

03361638 LEARY-WEBER DITCH AT MOHAWK, IN

LOCATION.--Lat 39°50'33", long 85°49'30", in NW¼SE¼ sec.11, T.16 N., R.6 E., Hancock County, Hydrologic Unit 05120204, (ACTON, IN quadrangle), 60 ft upstream of bridge on County Road 400N, 0.33 mi upstream of Sugar Creek, 0.70 mi east of Mohawk, and 3.06 mi southwest of Maxwell.

DRAINAGE AREA.--2.4 mi<sup>2</sup>.

PERIOD OF RECORD.--July 2002 to current year.

GAGE.--Water-stage recorder. Datum of gage is 850.00 ft from topographic map.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	25	e0.21	e0.50	e3.3	1.1	0.33	0.21	0.27	31
2	0.00	0.00	0.00	15	e0.35	e0.60	e2.6	1.8	0.32	0.20	0.23	38
3	0.00	0.00	0.00	8.1	e0.70	e0.90	2.1	1.2	0.53	0.17	0.19	19
4	0.00	0.00	0.00	5.5	e2.3	e1.4	1.9	1.1	0.41	0.14	0.17	5.4
5	0.00	0.00	0.00	4.4	e1.3	11	5.2	21	0.27	109	0.13	1.9
6	0.00	0.00	0.00	3.4	e0.80	7.6	2.8	8.3	0.26	62	0.06	0.87
7	0.00	0.00	0.00	3.8	e0.60	4.3	2.6	9.0	0.32	37	0.04	0.42
8	0.00	0.00	0.00	7.3	e0.40	22	2.3	4.9	0.31	17	0.02	0.25
9	0.00	0.00	0.00	9.3	e0.26	29	2.0	4.2	0.21	38	0.01	0.14
10	0.00	4.3	0.00	5.2	e0.21	13	1.8	25	0.20	50	0.00	0.08
11	0.00	5.1	0.00	3.6	e0.17	10	1.6	32	0.26	23	0.00	0.04
12	0.00	1.3	0.00	e2.4	e0.13	10	1.3	13	0.68	15	0.00	0.02
13	0.00	0.54	0.00	e1.9	e0.11	23	0.95	6.1	1.5	7.0	0.00	0.01
14	0.00	0.25	0.00	e1.5	e0.09	15	0.93	3.8	5.7	3.8	0.00	0.02
15	0.00	0.11	0.00	e1.2	e0.07	11	0.97	3.1	4.7	4.2	0.00	0.02
16	0.00	0.02	0.31	e1.0	e0.06	8.4	0.98	2.2	2.5	3.5	0.00	0.00
17	0.00	0.00	0.27	e0.78	e0.06	5.9	1.1	1.9	1.8	2.2	0.00	0.00
18	0.00	0.00	1.7	e0.60	e0.06	4.3	0.95	1.6	1.4	1.9	0.00	0.00
19	0.00	0.00	13	e0.50	e0.05	4.4	0.84	1.3	1.2	1.5	0.00	0.00
20	0.00	0.00	13	e0.44	e0.05	e4.6	0.99	1.2	0.83	1.2	0.00	0.00
21	0.00	0.00	4.0	e0.38	e0.10	e9.9	1.3	0.95	0.69	3.5	0.00	0.00
22	0.00	0.00	2.0	e0.33	e13	e6.6	0.96	0.90	0.60	2.6	0.00	0.51
23	0.00	0.00	0.99	e0.29	e23	e4.4	0.72	0.84	0.53	1.6	0.00	0.68
24	0.00	0.00	0.79	e0.26	e4.0	e3.4	0.71	0.82	0.42	1.1	0.00	0.27
25	0.00	0.00	0.49	e0.23	e2.4	e2.7	2.0	0.72	0.39	0.83	0.00	0.18
26	0.00	0.00	0.08	e0.21	e1.6	e3.3	2.8	0.58	0.47	0.68	0.00	0.15
27	0.00	0.00	0.09	e0.19	e1.1	e3.4	1.6	0.51	0.35	0.72	0.00	10
28	0.00	0.00	0.11	e0.17	e0.70	e2.6	1.3	0.61	0.28	0.75	0.00	3.7
29	0.00	0.00	0.06	e0.16	---	e6.8	1.1	0.62	0.23	0.52	0.00	1.8
30	0.00	0.00	10	e0.16	---	e4.6	0.99	0.49	0.19	0.38	0.00	1.2
31	0.00	---	23	e0.18	---	e4.4	---	0.69	---	0.32	0.00	---
TOTAL	0.00	11.62	69.89	103.48	53.88	239.00	50.69	151.53	27.88	390.02	1.12	115.66
MEAN	0.000	0.39	2.25	3.34	1.92	7.71	1.69	4.89	0.93	12.6	0.036	3.86
MAX	0.00	5.1	23	25	23	29	5.2	32	5.7	109	0.27	38
MIN	0.00	0.00	0.00	0.16	0.05	0.50	0.71	0.49	0.19	0.14	0.00	0.00
CFSM	0.00	0.14	0.81	1.20	0.69	2.76	0.61	1.75	0.33	4.51	0.01	1.38
IN.	0.00	0.15	0.93	1.38	0.72	3.19	0.68	2.02	0.37	5.20	0.01	1.54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2003, BY WATER YEAR (WY)

