--	<.008
MAR 09...	<.005	--	<.009	--	--	--	<.02	<.004	<.009	--	--	<.005	--
24...	<.005	<.08	<.009	.02	<.02	<.006	--	--	--	<.030	<.004	--	<.008
APR 01...	<.005	--	<.009	--	--	--	<.02	<.004	<.009	--	--	<.005	--
20...	<.005	<.08	<.009	<.02	<.02	<.006	--	--	--	<.030	<.004	--	<.008
MAY 05...	<.005	--	<.009	--	--	--	<.02	<.004	<.009	--	--	<.005	--
17...	<.005	<.08	<.009	.06	<.02	<.006	--	--	--	<.030	<.004	--	<.008
JUN 03...	<.005	--	<.009	--	--	--	<.02	<.004	<.009	--	--	<.005	--
28...	<.005	<.08	<.009	.03	<.02	<.006	--	--	--	<.030	<.004	--	<.008
JUL 06...	<.005	--	<.009	--	--	--	<.02	<.004	<.009	--	--	<.005	--
26...	<.005	<.08	<.009	<.02	<.02	<.006	--	--	--	<.002	<.004	--	<.049
AUG 18...	<.005	<.08	<.009	--	--	<.006	--	--	--	<.002	<.004	--	<.049
SEP 08...	<.500	--	<.009	--	--	--	<.02	<.004	<.009	--	--	<.005	--

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

Date	Fenami-phos sulf-oxide, water, fltrd, µg/L (61646)	Fenami-phos, water, fltrd, µg/L (61591)	Desulf-inyf-fipronil amide, wat flt µg/L (62169)	Fipronil sulfide water, fltrd, µg/L (62167)	Fipronil sulfone water, fltrd, µg/L (62168)	Fipronil, water, fltrd, µg/L (62166)	Flufen-acet ESA, water, fltrd, µg/L (61952)	Flufe-nacet OA, water, fltrd, µg/L (62483)	Fonofos oxon, water, fltrd, µg/L (61649)	Fonofos water, fltrd, µg/L (04095)	Hexa-zinone, water, fltrd, µg/L (04025)	Ipro-dione, water, fltrd, µg/L (61593)	Isofen-phos, water, fltrd, µg/L (61594)
OCT 15...	<0.03	<0.03	<0.029	<0.013	<0.024	E0.010	<0.02	<0.02	<0.002	<0.003	<0.013	<1.0	<0.003
NOV 18...	--	--	<0.029	<0.013	<0.024	<0.016	--	--	--	<0.003	--	--	--
DEC 17...	<.03	<.03	<.029	<.013	<.024	<.016	<.02	<.02	<.002	<.003	<.013	<1.0	<.003
JAN 20...	--	--	<.029	<.013	<.024	<.016	--	--	--	<.003	--	--	--
FEB 11...	<.03	<.03	<.029	<.013	<.024	<.016	<.02	<.02	<.002	<.003	<.013	<1.0	<.003
MAR 09...	--	--	<.029	<.013	<.024	<.016	--	--	--	<.003	--	--	--
24...	<.03	<.03	<.029	<.013	<.024	<.016	<.02	<.02	<.002	<.003	<.013	<1.0	<.003
APR 01...	--	--	<.029	<.013	<.024	<.016	--	--	--	<.003	--	--	--
20...	<.03	<.03	<.029	<.013	<.024	<.016	<.02	<.02	<.002	<.003	<.013	<1.0	<.003
MAY 05...	--	--	<.029	<.013	<.024	<.016	--	--	--	<.003	--	--	--
17...	<.03	<.03	<.029	<.013	<.024	E.006	<.02	<.02	<.002	<.003	<.013	<1.0	<.003
JUN 03...	--	--	<.029	<.013	E.005	E.014	--	--	--	<.003	--	--	--
28...	<.03	<.03	<.029	<.013	<.024	<.016	<.02	<.02	<.002	<.003	<.013	<1.0	<.003
JUL 06...	--	--	<.029	<.013	<.024	<.016	--	--	--	<.003	--	--	--
26...	<.04	<.03	<.029	<.013	<.024	<.016	<.02	<.02	<.003	<.003	<.013	<.4	<.003
AUG 18...	<.04	<.03	<.029	<.013	<.024	<.016	--	--	<.003	<.003	<.013	<.4	<.003
SEP 08...	--	--	<.029	<.013	<.024	<.016	--	--	--	<.003	--	--	--

394340085524601 SUGAR CREEK AT CO. RD. 400S AT NEW PALESTINE, IN—Continued

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

Date	Lindane water, fltrd, µg/L (39341)	Linuron water fltrd 0.7µm GF (82666)	Mala-oxon, water, fltrd, µg/L (61652)	Mala-thion, water, fltrd, µg/L (39532)	Meta-laxyl, water, fltrd, µg/L (61596)	Methi-althion water, fltrd, µg/L (61598)	Methyl para-oxon, water, fltrd, µg/L (61664)	Methyl para-thion, water, fltrd 0.7µm GF (82667)	Metola-chlor ESA, water, fltrd 0.7µm GF (61043)	Metola-chlor OA, water, fltrd 0.7µm GF (61044)	Metola-chlor, water, fltrd, µg/L (39415)	Metri-buzin, water, fltrd, µg/L (82630)	Moli-nate, water, fltrd 0.7µm GF (82671)
OCT 15...	--	--	<0.008	<0.027	<0.005	<0.006	<0.03	<0.015	0.69	0.33	0.176	0.051	--
NOV 18...	<0.004	<0.035	--	<0.027	--	--	--	<0.015	--	--	.018	<0.006	<0.003
DEC 17...	--	--	<0.008	<0.027	<0.005	<0.006	<.03	<0.015	.29	.11	.017	<0.006	--
JAN 20...	<.004	<.035	--	<.027	--	--	--	<.015	--	--	.027	<.006	<.003
FEB 11...	--	--	<.008	<.027	<.005	<.006	<.03	<.015	.20	.06	.024	<.006	--
MAR 09...	<.004	<.035	--	<.027	--	--	--	<.015	--	--	.017	<.006	<.003
24...	--	--	<.008	<.027	<.005	<.006	<.03	<.015	.30	.10	.015	<.006	--
APR 01...	<.004	<.035	--	<.027	--	--	--	<.015	--	--	.074	.009	<.003
20...	--	--	<.008	<.027	<.005	<.006	<.03	<.015	.21	.06	.079	<.006	--
MAY 05...	<.004	<.035	--	<.027	--	--	--	<.015	--	--	.557	<.006	<.003
17...	--	--	<.008	<.027	<.006	<.006	<.03	<.015	.47	.27	1.970	.026	--
JUN 03...	<.004	<.035	--	<.027	--	--	--	<.015	--	--	.999	<.008	<.003
28...	--	--	<.008	<.027	<.005	<.006	<.03	<.015	.54	.28	.115	<.006	--
JUL 06...	<.004	<.035	--	<.027	--	--	--	<.015	--	--	.096	<.006	<.003
26...	--	--	<.030	<.027	<.005	<.006	<.03	<.015	.27	.09	.024	<.006	--
AUG 18...	--	--	<.030	<.027	<.005	<.006	<.03	<.015	--	--	.034	<.006	--
SEP 08...	<.004	<.035	--	<.027	--	--	--	<.015	--	--	E.100	<.006	<.003

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

Date	Myclo-butanil water, fltrd, µg/L (61599)	Naprop-amide, water, fltrd 0.7µm GF (82684)	p,p'-DDE, water, fltrd, µg/L (34653)	Para-thion, water, fltrd, µg/L (39542)	Peb-ulate, water, fltrd 0.7µm GF (82669)	Pendi-meth-alin, water, fltrd 0.7µm GF (82683)	Phorate oxon, water, fltrd, µg/L (61666)	Phorate water fltrd 0.7µm GF (82664)	Phosmet oxon, water, fltrd, µg/L (61668)	Phosmet water, fltrd, µg/L (61601)	Prome-ton, water, fltrd, µg/L (04037)	Prome-tryn, water, fltrd, µg/L (04036)	Propy-zamide, water, fltrd 0.7µm GF (82676)
OCT 15...	<0.008	--	--	--	--	<0.022	<0.10	<0.011	<0.06	<0.008	0.01	<0.005	<0.004
NOV 18...	--	<0.007	<0.003	<0.010	<0.004	<0.022	--	<0.011	--	--	M	--	<0.004
DEC 17...	<0.008	--	--	--	--	<0.022	<.10	<.011	<.06	<.008	.01	<.005	<.004
JAN 20...	--	<.007	<.003	<.010	<.004	<.022	--	<.011	--	--	.01	--	<.004
FEB 11...	<.008	--	--	--	--	<.022	<.10	<.011	<.06	<.008	.01	<.005	<.004
MAR 09...	--	<.007	<.003	<.010	<.004	<.022	--	<.011	--	--	.01	--	<.004
24...	<.008	--	--	--	--	<.022	<.10	<.011	--	--	M	<.005	<.004
APR 01...	--	<.007	<.003	<.010	<.004	<.022	--	<.011	--	--	.01	--	<.004
20...	<.008	--	--	--	--	<.022	<.10	<.011	<.06	<.008	M	<.005	<.004
MAY 05...	--	<.007	<.003	<.010	<.004	<.022	--	<.011	--	--	.01	--	<.004
17...	<.008	--	--	--	--	<.022	<.10	<.011	<.06	<.008	.01	<.005	<.004
JUN 03...	--	<.007	<.003	<.010	<.004	<.022	--	<.011	--	--	.05	--	<.004
28...	<.008	--	--	--	--	<.022	<.10	<.011	<.06	<.008	.01	<.005	<.004
JUL 06...	--	<.007	<.003	<.010	<.004	<.022	--	<.011	--	--	.02	--	<.004
26...	<.008	--	--	--	--	<.022	<.10	<.011	<.05	<.008	.01	<.005	<.004
AUG 18...	<.008	--	--	--	--	<.022	<.10	<.011	<.05	<.008	.02	<.005	<.004
SEP 08...	--	<.007	<.003	<.010	<.004	<.022	--	<.011	--	--	E.1	--	<.004

394340085524601 SUGAR CREEK AT CO. RD. 400S AT NEW PALESTINE, IN—Continued

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

Date	Propachlor, water, fltrd, µg/L (04024)	Propanil, water, fltrd, 0.7µm GF µg/L (82679)	Propargite, water, fltrd, 0.7µm GF µg/L (82685)	Simazine, water, fltrd, µg/L (04035)	Tebuthiuron, water, fltrd, 0.7µm GF µg/L (82670)	Terbacil, water, fltrd, 0.7µm GF µg/L (82665)	Terbufos, oxon sulfone, water, fltrd, µg/L (61674)	Terbufos, water, fltrd, 0.7µm GF µg/L (82675)	Terbutylazine, water, fltrd, µg/L (04022)	Thiobencarb, water, fltrd, 0.7µm GF µg/L (82681)	Triallate, water, fltrd, 0.7µm GF µg/L (82678)	Trifluralin, water, fltrd, 0.7µm GF µg/L (82661)	Dichlorvos, water, fltrd, µg/L (38775)
OCT 15...	--	--	--	0.011	<0.02	--	<0.07	<0.02	<0.01	--	--	<0.009	<0.01
NOV 18...	<0.025	<0.011	<0.02	.015	<.02	<0.034	--	<.02	--	<0.010	<0.002	<.009	--
DEC 17...	--	--	--	.204	<.02	--	<.07	<.02	<.01	--	--	<.009	<.01
JAN 20...	<.025	<.011	<.02	.068	<.02	<.034	--	<.02	--	<.010	<.002	<.009	--
FEB 11...	--	--	--	.092	<.02	--	<.07	<.02	<.01	--	--	<.009	<.01
MAR 09...	<.025	<.011	<.02	.022	<.02	<.034	--	<.02	--	<.010	<.002	<.009	--
MAR 24...	--	--	--	.014	<.02	--	<.07	<.02	<.01	--	--	<.009	<.01
APR 01...	<.025	<.011	<.02	.056	E.01	<.034	--	<.02	--	<.010	<.002	E.005	--
APR 20...	--	--	--	.015	<.02	--	<.07	<.02	<.01	--	--	<.009	<.01
MAY 05...	<.025	<.011	<.02	.151	<.02	<.034	--	<.02	--	<.010	<.002	<.009	--
MAY 17...	--	--	--	1.210	<.02	--	<.07	<.02	E.01	--	--	<.009	<.01
JUN 03...	<.025	<.011	<.02	.056	<.02	<.034	--	<.02	--	<.010	<.002	<.009	--
JUN 28...	--	--	--	.016	<.02	--	<.07	<.02	<.01	--	--	<.009	<.01
JUL 06...	<.025	<.011	<.02	.013	<.02	<.034	--	<.02	--	<.010	<.002	<.009	--
JUL 26...	--	--	--	.006	<.02	--	<.07	<.02	<.01	--	--	<.009	<.01
AUG 18...	--	--	--	<.005	<.02	--	<.07	<.02	<.01	--	--	<.009	<.01
SEP 08...	<.025	<.011	<.02	<.010	<.02	<.040	--	<.02	--	<.010	<.002	<.009	--

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

Date	Suspended sediment concentration mg/L (80154)
OCT 15...	60
NOV 18...	66
DEC 17...	23
JAN 20...	35
FEB 11...	19
MAR 09...	36
MAR 24...	17
APR 01...	59
APR 20...	32
MAY 05...	25
MAY 17...	27
JUN 03...	68
JUN 28...	27
JUL 06...	50
JUL 26...	23
AUG 18...	11
SEP 08...	21

03361850 BUCK CREEK AT ACTON, IN

LOCATION.--Lat 39°39'25", long 85°57'27", in NW¼SE¼ sec.15, T.14 N., R.5 E., Marion County, Hydrologic Unit 05120204, (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 fair except for estimated daily discharges, which are poor. Low flow is affected by regulation.

