03361000 BIG BLUE RIVER AT CARTHAGE, IN

LOCATION.--Lat 39°44'38", long 85°34'33", in $SW^1/_4SW^1/_4$ sec.18, T.15 N., R.9 E., Rush County, Hydrologic Unit 05120204, (CARTHAGE, IN quadrangle), on right bank 300 ft upstream from highway bridge, 0.5 mi northwest of Carthage, 2.2 mi downstream from Three Mile Creek, and at mile 50.7.

DRAINAGE AREA.--184 mi^2.

PERIOD OF RECORD.--October 1950 to current year. Prior to October 1961, published as Blue River at Carthage.

REVISED RECORDS.--WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 859.33 ft above National Geodetic Vertical Datum of 1929. Prior to July 19, 1951, nonrecording gage at site 300 ft downstream at same datum.

REMARKS.--Records good. Flow partly regulated by Big Blue River Conservancy District control structures on tributaries to Big Blue River beginning in 1969.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

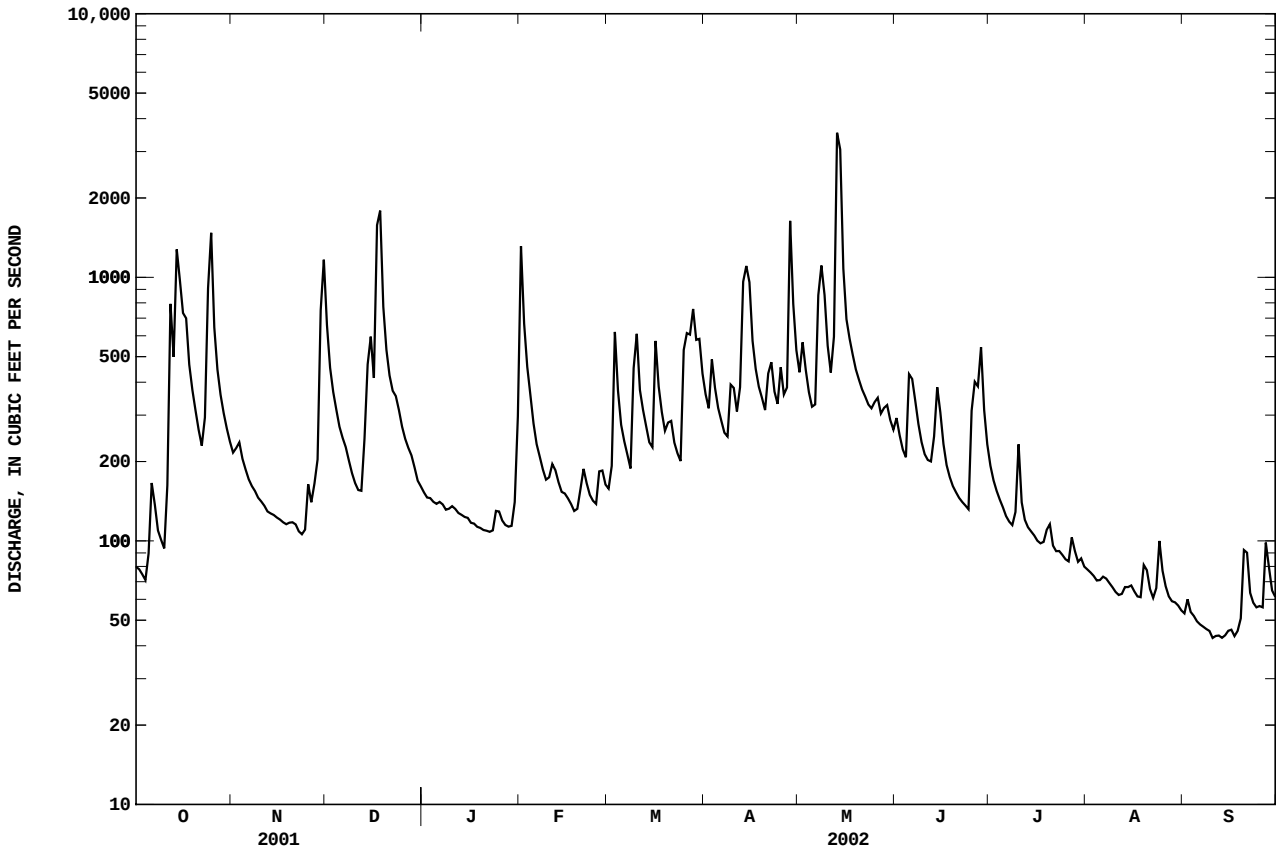
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	216	659	153	1310	158	360	436	292	193	78	53
2	78	225	454	146	668	192	318	567	252	170	76	60
3	75	236	367	145	458	621	488	445	222	155	74	54
4	71	205	314	141	358	371	381	367	208	143	71	52
5	90	187	271	138	279	276	319	323	429	134	71	50
6	166	171	246	141	233	239	286	329	411	124	73	48
7	137	161	227	137	209	212	257	855	339	118	72	47
8	109	155	202	131	186	188	249	1110	277	115	69	46
9	101	146	181	132	171	453	392	856	237	129	67	46
10	94	141	166	135	174	610	380	550	213	232	64	43
11	163	136	156	132	196	374	310	435	203	140	62	44
12	793	129	155	128	185	314	383	595	200	120	63	44
13	499	127	244	126	167	272	962	3540	249	113	67	43
14	1280	125	467	123	153	237	1100	3060	383	109	67	44
15	977	123	596	122	151	227	958	1080	307	105	68	46
16	732	120	415	117	145	574	574	694	233	100	64	46
17	699	118	1580	116	138	385	449	585	194	98	62	44
18	467	116	1790	113	130	308	384	509	175	99	61	46
19	374	117	773	112	132	262	349	447	161	110	81	51
20	313	118	531	110	157	281	314	408	153	116	77	92
21	264	115	424	109	188	285	432	375	146	96	66	90
22	230	109	371	108	165	236	476	353	140	91	61	64
23	294	106	354	110	149	215	368	329	136	92	66	58
24	910	110	313	130	142	201	331	318	132	88	100	56
25	1480	164	271	129	138	530	456	336	312	85	77	57
26	646	140	244	120	184	614	359	349	402	84	67	56
27	447	165	225	115	185	606	382	304	386	103	62	99
28	359	204	211	113	164	758	1640	320	543	92	59	80
29	305	750	190	114	---	579	792	328	314	83	58	65
30	267	1170	169	140	---	584	529	287	233	86	57	61
31	238	---	161	297	---	431	---	264	---	80	54	---
TOTAL	12738	6105	12727	4083	6915	11593	14978	20754	7882	3603	2114	1685
MEAN	410.9	203.5	410.5	131.7	247.0	374.0	499.3	669.5	262.7	116.2	68.19	56.17
MAX	1480	1170	1790	297	1310	758	1640	3540	543	232	100	99
MIN	71	106	155	108	130	158	249	264	132	80	54	43
CFSM	2.23	1.11	2.23	0.72	1.34	2.03	2.71	3.64	1.43	0.63	0.37	0.31
IN.	2.58	1.23	2.57	0.83	1.40	2.34	3.03	4.20	1.59	0.73	0.43	0.34

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2002, BY WATER YEAR (WY)

MEAN	98.87	164.0	212.8	227.9	284.7	324.5	329.2	263.9	214.4	151.0	101.6	77.04
MAX	579	925	702	619	741	967	829	916	848	581	649	400
(WY)	1987	1994	1991	1959	1951	1963	1964	1996	1958	1979	1979	1989
MIN	34.2	38.6	33.2	27.9	59.6	84.2	97.8	81.5	48.1	32.5	30.5	24.4
(WY)	1964	1977	1977	1977	1964	1981	1971	1976	1988	1977	1988	1954

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1951 - 2002	
ANNUAL TOTAL	78547		105177			
ANNUAL MEAN	215.2		288.2		203.7	
HIGHEST ANNUAL MEAN					324	1973
LOWEST ANNUAL MEAN					78.8	1977
HIGHEST DAILY MEAN	1790	Dec 18	3540	May 13	6900	Mar 5 1963
LOWEST DAILY MEAN	57	Sep 6	43	Sep 10	17	Jan 18 1977
ANNUAL SEVEN-DAY MINIMUM	61	Sep 2	44	Sep 8	19	Jul 31 1977
MAXIMUM PEAK FLOW			4830	May 13	12900	Mar 4 1963
MAXIMUM PEAK STAGE			10.32	May 13	14.62	Mar 4 1963
ANNUAL RUNOFF (CFSM)	1.17		1.57		1.11	
ANNUAL RUNOFF (INCHES)	15.88		21.26		15.04	
10 PERCENT EXCEEDS	449		584		406	
50 PERCENT EXCEEDS	136		184		116	
90 PERCENT EXCEEDS	74		64		51	

03361000 BIG BLUE RIVER AT CARTHAGE, IN--Continued



03361500 BIG BLUE RIVER AT SHELBYVILLE, IN

LOCATION.--Lat 39°31'45", long 85°46'55", in SE¼SE¼ sec.31, T.13 N., R.7 E., Shelby County, Hydrologic Unit 05120204, (SHELBYVILLE, IN quadrangle), on left bank 0.2 mi downstream from bridge on State Highway 9 in Shelbyville, 0.6 mi downstream from Little Blue River, and at mile 23.9.

DRAINAGE AREA.--421 mi².

PERIOD OF RECORD.--September 1943 to current year. Prior to October 1961, published as Blue River at Shelbyville.

REVISED RECORDS.--WSP 1505: 1944. WSP 1909: 1959(M). WSP 2109: Drainage area. WDR IN-79-1: 1975.

GAGE.--Water-stage recorder. Datum of gage is 737.67 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1953, nonrecording gage at bridge 0.2 mi upstream at datum 3.5 ft higher.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of about 20.2 ft from floodmarks.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	185	471	2400	e342	2320	346	852	1100	520	374	131	91
2	172	450	1390	e328	2330	376	722	1010	508	329	129	89
3	163	475	1020	e318	1290	1190	864	948	452	298	126	90
4	151	439	825	e310	939	992	876	737	414	274	122	87
5	157	403	706	313	689	670	686	639	595	256	135	85
6	232	373	637	315	567	548	598	616	844	235	119	83
7	308	352	608	313	502	488	541	2570	756	221	116	81
8	256	335	548	293	451	442	514	4540	590	210	115	78
9	221	318	489	293	411	660	669	3920	493	203	113	75
10	209	303	437	296	395	1650	886	1990	438	302	109	72
11	289	295	404	290	405	991	710	1290	447	268	107	69
12	1510	278	389	280	408	755	692	1190	500	219	107	68
13	1550	267	556	277	382	640	2100	5420	438	200	108	68
14	2140	263	934	270	347	556	2660	8320	1020	190	109	67
15	3550	258	1710	268	338	509	3170	6010	848	180	108	71
16	2080	253	1170	258	330	903	1810	2140	710	171	108	70
17	2070	246	3190	254	315	914	1240	1500	530	171	106	70
18	1400	240	5330	248	294	689	967	1230	439	166	103	68
19	1030	240	3780	245	288	572	783	1030	385	316	105	73
20	796	240	1760	241	314	590	674	889	350	358	119	118
21	648	234	1190	236	383	667	1550	783	325	223	110	158
22	552	227	946	234	372	566	1850	700	308	183	104	114
23	506	220	846	232	335	502	1120	645	295	169	115	92
24	1380	229	747	253	318	464	873	600	279	163	121	87
25	2800	310	641	279	307	902	1100	631	277	154	126	84
26	2110	338	571	266	346	1990	936	702	1210	148	111	83
27	1180	360	527	254	400	1740	833	632	696	146	105	113
28	851	468	490	247	364	1730	3100	580	937	163	100	136
29	681	1670	452	248	---	1410	3090	587	623	144	98	109
30	580	2880	e388	271	---	1460	1560	539	446	140	96	96
31	515	---	e360	515	---	1090	---	495	---	137	93	---
TOTAL	30272	13435	35441	8787	16140	27002	38026	53983	16673	6711	3474	2645
MEAN	976.5	447.8	1143	283.5	576.4	871.0	1268	1741	555.8	216.5	112.1	88.17
MAX	3550	2880	5330	515	2330	1990	3170	8320	1210	374	135	158
MIN	151	220	360	232	288	346	514	495	277	137	93	67
CFSM	2.32	1.06	2.72	0.67	1.37	2.07	3.01	4.14	1.32	0.51	0.27	0.21
IN.	2.67	1.19	3.13	0.78	1.43	2.39	3.36	4.77	1.47	0.59	0.31	0.23

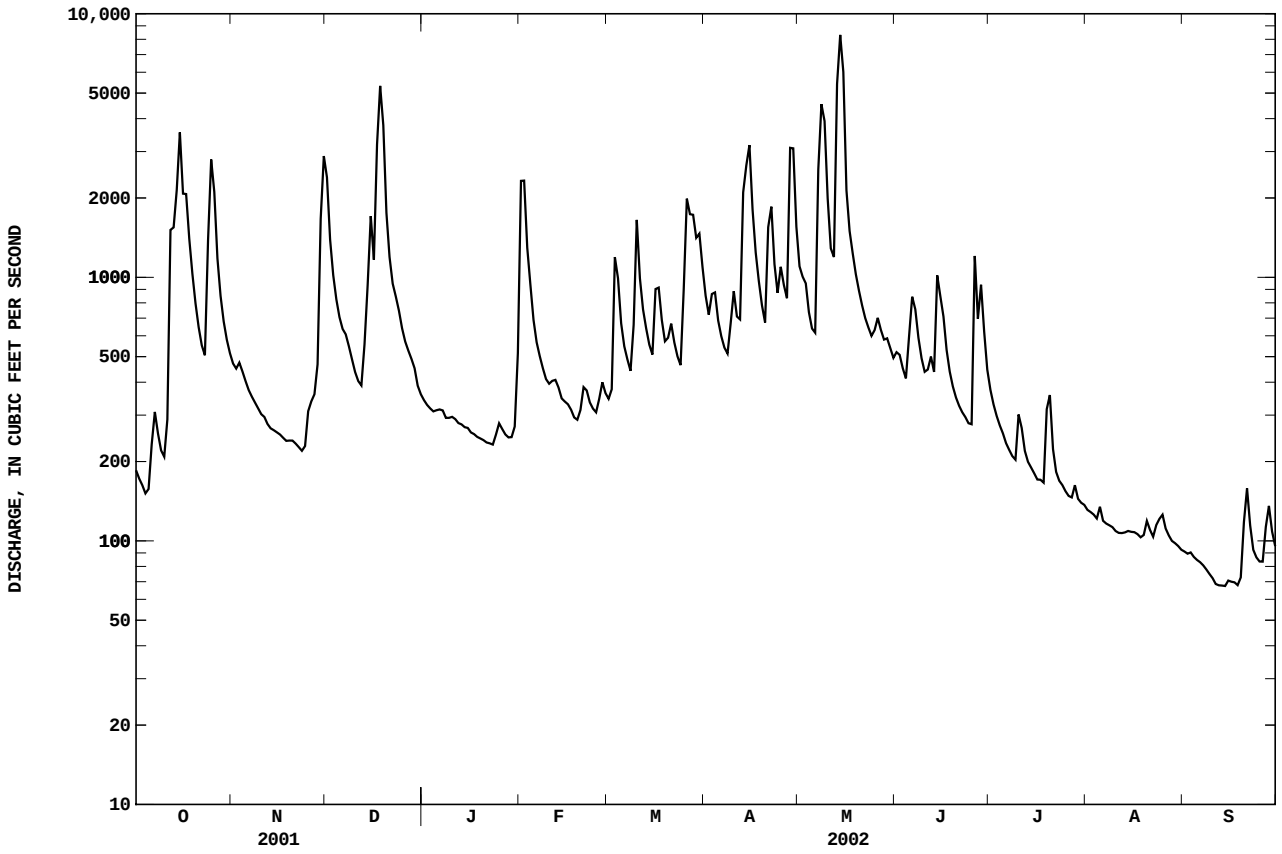
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2002, BY WATER YEAR (WY)