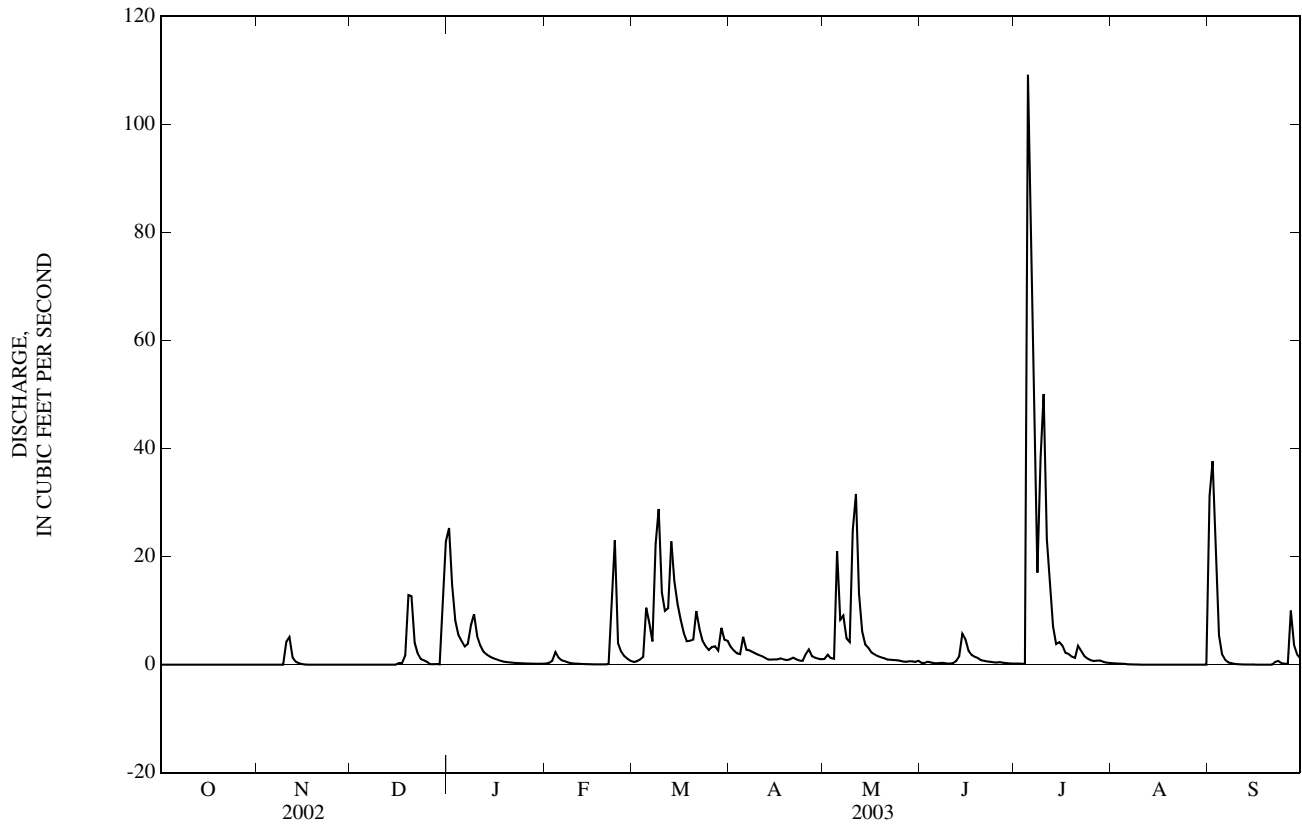
MEAN	0.000	0.39	2.25	3.34	1.92	7.71	1.69	4.89	0.93	7.14	0.018	1.93
MAX	0.000	0.39	2.25	3.34	1.92	7.71	1.69	4.89	0.93	12.6	0.036	3.86
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)
MIN	0.000	0.39	2.25	3.34	1.92	7.71	1.69	4.89	0.93	1.69	0.001	0.000
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(2002)	(2002)

SUMMARY STATISTICS

	FOR 2003 WATER YEAR		WATER YEARS 2002 - 2003	
ANNUAL TOTAL	14.77			
ANNUAL MEAN	3.33		3.33	
HIGHEST ANNUAL MEAN			3.33	
LOWEST ANNUAL MEAN			3.33	
HIGHEST DAILY MEAN	109	Jul 5	109	Jul 5, 2003
LOWEST DAILY MEAN	0.00	Oct 1	0.00	Aug 2, 2002
ANNUAL SEVEN-DAY MINIMUM	0.00	Oct 1	0.00	Aug 2, 2002
MAXIMUM PEAK FLOW	230	Jul 5	230	Jul 5, 2003
MAXIMUM PEAK STAGE	6.93	Jul 5	6.93	Jul 5, 2003
ANNUAL RUNOFF (CFSM)	0.000		0.000	
ANNUAL RUNOFF (INCHES)	0.00		0.00	
10 PERCENT EXCEEDS	8.6		8.6	
50 PERCENT EXCEEDS	0.51		0.51	
90 PERCENT EXCEEDS	0.00		0.00	

e Estimated

03361638 LEARY-WEBER DITCH AT MOHAWK, IN—Continued



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

## WATER-QUALITY RECORDS

These data described in the following table were collected and analyzed as part of the National Water Quality Assessment Program (NAWQA) in the White River Basin, Miami River Basin (WHMI) study units. The objectives of the NAWQA program are to broadly characterize the water-quality of the Nation's streams and aquifers in relation to human and natural factors. This project is one of 42 river basin and aquifer assessment projects being implemented across the nation on a staggered timeline. During the second decade of sampling, 14 of these projects will be actively collecting data. The period of high-intensity data collection for the WHMI project is in water years 2001-2004.

Water quality data from Leary Weber Ditch at Mohawk, IN are being reported as part of the NAWQA Agricultural Chemical Transport topical study. The key aspect of this study is the investigation of the sources, transport, and fate of selected agricultural chemicals in a variety of agricultural settings across the Nation. The final objective is to interpret study results as to the implications for managing the water and water-quality impacts of agricultural systems. Beginning in October 2002, the WHMI is one of five NAWQA study units engaged in research of selected agricultural settings.

(- , no data; <, concentration or value reported is less than that indicated; E, estimated value;  
K, value is estimated from a non-ideal colony count; M, presence verified, not quantified)

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unfltrd uS/cm 25 degC (00095)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)
APR													
17...	1045	1.2	8.1	524	69.5	22.8	0.84	6.91	26.7	0.15	1.39	16.3	299
25...	1000	0.95	--	--	--	--	--	--	--	--	--	--	--
MAY													
05-06	0145	--	7.9	460	57.1	17.7	1.19	4.07	18.2	0.24	7.67	13.1	258
05...	0245	19	7.7	503	61.5	19.4	1.37	6.79	--	--	7.01	--	--
05...	0445	26	7.9	464	55.3	16.6	1.22	3.51	18.8	0.17	7.19	13.3	262
05...	0645	33	8.9	425	52.5	16.0	1.43	3.49	18.2	0.23	7.42	12.5	239
06...	0145	12	7.8	496	56.4	17.5	0.88	4.21	21.2	0.24	7.11	14.4	312
06...	1345	7.4	8.2	517	65.3	20.1	0.82	4.28	19.8	<0.17	7.35	13.9	281
28...	2100	0.81	8.0	542	62.5	20.8	1.01	6.01	24.0	<0.17	3.81	15.6	290
JUN													
12...	1230	0.69	8.0	545	64.5	21.9	0.96	7.19	25.3	<0.17	7.28	14.6	295
JUN													
14-15	0645	--	8.0	545	69.0	22.4	0.95	4.48	21.2	0.22	9.05	14.4	312
14...	1220	7.0	7.8	522	61.9	19.2	1.02	3.94	17.7	0.23	8.90	13.7	291
14...	1620	6.3	7.9	542	69.5	21.8	1.01	4.55	19.4	0.23	9.07	14.3	309
14...	2320	7.4	7.5	550	65.9	20.9	0.80	3.98	20.4	0.26	8.46	14.4	308
15...	1730	3.7	8.1	569	71.4	22.8	0.80	4.33	21.6	0.20	8.56	15.0	322
24...	1010	0.46	8.1	588	74.9	24.9	0.69	5.87	24.2	0.18	7.63	15.6	330
JUL													
05-08	0115	--	7.4	222	27.4	7.21	3.88	2.03	4.78	0.18	6.77	6.1	124
05...	0215	5.4	7.7	266	31.2	9.84	3.31	3.14	10.3	<0.17	5.65	8.1	144
05...	0515	144	7.4	166	17.9	5.02	4.32	1.41	3.74	<0.17	4.02	5.1	94
05...	0715	215	7.2	154	15.7	4.33	4.85	2.65	3.30	0.19	4.00	4.7	86
05...	0915	171	7.5	166	16.7	4.69	4.32	1.28	3.37	<0.17	5.64	4.9	91
05...	1715	77	7.5	210	22.9	6.35	3.90	2.29	5.04	0.23	6.07	5.8	118
05...	2115	136	7.3	173	--	--	--	--	--	--	--	--	--
07...	0115	44	7.7	287	36.1	10.6	2.85	2.41	7.78	0.19	8.55	8.3	160
08...	1040	17	7.5	386	47.8	14.7	2.59	3.26	11.4	0.17	9.69	10.4	211
15...	0810	2.6	7.9	538	71.1	21.9	1.21	5.82	17.7	<0.17	8.70	13.8	340
SEP													
01...	1130	15	7.6	266	30.4	8.04	2.46	3.90	8.57	0.20	7.74	6.7	139
SEP													
01-04	1130	--	7.9	266	35.2	11.0	2.65	2.81	7.65	0.17	8.86	6.6	153
01...	1330	29	7.7	280	31.7	10.2	2.48	3.94	9.51	0.26	7.28	7.5	152
01...	1630	--	--	--	--	--	--	--	--	--	--	--	--
01...	1830	71	7.6	200	21.8	5.90	2.76	2.09	4.95	<0.17	6.89	4.4	101
01...	2030	65	7.6	196	22.8	5.86	3.11	1.97	4.64	<0.17	7.89	4.2	103
01...	2245	52	7.6	201	25.4	7.29	3.10	2.04	5.16	<0.17	8.12	4.6	114
02...	0845	36	7.5	244	32.1	9.50	2.68	2.29	6.55	0.17	8.72	5.7	142
02...	1800	37	7.4	295	41.3	12.6	2.31	2.87	8.44	<0.17	9.65	7.4	173
04...	0645	6.6	7.8	397	54.2	16.7	1.62	4.02	12.3	0.19	9.81	10.9	236