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	30	43	123	121	e31	80	310	30	344	26	20	20
2	27	52	100	373	31	127	162	41	165	18	12	19
3	20	43	86	380	e40	92	113	42	105	23	10	15
4	18	43	76	1,320	e42	85	88	34	73	56	32	18
5	16	39	95	2,300	43	156	66	28	58	40	46	19
6	14	35	146	652	66	136	60	26	46	32	23	16
7	18	28	113	243	73	97	52	24	45	28	19	8.2
8	14	23	95	151	52	73	52	27	36	27	10	9.7
9	18	21	85	113	45	63	43	20	33	20	7.9	4.7
10	17	19	109	90	52	51	42	20	32	55	13	4.4
11	11	25	157	78	53	50	36	24	83	51	6.5	7.8
12	8.7	34	116	74	60	43	35	19	234	93	9.9	2.9
13	16	31	90	67	66	39	38	17	252	52	5.6	2.1
14	201	33	76	66	53	39	36	20	166	37	4.0	5.5
15	295	29	68	64	60	41	30	53	136	31	3.4	7.0
16	144	23	77	59	55	46	29	39	649	22	7.6	3.0
17	88	24	97	60	48	48	31	31	696	26	9.5	8.3
18	66	49	86	147	48	48	25	32	311	25	4.1	4.0
19	47	280	72	105	82	59	28	125	177	16	7.8	2.2
20	42	196	63	77	132	53	27	127	108	13	15	5.4
21	40	115	55	64	154	50	34	71	85	12	49	6.3
22	32	76	57	53	106	48	31	50	82	319	21	2.7
23	28	65	500	e46	92	41	75	39	60	94	11	1.9
24	25	389	572	e44	95	42	54	48	52	44	14	6.1
25	27	273	244	e42	88	37	47	53	43	29	23	8.5
26	47	146	151	e40	74	78	46	48	41	24	85	3.9
27	60	261	115	e38	65	445	36	43	32	25	59	2.2
28	54	471	98	e36	58	208	35	37	33	22	55	5.4
29	49	299	119	e34	52	130	28	29	26	20	105	6.8
30	39	168	260	e30	---	102	26	61	27	20	46	5.3
31	36	---	166	e30	---	432	---	1,050	---	22	27	---
TOTAL	1,547.7	3,333	4,267	6,997	1,916	3,039	1,715	2,308	4,230	1,322	761.3	231.3
MEAN	49.9	111	138	226	66.1	98.0	57.2	74.5	141	42.6	24.6	7.71
MAX	295	471	572	2,300	154	445	310	1,050	696	319	105	20
MIN	8.7	19	55	30	31	37	25	17	26	12	3.4	1.9
CFSM	0.63	1.41	1.75	2.86	0.84	1.24	0.73	0.94	1.79	0.54	0.31	0.10
IN.	0.73	1.57	2.01	3.30	0.90	1.43	0.81	1.09	2.00	0.62	0.36	0.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2004, BY WATER YEAR (WY)

	39.0	94.4	112	115	132	155	135	122	87.2	68.6	34.7	26.7
MEAN	39.0	94.4	112	115	132	155	135	122	87.2	68.6	34.7	26.7
MAX	312	463	333	352	349	347	302	462	478	324	216	166
(WY)	(1987)	(1994)	(1991)	(1969)	(1971)	(1978)	(1996)	(1996)	(1998)	(1969)	(1979)	(2003)
MIN	2.96	5.90	8.11	4.09	18.8	27.8	18.5	17.4	6.04	5.97	2.83	1.24
(WY)	(1998)	(2000)	(1977)	(1977)	(1978)	(1969)	(1971)	(1976)	(1988)	(1991)	(1999)	(1999)

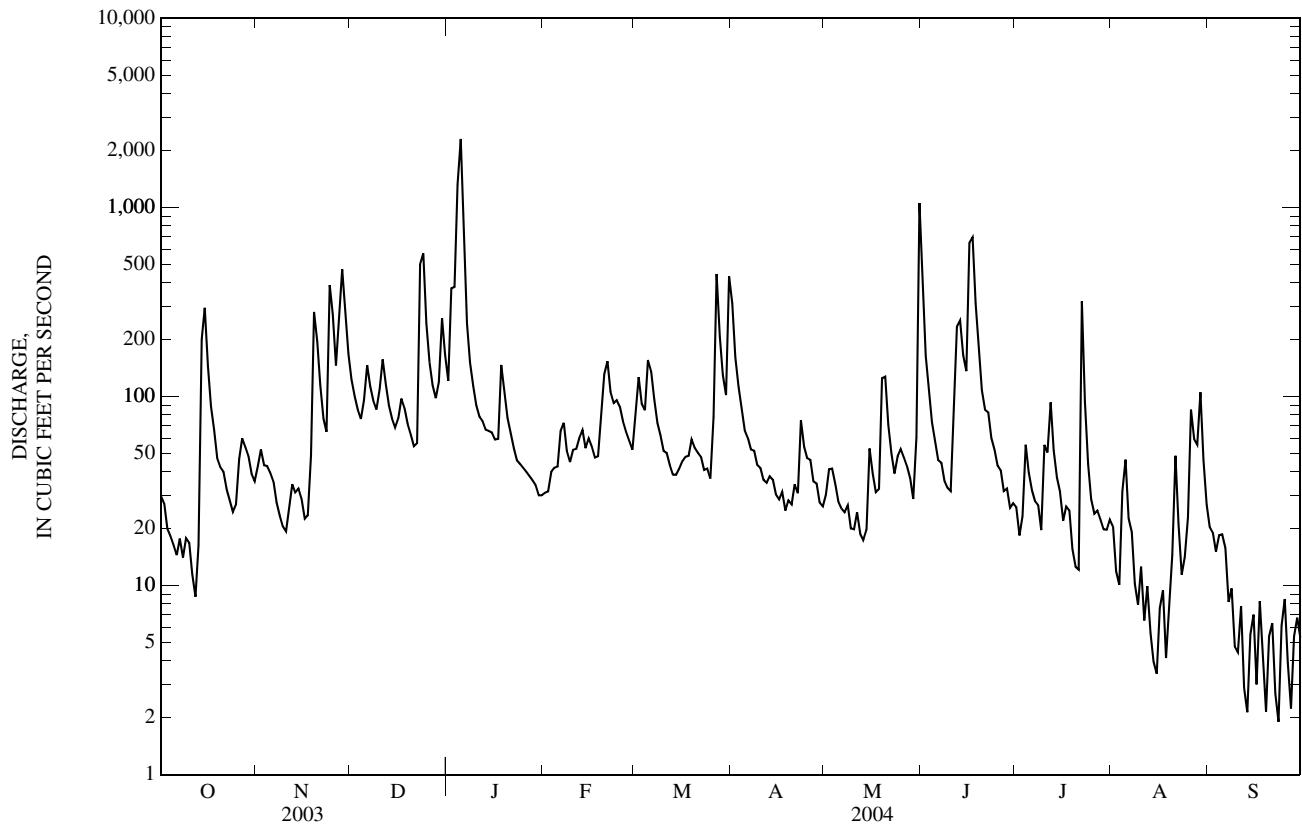
SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1968 - 2004	
ANNUAL TOTAL	43,053.2		31,667.3			
ANNUAL MEAN	118		86.5		93.2	
HIGHEST ANNUAL MEAN					146	2002
LOWEST ANNUAL MEAN					36.7	1977
HIGHEST DAILY MEAN	1,880	Sep 2	2,300	Jan 5	3,570	Nov 14, 1993
LOWEST DAILY MEAN	4.5	Aug 24	1.9	Sep 23	0.60	Oct 1, 1967
ANNUAL SEVEN-DAY MINIMUM	6.4	Aug 21	4.1	Sep 18	0.98	Sep 22, 1999
MAXIMUM PEAK FLOW			3,180	Jan 5	7,140	Jul 20, 1969
MAXIMUM PEAK STAGE			11.60	Jan 5	14.99	Jul 20, 1969
ANNUAL RUNOFF (CFSM)	1.50		1.10		1.18	
ANNUAL RUNOFF (INCHES)	20.32		14.95		16.07	
10 PERCENT EXCEEDS	297		163		206	
50 PERCENT EXCEEDS	48		44		34	
90 PERCENT EXCEEDS	16		10		5.9	

e Estimated

WABASH RIVER BASIN

03361850 BUCK CREEK AT ACTON, IN—Continued



03362000 YOUNGS CREEK NEAR EDINBURGH, IN

LOCATION.--Lat 39°25'08", long 86°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 for estimated daily discharges, 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	61	68	222	162	e29	112	281	43	557	41	41	15
2	51	104	163	331	e30	171	208	83	285	38	25	12
3	46	89	133	541	e35	124	152	74	202	36	19	12
4	45	75	117	2,170	e37	117	117	55	148	55	42	13
5	40	66	138	3,840	41	184	96	47	115	51	60	11
6	35	56	210	946	105	189	87	43	97	44	29	9.3
7	31	51	164	401	129	124	83	37	82	37	19	8.6
8	29	44	134	284	68	100	80	34	72	35	15	8.3
9	27	39	116	227	55	89	71	31	65	35	13	8.2
10	26	37	141	164	71	78	63	30	60	57	12	7.9
11	25	37	193	128	101	73	61	30	66	52	11	7.9
12	23	41	145	120	126	68	58	32	91	38	10	7.6
13	21	39	115	102	132	62	58	31	105	35	9.7	7.4
14	163	34	107	89	91	60	56	32	351	30	9.4	7.3
15	448	34	95	85	175	60	50	59	173	26	8.6	7.0
16	220	36	130	68	107	66	46	68	935	23	8.3	7.6
17	136	36	224	72	91	80	45	53	2,560	22	8.2	8.0
18	102	65	159	334	110	81	44	48	718	21	8.2	7.0
19	84	379	125	223	274	88	41	359	337	19	8.0	6.9
20	71	271	102	121	449	90	45	276	246	17	27	7.1
21	63	163	89	87	479	92	53	164	178	16	67	6.9
22	56	117	88	73	292	76	47	109	146	151	31	6.5
23	50	97	339	e46	271	69	59	85	115	105	19	6.3
24	45	431	538	e40	260	66	56	182	94	49	13	7.0
25	41	376	286	e37	220	63	48	135	83	30	24	6.8
26	108	230	204	e36	168	70	48	119	72	25	36	6.2
27	144	663	158	e34	135	460	41	234	62	24	42	6.5
28	101	755	135	e32	114	283	37	384	56	20	27	6.5
29	84	501	148	e30	104	205	34	209	50	17	34	6.2
30	68	301	317	e28	---	163	34	221	45	18	30	6.6
31	56	---	220	e28	---	203	---	1,730	---	80	22	---
TOTAL	2,500	5,235	5,455	10,879	4,299	3,766	2,199	5,037	8,166	1,247	728.4	244.6
MEAN	80.6	174	176	351	148	121	73.3	162	272	40.2	23.5	8.15
MAX	448	755	538	3,840	479	460	281	1,730	2,560	151	67	15
MIN	21	34	88	28	29	60	34	30	45	16	8.0	6.2
CFSM	0.75	1.63	1.64	3.28	1.39	1.14	0.69	1.52	2.54	0.38	0.22	0.08
IN.	0.87	1.82	1.90	3.78	1.49	1.31	0.76	1.75	2.84	0.43	0.25	0.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2004, BY WATER YEAR (WY)

MEAN	32.5	85.5	120	157	174	207	182	156	104	72.2	29.0	26.4
MAX	359	593	470	837	441	498	516	606	463	492	231	228
(WY)	(2002)	(1994)	(1991)	(1950)	(1971)	(1963)	(1964)	(2002)	(1958)	(1979)	(1979)	(1989)
MIN	1.82	3.91	2.90	3.13	15.1	40.9	28.3	20.7	6.73	2.03	2.43	2.36
(WY)	(1954)	(1954)	(1964)	(1977)	(1954)	(1969)	(1971)	(1988)	(1988)	(1944)	(1954)	(1954)

SUMMARY STATISTICS

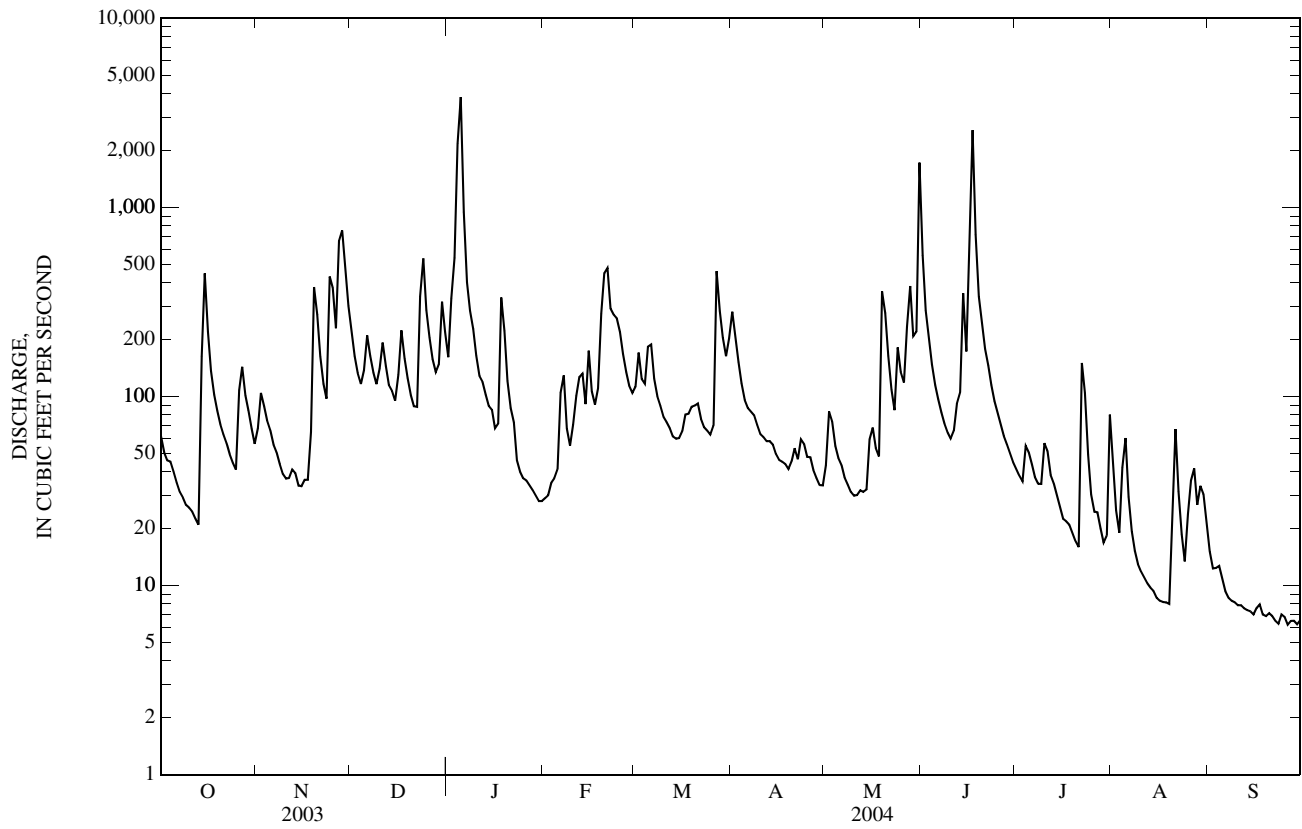
FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1944 - 2004