MEAN	181.2	348.0	481.4	622.5	698.7	790.1	788.5	615.6	474.3	319.7	195.1	144.1
MAX	1199	2114	1575	4319	2208	1970	1973	2605	1729	1363	1404	953
(WY)	1987	1994	1967	1950	1950	1963	1964	1996	1998	1979	1979	1989
MIN	41.7	52.5	52.3	38.3	92.0	204	183	149	81.2	56.1	46.4	43.1
(WY)	1964	1954	1964	1977	1964	1957	1971	1976	1988	1954	1988	1999

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1944 - 2002	
ANNUAL TOTAL	176171		252589			
ANNUAL MEAN	482.7		692.0		470.2	
HIGHEST ANNUAL MEAN					908	1950
LOWEST ANNUAL MEAN					166	1954
HIGHEST DAILY MEAN	5330	Dec 18	8320	May 14	13800	Mar 5 1963
LOWEST DAILY MEAN	99	Sep 6	67	Sep 14	27	Jan 18 1977
ANNUAL SEVEN-DAY MINIMUM	110	Sep 3	69	Sep 12	32	Jan 16 1977
MAXIMUM PEAK FLOW			9120	May 14	13800	Nov 15 1993
MAXIMUM PEAK STAGE			16.21	May 14	18.41	Nov 15 1993
ANNUAL RUNOFF (CFSM)	1.15		1.64		1.12	
ANNUAL RUNOFF (INCHES)	15.57		22.32		15.18	
10 PERCENT EXCEEDS	1020		1550		1000	
50 PERCENT EXCEEDS	293		395		240	
90 PERCENT EXCEEDS	144		108		74	

e Estimated

03361500 BIG BLUE RIVER AT SHELBYVILLE, IN--Continued



03361650 SUGAR CREEK AT NEW PALESTINE, IN

LOCATION.--Lat 39°42'51", long 85°53'08", in SE¼SW¼ sec.29, T.15 N., R.6 E., Hancock County, Hydrologic Unit 05120204, (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 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	116	648	e64	983	74	252	219	57	46	13	6.8
2	20	112	421	e60	1020	104	189	205	54	37	12	6.3
3	19	113	248	e58	742	338	237	255	49	32	12	6.5
4	18	112	185	e54	328	319	276	184	47	28	12	5.6
5	21	99	146	e52	213	179	192	140	67	25	11	5.2
6	56	89	126	e52	158	136	151	126	60	22	10	4.6
7	65	81	115	e50	131	118	129	384	55	21	8.9	4.8
8	57	75	103	e48	113	103	119	583	48	19	8.2	5.9
9	43	69	91	e47	101	198	174	551	43	20	7.6	5.7
10	36	65	82	50	95	335	224	354	40	52	8.7	5.0
11	131	62	75	48	95	251	173	217	39	30	8.3	4.7
12	635	59	72	46	94	170	315	333	39	22	8.5	4.4
13	604	54	99	45	86	139	540	1360	54	20	7.9	3.9
14	754	53	256	45	76	118	533	1550	109	18	8.4	4.0
15	755	51	459	43	70	110	444	1370	73	17	9.0	4.3
16	892	51	421	41	67	158	316	631	81	15	8.1	4.2
17	749	48	767	41	63	153	202	303	54	14	8.7	4.4
18	560	47	948	39	58	130	153	217	43	15	8.4	5.9
19	332	46	927	39	56	109	128	171	37	69	10	5.3
20	238	45	469	38	71	112	111	142	34	314	12	20
21	184	45	267	38	104	115	166	122	31	93	13	19
22	153	42	200	37	95	108	215	106	30	56	10	8.3
23	144	41	176	38	80	95	173	95	28	38	9.8	5.7
24	387	52	155	42	71	87	137	92	27	28	17	4.8
25	903	178	130	43	66	276	241	92	149	22	10	4.0
26	904	128	112	44	81	444	191	83	124	20	9.1	3.8
27	735	137	102	42	85	418	208	74	228	19	8.3	10
28	291	141	94	41	81	503	736	68	242	17	7.4	7.9
29	205	405	84	41	---	517	615	64	98	17	7.5	7.0
30	161	728	e74	58	---	488	350	62	65	17	6.9	5.4
31	135	---	e68	209	---	405	---	60	---	15	6.5	---
TOTAL	10211	3344	8120	1593	5283	6810	7890	10213	2105	1178	298.2	193.4
MEAN	329.4	111.5	261.9	51.39	188.7	219.7	263.0	329.5	70.17	38.00	9.619	6.447
MAX	904	728	948	209	1020	517	736	1550	242	314	17	20
MIN	18	41	68	37	56	74	111	60	27	14	6.5	3.8
CFSM	3.51	1.19	2.79	0.55	2.01	2.34	2.80	3.51	0.75	0.40	0.10	0.07
IN.	4.05	1.32	3.22	0.63	2.09	2.70	3.13	4.05	0.83	0.47	0.12	0.08

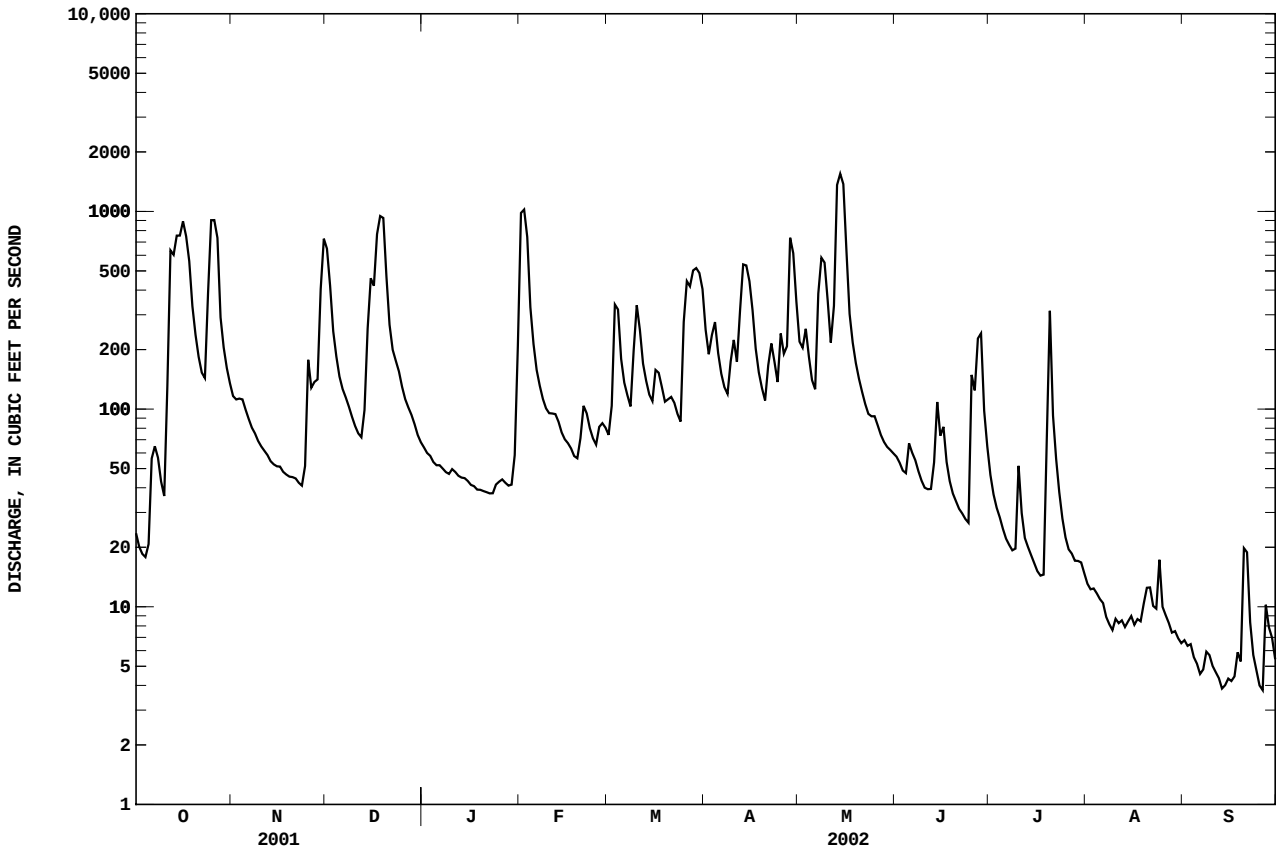
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2002, BY WATER YEAR (WY)

MEAN	43.73	90.01	121.6	125.0	162.1	169.9	158.8	136.7	99.31	63.42	40.92	27.55
MAX	329	441	352	345	439	413	299	549	469	241	306	314
(WY)	2002	1994	1991	1969	1982	1978	1996	1996	1998	1969	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

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1968 - 2002	
ANNUAL TOTAL	45377		57238.6			
ANNUAL MEAN	124.3		156.8		102.9	
HIGHEST ANNUAL MEAN					157	2002
LOWEST ANNUAL MEAN					37.7	1977
HIGHEST DAILY MEAN	948	Dec 18	1550	May 14	1930	Nov 15 1993
LOWEST DAILY MEAN	12	Sep 5	3.8	Sep 26	0.11	Sep 19 1999
ANNUAL SEVEN-DAY MINIMUM	14	Sep 1	4.3	Sep 11	0.26	Sep 16 1999
MAXIMUM PEAK FLOW			1690	May 14	2340	Nov 14 1993
MAXIMUM PEAK STAGE			9.09	May 14	10.34	Feb 23 1979
ANNUAL RUNOFF (CFSM)	1.32		1.67		1.10	
ANNUAL RUNOFF (INCHES)	17.98		22.68		14.89	
10 PERCENT EXCEEDS	332		421		243	
50 PERCENT EXCEEDS	61		73		46	
90 PERCENT EXCEEDS	21		8.3		8.4	

e Estimated

03361650 SUGAR CREEK AT NEW PALESTINE, IN--Continued



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, WH, FIELD, in (STANDARD UNITS), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	8.1	7.8	8.2	---	8.1	7.7
2	---	---	---	---	---	---	8.1	7.7	8.2	8.1	8.2	7.7
3	---	---	---	---	---	---	8.1	7.7	8.2	8.2	8.2	7.7
4	---	---	---	---	---	---	8.1	---	8.2	8.2	8.2	7.4
5	---	---	---	---	---	---	8.2	---	7.9	8.2	8.2	7.1
6	---	---	---	---	---	---	8.3	---	8.0	8.1	8.2	7.0
7	---	---	---	---	---	---	8.3	---	8.1	8.1	8.2	7.0
8	---	---	---	---	---	---	8.2	---	8.1	8.0	8.2	7.4
9	---	---	---	---	---	---	8.1	7.4	8.2	7.9	8.2	---
10	---	---	---	---	---	---	8.1	7.5	8.2	7.8	8.2	---
11	---	---	---	---	---	---	8.0	7.6	8.2	7.9	8.2	---
12	---	---	---	---	---	---	7.8	7.6	8.1	8.0	8.2	---
13	---	---	---	---	---	---	7.7	---	8.1	8.0	8.1	---
14	---	---	---	---	---	---	7.7	---	8.0	8.0	8.1	---
15	---	---	---	---	---	---	7.8	7.6	8.1	8.1	8.1	---
16	---	---	---	---	---	8.2	7.8	7.7	8.2	8.2	8.1	---
17	---	---	---	---	---	8.3	7.9	7.8	8.2	8.1	8.1	---
18	---	---	---	---	---	8.4	7.9	7.9	8.2	8.1	8.1	---
19	---	---	---	---	---	8.3	8.0	8.0	8.2	8.0	8.1	---
20	---	---	---	---	---	8.3	8.0	8.0	8.1	7.6	8.1	---
21	---	---	---	---	---	8.3	7.9	8.1	8.1	7.8	8.2	---
22	---	---	---	---	---	8.4	8.0	8.2	8.1	7.9	8.2	---
23	---	---	---	---	---	8.4	---	8.2	8.1	7.9	8.1	---
24	---	---	---	---	---	8.4	---	8.1	8.1	8.0	8.0	---
25	---	---	---	---	---	8.0	7.8	8.0	7.9	8.0	7.9	---
26	---	---	---	---	---	7.9	8.0	8.1	7.8	8.0	7.9	---
27	---	---	---	---	---	8.0	7.9	8.2	7.9	8.0	7.9	8.2
28	---	---	---	---	---	8.0	7.6	8.3	---	8.0	7.8	8.2
29	---	---	---	---	---	7.9	7.6	8.3	---	8.1	7.8	8.2
30	---	---	---	---	---	7.9	---	8.2	---	8.1	7.8	8.1
31	---	---	---	---	---	8.0	---	8.2	---	8.1	7.8	---