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

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Phos- phorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Iron, water, fltrd, ug/L (01046)	Mangan- ese, water, fltrd, ug/L (01056)
APR													
17...	292	0.57	<0.04	7.83	0.049	<0.02	0.12	0.021	0.3	<0.1	0.3	E5	16.3
25...	--	0.46	0.04	8.79	0.057	E0.01	--	0.028	--	--	--	--	--
MAY													
05-06	251	1.4	<0.04	12.4	0.103	<0.02	0.60	0.177	2.4	<0.1	2.4	47	8.2
05...	--	2.3	0.13	9.43	0.107	E0.01	1.16	0.47	9.4	<0.1	9.3	36	13.7
05...	262	0.70	<0.04	12.7	0.120	<0.02	0.53	0.044	1.1	<0.1	1.0	45	18.4
05...	249	2.3	<0.04	11.1	0.110	<0.02	0.95	0.30	5.1	<0.1	5.1	47	10.0
06...	281	0.65	<0.04	11.8	0.134	<0.02	0.14	0.081	0.6	<0.1	0.6	25	4.2
06...	263	0.47	<0.04	11.8	0.089	<0.02	0.13	0.042	0.3	<0.1	0.3	E7	4.5
28...	319	0.55	<0.04	7.90	0.094	<0.02	0.09	0.039	0.4	<0.1	0.4	9	10.3
JUN													
12...	316	0.46	E0.04	5.69	0.119	<0.02	<0.02	0.050	0.6	0.1	0.5	26	15.7
JUN													
14-15	345	0.67	<0.04	11.7	0.098	<0.02	0.18	0.06	0.4	<0.1	0.4	19	3.3
14...	323	1.1	<0.04	12.6	0.068	<0.02	<0.02	0.141	1.9	0.3	1.6	48	11.1
14...	318	0.74	<0.04	12.8	0.039	E0.01	0.21	0.09	0.8	<0.1	0.8	12	4.4
14...	319	0.65	<0.04	12.7	0.138	<0.02	0.31	0.07	1.4	<0.1	1.4	13	8.9
15...	340	0.38	<0.04	11.7	0.041	<0.02	0.16	0.05	0.7	<0.1	0.7	E5	7.9
24...	336	0.34	<0.04	8.78	0.066	<0.02	0.06	0.020	0.3	<0.1	0.3	E5	5.1
JUL													
05-08	141	1.3	<0.04	5.68	0.120	0.06	0.29	0.31	1.8	<0.1	1.8	116	4.3
05...	153	3.5	E0.02	4.87	0.065	E0.02	2.52	0.94	25.8	0.4	25.4	115	5.9
05...	108	2.0	0.19	6.49	0.048	0.15	1.29	0.51	6.8	0.2	6.6	23	9.3
05...	103	1.7	<0.04	5.89	0.064	<0.02	0.53	0.38	2.5	<0.1	2.4	72	10.9
05...	132	1.5	E0.02	6.20	0.104	0.06	0.29	0.36	1.9	1.3	0.6	205	6.4
05...	151	1.3	<0.04	6.70	0.210	0.03	0.25	0.28	1.2	<0.1	1.2	39	2.5
05...	--	1.5	0.26	3.27	E0.007	0.03	--	0.31	--	--	--	--	--
07...	173	1.3	0.13	4.96	0.130	0.08	0.28	0.22	1.4	<0.1	1.4	69	6.2
08...	227	1.3	<0.04	4.96	0.188	0.03	0.18	0.196	1.1	<0.1	1.1	31	17.2
15...	304	0.46	<0.04	14.9	0.080	0.12	0.06	0.047	0.5	<0.1	0.5	19	26.2
SEP													
01...	154	0.88	<0.04	1.74	0.097	<0.02	0.51	0.22	1.5	0.2	1.3	116	12.6
SEP													
01-04	165	0.81	<0.04	1.86	0.027	<0.18	0.17	0.174	1.0	<0.1	1.0	126	3.2
01...	167	0.89	<0.04	1.73	0.077	<0.02	0.38	0.24	2.9	<0.1	2.9	99	7.0
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	122	0.82	<0.04	0.62	0.016	<0.02	0.23	0.20	1.4	<0.1	1.4	114	6.8
01...	123	0.96	<0.04	0.65	0.065	<0.02	0.28	0.22	1.3	<0.1	1.3	211	6.2
01...	143	1.0	<0.04	0.87	0.064	<0.02	0.20	0.21	1.0	<0.1	1.0	183	7.5
02...	155	0.86	<0.04	1.32	0.050	<0.18	0.15	0.176	0.9	<0.1	0.9	142	3.5
02...	187	0.87	<0.04	1.88	0.059	<0.02	0.11	0.148	0.7	<0.1	0.7	109	2.6
04...	246	0.69	<0.04	2.92	0.013	0.04	0.12	0.096	0.5	<0.1	0.5	43	12.1