ANNUAL TOTAL	52,703.2	49,756.0	
ANNUAL MEAN	144	136	112
HIGHEST ANNUAL MEAN			219
LOWEST ANNUAL MEAN			20.3
HIGHEST DAILY MEAN	1,860	Sep 2	3,840
LOWEST DAILY MEAN	8.0	Aug 27	6.2
ANNUAL SEVEN-DAY MINIMUM	9.0	Aug 22	6.5
MAXIMUM PEAK FLOW			4,930
MAXIMUM PEAK STAGE			10.82
ANNUAL RUNOFF (CFSM)	1.35		1.27
ANNUAL RUNOFF (INCHES)	18.32		17.30
10 PERCENT EXCEEDS	323		278
50 PERCENT EXCEEDS	81		66
90 PERCENT EXCEEDS	27		12

e Estimated



03362500 SUGAR CREEK NEAR EDINBURGH, IN

LOCATION.--Lat 39°21'39", long 85°59'51", in SW¹/₄SE¹/₄ 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 Edinburg, 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	333	284	983	815	e240	430	1,710	212	3,380	200	173	129
2	271	403	718	1,160	e270	639	1,080	286	1,510	189	131	110
3	238	382	581	2,050	e290	646	742	310	862	178	113	102
4	220	330	503	4,270	350	563	568	265	603	200	119	94
5	206	303	494	9,370	349	655	458	245	472	237	187	90
6	191	274	772	9,350	408	850	396	222	393	199	161	88
7	180	251	725	e5,380	608	696	366	204	337	181	120	83
8	176	228	600	1,880	499	552	342	191	300	171	108	77
9	166	211	519	1,160	398	467	316	185	267	161	97	72
10	166	201	510	882	396	412	285	175	249	176	92	71
11	164	201	747	741	476	375	271	172	257	211	89	67
12	155	211	706	681	535	354	255	171	706	187	85	67
13	148	217	561	623	582	325	251	166	1,420	211	82	66
14	234	203	481	571	486	311	249	176	1,990	168	80	63
15	1,860	205	425	548	533	307	234	226	1,130	144	76	60
16	1,260	203	426	503	460	316	220	329	2,140	131	74	64
17	878	193	663	479	392	340	214	291	5,850	127	72	65
18	598	210	588	860	390	342	211	248	6,240	143	74	61
19	465	871	498	911	558	364	200	757	2,420	121	73	62
20	375	1,300	418	667	847	393	206	1,190	1,210	109	82	58
21	324	901	362	547	1,150	388	217	787	790	103	160	56
22	293	634	346	488	915	360	221	522	629	557	158	58
23	262	499	720	e400	765	336	248	393	537	773	110	58
24	241	1,080	2,800	e380	729	318	328	428	429	304	92	56
25	227	1,880	1,840	e360	691	307	281	431	363	192	97	54
26	289	1,150	1,140	e330	593	299	268	403	317	156	124	56
27	468	1,740	781	e310	518	1,380	242	490	281	143	214	57
28	414	2,750	629	e290	463	1,490	218	679	252	133	165	53
29	367	2,530	571	e270	429	1,000	206	495	235	122	251	52
30	326	1,470	1,220	e250	---	754	205	593	213	119	288	52
31	285	---	1,100	e240	---	1,010	---	3,350	---	198	176	---
TOTAL	11,780	21,315	23,427	46,766	15,320	16,979	11,008	14,592	35,782	6,244	3,923	2,101
MEAN	380	710	756	1,509	528	548	367	471	1,193	201	127	70.0
MAX	1,860	2,750	2,800	9,370	1,150	1,490	1,710	3,350	6,240	773	288	129
MIN	148	193	346	240	240	299	200	166	213	103	72	52
CFSM	0.80	1.50	1.59	3.18	1.11	1.16	0.77	0.99	2.52	0.42	0.27	0.15
IN.	0.92	1.67	1.84	3.67	1.20	1.33	0.86	1.15	2.81	0.49	0.31	0.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2004, BY WATER YEAR (WY)

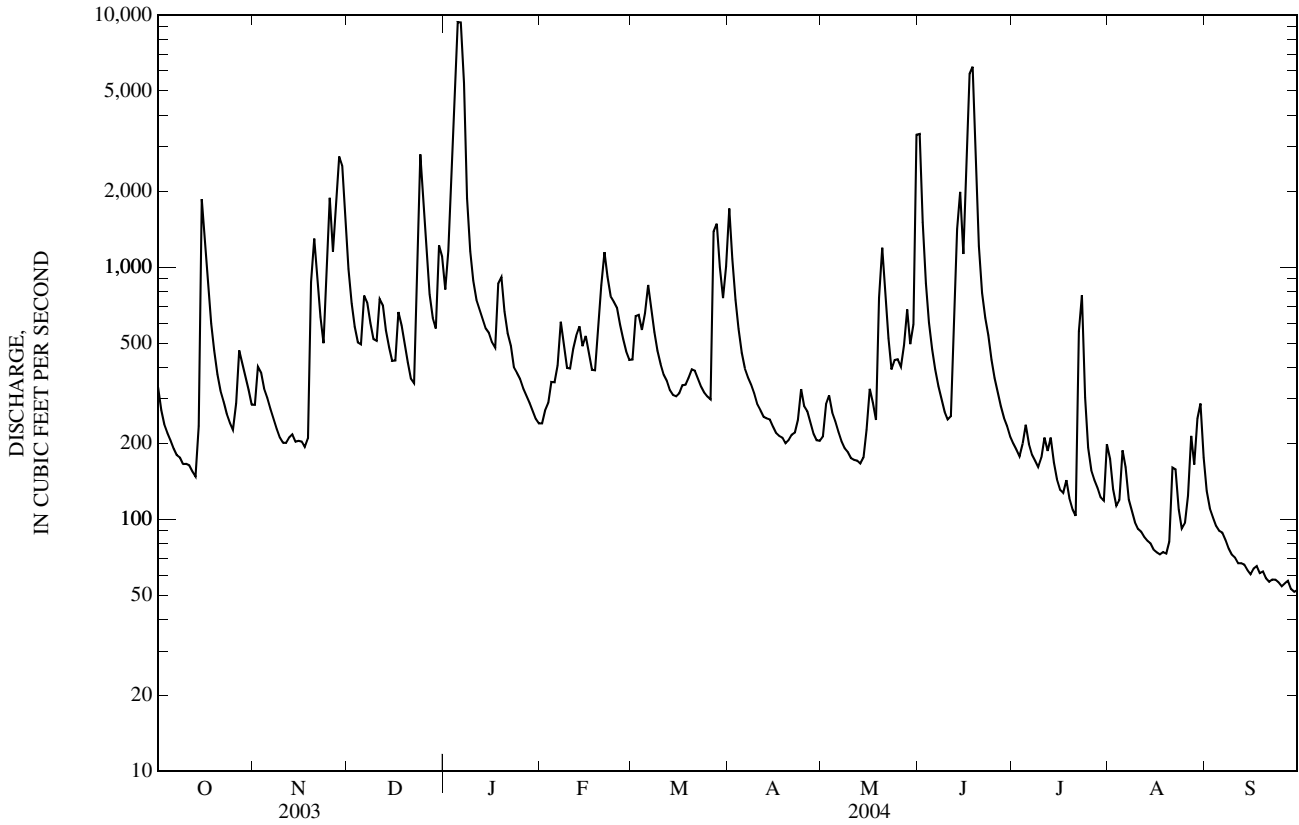
MEAN	152	375	515	704	769	927	834	708	495	329	172	136
MAX	983	2,591	1,742	4,000	2,192	2,281	2,076	2,878	2,381	1,564	1,348	1,295
(WY)	(1987)	(1994)	(1991)	(1950)	(1950)	(1961)	(1964)	(1996)	(1998)	(1979)	(1979)	(1989)
MIN	22.2	33.4	30.4	36.5	74.8	215	170	120	58.7	29.5	25.4	13.4
(WY)	(1945)	(1954)	(1964)	(1977)	(1964)	(1981)	(1971)	(1976)	(1988)	(1954)	(1954)	(1954)

WABASH RIVER BASIN

03362500 SUGAR CREEK NEAR EDINBURGH, IN—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1943 - 2004	
ANNUAL TOTAL	234,917		209,237		508	
ANNUAL MEAN	644		572		849	
HIGHEST ANNUAL MEAN					1950	
LOWEST ANNUAL MEAN					1954	
HIGHEST DAILY MEAN	5,290	Sep 3	9,370	Jan 5	19,200	May 29, 1956
LOWEST DAILY MEAN	86	Aug 27	52	Sep 29	9.2	Sep 18, 1954
ANNUAL SEVEN-DAY MINIMUM	88	Aug 23	54	Sep 24	10	Sep 13, 1954
MAXIMUM PEAK FLOW			10,200	Jan 5	27,600	May 29, 1956
MAXIMUM PEAK STAGE			14.18	Jan 5	18.38	May 29, 1956
ANNUAL RUNOFF (CFSM)	1.36		1.21		1.07	
ANNUAL RUNOFF (INCHES)	18.44		16.42		14.56	
10 PERCENT EXCEEDS	1,430		1,130		1,150	
50 PERCENT EXCEEDS	362		316		215	
90 PERCENT EXCEEDS	157		91		46	

e Estimated



03363500 FLATROCK RIVER AT ST. PAUL, IN

LOCATION.--Lat 39°25'03", long 85°38'03", in SE¼NE¼ sec.9, T.11 N., R.8 E., Shelby County, Hydrologic Unit 05120205, (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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	241	239	885	620	e170	258	632	219	1,950	143	569	51
2	197	382	677	935	e180	387	471	644	1,420	134	225	44
3	170	346	546	2,370	e210	376	371	748	530	125	143	41
4	163	291	471	6,320	e350	332	314	480	384	122	193	41
5	151	257	498	9,820	e320	344	264	362	313	125	360	39
6	133	220	687	4,690	e800	382	236	296	269	118	189	37
7	122	195	607	1,830	e700	323	228	249	231	105	123	e35
8	114	176	505	857	e390	276	220	217	202	98	99	e33
9	107	160	441	668	e290	245	203	198	181	92	86	30
10	105	152	442	527	476	216	180	180	168	92	77	29
11	103	158	695	448	601	199	172	169	183	92	70	28
12	99	195	641	411	543	191	165	160	1,100	87	61	27
13	95	215	482	370	466	174	172	156	2,290	91	56	25
14	235	187	429	337	304	167	188	156	1,330	78	52	24
15	907	173	365	330	334	166	161	175	541	69	49	23
16	761	168	407	297	255	175	149	217	1,170	62	46	22
17	465	158	744	304	211	177	145	204	2,050	103	43	22
18	342	226	589	865	205	168	141	183	2,700	118	41	e22
19	281	1,050	447	607	293	197	135	1,210	1,340	74	40	21
20	231	1,160	361	387	538	253	145	1,360	738	63	45	21
21	200	751	311	321	714	303	156	704	502	57	78	19
22	186	537	299	293	470	265	153	469	422	225	134	18
23	169	421	496	e240	372	226	159	353	370	413	88	17
24	156	706	1,110	e220	375	207	173	307	297	183	71	e16
25	144	877	808	e210	351	192	176	276	279	108	58	e16
26	236	625	559	e200	298	182	180	247	250	90	59	15
27	517	2,350	440	e220	266	241	170	307	209	88	77	15
28	378	3,570	389	e210	239	365	152	344	185	83	72	16
29	304	2,820	419	e200	229	316	138	330	170	77	67	15
30	278	1,430	1,050	e190	---	309	157	297	154	70	64	15
31	236	---	874	e180	---	454	---	1,550	---	481	58	---
TOTAL	7,826	20,195	17,674	35,477	10,950	8,066	6,306	12,767	21,928	3,866	3,393	777
MEAN	252	673	570	1,144	378	260	210	412	731	125	109	25.9
MAX	907	3,570	1,110	9,820	800	454	632	1,550	2,700	481	569	51
MIN	95	152	299	180	170	166	135	156	154	57	40	15
CFSM	0.83	2.22	1.88	3.78	1.25	0.86	0.69	1.36	2.41	0.41	0.36	0.09
IN.	0.96	2.48	2.17	4.36	1.34	0.99	0.77	1.57	2.69	0.47	0.42	0.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2004, BY WATER YEAR (WY)

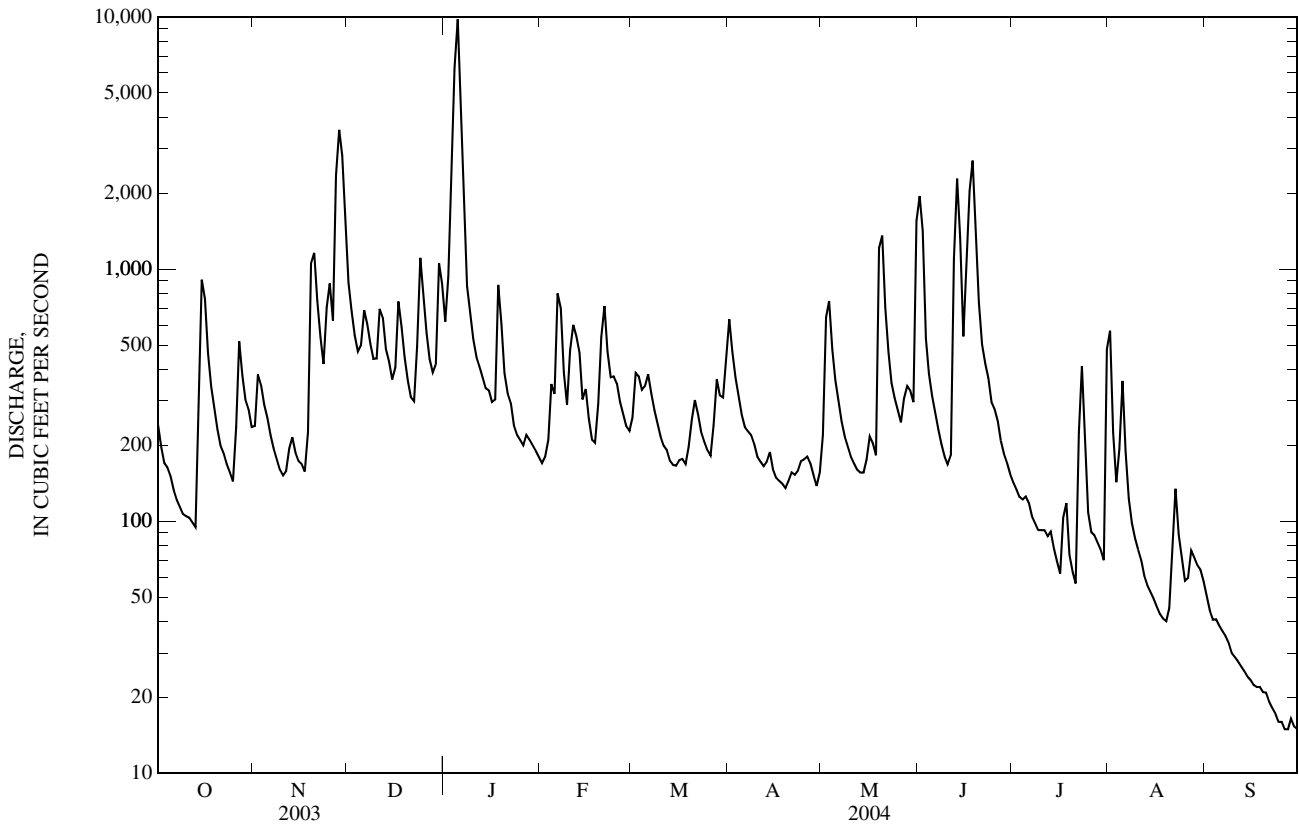
MEAN	92.0	218	348	493	512	579	580	463	306	191	90.8	69.8
MAX	600	1,342	1,567	3,450	1,808	1,605	1,576	1,968	1,502	915	716	447
(WY)	(2002)	(1994)	(1991)	(1937)	(1950)	(1961)	(2002)	(1996)	(1998)	(1979)	(1979)	(2003)
MIN	1.96	6.97	9.98	15.1	27.7	41.8	51.9	42.9	19.7	9.28	4.06	1.36
(WY)	(1964)	(2000)	(1964)	(1977)	(1935)	(1941)	(1941)	(1934)	(1934)	(1936)	(1988)	(1999)

WABASH RIVER BASIN

03363500 FLATROCK RIVER AT ST. PAUL, IN—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1931 - 2004	
ANNUAL TOTAL	161,348		149,225			
ANNUAL MEAN	442		408		328	
HIGHEST ANNUAL MEAN					642	1950
LOWEST ANNUAL MEAN					40.6	1941
HIGHEST DAILY MEAN	3,570	Nov 28	9,820	Jan 5	16,500	Jan 5, 1949
LOWEST DAILY MEAN	38	Aug 27	15	Sep 26	0.60	Aug 7, 1931
ANNUAL SEVEN-DAY MINIMUM	43	Aug 23	e 15	Sep 24	0.80	Oct 12, 1963
MAXIMUM PEAK FLOW			12,500	Jan 5	18,500	Jan 5, 1949
MAXIMUM PEAK STAGE			10.62	Jan 5	12.37	May 24, 1968
ANNUAL RUNOFF (CFSM)	1.46		1.35		1.08	
ANNUAL RUNOFF (INCHES)	19.81		18.32		14.69	
10 PERCENT EXCEEDS	1,040		749		753	
50 PERCENT EXCEEDS	251		220		137	
90 PERCENT EXCEEDS	104		52		16	

e Estimated



03363900 FLATROCK RIVER AT COLUMBUS, IN

LOCATION.--Lat 39°14'06", long 85°55'36", in NE¼SW¼ sec.12, T.9 N., R.5 E., Bartholomew County, Hydrologic Unit 05120205, (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 mi².