03361650 SUGAR CREEK AT NEW PALESTINE, IN--Continued

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

OXYGEN DISSOLVED, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	11.5	9.3	8.5	---	7.1	7.2
2	---	---	---	---	---	---	14.4	9.2	8.3	8.0	7.2	7.3
3	---	---	---	---	---	---	12.6	9.7	8.7	8.6	7.5	6.9
4	---	---	---	---	---	---	10.6	---	8.3	8.7	7.0	6.9
5	---	---	---	---	---	---	11.8	---	6.9	8.8	7.0	7.3
6	---	---	---	---	---	---	12.3	---	7.8	9.1	7.3	7.5
7	---	---	---	---	---	---	12.5	---	8.8	9.3	8.0	8.2
8	---	---	---	---	---	---	10.4	---	8.9	8.8	8.2	7.3
9	---	---	---	---	---	---	10	8.4	8.5	7.6	8.2	---
10	---	---	---	---	---	---	10.9	9.0	8.3	7.2	8.2	---
11	---	---	---	---	---	---	11.0	9.3	7.6	7.8	8.2	---
12	---	---	---	---	---	---	8.7	8.8	8.0	8.2	8.0	---
13	---	---	---	---	---	---	8.5	---	8.3	8.2	7.1	---
14	---	---	---	---	---	---	8.7	---	8.3	8.2	6.9	---
15	---	---	---	---	---	---	8.6	8.1	8.8	8.0	7.2	---
16	---	---	---	---	---	11.5	8.3	7.9	9.0	8.0	6.7	---
17	---	---	---	---	---	12.4	8.3	8.2	8.9	7.4	7.0	---
18	---	---	---	---	---	13.4	8.4	9.0	8.9	7.6	6.9	---
19	---	---	---	---	---	12.2	8.3	9.4	8.7	7.1	6.6	---
20	---	---	---	---	---	12.0	8.1	9.7	8.4	6.6	7.5	---
21	---	---	---	---	---	13.2	8.1	9.9	8.3	7.1	7.3	---
22	---	---	---	---	---	15.1	9.6	9.9	8.1	7.2	6.6	---
23	---	---	---	---	---	15.1	---	9.5	7.9	7.0	6.5	---
24	---	---	---	---	---	14.2	---	8.9	7.9	7.4	6.2	---
25	---	---	---	---	---	11.8	8.7	8.5	7.7	7.5	6.5	---
26	---	---	---	---	---	12.2	9.5	8.9	7.7	7.4	6.8	---
27	---	---	---	---	---	12.6	8.8	9.1	8.0	7.4	6.9	11.6
28	---	---	---	---	---	11.9	8.3	9.4	---	7.2	7.1	12.2
29	---	---	---	---	---	11.6	8.9	9.2	---	6.7	7.1	12.0
30	---	---	---	---	---	11.3	---	9.2	---	6.9	7.3	11.7
31	---	---	---	---	---	11.1	---	9.1	---	7.1	7.3	---

WATER TEMPERATURE, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	8.6	13.0	21.7	---	25.4	22.4
2	---	---	---	---	---	---	9.3	13.3	21.7	24.8	25.3	23.1
3	---	---	---	---	---	---	8.4	12.6	21.6	24.9	25.6	23.5
4	---	---	---	---	---	---	7.3	---	23.1	25.4	26.3	22.2
5	---	---	---	---	---	---	7.2	---	22.1	25.6	26.2	21.3
6	---	---	---	---	---	---	8.0	---	19.4	24.0	24.8	20.9
7	---	---	---	---	---	---	8.5	---	18.5	23.6	22.1	21.4
8	---	---	---	---	---	---	10	---	19.5	23.9	21.4	22.9
9	---	---	---	---	---	---	10.8	16.3	20.9	24.0	21.4	---
10	---	---	---	---	---	---	10.3	15.3	22.4	23.7	21.8	---
11	---	---	---	---	---	---	12.0	14.5	22.7	22.4	22.6	---
12	---	---	---	---	---	---	14.0	14.9	22.1	21.3	23.5	---
13	---	---	---	---	---	---	13.4	---	20.7	21.4	23.4	---
14	---	---	---	---	---	---	13.4	---	19.7	22.1	22.8	---
15	---	---	---	---	---	---	14.8	14.5	18.9	22.8	23.2	---
16	---	---	---	---	---	8.0	17.2	15.7	19.1	23.1	24.1	---
17	---	---	---	---	---	7.1	18.7	14.7	19.8	22.9	24.3	---
18	---	---	---	---	---	8.0	19.4	13.0	20.9	23.2	24.0	---
19	---	---	---	---	---	8.4	20.4	11.9	22.6	23.0	23.0	---
20	---	---	---	---	---	8.2	19.4	11.4	23.6	22.7	22.6	---
21	---	---	---	---	---	6.6	15.0	11.4	23.6	24.4	22.7	---
22	---	---	---	---	---	4.2	12.1	12.3	24.1	25.7	24.1	---
23	---	---	---	---	---	4.9	---	14.4	24.2	24.9	24.5	---
24	---	---	---	---	---	6.1	---	16.4	24.1	23.8	24.3	---
25	---	---	---	---	---	5.0	13.2	17.4	23.7	23.0	23.2	---
26	---	---	---	---	---	3.8	13.0	17.0	22.2	23.2	23.0	---
27	---	---	---	---	---	4.5	12.4	17.7	21.9	24.0	22.7	17.4
28	---	---	---	---	---	5.7	12.1	19.3	---	25.1	22.2	17.8
29	---	---	---	---	---	6.5	11.3	19.4	---	25.4	22.0	17.9
30	---	---	---	---	---	7.7	---	19.6	---	25.0	21.9	18.4
31	---	---	---	---	---	8.5	---	20.7	---	25.0	21.8	---

03361650 SUGAR CREEK AT NEW PALESTINE, IN--Continued

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

SPECIFIC CONDUCTANCE, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	501	529	620	---	603	---
2	---	---	---	---	---	---	550	558	623	630	616	---
3	---	---	---	---	---	---	568	539	607	649	618	---
4	---	---	---	---	---	---	538	---	608	646	615	---
5	---	---	---	---	---	---	547	---	558	643	615	---
6	---	---	---	---	---	---	576	---	595	642	611	---
7	---	---	---	---	---	---	587	---	626	642	---	---
8	---	---	---	---	---	---	600	---	638	645	---	---
9	---	---	---	---	---	---	587	393	641	645	---	---
10	---	---	---	---	---	---	579	421	644	582	---	---
11	---	---	---	---	---	---	563	447	633	565	---	---
12	---	---	---	---	---	---	512	417	608	587	---	---
13	---	---	---	---	---	---	419	---	558	607	---	---
14	---	---	---	---	---	---	435	---	542	617	---	---
15	---	---	---	---	---	---	469	251	587	623	---	---
16	---	---	---	---	---	571	490	394	599	622	---	---
17	---	---	---	---	---	609	540	474	638	638	---	---
18	---	---	---	---	---	598	574	515	647	641	---	---
19	---	---	---	---	---	601	597	539	650	559	---	---
20	---	---	---	---	---	610	609	559	648	293	615	---
21	---	---	---	---	---	625	576	577	---	392	618	---
22	---	---	---	---	---	619	559	595	644	414	615	---
23	---	---	---	---	---	595	---	608	640	459	616	---
24	---	---	---	---	---	560	---	609	641	482	580	---
25	---	---	---	---	---	482	542	604	505	498	533	---
26	---	---	---	---	---	492	593	615	466	520	553	---
27	---	---	---	---	---	489	566	617	461	543	594	---
28	---	---	---	---	---	459	374	611	---	560	---	599
29	---	---	---	---	---	434	402	616	---	575	---	600
30	---	---	---	---	---	455	---	618	---	588	---	---
31	---	---	---	---	---	456	---	616	---	598	---	---

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

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

WATER-QUALITY RECORDS

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 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)
OCT													
03...	1220	19	732	9.6	8.0	--	26.0	16.2	83.1	29.9	2.09	14.3	270
17...	1420	686	E746	9.4	7.6	455	11.0	10.9	--	--	--	--	--
NOV													
16...	1050	51	737	12.4	8.2	684	16.0	10.6	--	--	--	--	240
27...	1340	148	727	10.8	8.0	632	15.0	11.1	--	--	--	--	--
DEC													
13...	1330	102	725	12.3	8.0	667	12.0	9.0	--	--	--	--	260
26...	1220	113	727	14.0	8.0	654	-5.0	1.8	--	--	--	--	--
JAN													
10...	1340	49	725	13.8	8.1	699	11.0	3.7	--	--	--	--	290
23...	1500	38	723	13.8	8.3	681	8.0	5.0	--	--	--	--	--
FEB													
07...	1320	130	729	--	8.1	591	9.0	4.4	--	--	--	--	220
MAR													
07...	1420	115	727	16.3	8.3	615	20.0	8.8	--	--	--	--	260
APR													
02...	1215	186	715	11.7	8.4	563	7.0	9.4	--	--	--	--	240
MAY													
06...	1500	130	717	9.2	8.0	599	21.0	15.6	--	--	--	--	--
14...	1350	1600	725	9.2	7.7	221	15.0	13.6	--	--	--	--	91
29...	1430	64	732	9.3	8.0	619	22.0	19.7	--	--	--	--	--
JUN													
03...	1120	49	727	9.1	8.1	629	30.0	21.3	--	--	--	--	280
10...	1230	41	730	8.7	8.1	649	29.0	22.5	--	--	--	--	--
17...	1120	54	732	8.6	8.1	602	23.0	18.5	--	--	--	--	--
24...	1200	27	733	7.6	8.1	649	30.0	24.1	--	--	--	--	--
JUL													
01...	1150	47	734	7.4	7.9	603	33.0	23.8	--	--	--	--	--
08...	1420	20	733	8.5	8.1	648	31.0	24.6	--	--	--	--	280
16...	1420	15	733	9.1	8.2	639	28.0	23.7	--	--	--	--	--
22...	1450	49	724	7.8	8.0	427	30.0	26.6	--	--	--	--	--
AUG													
08...	1200	7.9	742	8.2	8.1	624	27.0	21.9	--	--	--	--	230
21...	1300	12	738	9.2	8.1	613	29.0	22.9	--	--	--	--	--
SEP													
09...	1230	5.4	735	8.8	8.1	647	31.0	23.6	--	--	--	--	240

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)
OCT													
03...	274	331	2	37.0	.2	7.82	41.8	362	<.04	.21	.28	1.25	.026
17...	--	--	--	--	--	--	--	--	<.04	--	.67	2.90	.015
NOV													
16...	244	294	2	31.3	--	--	43.4	--	<.04	--	.26	1.32	E.005
27...	--	--	--	--	--	--	--	--	<.04	--	.53	2.59	.010
DEC													
13...	257	311	1	33.4	--	--	35.9	--	<.04	--	.32	2.41	.010
26...	--	--	--	--	--	--	--	--	E.02	--	.29	3.04	E.007
JAN													
10...	281	340	2	32.0	--	--	47.2	--	<.04	--	.17	2.11	E.007
23...	--	--	--	--	--	--	--	--	<.04	--	.17	1.24	<.008
FEB													
07...	224	E270	E1	26.9	--	--	32.4	--	<.04	--	.45	3.16	.026
MAR													
07...	264	E316	E3	30.4	--	--	33.8	--	<.04	--	.26	3.58	.010
APR													
02...	236	282	3	26.0	--	--	29.8	--	<.04	--	.36	4.17	.011
MAY													
06...	--	--	--	--	--	--	--	--	E.02	--	.42	3.48	.034
14...	87	106	1	7.38	--	--	8.0	--	<.04	--	1.1	1.50	.101
29...	--	--	--	--	--	--	--	--	<.04	--	.38	1.84	.010
JUN													
03...	278	335	2	26.6	--	--	38.5	--	<.04	--	.40	1.53	.033
10...	--	--	--	--	--	--	--	--	<.04	--	.38	1.77	.020
17...	--	--	--	--	--	--	--	--	<.04	--	.48	3.57	.103
24...	--	--	--	--	--	--	--	--	<.04	--	.33	1.14	.014
JUL													
01...	--	--	--	--	--	--	--	--	<.04	--	.52	2.90	.024
08...	275	E332	E2	28.9	--	--	37.7	--	<.04	--	.34	1.46	.010
16...	--	--	--	--	--	--	--	--	<.04	--	.28	.89	E.007
22...	--	--	--	--	--	--	--	--	<.04	--	.92	1.37	.024
AUG													
08...	232	279	2	31.7	--	--	39.0	--	.05	--	.38	.33	E.006
21...	--	--	--	--	--	--	--	--	<.04	--	.33	.21	.009
SEP													
09...	241	E289	E2	32.3	--	--	41.2	--	<.04	--	.30	.15	.016

Date	NITROGEN,PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	ORTHOPHOSPHATE, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	2,4-D METHYL ESTER, WATER FLTRD REC (UG/L) (50470)	2,4-D, DISSOLVED (UG/L) (39732)	2,4-DB WATER, FLTRD, GF 0.7U REC (UG/L) (38746)
OCT													
03...	.08	.036	<.02	.049	1.0	<.1	5.8	1.0	E8	17.2	<.009	<.02	<.02
17...	--	--	.10	.190	--	--	--	--	--	--	<.009	.04	<.02
NOV													
16...	.09	--	<.02	.018	.8	<.1	3.3	.8	--	--	<.009	<.02	<.02
27...	--	--	E.01	.082	--	--	--	--	--	--	<.009	.11	<.02
DEC													
13...	.08	--	E.01	.047	.8	<.1	3.0	.8	--	--	<.009	.04	<.02
26...	--	--	E.01	.045	--	--	--	--	--	--	<.009	E.01	<.02
JAN													
10...	<.02	--	<.02	.017	.4	<.1	2.3	.4	--	--	<.009	E.01	<.02
23...	--	--	<.02	.013	--	--	--	--	--	--	<.009	<.02	<.02
FEB													
07...	.09	--	<.02	.069	1.0	<.1	3.0	1.0	--	--	<.009	.05	<.02
MAR													
07...	.16	--	<.02	.029	.6	<.1	2.4	.6	--	--	<.009	<.02	<.02
APR													
02...	.22	--	E.01	.065	1.4	<.1	2.9	1.4	--	--	<.009	<.02	<.02
MAY													
06...	--	--	<.02	.053	--	--	--	--	--	--	<.009	.17	<.02
14...	.18	--	<.02	.33	3.8	.1	7.0	3.7	--	--	<.009	.51	<.02
29...	--	--	<.02	.052	--	--	--	--	--	--	.018	.06	<.02
JUN													
03...	.18	--	<.02	.064	1.3	<.1	3.1	1.3	--	--	<.009	.04	<.02
10...	--	--	E.02	.066	--	--	--	--	--	--	<.009	.05	<.02
17...	--	--	<.02	.102	--	--	--	--	--	--	.020	.27	<.02
24...	--	--	<.02	.084	--	--	--	--	--	--	<.009	.05	<.02
JUL													
01...	--	--	.04	.109	--	--	--	--	--	--	<.009	.04	<.02
08...	.03	--	.04	.080	.4	<.1	3.0	.4	--	--	<.009	.06	<.02
16...	--	--	.04	.068	--	--	--	--	--	--	<.009	<.02	<.02
22...	--	--	.02	.163	--	--	--	--	--	--	<.009	.12	<.02
AUG													
08...	.10	--	.06	.095	.4	<.1	3.6	.4	--	--	<.009	<.02	<.02
21...	--	--	.02	.089	--	--	--	--	--	--	<.009	E.01	<.02
SEP													
09...	.05	--	E.02	.086	.6	<.1	3.5	.6	--	--	<.009	<.02	<.02