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

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	1-Naphthol, water, fltrd 0.7u GF (49295)	2,6-Diethyl-aniline water fltrd 0.7u GF (82660)	2-[(2-Et-6-Me-Ph)-amino]propan-1-ol, ug/L (61615)	2Chloro-2,6'-diethyl acet-anilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)	2-Ethyl-6-methyl-aniline water, fltrd, ug/L (61620)	3,4-Di-chloro-aniline water fltrd, ug/L (61625)	4Chloro 2methyl phenol, water, fltrd, ug/L (61633)	Aceto-chlor ESA, water, fltrd 0.7u GF ug/L (61029)	Aceto-chlor OA, water, fltrd 0.7u GF ug/L (61030)	Aceto-chlor, water, fltrd, ug/L (49260)	Ala-chlor ESA, water, fltrd 0.7u GF ug/L (50009)	Ala-chlor OA, water, fltrd 0.7u GF ug/L (61031)
APR													
17...	<0.09	<0.006	<0.1	<0.005	E0.045	<0.004	0.005	E0.005	--	--	0.021	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
05-06	<0.09	<0.006	<0.1	<0.005	E0.085	<0.004	<0.004	<0.006	0.23	0.10	0.023	0.10	<0.05
05...	<0.09	<0.006	<0.1	<0.005	E0.097	<0.004	<0.004	<0.006	0.16	0.07	0.043	<0.05	<0.05
05...	<0.09	<0.006	<0.1	<0.005	E0.095	<0.004	<0.004	<0.006	0.15	0.08	0.028	0.07	<0.05
05...	<0.09	<0.006	<0.1	<0.005	E0.093	<0.004	<0.004	<0.006	0.28	0.13	0.030	0.08	0.05
06...	<0.09	<0.006	<0.1	<0.005	E0.079	<0.004	<0.004	<0.006	0.22	0.07	0.007	0.08	<0.05
06...	<0.09	<0.006	<0.1	<0.005	E0.090	<0.004	<0.004	<0.006	0.13	<0.05	E0.005	0.06	<0.05
28...	<0.09	<0.006	<0.1	<0.005	E0.152	<0.004	<0.004	<0.006	<0.05	<0.05	0.051	<0.05	<0.05
JUN													
12...	<0.09	<0.006	<0.1	<0.005	E0.116	<0.004	<0.004	<0.006	0.07	<0.05	0.042	<0.05	<0.05
JUN													
14-15	<0.09	<0.006	<0.1	<0.005	E0.289	<0.004	<0.004	<0.006	0.48	0.45	0.049	<0.05	<0.05
14...	<0.09	<0.006	<0.1	<0.005	E0.450	<0.004	<0.004	<0.006	0.86	0.71	E0.080	<0.05	<0.05
14...	<0.09	<0.006	<0.1	<0.005	E0.281	<0.004	<0.004	<0.006	0.43	0.42	0.048	<0.05	<0.05
14...	<0.09	<0.006	<0.1	<0.005	E0.356	E0.002	<0.004	<0.006	0.84	0.66	0.062	0.05	<0.05
15...	<0.09	<0.006	<0.1	<0.005	E0.188	E0.002	<0.004	<0.006	0.42	0.23	0.020	<0.05	<0.05
24...	<0.09	<0.006	<0.1	<0.005	E0.104	<0.004	<0.004	<0.006	0.14	<0.05	<0.006	0.07	<0.05
JUL													
05-08	<0.09	<0.006	<0.1	<0.005	E0.737	<0.004	<0.004	<0.006	1.94	1.51	0.224	0.07	0.05
05...	<0.09	<0.006	<0.1	<0.005	E0.517	<0.004	<0.004	<0.006	<0.05	<0.05	0.017	<0.05	<0.05
05...	<0.09	<0.006	<0.1	<0.005	E1.25	<0.004	<0.004	<0.006	0.50	0.36	0.066	<0.05	<0.05
05...	<0.09	<0.006	<0.1	<0.005	E1.19	<0.004	<0.004	<0.006	1.79	1.34	0.226	<0.05	<0.05
05...	<0.09	<0.006	<0.1	<0.005	E1.19	<0.004	<0.004	<0.006	2.14	1.60	0.257	<0.05	<0.05
05...	<0.09	<0.006	<0.1	<0.005	E0.789	<0.004	<0.004	<0.006	2.55	2.36	0.317	<0.05	0.06
05...	<0.09	<0.006	<0.1	<0.005	E1.46	<0.004	<0.004	<0.006	1.89	1.43	0.333	<0.05	0.05
07...	<0.09	<0.006	<0.1	<0.005	E0.914	<0.004	<0.004	<0.006	1.45	1.02	0.166	<0.05	0.05
08...	<0.09	<0.006	<0.1	<0.005	E0.639	<0.004	<0.004	<0.006	1.41	0.78	0.061	<0.05	0.07
15...	<0.09	<0.006	<0.1	<0.005	E0.204	E0.002	<0.004	<0.006	0.74	0.26	0.013	<0.05	<0.05
SEP													
01...	<0.09	<0.006	<0.1	<0.005	E0.178	<0.004	<0.004	<0.006	0.32	0.14	0.010	0.08	<0.05
SEP													
01-04	<0.09	<0.006	<0.1	<0.005	E0.174	<0.004	<0.004	<0.006	0.73	0.21	0.008	<0.05	<0.05
01...	<0.09	<0.006	<0.1	<0.005	E0.149	<0.004	<0.004	<0.006	0.22	0.09	E0.004	0.06	<0.05
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	<0.09	<0.006	<0.1	<0.005	E0.161	<0.004	<0.004	<0.006	0.58	0.21	0.012	<0.05	<0.05
01...	<0.09	<0.006	<0.1	<0.005	E0.152	<0.004	<0.004	<0.006	0.65	0.26	0.010	<0.05	<0.05
01...	<0.09	<0.006	<0.1	<0.005	E0.171	<0.004	<0.004	<0.006	0.74	0.29	0.010	<0.05	<0.05
02...	<0.09	<0.006	<0.1	<0.005	E0.147	<0.004	<0.004	<0.006	0.89	0.30	0.011	<0.05	<0.05
02...	<0.09	<0.006	<0.1	<0.005	E0.148	<0.004	<0.004	<0.006	0.93	0.25	0.008	<0.05	<0.05
04...	<0.09	<0.006	<0.1	<0.005	E0.135	<0.004	<0.004	<0.006	0.45	0.05	E0.006	0.09	<0.05