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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	420	407	1,510	941	e350	432	742	376	2,510	282	968	99
2	352	499	1,150	1,020	e370	498	702	756	1,980	271	467	95
3	312	594	951	1,800	e400	573	576	1,120	1,270	256	295	91
4	286	519	838	6,710	e720	527	502	853	1,050	253	233	88
5	274	466	789	16,400	e690	515	447	680	928	243	373	84
6	257	423	953	13,800	847	548	409	590	857	237	358	82
7	236	379	966	5,420	1,490	533	391	533	803	228	250	80
8	223	347	845	1,870	848	475	383	498	756	213	197	78
9	212	320	762	1,300	593	437	370	477	717	203	169	77
10	204	299	728	1,050	621	413	351	467	688	201	151	74
11	198	295	896	895	884	390	336	458	713	198	138	71
12	193	331	995	831	879	378	328	451	942	191	127	71
13	186	354	824	785	831	365	326	451	1,920	183	120	70
14	202	353	738	724	656	352	338	459	2,360	184	113	69
15	619	325	677	690	607	347	330	488	1,310	170	108	68
16	962	316	635	655	565	352	310	575	1,670	162	104	67
17	711	307	1,000	618	471	358	301	600	3,440	161	99	65
18	554	312	974	1,040	437	355	294	570	3,650	177	95	63
19	464	969	798	1,180	458	355	286	1,440	2,550	189	93	62
20	409	1,530	682	820	603	387	289	2,060	1,270	159	94	61
21	362	1,160	598	680	881	419	296	1,430	832	149	99	59
22	333	863	563	615	809	423	300	1,080	656	184	115	59
23	314	718	612	e520	636	394	298	909	581	313	145	58
24	292	871	1,250	e480	613	372	299	813	493	403	121	57
25	279	1,310	1,210	e440	599	359	310	785	432	270	109	56
26	312	1,030	907	e420	543	350	314	756	416	216	105	55
27	632	1,560	753	e440	494	361	313	800	379	194	101	55
28	675	6,230	673	e420	456	450	298	1,080	347	183	111	54
29	552	5,760	635	e400	431	482	287	988	321	173	113	54
30	477	2,750	1,010	e380	---	451	304	931	300	170	106	53
31	434	---	1,220	e370	---	504	---	1,790	---	742	102	---
TOTAL	11,936	31,597	27,142	63,714	18,782	13,155	11,030	25,264	36,141	7,158	5,779	2,075
MEAN	385	1,053	876	2,055	648	424	368	815	1,205	231	186	69.2
MAX	962	6,230	1,510	16,400	1,490	573	742	2,060	3,650	742	968	99
MIN	186	295	563	370	350	347	286	376	300	149	93	53
CFSM	0.72	1.97	1.64	3.85	1.21	0.79	0.69	1.53	2.26	0.43	0.35	0.13
IN.	0.83	2.20	1.89	4.44	1.31	0.92	0.77	1.76	2.52	0.50	0.40	0.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2004, BY WATER YEAR (WY)

MEAN	191	445	684	756	906	942	994	939	628	396	242	153
MAX	912	2,336	2,092	2,055	2,524	2,223	2,301	3,871	2,728	1,556	1,296	837
(WY)	(1994)	(1994)	(1991)	(2004)	(1982)	(1978)	(1996)	(1996)	(1998)	(1979)	(1979)	(1989)
MIN	25.6	30.2	44.8	30.6	189	204	251	132	77.2	50.8	35.0	17.0
(WY)	(2000)	(2000)	(1977)	(1977)	(1992)	(1992)	(1976)	(1976)	(1988)	(1988)	(1988)	(1999)

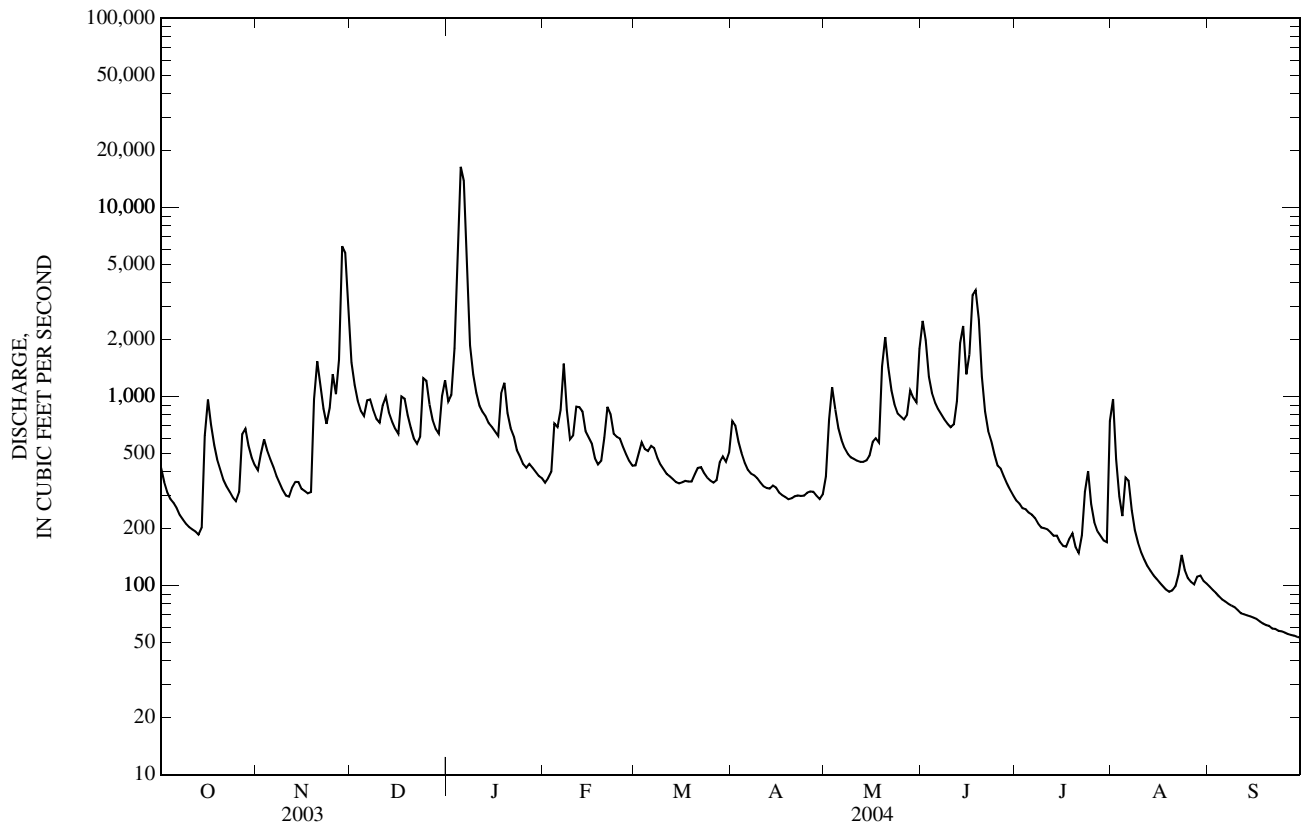
SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1968 - 2004
ANNUAL TOTAL	249,803	253,773	
ANNUAL MEAN	684	693	605
HIGHEST ANNUAL MEAN			949
LOWEST ANNUAL MEAN			271
HIGHEST DAILY MEAN	6,230	Nov 28	16,400
LOWEST DAILY MEAN	121	Aug 29	53
ANNUAL SEVEN-DAY MINIMUM	129	Aug 24	55
MAXIMUM PEAK FLOW			18,900
MAXIMUM PEAK STAGE			15.42
ANNUAL RUNOFF (CFSM)	1.28		1.30
ANNUAL RUNOFF (INCHES)	17.40		17.68
10 PERCENT EXCEEDS	1,360	1,130	1,310
50 PERCENT EXCEEDS	466	432	320
90 PERCENT EXCEEDS	230	102	60

e Estimated

WABASH RIVER BASIN

03363900 FLATROCK RIVER AT COLUMBUS, IN—Continued



WABASH RIVER BASIN

03364000 EAST FORK WHITE RIVER AT COLUMBUS, IN—Continued

WABASH RIVER BASIN

03364000 EAST FORK WHITE RIVER AT COLUMBUS, IN

LOCATION.--Lat 39°12'00", long 85°55'32", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,570	1,370	5,070	3,450	e1,000	1,710	4,120	1,340	9,330	1,060	2,110	487
2	1,320	1,550	3,730	3,670	e1,100	2,000	3,550	2,150	6,350	1,010	1,380	429
3	1,150	1,790	3,060	6,740	e1,200	2,380	2,710	2,680	3,450	953	975	402
4	1,040	1,650	2,660	14,100	1,850	2,230	2,240	2,210	2,470	990	801	383
5	983	1,500	2,530	31,400	1,900	2,200	1,920	1,790	2,000	1,030	1,040	363
6	921	1,370	2,980	34,700	2,130	2,560	1,700	1,550	1,710	960	1,140	361
7	844	1,280	3,220	22,300	3,580	2,440	1,590	1,350	1,510	881	830	348
8	785	1,180	2,820	11,000	2,680	2,090	1,510	1,210	1,370	811	662	337
9	738	1,080	2,510	5,190	1,990	1,840	1,430	1,110	1,240	767	570	325
10	707	1,020	2,400	3,800	1,880	1,680	1,320	1,040	1,140	800	514	317
11	683	994	2,840	3,120	2,360	1,540	1,250	966	1,180	817	473	310
12	656	1,240	3,260	2,810	2,510	1,460	1,190	919	2,120	762	441	306
13	626	1,150	2,750	2,590	2,560	1,370	1,160	885	5,940	765	415	300
14	721	1,140	2,410	2,380	2,220	1,300	1,170	912	8,110	733	398	297
15	2,940	1,080	2,200	2,240	2,040	1,270	1,140	1,140	5,330	647	389	288
16	4,540	1,050	2,140	2,110	1,960	1,300	1,070	1,400	5,070	593	374	287
17	3,230	1,010	3,010	1,980	1,650	1,350	1,020	1,370	10,500	596	360	284
18	2,360	1,120	3,040	2,900	1,540	1,380	990	1,210	13,200	600	354	274
19	1,920	2,870	2,570	3,840	1,720	1,390	956	2,860	12,200	594	353	271
20	1,660	5,030	2,210	2,770	2,420	1,520	982	4,940	5,770	527	360	263
21	1,460	4,020	1,970	2,260	3,650	1,610	999	3,700	3,500	487	431	261
22	1,330	2,960	1,830	2,040	3,430	1,620	1,010	2,560	2,800	670	642	260
23	1,230	2,390	2,080	1,760	2,700	1,490	1,040	2,000	2,460	2,070	587	257
24	1,140	2,940	5,460	e1,600	2,520	1,390	1,240	1,700	2,070	1,760	470	257
25	1,080	5,350	5,930	e1,500	2,440	1,340	1,280	1,690	1,790	1,100	432	256
26	1,190	4,310	4,040	e1,400	2,210	1,290	1,240	1,580	1,630	846	449	251
27	1,850	5,690	3,020	e1,300	2,000	2,070	1,160	1,730	1,470	733	563	248
28	2,020	11,500	2,570	e1,200	1,810	3,570	1,040	2,270	1,320	675	627	248
29	1,770	12,300	2,370	e1,100	1,700	2,890	964	1,990	1,230	623	635	245
30	1,590	8,900	3,400	e1,050	---	2,370	1,130	2,120	1,130	583	785	237
31	1,460	---	4,410	e1,000	---	2,390	---	5,420	---	1,450	599	---
TOTAL	45,514	90,834	94,490	179,300	62,750	57,040	44,121	59,792	119,390	26,893	20,159	9,152
MEAN	1,468	3,028	3,048	5,784	2,164	1,840	1,471	1,929	3,980	868	650	305
MAX	4,540	12,300	5,930	34,700	3,650	3,570	4,120	5,420	13,200	2,070	2,110	487
MIN	626	994	1,830	1,000	1,000	1,270	956	885	1,130	487	353	237
CFSM	0.86	1.77	1.79	3.39	1.27	1.08	0.86	1.13	2.33	0.51	0.38	0.18
IN.	0.99	1.98	2.06	3.91	1.37	1.24	0.96	1.30	2.60	0.59	0.44	0.20

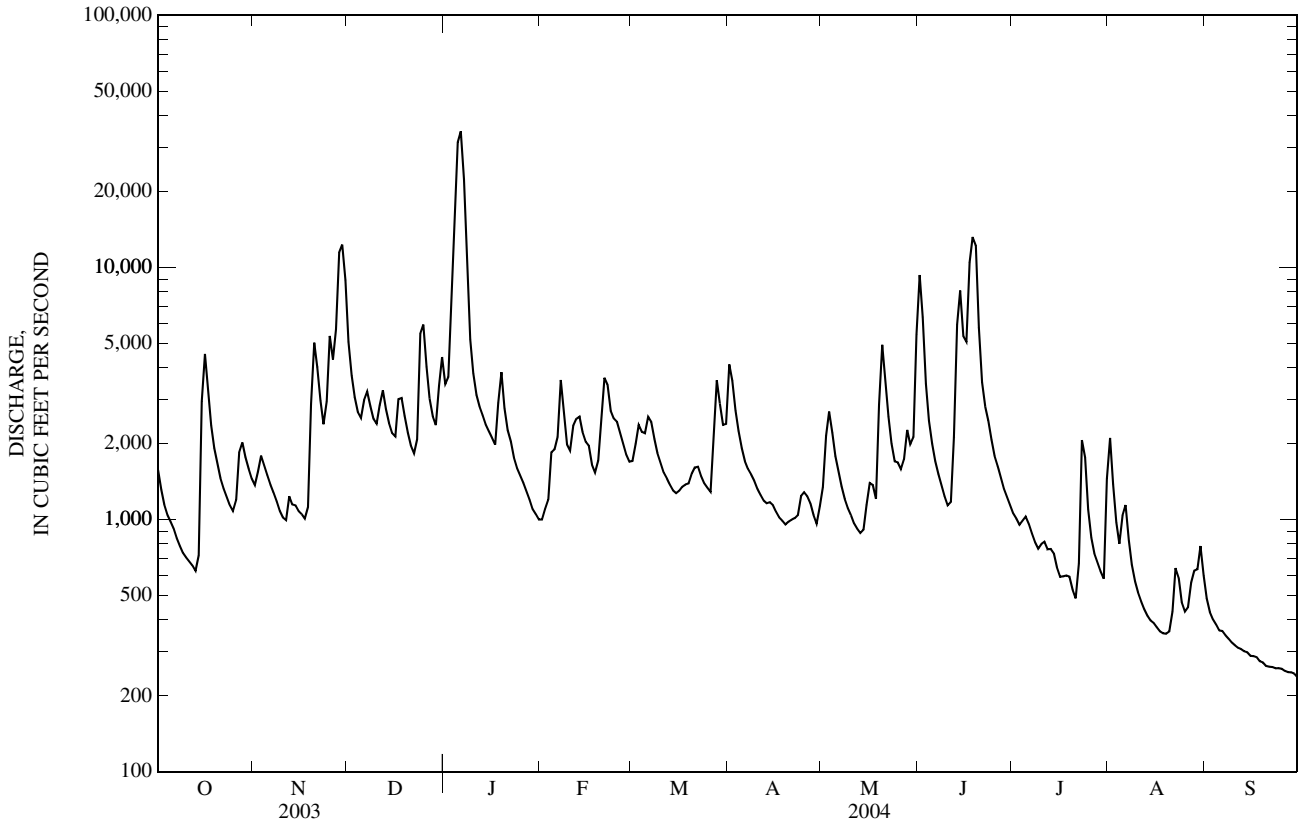
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2004, BY WATER YEAR (WY)