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	3HYDRXY CARBO-FURAN WAT,FLT GF 0.7U REC (UG/L) (49308)	3-KETO CARBO-FURAN WATER FLTRD REC (UG/L) (50295)	ACETO-CHLOR ESA FLTRD 0.7 UM GF REC (UG/L) (61029)	ACETO-CHLOR OA FLTRD 0.7 UM GF REC (UG/L) (61030)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ACIFL-UORFEN WATER, FLTRD, GF 0.7U REC (UG/L) (49315)	ALA-CHLOR OA FLTRD 0.7 UM GF REC (UG/L) (61031)	ALA-CHLOR ESA WAT FLT GF 0.7U REC (UG/L) (50009)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALDI-CARB SULFONE WAT,FLT GF 0.7U REC (UG/L) (49313)	ALDICA-RB SUL-FOXIDE, WAT,FLT GF 0.7U REC (UG/L) (49314)	ALDI-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (49312)
OCT													
03...	<.002	<.006	<2	--	--	<.004	<.007	--	--	<.002	<.02	<.008	<.04
17...	<.002	<.006	<2	.28	.20	.009	<.007	<.05	.11	.003	<.02	<.008	<.04
NOV													
16...	<.002	<.006	<2	<.05	<.05	<.004	<.007	<.05	.29	<.002	<.02	<.008	<.04
27...	<.002	<.006	<2	--	--	.007	<.007	--	--	<.002	<.02	<.008	<.04
DEC													
13...	<.002	<.006	<2	.12	.06	E.003	<.007	<.05	.09	<.002	<.02	<.008	<.04
26...	<.002	<.006	<2	--	--	<.004	<.007	--	--	<.002	<.02	<.008	<.04
JAN													
10...	<.006	<.006	<2	.07	<.05	<.006	<.007	<.05	.13	<.004	<.02	<.008	<.04
23...	<.006	<.006	<2	--	--	<.006	<.007	--	--	<.004	<.02	<.008	<.04
FEB													
07...	<.006	<.006	<2	.13	.06	<.006	<.007	<.05	.10	<.004	<.02	<.008	<.04
MAR													
07...	<.006	<.006	<2	.10	.05	<.006	<.007	<.05	.12	<.004	<.02	<.008	<.04
APR													
02...	<.006	<.006	<2	.10	.07	<.006	<.118	<.05	.10	<.004	<.02	<.008	<.04
MAY													
06...	<.006	<.006	<2	--	--	.012	<.007	--	--	<.004	<.02	<.008	<.04
14...	<.006	<.006	<2	.14	.13	.122	<.007	<.05	<.05	.006	<.02	<.008	<.04
29...	<.006	<.006	<2	.11	.09	.049	<.007	<.05	.14	<.004	<.02	<.008	<.04
JUN													
03...	<.006	<.006	<2	.09	.08	.027	<.007	<.05	.13	<.004	<.02	<.008	<.04
10...	<.006	<.006	<2	.12	.12	.511	<.007	<.05	.14	<.004	<.02	<.008	<.04
17...	<.006	<.006	<2	.32	.38	.129	<.007	<.05	.11	.006	<.02	<.008	<.04
24...	<.006	<.006	<2	.12	.09	.014	<.007	<.05	.12	<.004	<.02	<.008	<.04
JUL													
01...	<.006	<.006	<2	.56	.61	.070	<.007	<.05	.05	<.004	<.02	<.008	<.04
08...	<.006	<.006	<2	.48	.68	.048	<.007	<.05	.09	<.004	<.02	<.008	<.04
16...	<.006	<.006	<2	.21	.18	.050	<.007	<.05	.08	<.004	<.02	<.008	<.04
22...	<.006	<.006	<2	.34	.44	.114	<.007	<.05	.09	<.004	<.02	<.008	<.04
AUG													
08...	<.006	<.006	<2	.07	<.05	.006	<.007	<.05	.10	<.004	<.02	<.008	<.04
21...	<.006	<.006	<2	<.05	<.05	<.006	<.007	<.05	.09	<.004	<.02	<.008	<.04
SEP													
09...	<.006	<.006	<2	<.05	<.05	E.004	<.007	<.05	.10	<.004	<.02	<.008	<.04

Date	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BENDIO-CARB, WATER FLTRD REC (UG/L) (50299)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BENOMYL WATER FLTRD REC (UG/L) (50300)	BEN-SUL-FURON METHYL WAT FLT REC (UG/L) (61693)	BENTA-ZON, WATER, FLTRD, GF 0.7U REC (UG/L) (38711)	BRO-MACIL, WATER, DISS, REC (UG/L) (04029)	BRO-MOXYNIL WATER, FLTRD, GF 0.7U REC (UG/L) (49311)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAF-FEINE, WATER FLTRD REC (UG/L) (50305)	CAR-BARYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49310)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)
OCT													
03...	<.005	.119	<.03	<.010	<.004	<.02	E.01	<.03	<.02	<.002	.020	<.03	<.041
17...	<.005	.123	<.03	<.010	<.004	<.02	E.01	<.03	<.02	<.002	.021	<.03	<.041
NOV													
16...	<.005	.057	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	.024	<.03	<.041
27...	<.005	.061	<.03	<.010	<.004	<.02	E.01	<.03	<.02	<.002	.026	<.03	<.041
DEC													
13...	<.005	.078	<.03	<.010	<.004	<.02	E.02	<.03	<.02	<.002	E.035	<.03	<.041
26...	<.005	.079	<.03	<.010	<.004	<.02	E.01	<.03	<.02	<.002	.040	<.03	<.041
JAN													
10...	<.005	.039	<.03	<.010	<.004	<.02	E.01	<.03	<.02	<.002	.036	<.03	<.041
23...	<.005	.034	<.03	<.010	<.004	<.02	E.01	<.03	<.02	<.002	.041	<.03	<.041
FEB													
07...	<.005	.076	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	.026	<.03	<.041
MAR													
07...	<.005	.070	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	.028	<.03	<.041
APR													
02...	<.005	.077	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	.022	<.03	<.041
MAY													
06...	<.005	.731	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	.015	<.03	<.041
14...	<.005	4.01	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	<.010	<.03	<.041
29...	<.005	.675	<.03	<.010	<.004	<.02	E.01	<.03	<.02	<.002	.023	<.03	<.041
JUN													
03...	<.005	.518	<.03	<.010	<.004	<.02	E.01	<.03	<.02	<.002	.015	<.03	<.041
10...	<.005	1.85	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	<.010	<.03	<.041
17...	<.005	3.52	<.03	<.010	<.004	<.02	E.01	<.03	<.02	<.002	.086	<.03	<.041
24...	<.005	.656	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	<.010	<.03	<.041
JUL													
01...	<.005	1.82	<.03	<.010	<.004	<.02	E.38	<.03	<.02	<.002	<.010	<.03	<.041
08...	<.005	1.08	<.03	<.010	<.004	<.02	E.03	<.03	<.02	<.002	<.010	<.03	<.041
16...	<.005	.736	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	<.010	<.03	<.041
22...	<.005	2.04	<.03	<.010	<.004	<.02	E.01	<.03	<.02	<.002	<.010	E.01	E.012
AUG													
08...	<.005	.216	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	E.111	<.03	<.041
21...	<.005	.096	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	<.010	<.03	<.041
SEP													
09...	<.005	.060	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	.013	<.03	<.041

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CARBO-FURAN, WATER, FLTRD, GF 0.7U REC (UG/L) (49309)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-AMBEN, METHYL ESTER WATER FLTRD (UG/L) (61188)	CHLORI-MURON, WATER FLTRD REC (UG/L) (50306)	CHLORO-THALO-NIL, WAT,FLT GF 0.7U REC (UG/L) (49306)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CLOPYR-ALID, WATER, FLTRD, GF 0.7U REC (UG/L) (49305)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	CY-CLOATE, WATER, DISS, REC (UG/L) (04031)	DACTHAL MONO-ACID, WAT,FLT GF 0.7U REC (UG/L) (49304)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DEETHYL DEISO-PROPYL ATRAZIN DISS, REC (UG/L) (04039)
OCT													
03...	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.045	<.01
17...	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	--	<.003	E.09	<.01
NOV													
16...	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.03	E.02
27...	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.03	<.01
DEC													
13...	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.032	E.04
26...	<.006	<.020	<.02	E.008	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.036	<.01
JAN													
10...	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.016	E.01
23...	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.007	<.01
FEB													
07...	<.006	<.020	<.02	E.007	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.043	<.01
MAR													
07...	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.034	<.01
APR													
02...	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.028	E.01
MAY													
06...	<.006	<.020	.02	E.016	<.04	<.005	<.01	E.015	<.01	<.01	<.003	E.058	E.02
14...	<.006	<.020	<.02	E.079	<.04	<.005	<.01	.135	<.01	<.01	<.003	E.254	<.01
29...	<.006	<.020	<.02	<.010	<.04	<.005	<.01	E.007	<.01	<.01	<.003	E.057	<.01
JUN													
03...	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.065	E.02
10...	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.129	<.01
17...	E.004	<.020	<.02	E.015	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.345	E.07
24...	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.080	<.01
JUL													
01...	<.006	<.020	<.02	<.010	<.04	<.005	.06	E.009	<.01	<.01	<.003	E.263	E.07
08...	<.006	<.020	<.02	<.010	<.04	<.005	.07	E.006	<.01	<.01	<.003	E.160	<.01
16...	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.093	<.01
22...	.007	E.014	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.212	<.01
AUG													
08...	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.036	<.01
21...	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.015	<.01
SEP													
09...	<.006	<.020	<.02	<.010	<.04	<.005	<.01	E.006	<.01	<.01	<.003	E.009	<.01

Date	DEISO-PROPYL ATRAZIN WATER, DISS, REC (UG/L) (04038)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DICAMBA WATER, FLTRD, GF 0.7U REC (UG/L) (38442)	DICHLOR PROP, WATER, FLTRD, GF 0.7U REC (UG/L) (49302)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DIMETH-ENAMID OA, WATER FLT, REC (UG/L) (62482)	DIMETH-ENAMID, ESA, WAT FLT (UG/L) (61951)	DINOSEB WATER, FLTRD, GF 0.7U REC (UG/L) (49301)	DIPHEN-AMID, WATER, DISS, REC (UG/L) (04033)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	DIURON, WATER, FLTRD, GF 0.7U REC (UG/L) (49300)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)
OCT													
03...	E.02	<.005	<.01	<.01	<.005	--	--	<.01	E.02	<.02	<.01	<.002	<.009
17...	E.04	.008	<.01	<.01	<.005	<.05	<.05	<.01	M	<.02	<.01	<.002	<.009
NOV													
16...	E.01	<.005	<.01	<.01	<.005	<.05	<.05	<.01	E.01	<.02	<.01	<.002	<.009
27...	E.02	<.005	<.01	<.01	<.005	--	--	<.01	E.01	<.02	<.01	<.002	<.009
DEC													
13...	E.01	<.005	<.01	<.01	<.005	<.05	<.05	<.01	E.01	<.02	<.01	<.002	<.009
26...	E.01	<.005	<.01	<.01	<.005	--	--	<.01	E.01	<.02	<.01	<.002	<.009
JAN													
10...	<.04	<.005	<.01	<.01	<.005	<.05	<.05	<.01	E.01	<.02	<.01	<.002	<.009
23...	<.04	<.005	<.01	<.01	<.005	--	--	<.01	E.02	<.02	<.01	<.002	<.009
FEB													
07...	E.01	<.005	<.01	<.01	<.005	<.05	<.05	<.01	E.01	<.02	<.01	<.002	<.009
MAR													
07...	E.01	<.005	<.01	<.01	<.005	<.05	<.05	<.01	E.01	<.02	<.01	<.002	<.009
APR													
02...	E.01	<.005	<.01	<.01	<.005	<.05	<.05	<.01	E.01	<.02	<.01	<.002	<.009
MAY													
06...	E.01	E.003	<.01	<.01	<.005	--	--	<.01	<.03	<.02	<.01	<.002	<.009
14...	E.13	.009	<.01	<.01	<.005	<.05	<.05	<.01	M	<.02	<.01	<.002	<.009
29...	<.04	<.005	<.01	<.01	<.005	<.05	<.05	<.01	E.01	<.02	<.01	<.002	<.009
JUN													
03...	E.02	<.005	<.01	<.01	<.005	<.05	<.05	<.01	<.03	<.02	<.01	<.002	<.009
10...	E.15	<.005	<.01	<.01	<.005	<.05	<.05	<.01	<.03	<.02	<.01	<.002	<.009
17...	E.12	<.005	.04	<.01	<.005	<.05	<.05	<.01	E.01	<.02	<.01	<.002	<.009
24...	E.04	<.005	<.01	<.01	<.005	<.05	<.05	<.01	E.01	<.02	<.01	<.002	<.009
JUL													
01...	E.07	E.004	<.01	<.01	<.005	<.05	<.05	<.01	E.01	<.02	<.01	<.002	<.009
08...	E.09	<.005	<.01	<.01	<.005	<.05	<.05	<.01	E.01	<.02	<.01	<.002	<.009
16...	E.04	<.005	<.01	<.01	<.005	<.05	<.05	<.01	E.01	<.02	<.01	<.002	<.009
22...	E.14	.024	<.01	<.01	<.005	<.05	<.05	<.01	E.01	<.02	<.01	<.002	<.009
AUG													
08...	E.02	E.003	<.01	<.01	<.005	<.05	<.05	<.01	E.02	<.02	<.01	<.002	<.009
21...	<.04	<.005	<.01	<.01	<.005	<.05	<.05	<.01	E.02	<.02	<.01	<.002	<.009
SEP													
09...	<.04	<.005	<.01	<.01	<.005	<.05	<.05	<.01	E.01	<.02	<.01	<.002	<.009