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

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Ala-chlor, water, fltrd, ug/L (46342)	Atra-zine, water, fltrd, ug/L (39632)	Azin-phos-methyl oxon, water, fltrd, ug/L (61635)	Azin-phos-methyl, water, fltrd 0.7u GF ug/L (82686)	Ben-flur-alin, water, fltrd 0.7u GF ug/L (82673)	Car-baryl, water, fltrd 0.7u GF ug/L (82680)	Chlor-pyri-fos oxon, water, fltrd, ug/L (61636)	Chlor-pyri-fos water, fltrd, ug/L (38933)	cis-Per-methrin water fltrd 0.7u GF ug/L (82687)	Cyflu-thrin, water, fltrd, ug/L (61585)	Cyber-methrin water, fltrd, ug/L (61586)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulf-inyl fipronil, water, fltrd, ug/L (62170)
APR													
17...	<0.004	0.132	<0.02	<0.050	<0.010	<0.041	<0.06	<0.005	<0.006	<0.008	<0.009	<0.003	<0.004
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
05-06	<0.004	0.337	<0.02	<0.050	<0.010	<0.041	<0.06	E0.004	<0.006	<0.008	<0.009	<0.003	<0.004
05...	E0.003	0.218	<0.02	<0.050	<0.010	<0.041	<0.06	E0.004	<0.006	<0.008	<0.009	<0.003	<0.004
05...	<0.004	0.425	<0.02	<0.050	<0.010	<0.041	<0.06	0.005	<0.006	<0.008	<0.009	<0.003	<0.004
05...	<0.004	0.319	<0.02	<0.050	<0.010	<0.041	<0.06	0.007	<0.006	<0.008	<0.009	<0.003	<0.004
06...	<0.004	0.464	<0.02	<0.050	<0.010	<0.041	<0.06	E0.002	<0.006	<0.008	<0.009	<0.003	<0.004
06...	<0.004	0.328	<0.02	<0.050	<0.010	<0.041	<0.06	E0.002	<0.006	<0.008	<0.009	<0.003	<0.004
28...	<0.005	1.94	<0.02	<0.050	<0.010	<0.041	<0.06	E0.004	<0.006	<0.008	<0.009	<0.003	<0.004
JUN													
12...	<0.007	0.587	<0.02	<0.050	<0.010	<0.041	<0.06	<0.005	<0.006	<0.008	<0.009	<0.003	<0.004
JUN													
14-15	<0.004	0.978	<0.02	<0.050	<0.010	<0.041	<0.06	<0.005	<0.006	<0.008	<0.009	<0.003	<0.004
14...	<0.004	1.21	<0.02	<0.050	<0.010	E0.013	<0.06	<0.005	<0.006	<0.008	<0.009	<0.003	<0.004
14...	<0.004	0.944	<0.02	<0.050	<0.010	<0.041	<0.06	E0.003	<0.006	<0.008	<0.009	<0.003	<0.004
14...	<0.004	0.982	<0.02	<0.050	<0.010	<0.041	<0.06	<0.005	<0.006	<0.008	<0.009	<0.003	<0.004
15...	<0.004	0.561	<0.02	<0.050	<0.010	<0.041	<0.06	<0.005	<0.006	<0.008	<0.009	<0.003	<0.004
24...	<0.004	0.314	<0.02	<0.050	<0.010	<0.041	<0.06	<0.005	<0.006	<0.008	<0.009	<0.003	<0.004
JUL													
05-08	0.008	6.24	<0.02	<0.050	<0.010	E0.010	<0.06	0.030	<0.006	<0.008	<0.009	<0.003	<0.004
05...	0.009	14.4	<0.02	<0.050	<0.010	<0.041	<0.06	<0.005	<0.006	<0.008	<0.009	<0.003	<0.004
05...	<0.004	9.26	<0.02	<0.050	<0.010	<0.041	<0.06	0.057	<0.006	<0.008	<0.009	<0.003	<0.004
05...	<0.004	7.81	<0.02	<0.050	<0.010	<0.041	<0.06	0.047	<0.006	<0.008	<0.009	<0.003	<0.004
05...	0.009	5.35	<0.02	<0.050	<0.010	<0.041	<0.06	0.044	<0.006	<0.008	<0.009	<0.003	<0.004
05...	<0.008	4.37	<0.12	<0.050	<0.010	<0.041	<0.06	0.024	<0.006	<0.008	<0.009	<0.003	<0.004
05...	<0.004	7.48	<0.02	<0.050	<0.010	E0.016	<0.06	0.065	<0.006	<0.008	<0.009	<0.003	<0.004
07...	<0.004	7.15	<0.02	<0.050	<0.010	E0.011	<0.06	0.011	<0.006	<0.008	<0.009	<0.003	<0.004
08...	<0.004	2.42	<0.02	<0.050	<0.010	E0.008	<0.06	0.007	<0.006	<0.008	<0.009	<0.003	<0.004
15...	<0.004	0.613	<0.02	<0.050	<0.010	<0.041	<0.06	<0.005	<0.006	<0.008	<0.009	<0.003	<0.004
SEP													
01...	<0.004	0.290	<0.02	<0.050	<0.010	<0.041	<0.06	E0.003	<0.006	<0.008	<0.009	<0.003	<0.004
SEP													
01-04	<0.004	0.273	<0.03	<0.050	<0.010	<0.041	<0.06	<0.005	<0.006	<0.008	<0.009	<0.003	<0.004
01...	<0.004	0.294	<0.02	<0.050	<0.010	<0.041	<0.06	<0.005	<0.006	<0.008	<0.009	<0.003	<0.004
01...	--	--	--	--	--	<1	--	<0.5	--	--	--	--	--
01...	<0.004	0.213	<0.02	<0.050	<0.010	<0.041	<0.06	E0.004	<0.006	<0.008	<0.009	<0.003	<0.004
01...	<0.004	0.197	<0.03	<0.050	<0.010	<0.041	<0.06	0.006	<0.006	<0.008	<0.009	<0.003	<0.004
01...	<0.004	0.209	<0.03	<0.050	<0.010	<0.041	<0.06	E0.005	<0.006	<0.008	<0.009	<0.003	<0.004
02...	<0.004	0.252	<0.03	<0.050	<0.010	<0.041	<0.06	E0.004	<0.006	<0.008	<0.009	<0.003	<0.004
02...	<0.004	0.298	<0.03	<0.050	<0.010	<0.041	<0.06	E0.004	<0.006	<0.008	<0.009	<0.003	<0.004
04...	<0.004	0.748	<0.03	<0.050	<0.010	<0.041	<0.06	<0.005	<0.006	<0.008	<0.009	<0.003	<0.004

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

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Diaz- inon oxon, water, fltrd, ug/L (61638)	Diazi- non, water, fltrd, ug/L (39572)	Diel- drin, water, fltrd, ug/L (39381)	Dimeth- enamid ESA, water, fltrd, ug/L (61951)	Dimeth- enamid OA, water, fltrd, ug/L (62482)	Dimeth- oate, water, fltrd 0.7u GF ug/L (82662)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Fenami- phos sulfone water, fltrd, ug/L (61645)	Fenami- phos sulf- oxide, water, fltrd, ug/L (61646)	Fenami- phos, water, fltrd, ug/L (61591)	Desulf- inyl- fipro- nil amide, wat flt ug/L (62169)	Fipro- nil sulfide water, fltrd, ug/L (62167)
APR													
17...	<0.04	<0.005	<0.005	--	--	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
05-06	<0.01	<0.005	<0.005	<0.05	<0.05	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005
05...	<0.01	E0.002	<0.005	<0.05	<0.05	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005
05...	<0.01	<0.005	<0.005	<0.05	<0.05	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005
05...	<0.01	<0.005	<0.005	<0.05	<0.05	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005
06...	<0.01	<0.005	<0.005	<0.05	<0.05	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005
06...	<0.01	<0.005	<0.005	<0.05	<0.05	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005
28...	<0.01	<0.005	<0.005	<0.05	<0.05	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005
JUN													
12...	<0.01	<0.005	<0.005	<0.05	<0.05	<0.006	<0.03	<0.006	<0.008	<0.03	<0.03	<0.009	<0.005
JUN													
14-15	<0.01	<0.005	<0.005	<0.05	<0.05	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005
14...	<0.01	<0.005	<0.005	<0.05	<0.05	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005
14...	<0.01	<0.005	<0.005	<0.05	<0.05	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005
14...	<0.01	<0.005	<0.005	0.05	<0.05	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005
15...	<0.01	<0.005	<0.005	<0.05	<0.05	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005
24...	<0.01	<0.005	<0.005	<0.05	<0.05	<0.006	<0.03	<0.004	<0.031	<0.03	<0.03	<0.031	<0.005
JUL													
05-08	<0.01	<0.005	<0.005	<0.05	<0.05	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005
05...	<0.01	<0.005	<0.005	<0.05	<0.05	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005
05...	<0.01	<0.005	<0.005	<0.05	<0.05	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005
05...	<0.01	<0.005	<0.005	<0.05	<0.05	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005
05...	<0.01	<0.005	<0.005	<0.05	<0.05	<0.006	<0.03	<0.004	<0.008	<0.12	<0.03	<0.009	<0.005
05...	<0.01	<0.005	<0.005	<0.05	<0.05	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005
07...	<0.01	<0.005	<0.005	0.07	<0.05	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005
08...	<0.01	<0.005	<0.005	0.35	0.14	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005
15...	<0.01	<0.005	<0.005	0.14	0.06	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005
SEP													
01...	<0.01	0.006	<0.005	<0.05	<0.05	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005
SEP													
01-04	<0.01	<0.005	<0.005	0.06	<0.05	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005
01...	<0.01	E0.004	<0.005	0.05	<0.05	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005
01...	--	<0.5	--	--	--	--	--	--	--	--	--	--	--
01...	<0.01	E0.004	<0.005	<0.05	<0.05	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005
01...	<0.01	<0.005	<0.005	<0.05	<0.05	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005
01...	<0.01	E0.004	<0.005	<0.05	<0.05	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005
02...	<0.01	<0.005	<0.005	0.06	<0.05	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005
02...	<0.01	<0.005	<0.005	0.09	<0.05	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005
04...	<0.01	<0.005	<0.005	0.09	<0.05	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005