MEAN	637	1,365	2,002	2,634	2,932	3,203	3,063	2,637	1,820	1,309	743	551
MAX	4,096	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)	(1958)	(1979)	(1989)
MIN	104	172	191	163	342	829	852	532	325	161	136	101
(WY)	(1995)	(1955)	(1964)	(1977)	(1964)	(1954)	(1971)	(1976)	(1988)	(1954)	(1954)	(1954)

03364000 EAST FORK WHITE RIVER AT COLUMBUS, IN—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1949 - 2004	
ANNUAL TOTAL	888,391		809,435			
ANNUAL MEAN	2,434		2,212		1,903	
HIGHEST ANNUAL MEAN					3,304	
LOWEST ANNUAL MEAN					534	
HIGHEST DAILY MEAN	12,300	Nov 29	34,700	Jan 6	49,000	Mar 6, 1963
LOWEST DAILY MEAN	378	Aug 28	237	Sep 30	85	Sep 22, 1994
ANNUAL SEVEN-DAY MINIMUM	405	Aug 24	249	Sep 24	90	Sep 28, 1954
MAXIMUM PEAK FLOW			37,900		52,300	
MAXIMUM PEAK STAGE			13.79		16.23	
ANNUAL RUNOFF (CFSM)	1.43		1.30		1.11	
ANNUAL RUNOFF (INCHES)	19.36		17.64		15.14	
10 PERCENT EXCEEDS	5,390		3,750		4,260	
50 PERCENT EXCEEDS	1,590		1,460		994	
90 PERCENT EXCEEDS	731		425		253	

e Estimated



03364500 CLIFTY CREEK AT HARTSVILLE, IN

LOCATION.--Lat 39°16'29", long 85°42'06", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	25	169	159	e35	67	158	70	283	18	12	3.1
2	17	27	122	508	e39	91	108	365	150	16	12	2.7
3	15	33	101	1,550	297	79	84	256	101	16	7.2	2.3
4	14	30	89	4,690	259	81	70	141	80	15	8.0	2.1
5	13	28	103	4,610	145	105	58	104	67	14	32	1.9
6	12	26	152	514	595	106	52	82	59	13	23	1.5
7	10	23	120	258	333	81	51	69	52	11	12	1.2
8	9.2	21	100	174	108	68	50	59	46	9.8	7.2	1.1
9	8.6	19	91	134	83	60	45	54	42	12	5.2	1.2
10	8.7	18	109	104	195	54	41	49	39	17	4.2	1.1
11	8.5	19	181	91	300	50	39	46	39	12	3.2	1.0
12	9.7	265	142	86	233	49	38	44	77	9.8	2.6	1.1
13	10	148	108	76	175	44	43	42	62	12	2.2	1.1
14	36	79	96	70	93	42	79	41	60	14	2.0	1.0
15	200	64	83	70	125	42	67	46	52	11	1.9	0.96
16	88	60	124	60	71	44	52	52	229	8.8	1.9	0.94
17	51	51	303	66	63	47	47	48	391	8.1	1.6	0.88
18	36	134	165	395	66	45	43	127	148	9.9	1.4	0.86
19	30	960	119	171	99	50	41	720	88	7.9	1.3	0.78
20	26	412	94	100	151	55	42	812	65	6.6	2.6	0.73
21	23	208	79	86	210	52	44	275	53	6.3	4.1	0.67
22	22	138	79	72	117	45	43	160	47	49	4.5	0.61
23	21	105	184	48	108	42	45	112	39	90	3.6	0.52
24	20	284	378	e47	109	41	50	85	34	44	2.8	0.47
25	18	226	187	e44	96	39	46	74	30	17	4.5	0.41
26	28	140	128	e43	80	38	48	72	28	12	5.2	0.35
27	56	893	105	e41	70	44	43	117	25	11	3.5	0.31
28	47	1,080	96	e39	62	44	39	470	23	9.4	9.3	0.25
29	37	490	129	e36	60	45	35	193	21	7.7	14	0.21
30	30	260	500	e33	---	47	42	165	19	6.5	6.4	0.16
31	25	---	245	e33	---	150	---	799	---	7.0	4.4	---
TOTAL	951.7	6,266	4,681	14,408	4,377	1,847	1,643	5,749	2,449	501.8	205.8	31.51
MEAN	30.7	209	151	465	151	59.6	54.8	185	81.6	16.2	6.64	1.05
MAX	200	1,080	500	4,690	595	150	158	812	391	90	32	3.1
MIN	8.5	18	79	33	35	38	35	41	19	6.3	1.3	0.16
CFSM	0.34	2.29	1.65	5.09	1.65	0.65	0.60	2.03	0.89	0.18	0.07	0.01
IN.	0.39	2.55	1.91	5.86	1.78	0.75	0.67	2.34	1.00	0.20	0.08	0.01

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

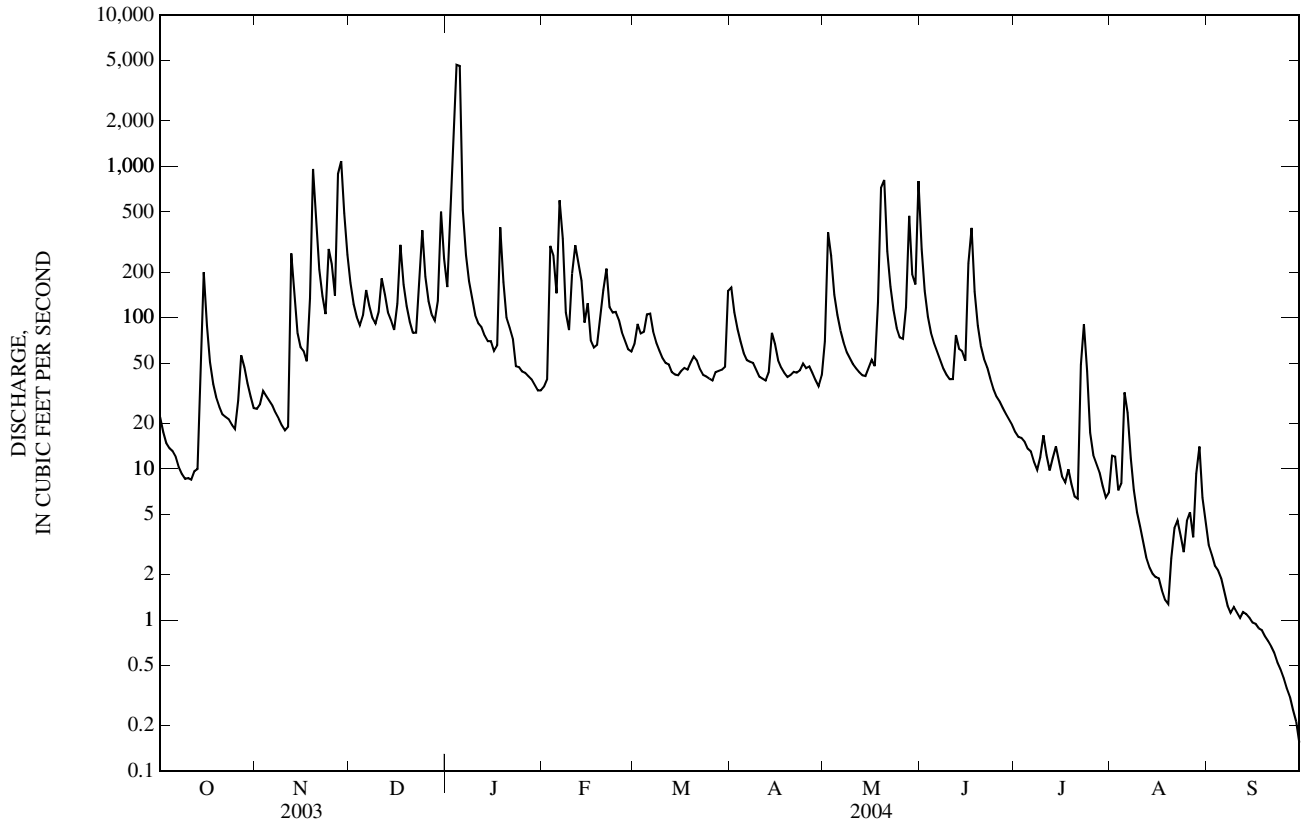
MEAN	25.7	73.1	119	160	164	178	158	141	83.5	55.4	30.4	18.2
MAX	196	431	515	874	551	465	572	482	487	242	264	261
(WY)	(2002)	(1986)	(1991)	(1949)	(1950)	(1961)	(1996)	(1996)	(1998)	(1992)	(1995)	(1974)
MIN	0.00	0.00	0.13	1.47	7.17	21.1	17.7	10.9	1.16	0.00	0.00	0.00
(WY)	(1954)	(1954)	(1954)	(1977)	(1954)	(1954)	(1976)	(1976)	(1988)	(1954)	(1954)	(1953)

WABASH RIVER BASIN

03364500 CLIFTY CREEK AT HARTSVILLE, IN—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1949 - 2004	
ANNUAL TOTAL	43,565.1		43,110.81		100	
ANNUAL MEAN	119		118		197	
HIGHEST ANNUAL MEAN					1950	
LOWEST ANNUAL MEAN					1954	
HIGHEST DAILY MEAN	1,860	Jun 15	4,690	Jan 4	6,230	Apr 29, 1996
LOWEST DAILY MEAN	4.3	Aug 28	0.16	Sep 30	0.00	Oct 14, 1948
ANNUAL SEVEN-DAY MINIMUM	4.9	Aug 24	0.31	Sep 24	0.00	Sep 2, 1951
MAXIMUM PEAK FLOW			8,330	Jan 4	11,300	Jan 21, 1959
MAXIMUM PEAK STAGE			12.32	Jan 4	14.29	Jan 21, 1959
ANNUAL RUNOFF (CFSM)	1.31		1.29		1.10	
ANNUAL RUNOFF (INCHES)	17.73		17.55		14.90	
10 PERCENT EXCEEDS	253		215		220	
50 PERCENT EXCEEDS	51		47		33	
90 PERCENT EXCEEDS	12		2.6		0.90	

e Estimated



03365500 EAST FORK WHITE RIVER AT SEYMOUR, IN

LOCATION.--Lat 38°58'57", long 85°53'57", in NW¹/₄NE¹/₄ sec.7, T.6 N., R.6 E., Jackson County, Hydrologic Unit 05120206, (SEYMOUR, IN quadrangle), on left bank 1,700 ft downstream from county road 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,970	1,460	9,420	5,510	e1,100	2,000	4,730	2,110	8,390	1,790	2,340	796
2	1,600	1,420	6,240	5,680	e1,300	2,210	5,070	7,480	8,940	1,690	2,270	703
3	1,350	1,720	4,830	7,550	1,830	2,660	3,850	5,980	6,630	1,670	1,600	677
4	1,210	1,760	4,050	18,200	3,190	3,030	3,020	4,260	4,330	1,570	1,250	636
5	1,110	1,610	3,680	54,800	2,900	3,180	2,510	3,230	3,330	1,590	1,180	594
6	1,050	1,460	4,010	47,700	4,020	3,220	2,140	2,640	2,780	1,590	1,570	576
7	984	1,340	4,480	36,300	6,560	3,170	1,920	2,210	2,410	1,460	1,340	559
8	923	1,230	4,120	25,100	4,950	2,700	1,810	1,900	2,120	1,340	1,070	537
9	872	1,130	3,620	11,100	3,190	2,340	1,680	1,690	1,900	1,300	943	518
10	839	1,060	3,390	6,380	3,000	2,040	1,520	1,530	1,730	1,280	863	501
11	805	1,010	3,980	4,920	4,230	1,850	1,390	1,400	1,630	1,800	807	487
12	772	2,360	4,530	4,130	4,330	1,710	1,290	1,310	2,600	1,420	761	474
13	740	3,050	4,070	3,680	4,000	1,590	1,250	1,240	7,310	1,270	723	464
14	786	1,860	3,490	3,290	3,440	1,490	1,750	1,220	7,240	1,270	695	457
15	1,910	1,550	3,130	3,010	2,930	1,420	1,790	1,340	8,030	1,190	672	446
16	4,570	1,460	2,950	2,820	2,800	1,430	1,410	1,720	8,850	1,080	649	435
17	4,270	1,340	4,570	2,610	2,360	1,540	1,240	1,840	8,300	1,090	629	426
18	3,110	1,410	4,730	3,160	2,070	1,570	1,150	1,780	10,700	1,030	615	415
19	2,410	6,550	3,970	5,500	2,070	1,550	1,070	2,310	15,000	1,040	596	404
20	1,980	8,220	3,310	4,270	2,630	1,590	1,060	6,170	14,400	973	636	399
21	1,700	6,570	2,840	3,170	4,240	1,690	1,150	6,020	6,810	907	628	394
22	1,470	4,800	2,600	2,710	4,760	1,700	1,160	4,270	6,340	919	734	388
23	1,330	3,630	2,670	2,340	3,760	1,590	1,300	3,180	4,660	1,800	837	383
24	1,210	4,030	5,360	2,080	3,270	1,460	1,370	2,550	3,720	2,480	754	379
25	1,140	6,360	7,230	2,050	3,110	1,370	1,480	2,320	3,130	1,860	690	376
26	1,180	6,310	6,330	1,770	2,860	1,300	1,670	2,190	2,780	1,380	713	370
27	1,720	5,790	4,650	1,880	2,550	1,360	1,420	4,030	2,520	1,180	762	366
28	2,280	12,100	3,730	1,910	2,290	3,050	1,220	5,120	2,270	1,070	894	361
29	2,090	19,100	3,320	1,700	2,080	3,390	1,080	4,610	2,080	1,010	1,050	357
30	1,820	15,300	5,500	1,550	---	2,840	1,140	3,460	1,930	948	1,100	354
31	1,620	---	6,360	e1,200	---	3,240	---	5,690	---	1,120	965	---
TOTAL	50,821	126,990	137,160	278,070	91,820	65,280	54,640	96,800	162,860	42,117	30,336	14,232
MEAN	1,639	4,233	4,425	8,970	3,166	2,106	1,821	3,123	5,429	1,359	979	474
MAX	4,570	19,100	9,420	54,800	6,560	3,390	5,070	7,480	15,000	2,480	2,340	796
MIN	740	1,010	2,600	1,200	1,100	1,300	1,060	1,220	1,630	907	596	354
CFSM	0.70	1.81	1.89	3.83	1.35	0.90	0.78	1.33	2.32	0.58	0.42	0.20
IN.	0.81	2.02	2.18	4.42	1.46	1.04	0.87	1.54	2.59	0.67	0.48	0.23