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FEN-URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49297)	FLUFEN-ACET, ESA, WAT FLT (UG/L) (61952)	FLUFE-NACET OA, WATER FLT, REC (UG/L) (62483)	FLUMET-SULAM WATER FLTRD REC (UG/L) (61694)	FLUO-METURON WATER, FLTRD, GF 0.7U REC (UG/L) (38811)	FONOFOS WATER DISS REC (UG/L) (04095)	HYDROXY ATRA-ZINE WATER FLTRD REC (UG/L) (50355)	IMAZ-AQUIN WATER FLTRD REC (UG/L) (50356)	IMAZE-THAPYR WATER FLTRD REC (UG/L) (50407)	IMID-ACLOP-RID WATER FLTRD REC (UG/L) (61695)	LINDANE DIS-SOLVED (UG/L) (39341)	LINURON WATER, FLTRD, GF 0.7U REC (UG/L) (38478)
OCT													
03...	<.005	<.03	--	--	<.01	<.03	<.003	E.161	<.02	<.02	<.007	<.004	<.01
17...	<.005	<.03	<.05	<.05	<.01	<.03	<.003	E.252	E.01	E.04	<.007	<.004	<.01
NOV													
16...	<.005	<.03	<.05	<.05	<.01	<.03	<.003	E.093	M	E.01	<.007	<.004	<.01
27...	<.005	<.03	--	--	<.01	<.03	<.003	E.143	E.07	E.02	<.007	<.004	<.01
DEC													
13...	<.005	<.03	<.05	<.05	<.01	<.03	<.003	E.199	E.10	E.02	<.007	<.004	<.01
26...	<.005	<.03	--	--	<.01	<.03	<.003	E.106	E.06	E.02	<.007	<.004	<.01
JAN													
10...	<.005	<.03	<.05	<.05	<.01	<.03	<.003	E.076	E.03	E.01	<.007	<.004	<.01
23...	<.005	<.03	--	--	<.01	<.03	<.003	E.077	E.01	E.01	<.007	<.004	<.01
FEB													
07...	<.005	<.03	<.05	<.05	<.01	<.03	<.003	E.094	E.03	<.02	<.007	<.004	<.01
MAR													
07...	<.005	<.03	<.05	<.05	<.01	<.03	<.003	E.080	E.02	<.02	<.007	<.004	<.01
APR													
02...	<.005	<.03	<.05	<.05	<.01	<.03	<.003	E.094	E.02	<.02	<.007	<.004	<.01
MAY													
06...	<.005	<.03	--	--	<.01	<.03	<.003	E.157	E.03	<.02	<.007	<.004	<.01
14...	<.005	<.03	.06	<.05	<.01	<.03	<.003	E.526	E.18	E.02	<.007	<.004	<.01
29...	<.005	<.03	<.05	<.05	<.01	<.03	<.003	E.362	E.02	E.01	<.007	<.004	<.01
JUN													
03...	<.005	<.03	<.05	<.05	<.01	<.03	<.003	E.191	E.02	E.01	<.007	<.004	<.01
10...	<.005	<.03	<.05	<.05	<.01	<.03	<.003	E.275	E.02	<.02	<.007	<.004	<.01
17...	<.005	<.03	<.05	<.05	<.01	<.03	<.003	E.456	E.04	E.07	<.007	<.004	<.01
24...	<.005	<.03	<.05	<.05	<.01	<.03	<.003	E.177	E.01	<.02	<.007	<.004	<.01
JUL													
01...	<.005	<.03	<.05	<.05	<.01	<.03	<.003	E.539	E.02	E.04	<.007	<.004	<.01
08...	<.005	<.03	<.05	<.05	<.01	<.03	<.003	E.246	<.02	<.02	<.007	<.004	<.01
16...	<.005	<.03	<.05	<.05	<.01	<.03	<.003	E.169	<.02	<.02	<.007	<.004	<.01
22...	<.005	<.03	<.05	<.05	<.01	<.03	<.003	E.504	E.01	<.02	<.007	<.004	<.01
AUG													
08...	<.005	<.03	<.05	<.05	<.01	<.03	<.003	E.188	<.02	<.02	<.007	<.004	<.01
21...	<.005	<.03	<.05	<.05	<.01	<.03	<.003	E.197	<.02	<.02	<.007	<.004	<.01
SEP													
09...	<.005	<.03	<.05	<.05	<.01	<.03	<.003	E.106	<.02	<.02	<.007	<.004	<.01

Date	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	MCPA, WATER, FLTRD, GF 0.7U REC (UG/L) (38482)	MCPB, WATER, FLTRD, GF 0.7U REC (UG/L) (38487)	METAL-AXYL WATER FLTRD REC (UG/L) (50359)	METHIO-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (38501)	METH-OMYL OXIME WATER FLTRD REC (UG/L) (61696)	METH-OMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49296)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METOLA-CHLOR ESA FLTRD 0.7 UM GF REC (UG/L) (61043)	METOLA-CHLOR OA FLTRD 0.7 UM GF REC (UG/L) (61044)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)
OCT													
03...	<.035	<.027	<.02	<.01	<.02	<.008	<.01	<.004	<.050	<.006	--	--	.022
17...	<.035	<.027	<.02	<.01	<.02	<.008	<.01	<.004	<.050	<.006	.91	.39	.042
NOV													
16...	<.035	<.027	<.02	<.01	<.02	<.008	<.01	<.004	<.050	<.006	.52	.13	E.011
27...	<.035	<.027	<.02	<.01	<.02	<.008	--	<.004	<.050	<.006	--	--	.024
DEC													
13...	<.035	<.027	<.02	<.01	<.02	<.008	--	<.004	<.050	<.006	.48	.14	E.010
26...	<.035	<.027	<.02	<.01	<.02	<.008	--	<.004	<.050	<.006	--	--	.013
JAN													
10...	<.035	<.027	<.02	<.01	<.02	<.008	--	<.004	<.050	<.006	.36	.09	E.006
23...	<.035	<.027	<.02	<.01	<.02	<.008	--	<.004	<.050	<.006	--	--	E.005
FEB													
07...	<.035	<.027	<.02	<.01	<.02	<.008	--	<.004	<.050	<.006	.52	.20	.016
MAR													
07...	<.035	<.027	<.02	<.01	<.02	<.008	--	<.004	<.050	<.006	.49	.17	E.010
APR													
02...	<.035	<.027	<.11	<.01	<.02	<.008	--	<.004	<.050	<.006	.44	.12	.015
MAY													
06...	<.035	<.027	<.02	<.01	<.02	<.008	--	<.004	<.050	<.006	--	--	.128
14...	<.035	<.027	.03	<.01	<.02	<.008	--	<.004	<.050	<.006	.30	.21	.481
29...	<.035	<.027	<.02	<.01	E.01	<.008	--	<.004	<.050	<.006	.53	.15	.087
JUN													
03...	<.035	<.027	<.02	<.01	M	<.008	--	<.004	<.050	<.006	.45	.14	.069
10...	<.035	<.027	<.02	<.01	<.02	<.008	--	<.004	<.050	<.006	.54	.16	.104
17...	<.035	<.027	<.02	<.01	E.01	<.008	--	<.004	<.050	<.006	.66	.33	.495
24...	<.035	<.027	<.02	<.01	<.02	<.008	--	<.004	<.050	<.006	.42	.14	.043
JUL													
01...	<.035	<.027	<.02	<.01	.02	<.008	--	<.004	<.050	<.006	.65	.35	.365
08...	<.035	<.027	<.02	<.01	<.02	<.008	--	<.004	<.050	<.006	.48	.18	.117
16...	<.035	<.027	<.02	<.01	<.02	<.008	--	<.004	<.050	<.006	.48	.20	.161
22...	<.035	<.027	.02	<.01	<.02	<.008	--	<.004	<.050	<.006	.55	.44	.547
AUG													
08...	<.035	<.027	<.02	<.01	<.02	<.008	--	<.004	<.050	<.006	.18	.08	.046
21...	<.035	<.027	<.02	<.01	<.02	<.008	--	<.004	<.050	<.006	.13	.06	.022
SEP													
09...	<.035	<.027	<.02	<.01	<.02	<.008	--	<.004	<.050	<.006	.13	.05	.014

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MET-SUL-FURON METHYL WAT FLT REC (UG/L) (61697)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	NEB-URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49294)	NICOSUL FURON WATER FLTRD REC (UG/L) (50364)	NORFLUR AZON, WATER, FLTRD, GF 0.7U REC (UG/L) (49293)	ORY-ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292)	OXAMYL OXIME WATER FLTRD REC (UG/L) (50410)	OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)
OCT													
03...	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	<.01	<.01	<.003	<.007	<.002
17...	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	<.01	<.01	<.003	<.007	<.002
NOV													
16...	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	<.01	<.01	<.003	<.007	<.002
27...	.010	--	<.002	<.007	<.01	<.01	<.02	<.02	--	<.01	<.003	<.007	<.002
DEC													
13...	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	--	<.01	<.003	<.007	<.002
26...	.007	<.03	<.002	<.007	<.01	<.01	<.02	<.02	--	<.01	<.003	<.007	<.002
JAN													
10...	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	--	<.01	<.003	<.010	<.004
23...	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	--	<.01	E.001	<.010	<.004
FEB													
07...	.009	<.03	<.002	<.007	<.01	<.01	<.02	<.02	--	<.01	<.003	<.010	<.004
MAR													
07...	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	--	<.01	<.003	<.010	<.004
APR													
02...	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	--	<.01	<.003	<.010	<.004
MAY													
06...	E.004	<.03	<.002	<.007	<.01	<.01	<.02	<.02	--	<.01	<.003	<.010	<.004
14...	.041	<.03	<.002	<.007	<.01	<.01	<.02	<.02	--	<.01	<.003	<.010	<.004
29...	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	--	<.01	<.003	<.010	<.004
JUN													
03...	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	--	<.01	<.003	<.010	<.004
10...	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	--	<.01	<.003	<.010	<.004
17...	.008	<.03	<.002	<.007	<.01	E.06	<.02	<.02	--	<.01	<.003	<.010	<.004
24...	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	--	<.01	<.003	<.010	<.004
JUL													
01...	<.006	<.03	<.002	<.007	<.01	E.04	<.02	<.02	--	<.01	<.003	<.010	<.004
08...	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	--	<.01	<.003	<.010	<.004
16...	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	--	<.01	<.003	<.010	<.004
22...	<.006	<.03	<.002	<.007	<.01	E.05	<.02	<.02	--	<.01	<.003	<.010	<.004
AUG													
08...	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	--	<.01	<.003	<.010	<.004
21...	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	--	<.01	<.003	<.010	<.004
SEP													
09...	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	--	<.01	<.003	<.010	<.004

Date	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PIC-LORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PRO-PHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)	PROP-ICONA-ZOLE , WATER FLTRD REC (UG/L) (50471)	PRO-POXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538)	SIDURON WATER FLTRD REC (UG/L) (38548)
OCT													
03...	<.010	<.006	<.011	<.02	E.01	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02
17...	<.010	<.006	<.011	<.02	E.01	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02
NOV													
16...	<.010	<.006	<.011	<.02	<.01	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02
27...	<.010	<.006	<.011	<.02	E.01	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02
DEC													
13...	<.010	<.006	<.011	<.02	E.01	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02
26...	<.010	<.006	<.011	<.02	M	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02
JAN													
10...	<.022	<.006	<.011	<.02	M	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02
23...	<.022	<.006	<.011	<.02	<.01	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02
FEB													
07...	<.022	<.006	<.011	<.02	<.01	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02
MAR													
07...	<.022	<.006	<.011	<.02	M	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02
APR													
02...	<.022	<.006	<.011	<.02	M	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02
MAY													
06...	<.022	<.006	<.011	<.02	E.01	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02
14...	<.022	<.006	<.011	<.02	E.01	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02
29...	<.022	<.006	<.011	<.02	M	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02
JUN													
03...	<.022	<.006	<.011	<.02	E.01	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02
10...	<.022	<.006	<.011	<.02	E.01	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02
17...	<.022	<.006	<.011	<.02	.02	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02
24...	<.022	<.006	<.011	<.02	E.01	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02
JUL													
01...	<.022	<.006	<.011	<.02	.02	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02
08...	<.022	<.006	<.011	<.02	E.01	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02
16...	<.022	<.006	<.011	<.02	.06	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02
22...	<.022	<.006	<.011	<.02	.09	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02
AUG													
08...	<.022	<.006	<.011	<.02	.02	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02
21...	<.022	<.006	<.011	<.02	E.01	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02
SEP													
09...	<.022	<.006	<.011	<.02	E.01	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	SULFO-MET-RURON METHYL WTR FLT REC (UG/L) (50337)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL, WATER, DISS, REC (UG/L) (04032)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-BENURON METHYL WATER FLTRD (UG/L) (61159)	TRI-CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	UREA 3(4-CHLOR OPHENYL METHYL WAT FLT REC (UG/L) (61692)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT													
03...	E.004	<.009	<.02	<.010	<.060	<.02	<.005	<.002	<.009	<.02	<.009	<.02	64
17...	.075	<.009	E.003	<.010	<.034	<.02	<.005	<.002	<.009	<.02	<.009	<.02	79
NOV													
16...	E.006	<.009	<.002	<.010	<.034	<.02	<.005	<.002	<.009	<.02	<.009	<.02	52
27...	.028	<.009	E.003	<.010	<.034	<.02	<.005	<.002	--	<.02	<.009	<.02	82
DEC													
13...	.020	<.009	E.01	<.010	<.034	<.02	<.005	<.002	--	<.02	<.009	<.02	54
26...	E.009	<.009	E.01	<.010	<.034	<.02	<.005	<.002	--	<.02	<.009	<.02	37
JAN													
10...	E.005	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--	.20	<.009	<.02	16
23...	<.005	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--	E.02	<.009	<.02	35
FEB													
07...	.008	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--	<.02	<.009	<.02	65
MAR													
07...	.008	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--	<.02	<.009	<.02	49
APR													
02...	.008	<.009	E.01	<.010	<.034	<.02	<.005	<.002	--	<.02	<.009	<.02	89
MAY													
06...	.021	<.009	E.01	<.010	<.034	<.02	<.005	<.002	--	<.02	<.009	<.02	93
14...	.321	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--	<.02	<.009	<.02	95
29...	.030	<.009	E.01	<.010	<.034	<.02	<.005	<.002	--	<.02	<.009	<.02	59
JUN													
03...	.025	<.009	<.02	<.010	<.034	<.02	<.005	<.002	<.009	<.02	<.009	<.02	89
10...	.020	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--	E3.01	<.009	<.02	92
17...	.032	<.009	E.01	<.010	<.034	<.02	<.005	<.002	--	.37	<.009	<.02	98
24...	.014	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--	.06	<.009	<.02	65
JUL													
01...	.026	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--	.05	<.009	<.02	96
08...	.015	<.009	E.01	<.010	<.034	<.02	<.005	<.002	--	.05	<.009	<.02	94
16...	.013	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--	<.02	<.009	<.02	81
22...	.025	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--	<.02	<.009	<.02	89
AUG													
08...	.006	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--	<.02	<.009	<.02	45
21...	<.005	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--	<.02	<.009	<.02	56
SEP													
09...	.005	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--	<.02	<.009	<.02	52

Date	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT	
03...	15
17...	37
NOV	
16...	13
27...	26
DEC	
13...	27
26...	36
JAN	
10...	32
23...	9.0
FEB	
07...	49
MAR	
07...	35
APR	
02...	18
MAY	
06...	214
14...	111
29...	26
JUN	
03...	30
10...	22
17...	39
24...	44
JUL	
01...	27
08...	6.0
16...	8.0
22...	31
AUG	
08...	14
21...	17
SEP	
09...	10