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

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Fipronil sulfone water, fltrd, ug/L (62168)	Fipronil, water, fltrd, ug/L (62166)	Flufenacet ESA, water, fltrd, ug/L (61952)	Flufenacet OA, water, fltrd, ug/L (62483)	Fonofos oxon, water, fltrd, ug/L (61649)	Fonofos water, fltrd, ug/L (04095)	Hexazinone, water, fltrd, ug/L (04025)	Iprodione, water, fltrd, ug/L (61593)	Isofenphos, water, fltrd, ug/L (61594)	Malaoxon, water, fltrd, ug/L (61652)	Malathion, water, fltrd, ug/L (39532)	Metaxyl, water, fltrd, ug/L (61596)	Methiathion water, fltrd, ug/L (61598)
APR													
17...	<0.005	<0.007	--	--	<0.002	<0.003	--	<1	<0.003	<0.008	<0.027	<0.011	<0.006
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
05-06	<0.005	<0.007	<0.05	<0.05	<0.002	<0.003	--	<1	<0.003	<0.008	<0.027	<0.005	<0.006
05...	<0.005	<0.007	<0.05	<0.05	<0.002	<0.003	--	<1	<0.003	<0.008	<0.027	<0.005	<0.006
05...	<0.005	<0.007	<0.05	<0.05	<0.002	<0.003	--	<1	<0.003	<0.008	<0.027	<0.006	<0.006
05...	<0.005	<0.007	<0.05	<0.05	<0.002	<0.003	--	<1	<0.003	<0.008	<0.027	<0.009	<0.006
06...	<0.005	<0.007	<0.05	<0.05	<0.002	<0.003	--	<1	<0.003	<0.008	<0.027	<0.005	<0.006
06...	<0.005	<0.007	<0.05	<0.05	<0.002	<0.003	--	<1	<0.003	<0.008	<0.027	<0.005	<0.006
28...	<0.005	<0.007	<0.05	<0.05	<0.002	<0.003	<0.013	<1	<0.003	<0.008	<0.027	<0.005	<0.006
JUN													
12...	<0.005	<0.007	<0.05	<0.05	<0.002	<0.003	<0.013	<1	<0.003	<0.008	<0.027	<0.005	<0.006
JUN													
14-15	<0.005	<0.007	<0.05	<0.05	<0.002	<0.003	<0.013	<1	<0.003	<0.008	<0.027	<0.005	<0.006
14...	<0.005	<0.007	<0.05	<0.05	<0.002	<0.003	<0.013	<1	<0.003	<0.008	<0.027	<0.005	<0.006
14...	<0.005	<0.007	<0.05	<0.05	<0.002	<0.003	<0.013	<1	<0.003	<0.008	<0.027	<0.005	<0.006
14...	<0.005	<0.007	<0.05	<0.05	<0.002	<0.003	<0.013	<1	<0.003	<0.008	<0.027	<0.005	<0.006
15...	<0.005	<0.007	<0.05	<0.05	<0.002	<0.003	<0.013	<1	<0.003	<0.008	<0.027	<0.005	<0.006
24...	<0.005	<0.007	<0.05	<0.05	<0.002	<0.003	<0.013	<1	<0.003	<0.008	<0.027	<0.005	<0.006
JUL													
05-08	<0.005	<0.007	<0.05	<0.05	<0.002	<0.003	<0.013	<1	<0.003	<0.008	<0.027	<0.005	<0.006
05...	<0.005	<0.007	<0.05	<0.05	<0.002	<0.003	<0.013	<1	<0.003	<0.008	<0.027	<0.005	<0.006
05...	<0.005	<0.007	<0.05	<0.05	<0.002	<0.003	<0.013	<1	<0.003	<0.008	<0.027	<0.005	<0.006
05...	<0.005	<0.007	<0.05	<0.05	<0.002	<0.003	<0.013	<1	<0.003	<0.008	<0.027	<0.005	<0.006
05...	<0.005	<0.007	<0.05	<0.05	<0.002	<0.003	<0.013	<1	<0.003	<0.008	<0.027	<0.005	<0.006
05...	<0.005	<0.007	<0.05	<0.05	<0.002	<0.003	<0.013	<1	<0.003	<0.008	<0.027	<0.005	<0.006
05...	<0.005	<0.007	<0.05	<0.05	<0.002	<0.003	<0.013	<1	<0.003	<0.008	<0.027	<0.005	<0.006
07...	<0.005	<0.007	<0.05	<0.05	<0.002	<0.003	<0.013	<1	<0.003	<0.008	<0.027	<0.005	<0.006
08...	<0.005	<0.007	<0.05	<0.05	<0.002	<0.003	<0.013	<1	<0.003	<0.008	<0.027	<0.005	<0.006
15...	<0.005	<0.007	<0.05	<0.05	<0.002	<0.003	<0.013	<1	<0.003	<0.008	<0.027	<0.005	<0.006
SEP													
01...	<0.005	<0.007	<0.05	<0.05	<0.002	<0.003	<0.013	<1	<0.003	<0.008	<0.027	<0.005	<0.006
SEP													
01-04	<0.005	<0.007	<0.05	<0.05	<0.002	<0.003	<0.013	<1	<0.003	<0.008	<0.027	<0.005	<0.006
01...	<0.005	<0.007	<0.05	<0.05	<0.002	<0.003	<0.013	<1	<0.003	<0.008	<0.027	<0.005	<0.006
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	<0.005	<0.007	<0.05	<0.05	<0.002	<0.003	<0.013	<1	<0.003	<0.008	<0.027	<0.005	<0.006
01...	<0.005	<0.007	<0.05	<0.05	<0.002	<0.003	<0.013	<1	<0.003	<0.008	<0.027	<0.005	<0.006
01...	<0.005	<0.007	<0.05	<0.05	<0.002	<0.003	<0.013	<1	<0.003	<0.008	<0.027	<0.005	<0.006
02...	<0.005	<0.007	<0.05	<0.05	<0.002	<0.003	<0.013	<1	<0.003	<0.008	<0.027	<0.005	<0.006
02...	<0.005	<0.007	<0.05	<0.05	<0.002	<0.003	<0.013	<1	<0.003	<0.008	<0.027	<0.005	<0.006
04...	<0.005	<0.007	<0.05	<0.05	<0.002	<0.003	<0.013	<1	<0.003	<0.008	<0.027	<0.005	<0.006