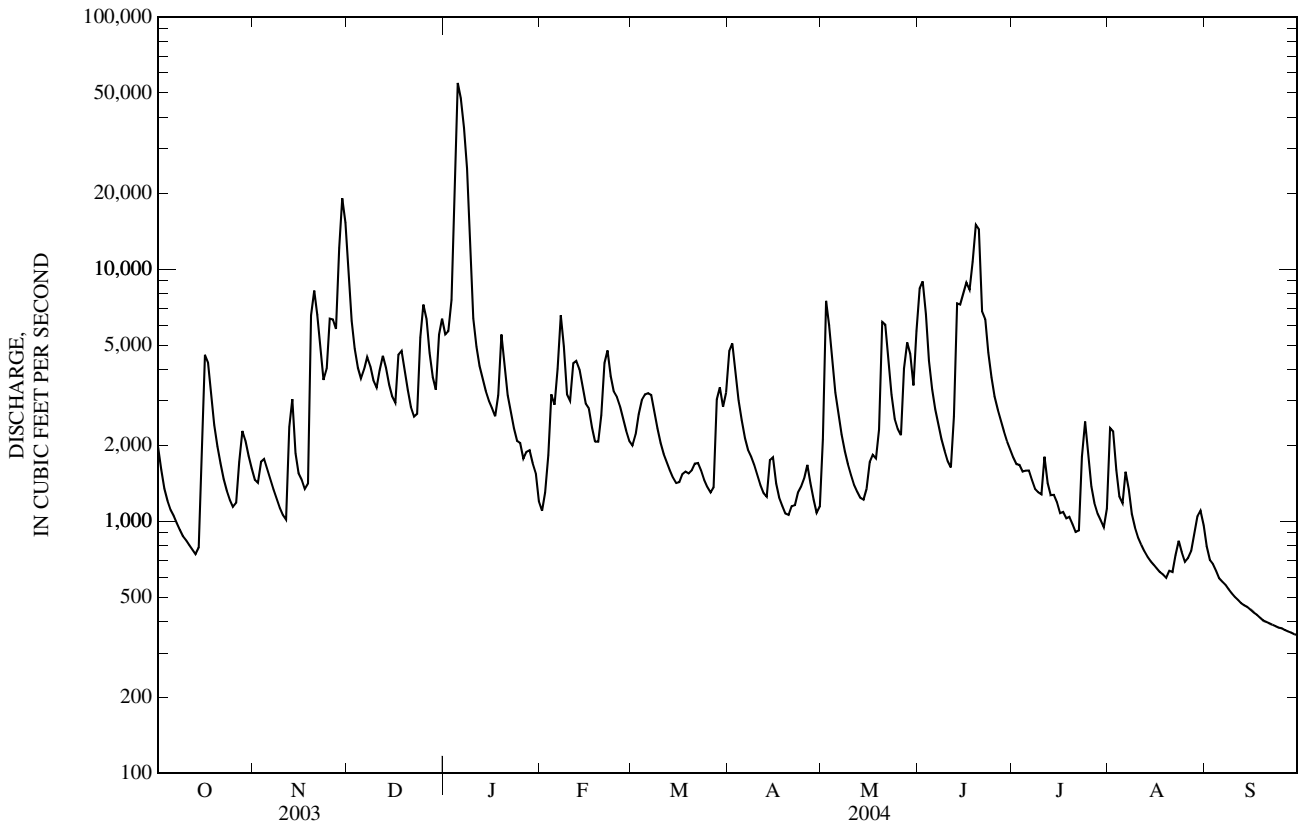
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2004, BY WATER YEAR (WY)

MEAN	819	1,650	2,624	3,831	3,936	4,514	4,332	3,614	2,417	1,633	956	671
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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1928 - 2004	
ANNUAL TOTAL	1,254,410		1,151,126			
ANNUAL MEAN	3,437		3,145		2,576	
HIGHEST ANNUAL MEAN					4,870	2002
LOWEST ANNUAL MEAN					287	1941
HIGHEST DAILY MEAN	27,700	Jul 11	54,800	Jan 5	63,500	Jan 6, 1949
LOWEST DAILY MEAN	540	Aug 29	354	Sep 30	86	Sep 28, 1941
ANNUAL SEVEN-DAY MINIMUM	572	Aug 24	366	Sep 24	93	Sep 25, 1941
MAXIMUM PEAK FLOW			62,400	Jan 5	78,500	Jan 5, 1949
MAXIMUM PEAK STAGE			19.02	Jan 5	19.67	Jan 5, 1949
ANNUAL RUNOFF (CFSM)	1.47		1.34		1.10	
ANNUAL RUNOFF (INCHES)	19.93		18.29		14.95	
10 PERCENT EXCEEDS	7,220		6,190		5,860	
50 PERCENT EXCEEDS	2,240		1,840		1,250	
90 PERCENT EXCEEDS	977		694		302	

e Estimated



03366500 MUSCATATUCK RIVER NEAR DEPUTY, IN

LOCATION.--Lat 38°48'15", long 85°40'26", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ 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 good except for estimated daily discharges, which are poor.

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

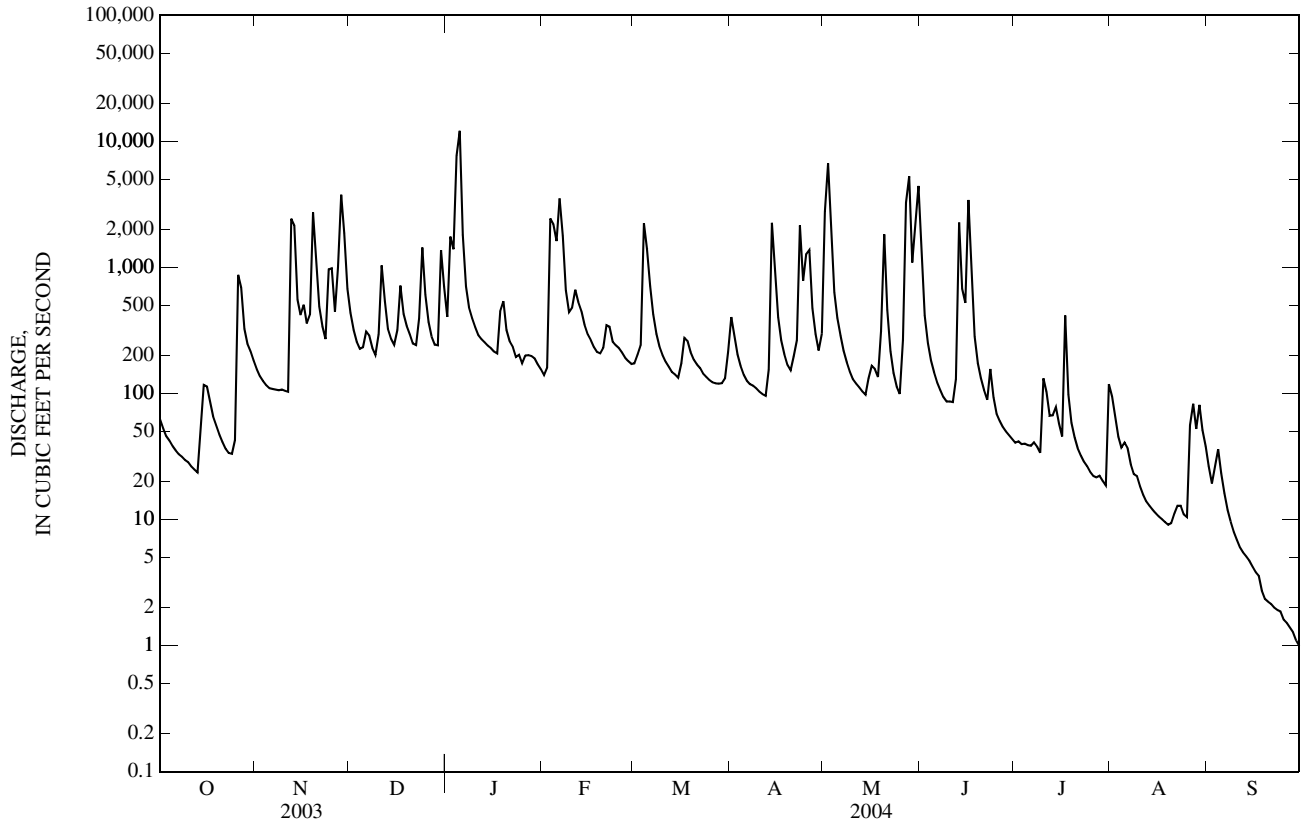
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	156	436	405	e140	174	404	2,770	1,210	41	95	26
2	53	137	319	1,760	e160	204	287	6,710	416	42	67	19
3	46	125	258	1,390	2,450	242	204	1,950	251	40	45	26
4	42	117	227	7,700	2,210	2,240	166	636	184	40	37	36
5	38	110	233	12,100	1,620	1,410	141	397	147	39	41	23
6	35	109	311	1,810	3,540	712	126	287	123	38	37	16
7	33	108	289	706	1,780	426	119	219	106	41	27	12
8	32	106	230	482	661	298	115	177	94	38	23	9.7
9	30	108	203	394	443	236	110	150	86	34	22	8.0
10	29	105	295	336	480	201	104	130	87	132	18	6.9
11	26	103	1,040	290	666	179	99	120	86	103	16	6.0
12	25	2,440	541	270	531	163	96	112	130	67	14	5.5
13	24	2,160	326	254	449	148	155	104	2,270	67	13	5.1
14	51	555	272	240	351	142	2,260	98	677	78	12	4.7
15	117	420	243	229	294	133	952	132	524	58	11	4.2
16	114	506	319	215	266	174	402	166	3,430	46	11	3.8
17	87	359	719	208	233	276	265	157	780	416	10	3.6
18	65	423	428	449	213	261	204	135	284	98	9.6	2.7
19	56	2,730	346	540	208	213	169	314	174	59	9.1	2.3
20	47	1,160	296	319	230	186	153	1,830	133	45	9.4	2.2
21	41	488	249	259	348	170	197	461	107	37	11	2.1
22	36	340	242	234	338	160	264	217	89	32	13	2.0
23	34	271	396	195	258	144	2,160	146	156	29	13	1.9
24	33	964	1,440	203	242	136	785	113	93	26	11	1.9
25	43	986	608	173	229	128	1,270	99	69	24	10	1.6
26	875	446	370	200	212	123	1,370	266	61	22	56	1.5
27	692	1,010	283	201	192	120	475	3,260	54	22	83	1.4
28	326	3,780	245	198	181	120	295	5,290	50	22	52	1.3
29	249	1,870	241	190	171	121	219	1,090	47	20	81	1.1
30	216	676	1,370	e170	---	132	298	2,350	44	19	51	0.99
31	183	---	706	e156	---	213	---	4,440	---	119	38	---
TOTAL	3,741	22,868	13,481	32,276	19,096	9,585	13,864	34,326	11,962	1,894	946.1	238.49
MEAN	121	762	435	1,041	658	309	462	1,107	399	61.1	30.5	7.95
MAX	875	3,780	1,440	12,100	3,540	2,240	2,260	6,710	3,430	416	95	36
MIN	24	103	203	156	140	120	96	98	44	19	9.1	0.99
CFSM	0.41	2.60	1.48	3.55	2.25	1.06	1.58	3.78	1.36	0.21	0.10	0.03
IN.	0.47	2.90	1.71	4.10	2.42	1.22	1.76	4.36	1.52	0.24	0.12	0.03

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

	75.5	259	457	613	640	701	579	496	252	156	92.8	65.8
MEAN	912	1,438	1,723	2,896	1,826	2,055	1,957	1,967	1,552	661	748	480
(WY)	(2002)	(1980)	(1991)	(1950)	(1950)	(1964)	(1996)	(1983)	(1997)	(1958)	(1992)	(1974)
MIN	0.00	0.15	0.21	9.24	18.1	65.2	68.8	23.8	9.46	0.42	0.00	0.00
(WY)	(1954)	(1964)	(1964)	(1977)	(1954)	(1954)	(2001)	(1976)	(1988)	(1954)	(1954)	(1954)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1949 - 2004	
ANNUAL TOTAL	178,760		164,277.59			
ANNUAL MEAN	490		449		364	
HIGHEST ANNUAL MEAN					687	
LOWEST ANNUAL MEAN					25.3	
HIGHEST DAILY MEAN	7,770	May 10	12,100	Jan 5	32,400	Jan 21, 1959
LOWEST DAILY MEAN	17	Aug 26	0.99	Sep 30	0.00	Oct 1, 1948
ANNUAL SEVEN-DAY MINIMUM	22	Aug 20	1.4	Sep 24	0.00	Oct 1, 1948
MAXIMUM PEAK FLOW			19,900		52,200	
MAXIMUM PEAK STAGE			25.82		34.27	
ANNUAL RUNOFF (CFSM)	1.67		1.53		1.24	
ANNUAL RUNOFF (INCHES)	22.70		20.86		16.89	
10 PERCENT EXCEEDS	973		1,060		760	
50 PERCENT EXCEEDS	225		162		80	
90 PERCENT EXCEEDS	48		13		3.6	