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 good except for estimated daily discharges, which are poor. Low flow is affected by regulation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	72	447	e33	1570	76	165	164	41	78	15	0.82
2	17	74	247	e31	632	112	126	166	39	60	8.2	0.80
3	14	83	168	e30	313	464	201	138	35	45	8.0	7.1
4	14	64	131	e29	206	218	162	103	31	34	6.5	2.4
5	26	61	101	e28	159	133	120	83	57	29	9.1	1.6
6	98	52	90	e28	111	104	96	90	73	28	8.8	1.6
7	73	48	89	e29	85	86	76	1310	44	21	12	1.9
8	47	45	77	e30	72	77	73	1020	32	22	4.8	0.86
9	33	48	62	e31	65	287	156	624	30	18	4.6	1.2
10	31	40	57	34	58	358	137	337	36	44	4.7	2.5
11	244	38	54	30	69	179	102	196	32	33	12	1.6
12	1050	41	47	32	68	137	209	433	35	26	4.0	7.2
13	498	34	107	27	59	112	559	2360	51	21	2.9	2.4
14	976	32	428	28	47	85	370	1460	192	15	2.7	1.5
15	692	32	519	31	46	78	300	475	84	13	5.5	2.2
16	585	36	286	25	42	196	182	254	88	16	4.4	1.0
17	442	30	1200	23	39	138	122	188	57	14	3.5	1.4
18	265	28	1140	25	39	102	94	140	43	22	2.5	4.5
19	185	33	431	22	41	85	77	104	35	52	15	22
20	139	28	256	22	76	122	69	84	29	45	19	125
21	105	27	171	25	137	126	460	70	23	28	16	161
22	91	25	130	25	99	88	358	59	20	19	5.9	31
23	89	24	126	22	69	71	179	56	18	29	4.6	13
24	430	32	110	33	57	62	132	50	18	19	5.4	13
25	1080	156	93	35	54	484	404	81	164	12	5.8	5.7
26	463	104	78	31	110	600	217	68	327	13	12	3.9
27	241	138	68	29	110	461	265	51	415	7.7	2.8	37
28	157	147	62	30	81	447	1440	49	808	6.1	1.9	41
29	118	554	49	27	---	331	491	43	256	8.0	6.8	15
30	98	917	e41	50	---	398	251	44	126	15	2.1	11
31	79	---	e37	277	---	242	---	38	---	17	1.6	---
TOTAL	8399	3043	6902	1152	4514	6459	7593	10338	3239	809.8	218.1	521.18
MEAN	270.9	101.4	222.6	37.16	161.2	208.4	253.1	333.5	108.0	26.12	7.035	17.37
MAX	1080	917	1200	277	1570	600	1440	2360	808	78	19	161
MIN	14	24	37	22	39	62	69	38	18	6.1	1.6	0.80
CFSM	3.44	1.29	2.83	0.47	2.05	2.64	3.21	4.23	1.37	0.33	0.09	0.22
IN.	3.97	1.44	3.26	0.54	2.13	3.05	3.58	4.88	1.53	0.38	0.10	0.25

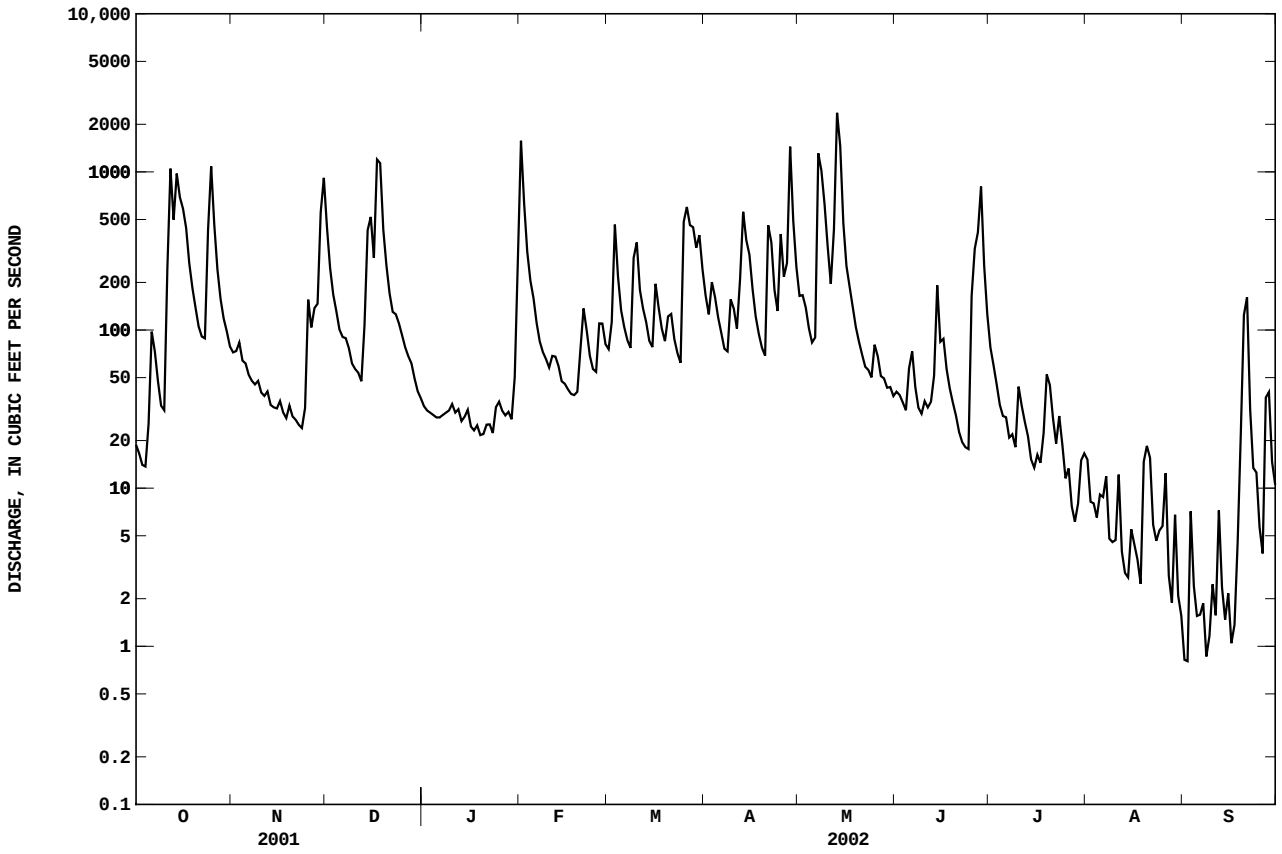
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2002, BY WATER YEAR (WY)

MEAN	39.36	94.62	111.8	111.9	135.0	154.2	138.7	121.8	86.75	65.94	35.48	23.24
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	1989
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 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1968 - 2002	
ANNUAL TOTAL	37046.4		53188.08			
ANNUAL MEAN	101.5		145.7		93.00	
HIGHEST ANNUAL MEAN					146	2002
LOWEST ANNUAL MEAN					36.7	1977
HIGHEST DAILY MEAN	1200	Dec 17	2360	May 13	3570	Nov 14 1993
LOWEST DAILY MEAN	4.7	Sep 5	0.80	Sep 2	0.60	Oct 1 1967
ANNUAL SEVEN-DAY MINIMUM	9.7	Aug 12	1.6	Sep 5	0.98	Sep 22 1999
MAXIMUM PEAK FLOW			2870	May 13	7140	Jul 20 1969
MAXIMUM PEAK STAGE			11.41	May 13	14.99	Jul 20 1969
ANNUAL RUNOFF (CFSM)	1.29		1.85		1.18	
ANNUAL RUNOFF (INCHES)	17.49		25.11		16.04	
10 PERCENT EXCEEDS	216		420		205	
50 PERCENT EXCEEDS	44		57		33	
90 PERCENT EXCEEDS	15		6.0		5.8	

e Estimated

03361850 BUCK CREEK AT ACTON, IN--Continued



03362000 YOUNGS CREEK NEAR EDINBURGH, IN

LOCATION.--Lat 39°25'08", long 86°00'18", in SE¼SW¼ sec.5, T.11 N., R.5 E., Johnson County, Hydrologic Unit 05120204, (FRANKLIN, IN quadrangle), on right bank at downstream side of County Road 400S bridge, 0.5 mi southwest of Amity, 2.0 mi upstream from mouth, and 5.0 mi northwest of Edinburgh.

DRAINAGE AREA.--107 mi².

PERIOD OF RECORD.--October 1942 to current year. Prior to December 1942 monthly discharge only, published in WSP 1305.

REVISED RECORDS.--WSP 1335: 1944. WSP 1909: 1958. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 670.20 ft above National Geodetic Vertical Datum of 1929. Prior to June 30, 1955, nonrecording gage at same site and datum.

REMARKS.--Records fair except those for March 26 to May 8 and estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	103	707	e57	1440	104	297	219	105	53	11	e5.0
2	28	103	385	e54	749	122	234	204	89	e45	10	e4.8
3	25	106	273	e53	383	467	282	150	72	e45	9.9	e4.9
4	24	90	211	e51	258	239	218	124	64	34	9.2	5.2
5	29	80	172	e50	180	157	179	107	63	30	9.2	5.0
6	68	72	158	e53	148	130	151	130	103	27	10	4.9
7	66	68	158	53	129	114	133	2380	94	23	11	4.7
8	47	64	135	e52	111	100	128	3250	71	22	8.7	4.7
9	37	58	113	e51	98	432	311	1840	61	21	7.9	4.6
10	41	55	99	51	94	618	271	661	209	e19	7.4	4.8
11	302	52	89	50	91	289	193	368	118	19	7.3	4.8
12	1140	47	86	48	87	219	453	391	108	17	7.6	4.9
13	593	45	186	48	77	178	1510	3140	84	16	8.1	5.0
14	1310	45	562	45	71	144	1110	2600	107	15	9.6	6.1
15	1150	44	714	44	68	128	834	727	90	15	9.5	6.6
16	751	42	417	40	64	272	389	399	72	14	8.9	6.6
17	646	40	1680	40	60	210	255	294	58	16	e7.3	5.9
18	371	38	1950	38	55	161	190	243	49	21	e7.0	5.6
19	270	39	702	38	56	135	153	184	44	18	e7.3	5.8
20	207	39	405	38	86	245	130	149	40	17	11	69
21	164	36	292	38	141	275	412	125	36	14	11	115
22	137	35	234	36	102	178	941	109	35	e13	8.8	33
23	124	33	214	36	85	141	366	99	33	e12	14	13
24	996	e34	178	54	76	123	246	93	31	13	28	8.3
25	1150	e198	142	62	72	647	336	118	30	13	17	6.2
26	507	e322	124	53	154	1110	222	160	e84	12	11	e5.3
27	290	e442	111	49	163	894	277	114	e129	12	8.6	41
28	204	e719	100	47	120	539	1270	102	307	11	7.7	e48
29	161	1200	88	46	---	526	636	114	107	e10	7.3	e19
30	133	1330	e67	62	---	920	311	96	68	e11	7.0	e11
31	117	---	e62	273	---	435	---	82	---	12	6.0	---
TOTAL	11119	5579	10814	1710	5218	10252	12438	18772	2561	620	304.3	468.7
MEAN	358.7	186.0	348.8	55.16	186.4	330.7	414.6	605.5	85.37	20.00	9.816	15.62
MAX	1310	1330	1950	273	1440	1110	1510	3250	307	53	28	115
MIN	24	33	62	36	55	100	128	82	30	10	6.0	4.6
CFSM	3.35	1.74	3.26	0.52	1.74	3.09	3.87	5.66	0.80	0.19	0.09	0.15
IN.	3.87	1.94	3.76	0.59	1.81	3.56	4.32	6.53	0.89	0.22	0.11	0.16

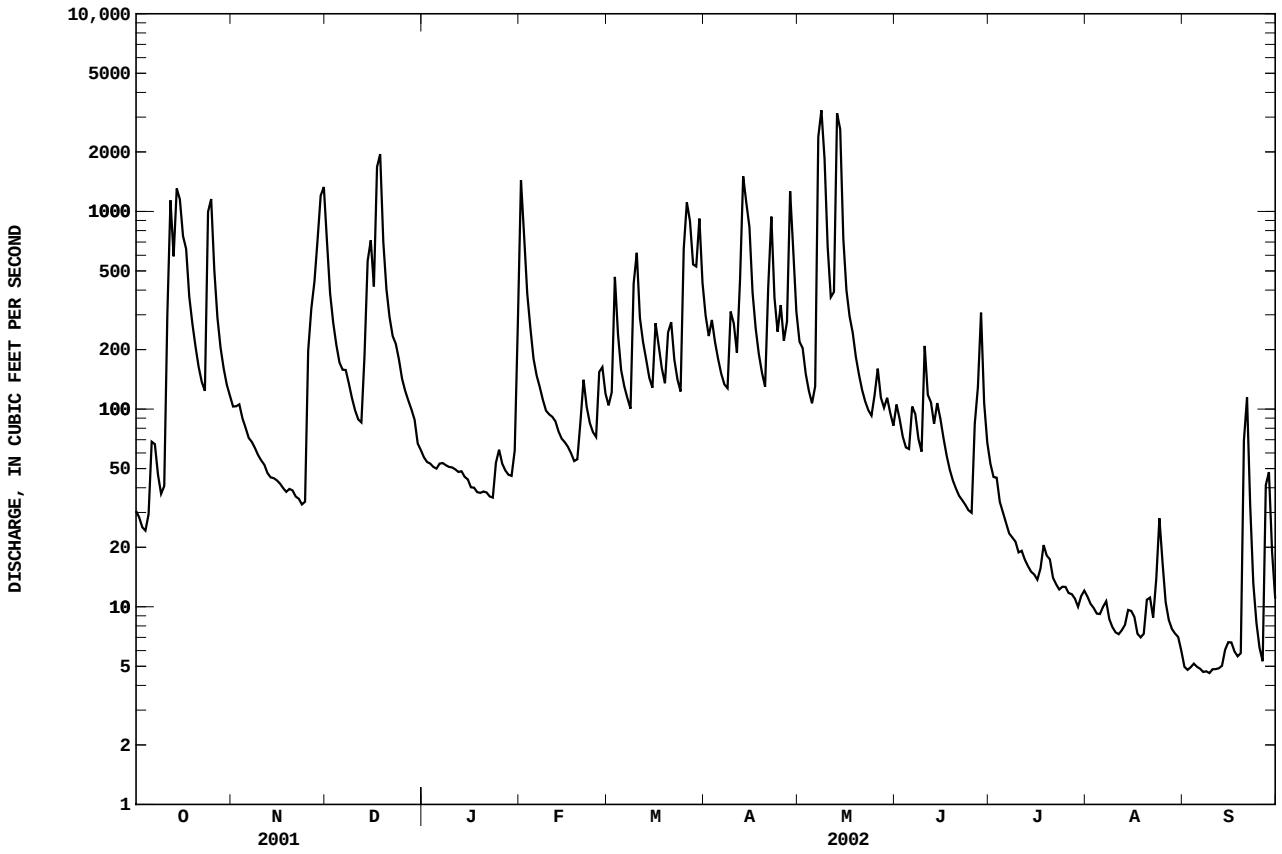
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2002, BY WATER YEAR (WY)

MEAN	31.91	83.73	118.9	154.2	174.1	207.8	185.5	154.8	101.1	71.32	29.17	24.23
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 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1944 - 2002	
ANNUAL TOTAL	50966.2		79856.0			
ANNUAL MEAN	139.6		218.8		111.1	
HIGHEST ANNUAL MEAN					216	2002
LOWEST ANNUAL MEAN					20.3	1954
HIGHEST DAILY MEAN	1950	Dec 18	3250	May 8	6260	May 24 1968
LOWEST DAILY MEAN	7.1	Aug 17	4.6	Sep 9	0.50	Sep 29 1953
ANNUAL SEVEN-DAY MINIMUM	9.2	Aug 11	4.8	Sep 6	0.73	Oct 19 1953
MAXIMUM PEAK FLOW			5590	May 7	10700	Jan 27 1952
MAXIMUM PEAK STAGE			11.19	May 7	13.40	Jan 27 1952
ANNUAL RUNOFF (CFSM)	1.30		2.04		1.04	
ANNUAL RUNOFF (INCHES)	17.72		27.76		14.10	
10 PERCENT EXCEEDS	316		574		250	
50 PERCENT EXCEEDS	61		86		37	
90 PERCENT EXCEEDS	20		8.8		4.7	

e Estimated

03362000 YOUNGS CREEK NEAR EDINBURGH, IN--Continued



03362500 SUGAR CREEK NEAR EDINBURGH, IN

LOCATION.--Lat 39°21'39", long 85°59'51", in SW¼SE¼ sec.29, T.11 N., R.5 E., Johnson County, Hydrologic Unit 05120204, (EDINBURGH, IN quadrangle), on left bank 50 ft upstream from highway bridge in Camp Atterbury, 1.3 mi upstream from confluence with Blue River, 1.5 mi northwest of Edinburgh, and at mile 1.3.