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

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Methyl para- oxon, water, fltrd, ug/L (61664)	Methyl para- thion, water, fltrd 0.7u GF ug/L (82667)	Metola- chlor ESA, water, fltrd 0.7u GF ug/L (61043)	Metola- chlor OA, water, fltrd 0.7u GF ug/L (61044)	Metola- chlor, water, fltrd, ug/L (39415)	Metri- buzin, water, fltrd, ug/L (82630)	Myclo- butanil water, fltrd, ug/L (61599)	Pendi- meth- alin, water, fltrd 0.7u GF ug/L (82683)	Phorate oxon, water, fltrd, ug/L (61666)	Phorate water fltrd 0.7u GF ug/L (82664)	Phosmet oxon, water, fltrd, ug/L (61668)	Phosmet water, fltrd, ug/L (61601)	Prome- ton, water, fltrd, ug/L (04037)
APR													
17...	<0.03	<0.006	--	--	0.029	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	E0.01
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
05-06	<0.03	<0.006	0.31	0.14	0.093	<0.006	<0.008	E0.019	<0.10	<0.011	<0.06	<0.008	M
05...	<0.03	<0.006	0.17	0.06	0.023	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	E0.01
05...	<0.03	<0.006	0.27	0.12	0.150	<0.006	<0.008	E0.016	<0.10	<0.011	<0.06	<0.008	M
05...	<0.03	<0.006	0.29	0.15	0.093	<0.006	<0.008	E0.017	<0.10	<0.011	<0.06	<0.008	M
06...	<0.03	<0.006	0.37	0.15	0.114	<0.006	<0.008	E0.015	<0.10	<0.011	<0.06	<0.008	<0.01
06...	<0.03	<0.006	0.31	0.10	0.074	<0.006	<0.008	E0.011	<0.10	<0.011	<0.06	<0.008	<0.01
28...	<0.03	<0.006	0.14	<0.05	0.051	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	<0.01
JUN													
12...	<0.03	<0.006	0.22	<0.05	0.035	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	E0.01
JUN													
14-15	<0.03	<0.006	0.51	0.26	0.081	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	<0.01
14...	<0.03	<0.006	0.49	0.23	0.146	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	<0.01
14...	<0.03	<0.006	0.67	0.32	0.116	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	E0.01
14...	<0.03	<0.006	0.56	0.28	0.084	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	<0.01
15...	<0.03	<0.006	0.35	0.13	0.044	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	<0.01
24...	<0.03	<0.006	0.28	0.05	E0.013	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	<0.01
JUL													
05-08	<0.03	<0.006	0.73	0.73	0.702	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	<0.01
05...	<0.03	<0.006	0.24	0.18	0.298	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	<0.01
05...	<0.03	<0.006	1.21	1.66	2.32	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	<0.01
05...	<0.03	<0.006	0.88	1.07	1.22	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	<0.01
05...	<0.03	<0.006	0.93	1.08	1.01	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	<0.01
05...	<0.03	<0.006	0.65	0.64	0.366	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	<0.01
05...	<0.03	<0.006	0.78	0.81	0.969	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	<0.01
07...	<0.03	<0.006	0.49	0.43	0.558	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	<0.01
08...	<0.03	<0.006	0.55	0.37	0.217	0.010	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	<0.01
15...	<0.03	<0.006	0.52	0.27	0.047	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	M
SEP													
01...	<0.03	<0.006	0.91	0.49	0.059	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	E0.02
SEP													
01-04	<0.03	<0.006	0.51	0.26	0.033	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	E0.01
01...	<0.03	<0.006	0.69	0.35	0.047	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	E0.02
01...	--	--	--	--	E0.1	--	--	--	--	--	--	--	<0.5
01...	<0.03	<0.006	0.57	0.31	0.058	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	E0.01
01...	<0.03	<0.006	0.48	0.25	0.033	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	E0.01
01...	<0.03	<0.006	0.51	0.26	0.029	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	E0.01
02...	<0.03	<0.006	0.41	0.22	0.018	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	E0.01
02...	<0.03	<0.006	0.40	0.20	0.018	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	M
04...	<0.03	<0.006	0.54	0.24	0.033	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	M