e Estimated



03368000 BRUSH CREEK NEAR NEBRASKA, IN

LOCATION.--Lat 39°04'13", long 85°29'10" in NW $\frac{1}{4}$ NE $\frac{1}{4}$ 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 those for Apr. 1-6 and 14-22 and estimated daily discharges and below 2.5 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	0.38	0.94	10	11	3.1	8.7	17	110	11	0.38	0.61	0.26
2	0.36	0.84	7.8	114	6.6	9.9	10	160	6.4	0.34	0.25	0.20
3	0.41	0.77	6.5	28	e105	7.7	7.5	25	4.6	0.31	0.16	0.18
4	0.50	0.72	5.8	752	e28	e56	5.8	14	3.8	0.28	1.6	0.18
5	0.46	0.69	11	155	e52	29	4.9	11	3.2	0.29	0.55	e0.17
6	0.43	0.91	11	26	e120	17	4.2	7.8	2.7	0.32	0.19	e0.15
7	0.41	1.1	7.3	14	e26	12	4.0	5.7	2.4	0.35	0.12	e0.14
8	0.37	0.83	5.8	11	e12	8.7	4.0	4.5	2.1	0.23	0.09	e0.12
9	0.35	0.79	5.1	9.6	e17	e7.0	3.4	3.6	2.2	1.9	0.07	e0.10
10	0.35	0.77	19	7.3	e32	e6.2	3.1	3.1	2.5	0.98	0.06	0.08
11	0.35	1.8	23	6.6	22	5.4	3.2	2.9	2.0	0.36	0.04	0.08
12	0.35	130	e18	6.2	16	4.7	3.0	2.4	344	0.30	0.03	0.07
13	0.35	16	e13	5.6	12	4.2	15	2.3	95	0.23	0.03	0.06
14	2.8	9.0	e9.8	5.0	8.9	4.3	40	2.4	51	0.20	0.03	0.05
15	2.4	12	e8.8	4.8	8.3	3.9	14	4.6	168	0.13	0.03	0.04
16	0.94	11	e12	4.1	5.8	6.8	9.4	3.9	66	0.11	0.02	0.04
17	0.72	7.4	17	5.3	5.1	7.8	7.3	2.9	21	0.10	0.03	0.03
18	0.63	77	10	21	4.8	6.3	5.8	2.4	14	0.10	0.02	0.03
19	0.57	106	8.6	9.8	5.9	5.9	5.0	30	10	0.08	0.03	0.03
20	0.57	20	6.5	6.2	13	6.5	6.8	15	7.5	0.07	19	0.02
21	0.83	12	5.9	5.3	18	6.3	7.4	6.5	6.4	0.06	1.8	0.02
22	1.2	8.8	9.8	4.5	10	4.9	33	4.1	151	0.21	0.37	0.02
23	1.3	6.8	60	3.8	11	4.4	31	2.8	7.8	0.15	0.20	0.02
24	1.3	58	31	3.8	11	4.4	13	2.2	2.9	0.12	0.16	0.02
25	1.6	17	14	2.8	8.1	3.9	29	1.9	1.7	0.09	0.22	0.02
26	25	11	9.6	3.7	6.2	3.6	15	18	1.2	0.11	5.7	0.02
27	4.6	102	7.5	5.5	5.4	3.9	9.8	146	0.86	0.18	1.0	0.02
28	2.1	116	6.8	4.3	4.9	3.7	7.1	91	0.69	0.12	2.7	0.01
29	1.8	25	42	3.7	4.8	3.9	5.6	16	0.54	0.09	4.2	0.01
30	1.3	15	47	3.6	---	6.3	29	11	0.43	3.2	0.81	0.01
31	1.1	---	15	e3.4	---	28	---	51	---	9.1	0.42	---
TOTAL	55.83	770.16	464.6	1,246.9	582.9	291.3	353.3	764.0	992.92	20.49	40.54	2.20
MEAN	1.80	25.7	15.0	40.2	20.1	9.40	11.8	24.6	33.1	0.66	1.31	0.07
MAX	25	130	60	752	120	56	40	160	344	9.1	19	0.26
MIN	0.35	0.69	5.1	2.8	3.1	3.6	3.0	1.9	0.43	0.06	0.02	0.01
CFSM	0.16	2.25	1.31	3.53	1.76	0.82	1.03	2.16	2.90	0.06	0.11	0.01
IN.	0.18	2.51	1.52	4.07	1.90	0.95	1.15	2.49	3.24	0.07	0.13	0.01

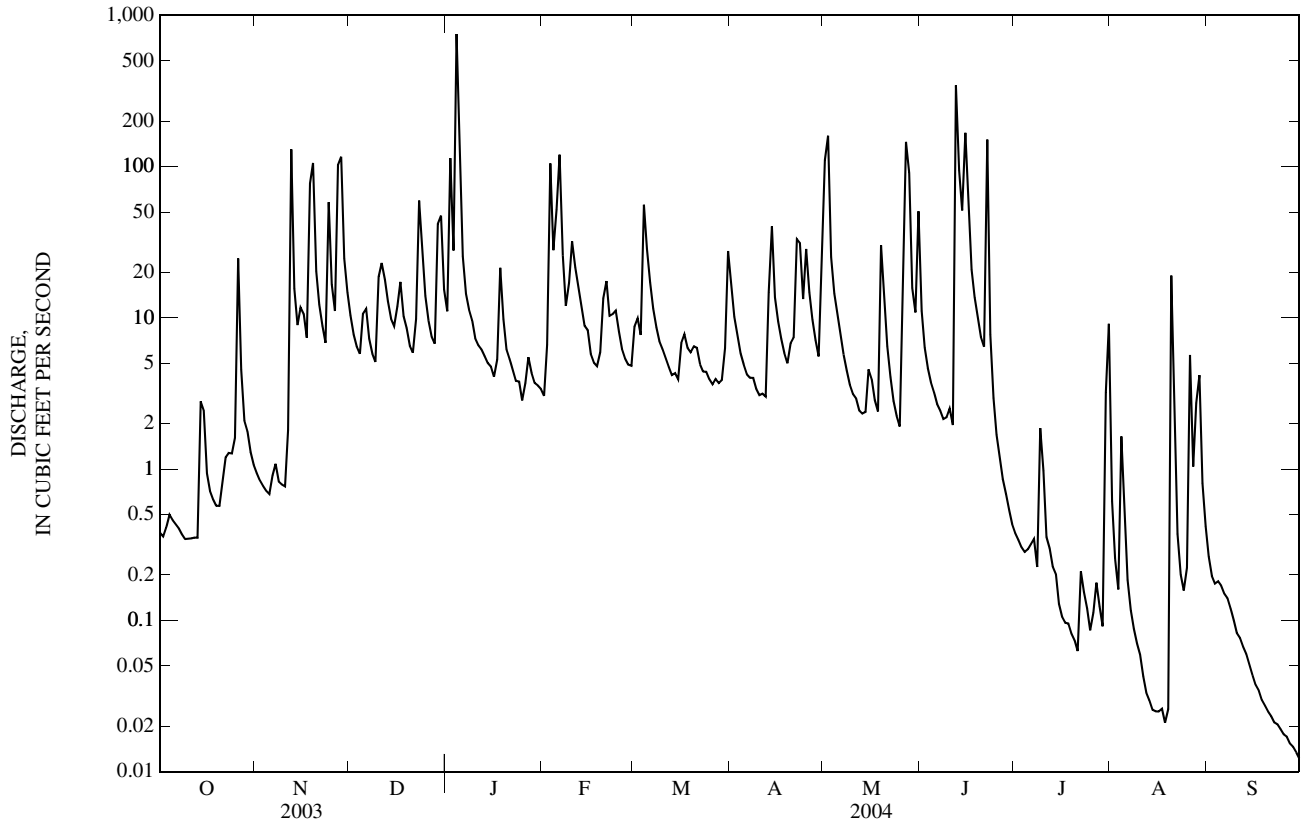
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2004, BY WATER YEAR (WY)

MEAN	3.78	10.4	17.8	19.9	22.1	27.0	25.3	21.6	10.3	7.76	4.41	2.11
MAX	58.5	64.5	86.9	70.4	51.8	89.6	79.9	88.8	45.6	72.0	41.9	22.4
(WY)	(2002)	(1986)	(1991)	(1959)	(1971)	(1963)	(1998)	(2002)	(1997)	(1962)	(1978)	(2001)
MIN	0.00	0.00	0.00	0.06	1.44	4.22	2.12	0.76	0.12	0.02	0.00	0.00
(WY)	(1958)	(1964)	(1964)	(1977)	(1964)	(1969)	(1976)	(1976)	(1965)	(1970)	(1964)	(1957)

03368000 BRUSH CREEK NEAR NEBRASKA, IN—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1956 - 2004	
ANNUAL TOTAL	5,757.69		5,585.14			
ANNUAL MEAN	15.8		15.3		14.3	
HIGHEST ANNUAL MEAN					31.2	
LOWEST ANNUAL MEAN					5.92	
HIGHEST DAILY MEAN	977	Jul 10	752	Jan 4	1,460	Jan 21, 1959
LOWEST DAILY MEAN	0.00	Aug 19	0.01	Sep 28	0.00	Oct 4, 1955
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 19	0.02	Sep 24	0.00	Aug 6, 1956
MAXIMUM PEAK FLOW			1,670	Jun 12	9,360	Jun 10, 1981
MAXIMUM PEAK STAGE			8.66	Jun 12	12.99	Jun 10, 1981
ANNUAL RUNOFF (CFSM)	1.38		1.34		1.26	
ANNUAL RUNOFF (INCHES)	18.79		18.23		17.09	
10 PERCENT EXCEEDS	26		28		25	
50 PERCENT EXCEEDS	4.4		4.4		2.3	
90 PERCENT EXCEEDS	0.34		0.09		0.00	

e Estimated



03369500 VERNON FORK MUSCATATUCK RIVER AT VERNON, IN

LOCATION.--Lat 38°58'35", long 85°37'11", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ 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 for estimated daily discharges, which are poor. Diversion above station for municipal water supply of North Vernon and Vernon. Part of this diversion returned above gage as sewage effluent by North Vernon Sewage Treatment Plant. Some regulation at times at low flow by Old Timbers Lake on Jefferson Proving Grounds and Brush Creek 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	24	70	268	257	61	125	429	1,150	326	54	115	30
2	19	65	211	1,490	68	185	230	3,660	177	53	40	24
3	16	60	181	634	1,110	165	197	821	124	54	24	44
4	15	58	163	6,710	535	794	166	392	123	53	24	25
5	14	58	171	5,280	424	538	145	295	106	48	41	20
6	13	63	228	835	1,880	400	133	224	94	67	46	e14
7	12	64	185	436	795	256	124	181	86	43	24	e11
8	12	61	160	321	322	197	121	151	79	27	17	e8.8
9	12	57	150	253	250	151	110	132	73	41	14	e7.8
10	13	53	186	204	388	129	100	123	77	101	13	e6.8
11	15	55	481	184	531	114	94	113	83	109	12	e6.2
12	20	1,830	267	170	388	105	88	106	2,330	85	e11	e5.6
13	23	472	192	160	299	93	115	97	1,190	49	e11	e5.2
14	51	195	178	142	217	87	753	96	1,280	103	e10	e4.7
15	183	174	165	140	222	85	276	128	1,980	40	e9.8	e4.3
16	75	174	234	128	174	99	177	142	2,030	26	e9.4	e3.9
17	45	132	489	124	158	137	139	116	569	38	e9.0	e3.5
18	36	280	246	322	144	130	117	101	288	23	e8.8	e3.2
19	30	2,350	207	268	151	121	100	664	192	19	e8.6	e2.7
20	27	579	177	164	204	115	104	558	139	18	57	e2.7
21	26	288	148	153	366	120	163	228	114	17	55	e2.4
22	26	206	169	136	238	109	226	155	1,170	24	36	e2.3
23	24	166	429	100	205	95	644	123	282	69	23	e2.2
24	24	719	863	121	203	88	281	105	147	33	20	e2.1
25	25	424	319	87	194	84	375	90	109	20	36	e2.1
26	539	261	231	109	158	80	377	186	90	17	78	e1.8
27	274	1,300	193	126	143	81	211	2,090	77	18	67	e1.7
28	127	2,250	174	119	130	83	157	2,250	69	16	43	e1.6
29	97	769	219	106	120	82	129	403	62	15	121	e1.5
30	89	377	1,150	71	---	89	262	248	58	14	71	e1.5
31	79	---	365	70	---	523	---	1,030	---	123	42	---
TOTAL	1,985	13,610	8,799	19,420	10,078	5,460	6,543	16,158	13,524	1,417	1,096.6	252.6
MEAN	64.0	454	284	626	348	176	218	521	451	45.7	35.4	8.42
MAX	539	2,350	1,150	6,710	1,880	794	753	3,660	2,330	123	121	44
MIN	12	53	148	70	61	80	88	90	58	14	8.6	1.5
CFSM	0.32	2.29	1.43	3.16	1.76	0.89	1.10	2.63	2.28	0.23	0.18	0.04
IN.	0.37	2.56	1.65	3.65	1.89	1.03	1.23	3.04	2.54	0.27	0.21	0.05

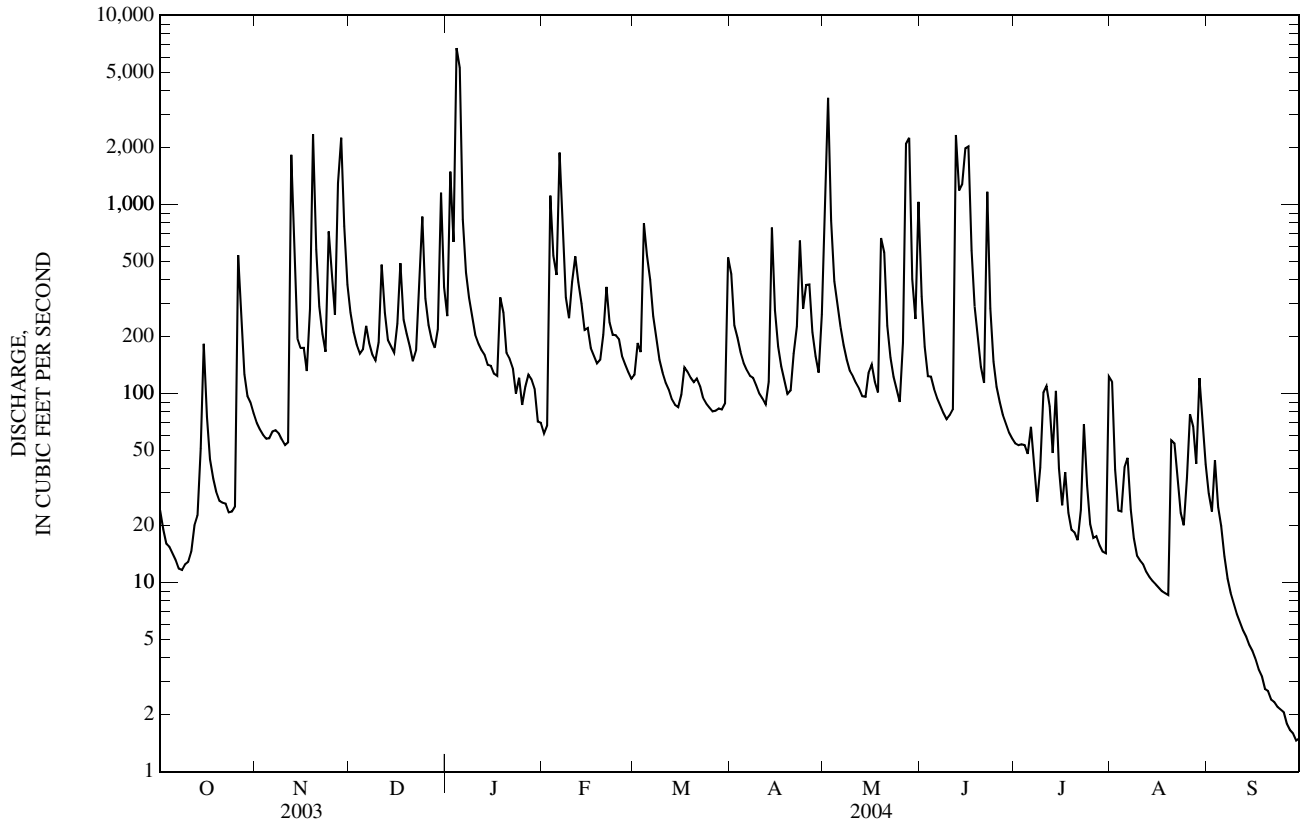
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