DRAINAGE AREA.--474 mi².

PERIOD OF RECORD.--October 1942 to current year. Prior to February 1943 monthly discharge only, published in WSP 1305. Prior to October 1977, published as "near Edinburg".

REVISED RECORDS.--WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 646.23 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1952, nonrecording gage on downstream side of old highway bridge, 100 ft downstream at same datum.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	163	e364	e2480	e244	e1580	e284	1210	1260	398	412	89	36
2	152	e332	e1420	e228	e1700	e293	909	1010	383	320	82	33
3	142	e311	e938	e217	e1260	e644	890	878	338	265	75	31
4	130	e279	e738	e213	e882	e819	945	761	307	225	70	31
5	131	e262	e622	e209	e602	e715	794	615	303	196	67	33
6	185	e239	e456	e202	e523	e658	645	567	512	175	77	30
7	347	e227	e396	e199	e459	e538	551	3470	482	160	67	28
8	288	e219	e354	e193	e401	464	499	9420	372	146	64	27
9	239	e206	e327	e207	e351	802	717	8540	314	142	58	26
10	201	e194	e310	e203	e309	2350	979	3710	406	136	54	26
11	e348	e188	e296	e193	e277	1340	772	1670	353	176	52	25
12	e709	e174	e294	e187	e262	920	828	1260	373	148	53	25
13	e964	e167	e468	e180	e258	733	3830	6280	332	131	54	24
14	e1370	e163	e846	e177	e239	604	3380	10700	511	121	52	27
15	e1850	e162	e1140	e172	e229	522	3300	8530	577	111	54	31
16	e1380	e157	e908	e168	e218	812	1760	4410	431	104	51	27
17	e1140	e147	e2400	e167	e216	890	1140	1700	407	114	49	27
18	e893	e139	e6850	e160	e214	690	839	1210	315	116	48	26
19	e729	e138	e4210	e155	e208	564	681	928	269	115	49	27
20	e572	e134	e2100	e153	e225	643	579	772	239	545	55	78
21	e455	e130	e1010	e152	e283	861	1110	659	217	520	64	281
22	e353	e128	e759	e147	e256	645	4100	578	200	253	60	197
23	e331	e127	e675	e148	e218	526	1620	528	186	207	55	105
24	e1610	e126	e590	e183	e206	459	1040	489	178	202	84	74
25	e1990	e226	e496	e241	e200	1230	1390	520	171	150	67	62
26	e1610	e370	e409	e225	e298	3520	1280	620	1080	123	58	55
27	e948	e451	e367	e198	e340	3260	939	535	891	113	53	85
28	e674	e723	e339	e191	e312	2240	3760	499	1900	103	49	131
29	e518	e1450	e310	e186	---	1910	5210	510	1180	96	43	118
30	e445	e3020	e285	e216	---	2550	2250	449	594	92	41	83
31	e409	---	e259	e500	---	1750	---	403	---	91	41	---
TOTAL	21276	10953	33052	6214	12526	34236	47947	73481	14219	5808	1835	1809
MEAN	686.3	365.1	1066	200.5	447.4	1104	1598	2370	474.0	187.4	59.19	60.30
MAX	1990	3020	6850	500	1700	3520	5210	10700	1900	545	89	281
MIN	130	126	259	147	200	284	499	403	171	91	41	24
CFSM	1.45	0.77	2.25	0.42	0.94	2.33	3.37	5.00	1.00	0.40	0.12	0.13
IN.	1.67	0.86	2.59	0.49	0.98	2.69	3.76	5.77	1.12	0.46	0.14	0.14

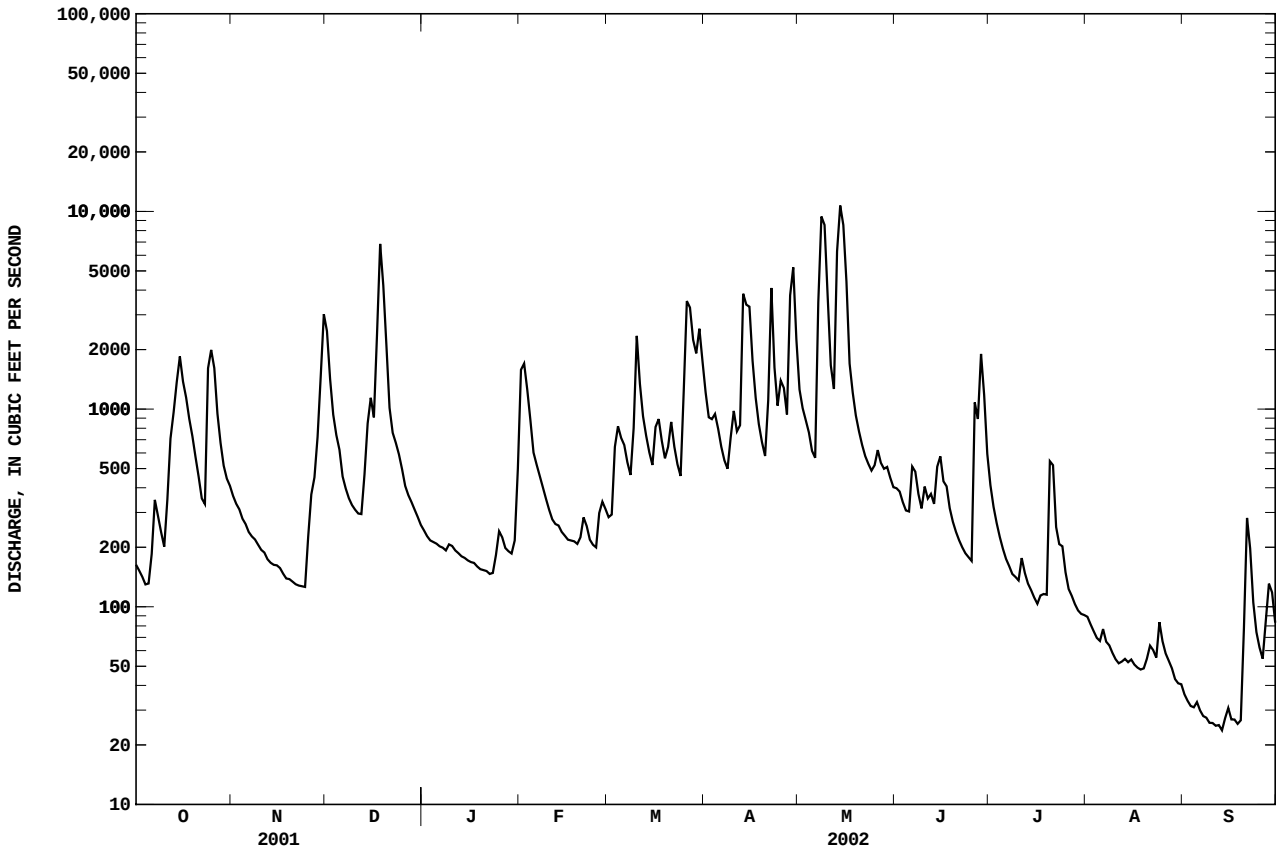
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2002, BY WATER YEAR (WY)

MEAN	149.8	372.0	513.0	692.9	777.4	929.6	848.6	707.8	484.5	321.6	173.2	126.6
MAX	983	2591	1742	4000	2192	2281	2076	2878	2381	1564	1348	1295
(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

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1943 - 2002	
ANNUAL TOTAL	173469		263356			
ANNUAL MEAN	475.3		721.5		506.3	
HIGHEST ANNUAL MEAN					849	1950
LOWEST ANNUAL MEAN					160	1954
HIGHEST DAILY MEAN	6850	Dec 18	10700	May 14	19200	May 29 1956
LOWEST DAILY MEAN	74	Aug 17	24	Sep 13	9.2	Sep 18 1954
ANNUAL SEVEN-DAY MINIMUM	85	Aug 12	26	Sep 8	10	Sep 13 1954
MAXIMUM PEAK FLOW			11000	May 14	27600	May 29 1956
MAXIMUM PEAK STAGE			14.68	May 14	18.38	May 29 1956
ANNUAL RUNOFF (CFSM)	1.00		1.52		1.07	
ANNUAL RUNOFF (INCHES)	13.61		20.67		14.51	
10 PERCENT EXCEEDS	959		1610		1150	
50 PERCENT EXCEEDS	289		310		211	
90 PERCENT EXCEEDS	118		55		46	

e Estimated

03362500 SUGAR CREEK NEAR EDINBURGH, IN--Continued



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 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	312	2170	e242	1790	179	761	876	596	154	24	10
2	80	288	1310	e223	1790	195	616	768	504	136	23	e9.8
3	76	273	857	e215	1020	756	1170	723	337	124	22	e9.5
4	69	251	663	e204	708	739	1010	567	271	113	21	e9.0
5	71	232	544	e200	503	478	705	481	264	103	20	e8.8
6	92	215	495	197	405	369	571	477	724	93	22	e8.4
7	177	204	502	192	359	327	490	2950	662	86	20	e7.8
8	143	193	442	e167	318	292	451	5160	441	81	18	7.0
9	116	182	386	172	285	444	1840	3550	349	77	16	7.8
10	102	170	340	177	281	1100	1850	1770	322	83	15	7.3
11	112	167	315	172	284	753	1050	978	291	124	15	7.2
12	548	154	304	164	292	560	994	906	295	89	21	6.8
13	860	146	625	162	274	469	4190	7550	251	74	21	5.4
14	1310	146	838	154	234	395	4680	7810	428	67	16	4.9
15	1760	142	1150	150	223	362	4450	3700	426	61	18	6.8
16	1620	137	915	139	218	737	2590	1510	420	54	17	6.5
17	1230	132	4890	135	206	808	1160	914	292	52	16	7.9
18	938	127	6130	133	184	587	866	749	233	50	e14	8.1
19	663	128	3650	132	179	470	759	613	201	54	e13	e6.6
20	529	130	1460	130	195	589	688	523	178	52	e13	e5.8
21	431	121	939	128	208	675	1800	454	163	46	e12	5.3
22	363	118	725	125	196	518	2890	398	153	45	e11	7.7
23	326	117	699	122	180	428	1210	364	146	41	e11	12
24	884	119	635	139	173	379	862	335	140	38	e37	11
25	1800	173	518	153	167	783	1140	332	134	35	e27	9.2
26	1610	208	444	147	188	2200	916	366	182	35	e22	10
27	804	296	397	138	191	1780	738	358	227	33	e18	18
28	572	439	358	134	177	1400	2890	329	333	30	16	28
29	469	1620	320	136	---	1200	2580	323	286	31	14	20
30	399	2360	e280	196	---	1660	1360	297	193	29	13	16
31	349	---	e274	464	---	1070	---	269	---	27	11	---
TOTAL	18588	9300	33575	5342	11228	22702	47277	46400	9442	2117	557	288.6
MEAN	599.6	310.0	1083	172.3	401.0	732.3	1576	1497	314.7	68.29	17.97	9.620
MAX	1800	2360	6130	464	1790	2200	4680	7810	724	154	37	28
MIN	69	117	274	122	167	179	451	269	134	27	11	4.9
CFSM	1.98	1.02	3.57	0.57	1.32	2.42	5.20	4.94	1.04	0.23	0.06	0.03
IN.	2.28	1.14	4.12	0.66	1.38	2.79	5.80	5.70	1.16	0.26	0.07	0.04

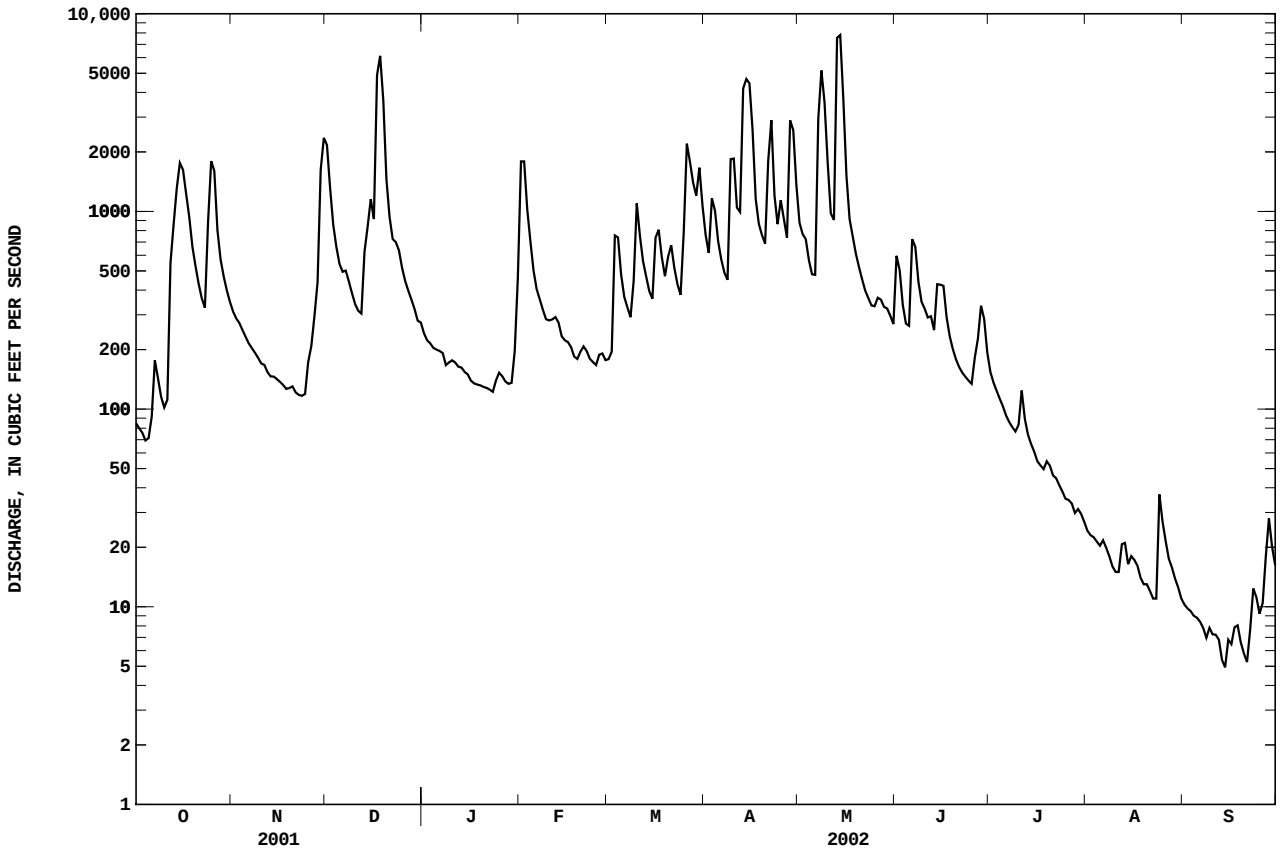
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2002, BY WATER YEAR (WY)

MEAN	90.85	214.5	347.7	485.8	516.6	581.3	589.8	461.8	297.6	187.7	90.03	65.18
MAX	600	1342	1567	3450	1808	1605	1576	1968	1502	915	716	392
(WY)	2002	1994	1991	1937	1950	1961	2002	1996	1998	1979	1979	1989
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

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1931 - 2002	
ANNUAL TOTAL	132972		206816.6			
ANNUAL MEAN	364.3		566.6		326.4	
HIGHEST ANNUAL MEAN					642	1950
LOWEST ANNUAL MEAN					40.6	1941
HIGHEST DAILY MEAN	6130	Dec 18	7810	May 14	16500	Jan 5 1949
LOWEST DAILY MEAN	26	Sep 7	4.9	Sep 14	0.60	Aug 7 1931
ANNUAL SEVEN-DAY MINIMUM	35	Sep 3	6.4	Sep 10	0.80	Oct 12 1963
MAXIMUM PEAK FLOW			10100	May 13	18500	Jan 5 1949
MAXIMUM PEAK STAGE			9.04	May 13	12.37	May 24 1968
ANNUAL RUNOFF (CFSM)	1.20		1.87		1.08	
ANNUAL RUNOFF (INCHES)	16.33		25.39		14.64	
10 PERCENT EXCEEDS	782		1330		751	
50 PERCENT EXCEEDS	189		242		134	
90 PERCENT EXCEEDS	70		15		16	

e Estimated

03363500 FLATROCK RIVER AT ST. PAUL, IN--Continued



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 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	159	607	3310	e450	1840	400	1200	1450	658	356	97	53
2	152	564	2050	e420	2420	408	990	1200	812	315	95	52
3	147	529	1330	e400	1660	755	1200	1070	675	288	92	51
4	139	492	1080	e390	1200	1090	1430	934	580	267	89	49
5	134	462	918	e380	958	832	1100	813	532	247	87	48
6	135	433	808	e370	815	692	915	758	637	227	84	48
7	142	406	797	e360	740	622	806	2170	893	207	81	46
8	238	386	749	e350	684	573	743	8670	736	196	77	45
9	219	368	673	e360	631	613	1230	10700	619	193	76	45
10	198	348	594	359	595	1350	2130	5150	607	190	75	45
11	186	333	542	355	582	1210	1480	1960	546	184	71	44
12	448	323	508	342	569	941	1090	1520	554	212	71	43
13	1170	302	687	334	563	821	3560	5700	548	186	81	43
14	1480	291	1050	326	525	738	5890	15200	505	170	79	43
15	2450	285	1460	316	494	676	7790	11100	677	160	75	46
16	2170	277	1280	306	484	856	5420	4170	621	149	67	49
17	1760	269	3050	294	468	1100	2200	1880	607	143	68	47
18	1520	260	11200	287	445	942	1660	1470	503	184	70	46
19	1160	254	9470	280	423	804	1290	1240	449	155	68	45
20	956	254	3740	275	432	840	1190	1070	412	192	67	51
21	806	250	1630	270	450	1060	1250	956	384	205	65	55
22	688	242	1240	265	439	909	4410	864	360	162	62	56
23	613	237	1090	261	417	775	2840	793	343	149	59	51
24	980	235	1020	275	400	707	1500	748	330	141	59	47
25	2420	286	903	296	391	819	1460	719	320	132	60	45
26	2250	406	803	297	407	2330	1400	696	310	126	64	47
27	1580	445	733	287	433	2970	1140	700	356	120	69	57
28	1080	698	675	278	419	1860	2840	666	451	115	61	60
29	888	1620	623	276	---	1560	4350	748	519	110	59	62
30	765	3330	563	341	---	1820	2500	667	427	108	56	63
31	671	---	e490	599	---	1640	---	612	---	102	54	---
TOTAL	27704	15192	55066	10399	19884	32713	67004	86394	15971	5691	2238	1482
MEAN	893.7	506.4	1776	335.5	710.1	1055	2233	2787	532.4	183.6	72.19	49.40
MAX	2450	3330	11200	599	2420	2970	7790	15200	893	356	97	63
MIN	134	235	490	261	391	400	743	612	310	102	54	43
CFSM	1.67	0.95	3.33	0.63	1.33	1.98	4.18	5.22	1.00	0.34	0.14	0.09
IN.	1.93	1.06	3.84	0.72	1.39	2.28	4.67	6.02	1.11	0.40	0.16	0.10

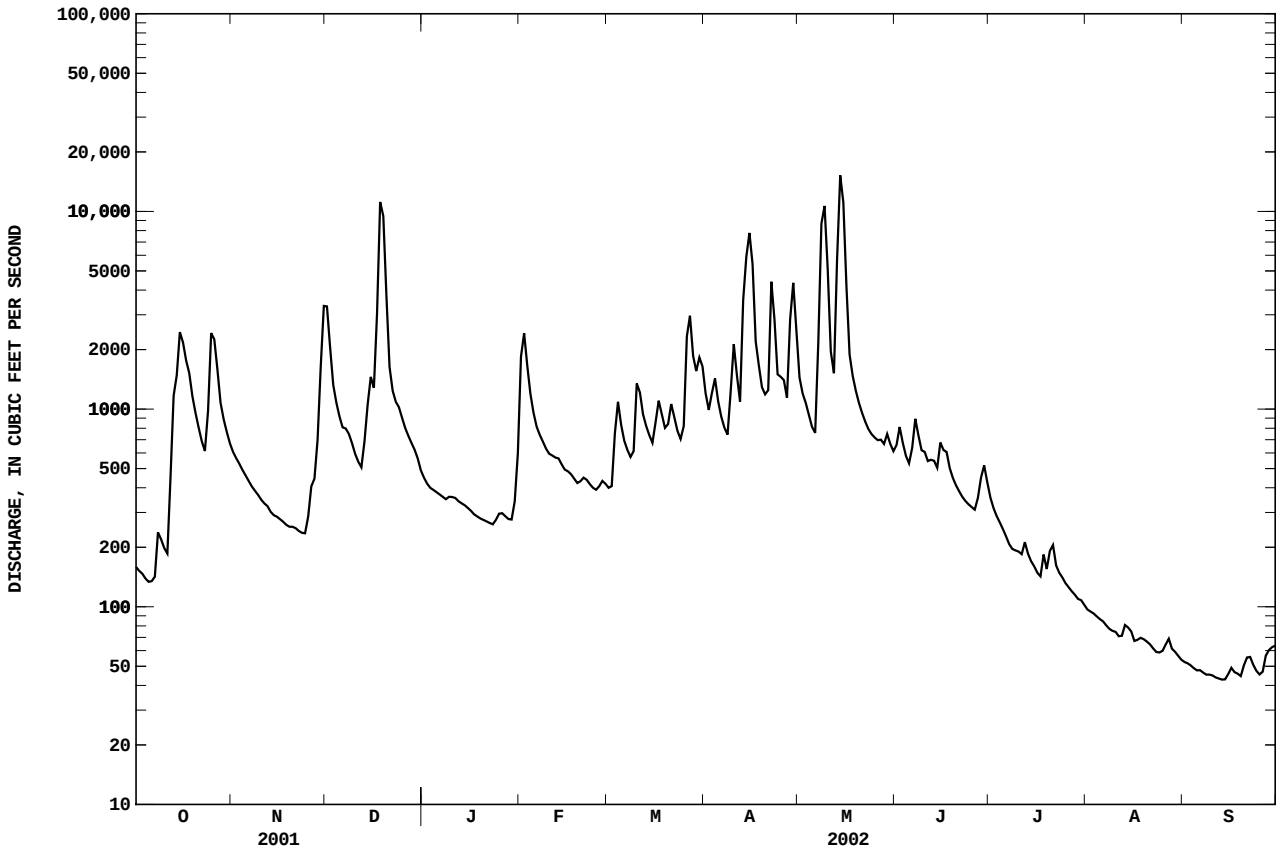
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2002, BY WATER YEAR (WY)

MEAN	189.2	435.3	687.4	722.9	922.8	952.2	1026	943.8	608.1	392.3	243.2	145.5
MAX	912	2336	2092	1827	2524	2223	2301	3871	2728	1556	1296	837
(WY)	1994	1994	1991	1969	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 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1968 - 2002	
ANNUAL TOTAL	211921		339738			
ANNUAL MEAN	580.6		930.8		603.9	
HIGHEST ANNUAL MEAN					949	1996
LOWEST ANNUAL MEAN					271	1977
HIGHEST DAILY MEAN	11200	Dec 18	15200	May 14	18200	Dec 31 1990
LOWEST DAILY MEAN	80	Sep 8	43	Sep 12	13	Sep 18 1999
ANNUAL SEVEN-DAY MINIMUM	98	Aug 24	44	Sep 8	13	Sep 18 1999
MAXIMUM PEAK FLOW			16200	May 14	20000	May 25 1968
MAXIMUM PEAK STAGE			14.76	May 14	15.87	May 25 1968
ANNUAL RUNOFF (CFSM)	1.09		1.74		1.13	
ANNUAL RUNOFF (INCHES)	14.76		23.67		15.37	
10 PERCENT EXCEEDS	1150		1850		1320	
50 PERCENT EXCEEDS	333		484		314	
90 PERCENT EXCEEDS	139		62		59	

e Estimated

03363900 FLATROCK RIVER AT COLUMBUS, IN--Continued



03364000 EAST FORK WHITE RIVER AT COLUMBUS, IN

LOCATION.--Lat 39°12'00", long 85°55'32", in NE¼NW¼ 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 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	723	2270	11400	1630	6720	1550	4570	5580	2000	1640	423	250
2	656	2090	9040	1540	10400	1570	3640	4260	2190	1390	402	240
3	605	2020	5260	1500	8950	3230	3840	3810	1960	1230	389	233
4	553	1990	3920	1450	5240	4660	4350	3330	1750	1110	375	230
5	534	1860	3210	1410	3620	3330	3630	2850	1650	1010	364	222
6	565	1780	2820	1410	2870	2570	3020	2730	2210	922	381	e215
7	817	1660	2690	1380	2480	2230	2650	7080	2750	851	356	e202
8	1040	1590	2500	1310	2210	2010	2450	18100	2330	789	338	e197
9	922	1480	2270	1290	2000	2690	3260	25200	1980	761	330	e192
10	789	1420	2030	1280	1870	5580	5080	17500	1890	754	322	e188
11	922	1360	1880	1290	1800	5110	4110	8210	1770	842	314	e185
12	3460	1310	1790	1240	1770	3630	3370	5150	1820	854	309	e182
13	6540	1240	2220	1210	1740	3010	9410	13400	1800	734	321	e178
14	7510	1200	3600	1190	1620	2620	12400	29700	1810	670	320	174
15	10300	1170	6410	1150	1520	2340	13500	31300	2740	625	319	210
16	11000	1140	6190	1120	1480	2970	11800	19600	2310	577	309	196
17	9400	1110	10400	1080	1420	3890	6700	9560	2130	559	304	185
18	7090	1070	19100	1060	1340	3250	4860	5360	1760	678	306	185
19	5010	1040	20400	1040	1290	2740	3810	4230	1540	586	301	180
20	3760	1040	13500	1020	1340	2980	3360	3580	1400	977	300	234
21	3030	1010	6770	993	1570	3390	4160	3130	1290	1750	311	451
22	2570	979	4640	979	1680	2990	10500	2800	1220	1070	308	588
23	2290	952	3930	962	1540	2530	8680	2560	1150	821	299	384
24	5550	958	3530	1060	1420	2280	4800	2420	1080	772	322	308
25	9650	1510	3080	1140	1340	2990	5020	2480	1040	657	325	273
26	10300	1900	2700	1150	1490	8440	4980	2530	1760	576	331	257
27	7800	2130	2460	1100	1740	10200	3990	2470	2690	531	311	321
28	4790	2590	2270	1060	1690	7480	8870	2400	2920	504	294	368
29	3440	6090	2100	1040	---	6220	12300	2520	3230	487	280	407
30	2850	10700	1910	1220	---	6720	11000	2260	2080	462	266	351
31	2510	---	1730	1850	---	6230	---	2040	---	435	260	---
TOTAL	126976	58659	165750	38154	74150	121430	184110	248140	58250	25624	10090	7786
MEAN	4096	1955	5347	1231	2648	3917	6137	8005	1942	826.6	325.5	259.5
MAX	11000	10700	20400	1850	10400	10200	13500	31300	3230	1750	423	588
MIN	534	952	1730	962	1290	1550	2450	2040	1040	435	260	174
CFSM	2.40	1.15	3.13	0.72	1.55	2.29	3.60	4.69	1.14	0.48	0.19	0.15
IN.	2.77	1.28	3.61	0.83	1.62	2.65	4.01	5.41	1.27	0.56	0.22	0.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2002, BY WATER YEAR (WY)

MEAN	628.1	1347	1996	2588	2965	3215	3116	2636	1774	1280	745.2	521.9
MAX	4096	8137	6004	14400	8640	8014	7466	10960	8272	4990	5185	3696
(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

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1949 - 2002	
ANNUAL TOTAL	764934		1119119			
ANNUAL MEAN	2096		3066		1895	
HIGHEST ANNUAL MEAN					3304	1950
LOWEST ANNUAL MEAN					534	1954
HIGHEST DAILY MEAN	20400	Dec 19	31300	May 15	49000	Mar 6 1963
LOWEST DAILY MEAN	357	Sep 7	174	Sep 14	85	Sep 22 1994
ANNUAL SEVEN-DAY MINIMUM	466	Sep 3	185	Sep 8	90	Sep 28 1954
MAXIMUM PEAK FLOW			34400	May 15	52300	Mar 6 1963
MAXIMUM PEAK STAGE			13.12	May 15	16.23	Mar 6 1963
ANNUAL RUNOFF (CFSM)	1.23		1.80		1.11	
ANNUAL RUNOFF (INCHES)	16.67		24.39		15.08	
10 PERCENT EXCEEDS	4470		7490		4260	
50 PERCENT EXCEEDS	1400		1770		977	
90 PERCENT EXCEEDS	562		311		250	

e Estimated

03364000 EAST FORK WHITE RIVER AT COLUMBUS, IN--Continued