MEAN	50.3	147	262	353	386	459	411	316	174	105	65.2	37.1
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	0.00	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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1940 - 2004	
ANNUAL TOTAL	103,096		98,343.2			
ANNUAL MEAN	282		269		230	
HIGHEST ANNUAL MEAN					468	1950
LOWEST ANNUAL MEAN					32.8	1954
HIGHEST DAILY MEAN	11,300	Jul 10	6,710	Jan 4	31,900	Jan 21, 1959
LOWEST DAILY MEAN	11	Sep 12	e 1.5	Sep 29	0.00	Aug 2, 1940
ANNUAL SEVEN-DAY MINIMUM	13	Sep 9	e 1.8	Sep 24	0.00	Aug 2, 1940
MAXIMUM PEAK FLOW			11,700	Jan 4	56,800	Jan 21, 1959
MAXIMUM PEAK STAGE			17.99	Jan 4	32.83	Jan 21, 1959
INSTANTANEOUS LOW FLOW			1.5	Sep 30		
ANNUAL RUNOFF (CFSM)	1.43		1.36		1.16	
ANNUAL RUNOFF (INCHES)	19.37		18.48		15.77	
10 PERCENT EXCEEDS	539		538		465	
50 PERCENT EXCEEDS	126		120		50	
90 PERCENT EXCEEDS	25		13		2.8	

e Estimated



03371500 EAST FORK WHITE RIVER NEAR BEDFORD, IN

LOCATION.--Lat 38°46'13", long 86°24'35", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ 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 good 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,440	2,930	16,900	8,100	e2,500	3,520	4,220	3,690	e14,600	2,500	1,440	1,890
2	2,940	2,650	18,800	9,080	e2,800	3,440	5,200	6,550	14,900	2,330	1,920	1,590
3	2,500	2,450	17,600	9,190	e2,750	3,500	6,030	8,860	15,600	2,220	2,600	1,330
4	2,190	2,410	13,800	12,400	e4,070	5,270	5,600	10,300	15,900	2,190	2,350	1,180
5	1,960	2,530	9,850	20,400	e5,200	7,170	4,700	e11,600	14,300	2,090	1,950	1,100
6	1,790	2,480	6,930	30,900	e6,280	7,530	4,010	e11,800	10,800	2,060	1,740	1,040
7	1,670	2,340	5,780	53,500	e7,400	7,460	3,540	e11,700	7,490	2,130	1,720	970
8	1,640	2,220	5,760	56,000	e8,470	7,360	3,230	e10,000	4,910	2,000	1,800	909
9	1,560	2,100	5,590	51,100	e9,090	6,730	3,010	e8,000	3,770	1,870	1,620	860
10	1,500	2,000	5,110	40,800	e9,270	5,380	2,840	5,220	3,310	1,890	1,430	816
11	1,450	1,910	4,970	29,800	e9,160	4,370	2,680	3,570	3,100	2,020	1,290	778
12	1,380	2,300	5,360	21,400	e8,970	3,810	2,520	2,940	3,190	2,310	1,190	748
13	1,310	4,030	6,140	14,600	e8,770	3,440	2,410	2,650	3,730	2,340	1,120	726
14	1,380	6,240	6,100	9,770	e8,400	3,200	2,720	2,470	6,190	2,150	1,060	702
15	1,640	6,310	5,270	6,990	e7,800	3,000	3,950	2,410	8,340	2,420	1,010	686
16	1,950	6,020	4,680	5,390	e7,000	2,900	5,050	2,570	9,800	2,340	964	665
17	3,500	5,500	4,820	4,800	e5,800	2,930	4,990	2,780	10,600	5,510	929	645
18	4,650	4,630	5,650	4,730	e4,800	3,090	4,260	2,930	11,000	5,090	895	622
19	4,220	5,770	6,640	e4,700	e4,500	3,230	3,350	2,890	11,200	4,470	866	603
20	3,490	8,240	6,290	e4,900	e4,200	3,190	2,870	2,910	11,900	3,820	855	590
21	2,960	9,990	5,370	e5,300	e4,800	3,090	2,740	4,910	12,900	2,930	867	579
22	2,600	11,300	4,570	e4,700	e5,400	3,020	2,690	6,860	13,500	2,240	880	568
23	2,340	11,300	4,090	e4,300	e6,000	2,970	2,900	6,370	10,800	1,910	884	557
24	2,130	10,300	4,100	e3,900	5,820	2,900	3,660	4,810	7,810	1,810	991	547
25	2,020	9,200	5,470	e3,500	5,140	2,780	4,580	3,790	5,890	2,380	1,090	538
26	2,060	9,210	7,680	e3,200	4,700	2,650	4,860	3,330	4,520	2,500	1,220	523
27	2,520	10,600	8,590	e3,100	4,420	2,540	4,950	6,530	3,760	2,120	1,240	517
28	3,590	12,100	7,530	e3,000	4,080	2,490	4,900	e12,000	3,310	1,820	1,460	508
29	4,220	12,400	5,790	e3,100	3,760	2,970	4,290	e14,000	2,990	1,640	1,920	500
30	3,920	13,900	5,330	e2,900	---	3,890	3,520	e14,200	2,710	1,530	2,470	494
31	3,350	---	6,270	e2,600	---	3,980	---	e14,400	---	1,470	2,120	---
TOTAL	77,870	185,360	226,830	438,150	171,350	123,800	116,270	207,040	252,820	76,100	43,891	23,781
MEAN	2,512	6,179	7,317	14,130	5,909	3,994	3,876	6,679	8,427	2,455	1,416	793
MAX	4,650	13,900	18,800	56,000	9,270	7,530	6,030	14,400	15,900	5,510	2,600	1,890
MIN	1,310	1,910	4,090	2,600	2,500	2,490	2,410	2,410	2,710	1,470	855	494
CFSM	0.65	1.60	1.90	3.66	1.53	1.03	1.00	1.73	2.18	0.64	0.37	0.21
IN.	0.75	1.79	2.19	4.22	1.65	1.19	1.12	1.99	2.44	0.73	0.42	0.23

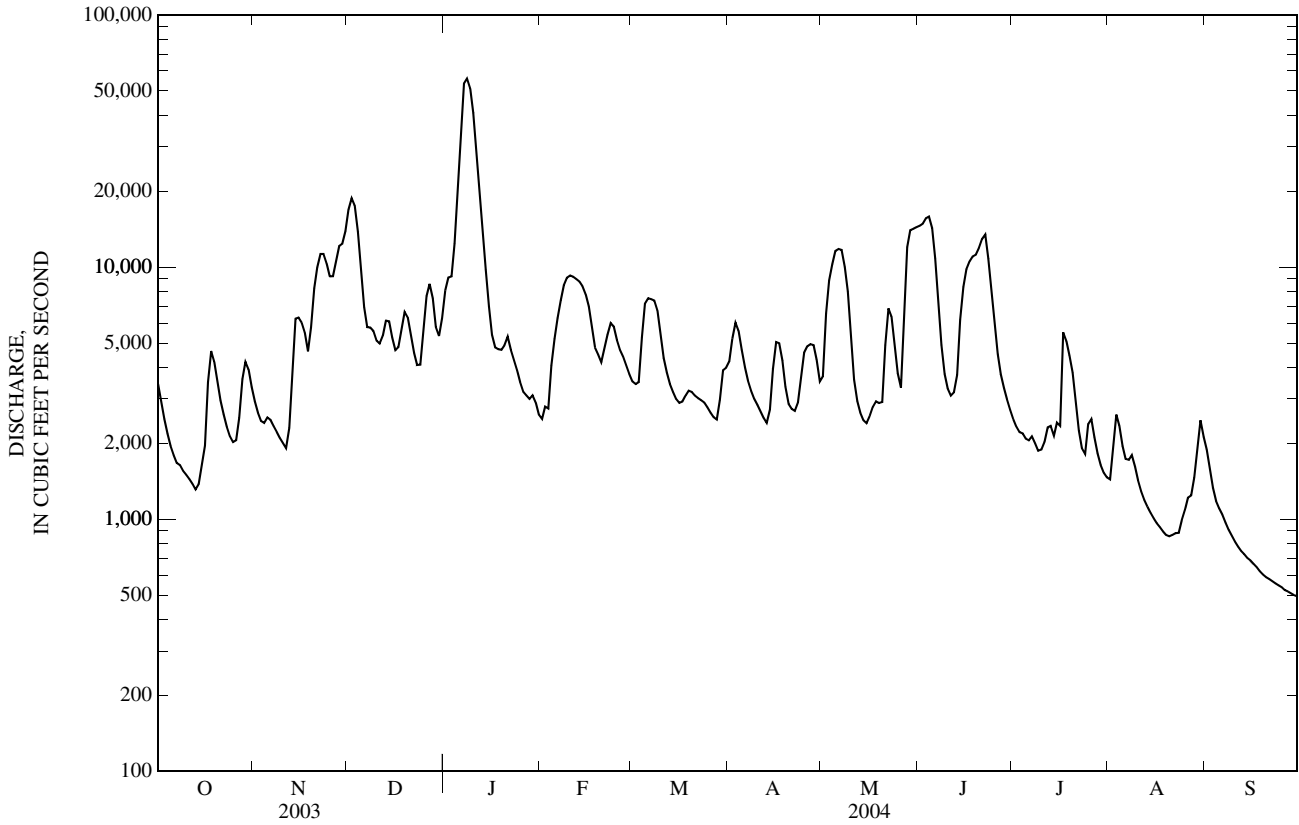
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

MEAN	1,247	2,500	4,635	5,151	6,414	7,929	7,388	6,778	4,055	2,570	1,805	1,156
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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1940 - 2004	
ANNUAL TOTAL	2,136,937		1,943,262			
ANNUAL MEAN	5,855		5,309		4,292	
HIGHEST ANNUAL MEAN					8,192 2002	
LOWEST ANNUAL MEAN					643 1941	
HIGHEST DAILY MEAN	20,200	May 11	56,000	Jan 8	e 78,200	May 1, 1996
LOWEST DAILY MEAN	766	Aug 28	494	Sep 30	138	Sep 7, 1941
ANNUAL SEVEN-DAY MINIMUM	819	Aug 23	518	Sep 24	196	Sep 5, 1941
MAXIMUM PEAK FLOW			57,200	Jan 8	e 80,500	May 1, 1996
MAXIMUM PEAK STAGE			32.81	Jan 8	e 36.32	May 1, 1996
ANNUAL RUNOFF (CFSM)	1.52		1.38		1.11	
ANNUAL RUNOFF (INCHES)	20.59		18.72		15.10	
10 PERCENT EXCEEDS	12,100		10,900		10,500	
50 PERCENT EXCEEDS	4,570		3,510		2,230	
90 PERCENT EXCEEDS	1,700		1,080		490	

e Estimated



03372500 SALT CREEK NEAR HARRODSBURG, IN

LOCATION.--Lat 39°00'16", long 86°30'31", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ 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, 26.21 ft, Jan. 5; minimum gage height, 5.53 ft, Sept. 16.

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	5.77	6.17	15.61	12.31	16.19	12.36	10.90	8.52	9.00	7.21	5.75	5.63
2	5.73	6.01	15.55	13.44	16.23	10.49	12.36	8.40	8.33	7.22	5.65	5.61
3	5.75	5.97	15.45	12.74	16.53	10.59	12.29	12.18	8.05	7.25	5.61	5.60
4	5.77	5.94	15.29	25.97	16.33	8.81	12.19	13.56	7.91	7.33	5.61	5.57
5	5.74	5.92	15.33	22.21	14.14	8.63	12.09	14.88	10.49	7.99	5.61	5.58
6	---	5.89	15.15	16.75	14.52	8.27	12.04	15.92	12.21	7.52	5.57	5.56
7	5.73	5.83	15.06	16.28	14.19	12.29	12.01	15.96	13.60	9.25	5.57	5.54
8	5.73	5.81	13.81	17.36	15.20	13.74	11.99	15.89	14.77	10.24	5.55	5.53
9	5.73	5.78	10.53	17.03	16.43	14.92	10.25	14.72	14.77	10.49	5.53	5.54
10	5.76	5.77	11.12	15.62	16.68	12.32	7.57	13.38	14.75	12.59	5.53	5.55
11	5.77	5.93	8.20	13.23	16.72	7.84	7.53	11.89	14.72	10.96	5.53	5.55
12	5.84	10.28	10.59	10.11	16.70	7.68	7.52	7.52	15.39	10.72	5.53	5.55
13	5.85	9.50	10.58	8.24	16.57	7.64	7.53	10.04	13.57	10.65	5.53	5.53
14	7.44	10.61	10.54	8.05	16.53	7.65	7.50	7.81	13.43	10.75	5.53	5.53
15	6.19	10.80	10.49	14.03	14.13	7.60	7.48	8.10	15.14	10.48	5.53	5.53
16	6.00	10.62	11.41	16.54	13.81	7.82	7.44	10.15	14.48	7.73	5.52	5.57
17	6.11	7.88	14.05	16.83	13.74	10.25	6.39	12.04	9.61	7.68	5.52	5.57
18	5.93	11.52	14.08	17.14	13.77	10.21	6.36	8.05	8.51	7.62	5.53	5.57
19	5.88	13.38	12.52	16.86	12.61	7.63	6.35	8.18	8.28	7.53	5.69	5.57
20	5.88	14.64	12.29	16.75	14.61	7.59	6.56	10.28	7.92	7.55	6.68	5.55
21	5.88	15.56	7.91	16.69	14.32	7.55	6.41	10.18	7.88	7.27	5.86	5.55
22	5.87	15.44	7.87	16.61	14.04	7.54	7.53	10.09	8.05	6.46	5.65	5.56
23	5.86	15.36	9.21	16.54	13.94	7.53	7.56	7.48	7.78	6.44	5.57	5.56
24	5.85	16.57	10.94	16.48	10.89	7.53	7.50	7.44	11.96	6.33	5.59	5.56
25	5.89	15.72	10.74	16.43	6.61	7.52	7.64	7.44	13.44	6.35	5.99	5.56
26	6.45	15.37	10.63	16.43	10.36	8.52	7.52	8.21	13.44	6.58	7.35	5.56
27	6.07	16.60	12.24	16.39	12.06	8.25	7.49	18.58	13.39	6.40	6.16	5.57
28	6.00	13.91	12.21	16.32	12.05	7.98	7.48	14.49	13.36	5.66	5.92	5.57
29	5.99	12.01	12.61	16.29	12.02	7.88	7.46	8.94	11.85	5.61	5.88	5.60
30	5.94	14.44	12.49	16.24	---	9.17	7.52	11.76	7.29	5.67	5.75	5.59
31	5.93	---	12.36	16.21	---	8.84	---	11.10	---	6.07	5.69	---
MEAN	---	10.51	12.16	15.75	14.20	9.12	8.62	11.07	11.45	7.99	5.74	5.56
MAX	---	16.60	15.61	25.97	16.72	14.92	12.36	18.58	15.39	12.59	7.35	5.63
MIN	---	5.77	7.87	8.05	6.61	7.52	6.35	7.44	7.29	5.61	5.52	5.53

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:

NO DATA AVAILABLE FOR WATER YEAR 2004.