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

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Prometryn, water, fltrd, ug/L (04036)	Pronamide, water, fltrd, 0.7u GF ug/L (82676)	Simazine, water, fltrd, ug/L (04035)	Tebu-thiuron water fltrd, 0.7u GF ug/L (82670)	Terbufos oxon sulfone water, fltrd, ug/L (61674)	Terbufos, water, fltrd, 0.7u GF ug/L (82675)	Terbuthylazine, water, fltrd, ug/L (04022)	Tri-fluralin, water, fltrd, 0.7u GF ug/L (82661)	Di-chlorvos, water fltrd, ug/L (38775)	Suspended sediment concentration mg/L (80154)
APR										
17...	<0.005	<0.004	0.006	<0.02	<0.07	<0.02	<0.01	<0.009	<0.01	23
25...	--	--	--	--	--	--	--	--	--	--
MAY										
05-06	<0.005	<0.004	E0.004	<0.02	<0.07	<0.02	<0.01	<0.009	<0.01	84
05...	<0.005	<0.004	E0.004	<0.02	<0.07	<0.02	<0.01	<0.009	<0.01	256
05...	<0.005	<0.004	E0.004	<0.02	<0.07	<0.02	<0.01	<0.009	<0.01	186
05...	<0.005	<0.004	E0.004	<0.03	<0.07	<0.02	<0.01	<0.009	<0.01	234
06...	<0.005	<0.004	E0.003	<0.02	<0.07	<0.02	<0.01	<0.009	<0.01	30
06...	<0.005	<0.004	<0.005	<0.02	<0.07	<0.02	<0.01	<0.009	<0.01	15
28...	<0.005	<0.004	<0.015	<0.02	<0.07	<0.02	<0.01	<0.009	<0.01	21
JUN										
12...	<0.005	<0.004	0.006	<0.02	<0.07	<0.02	<0.01	<0.009	<0.01	17
JUN										
14-15	<0.005	<0.004	0.007	<0.02	<0.07	<0.02	<0.01	<0.009	<0.01	17
14...	<0.005	<0.004	0.007	<0.02	<0.07	<0.02	<0.01	<0.009	<0.01	63
14...	<0.005	<0.004	0.006	<0.02	<0.07	<0.02	<0.01	<0.009	<0.01	30
14...	<0.005	<0.004	0.006	<0.02	<0.07	<0.02	<0.01	<0.009	<0.01	30
15...	<0.005	<0.004	<0.005	<0.03	<0.07	<0.02	<0.01	<0.009	<0.01	26
24...	<0.005	<0.004	<0.005	<0.02	<0.07	<0.02	<0.01	<0.009	<0.01	16
JUL										
05-08	<0.005	<0.004	0.023	E0.03	<0.07	<0.02	<0.01	<0.009	<0.01	95
05...	<0.005	<0.004	0.043	<0.02	<0.07	<0.02	E0.01	<0.009	<0.01	758
05...	<0.005	<0.004	0.042	0.05	<0.07	<0.02	<0.01	<0.009	<0.01	283
05...	<0.005	<0.004	0.040	0.03	<0.07	<0.02	<0.01	<0.009	<0.01	--
05...	<0.005	<0.004	0.025	0.03	<0.07	<0.02	<0.01	<0.009	<0.01	96
05...	<0.005	<0.004	0.021	E0.03	<0.07	<0.02	<0.01	<0.009	<0.01	37
05...	<0.005	<0.004	0.047	0.04	<0.07	<0.02	E0.01	<0.009	<0.01	--
07...	<0.005	<0.004	0.034	<0.02	<0.07	<0.02	M	<0.009	<0.01	53
08...	<0.005	<0.004	0.028	0.02	<0.07	<0.02	<0.01	<0.009	<0.01	8
15...	<0.005	<0.004	0.006	<0.02	<0.07	<0.02	<0.01	<0.009	<0.01	10
SEP										
01...	<0.005	<0.004	0.005	E0.02	<0.07	<0.02	<0.01	<0.009	<0.01	27
SEP										
01-04	<0.005	<0.004	E0.004	0.02	<0.07	<0.02	<0.01	E0.005	<0.01	25
01...	<0.005	<0.004	<0.005	<0.02	<0.07	<0.02	<0.01	<0.009	<0.01	75
01...	--	--	--	--	--	--	--	--	<1.00	--
01...	<0.005	<0.004	E0.005	E0.03	<0.07	<0.02	<0.01	<0.009	<0.01	37
01...	<0.005	<0.004	E0.004	0.03	<0.07	<0.02	<0.01	<0.009	<0.01	27
01...	<0.005	<0.004	E0.005	0.04	<0.07	<0.02	<0.01	<0.009	<0.01	33
02...	<0.005	<0.004	0.005	0.02	<0.07	<0.02	<0.01	<0.009	<0.01	15
02...	<0.005	<0.004	E0.004	<0.03	<0.07	<0.02	<0.01	<0.009	<0.01	13
04...	<0.005	<0.004	0.006	<0.02	<0.07	<0.02	<0.01	<0.009	<0.01	15

03361650 SUGAR CREEK AT NEW PALESTINE, IN

LOCATION.--Lat 39°42'51", long 85°53'08", in 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 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1967 to current year.

REVISED RECORDS.--WDR IN-76-1: 1975.

GAGE.--Water-stage recorder. Datum of gage is 786.00 ft above National Geodetic Vertical Datum of 1929.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	7.9	8.8	529	e23	e47	175	47	38	20	37	540
2	3.8	7.4	8.8	494	e23	e47	136	50	35	20	34	1,090
3	3.8	6.5	8.3	316	e25	e50	111	57	36	19	33	1,430
4	6.0	7.1	9.3	171	e70	e54	99	60	36	19	34	895
5	6.8	8.1	7.7	122	e54	131	141	310	34	683	35	281
6	4.7	8.8	e7.4	96	e40	256	110	314	32	1,300	31	163
7	6.0	8.6	e7.2	81	e35	198	99	243	31	1,450	29	115
8	5.3	11	6.8	80	e32	238	100	279	30	1,020	27	84
9	4.9	8.4	e6.7	121	e28	644	93	206	29	1,000	25	67
10	4.7	62	6.6	155	e26	606	84	390	27	1,210	25	57
11	4.4	95	6.7	114	e24	380	76	763	27	1,300	24	49
12	4.4	66	6.9	e72	e23	287	70	682	40	915	25	42
13	4.6	41	7.1	e58	e22	434	63	415	67	412	23	37
14	3.8	26	8.7	e49	e21	581	58	216	114	247	23	35
15	4.1	19	9.4	e43	e20	577	55	183	208	185	22	33
16	4.0	16	11	e39	e20	374	54	144	161	226	21	30
17	3.8	14	12	e36	e19	283	62	113	97	204	20	28
18	4.0	12	24	e33	e19	217	62	96	71	144	19	26
19	6.1	11	163	e31	e18	181	54	84	58	114	17	24
20	4.2	9.9	420	e30	e18	189	52	75	48	97	16	23
21	3.7	9.5	339	e28	e19	242	58	67	41	140	16	22
22	3.8	10	164	e28	140	302	52	59	35	148	15	36
23	3.8	10	91	e26	257	221	47	55	32	115	14	42
24	3.9	9.6	62	e26	e190	158	44	51	29	87	14	52
25	7.4	9.5	53	e25	e110	134	57	48	27	72	13	40
26	10	9.6	42	e26	e79	190	78	46	25	59	12	37
27	12	10	33	e25	e64	194	62	42	25	54	12	141
28	6.2	9.8	28	e25	e56	151	53	41	24	57	14	319
29	9.1	9.6	26	e26	---	415	50	44	23	50	15	208
30	13	9.2	81	e25	---	426	48	41	21	45	15	131
31	9.0	---	300	e24	---	254	---	43	---	40	20	---
TOTAL	175.4	542.5	1,965.4	2,954	1,475	8,461	2,303	5,264	1,501	11,452	680	6,077
MEAN	5.66	18.1	63.4	95.3	52.7	273	76.8	170	50.0	369	21.9	203
MAX	13	95	420	529	257	644	175	763	208	1,450	37	1,430
MIN	3.7	6.5	6.6	24	18	47	44	41	21	19	12	22
CFSM	0.06	0.19	0.68	1.01	0.56	2.91	0.82	1.81	0.53	3.93	0.23	2.16
IN.	0.07	0.21	0.78	1.17	0.58	3.35	0.91	2.09	0.59	4.54	0.27	2.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2003, BY WATER YEAR (WY)

MEAN	42.7	88.0	120	124	159	173	157	138	97.9	71.9	40.4	32.4
MAX	329	441	352	345	439	413	299	549	469	369	306	314
(WY)	(2002)	(1994)	(1991)	(1969)	(1982)	(1978)	(1996)	(1996)	(1998)	(2003)	(1979)	(1989)
MIN	2.36	3.88	8.95	5.35	35.7	35.0	30.0	23.4	8.47	9.21	3.72	0.65
(WY)	(2000)	(2000)	(2000)	(1977)	(1978)	(1981)	(1971)	(1976)	(1988)	(1977)	(1999)	(1999)

SUMMARY STATISTICS

FOR 2002 CALENDAR YEAR

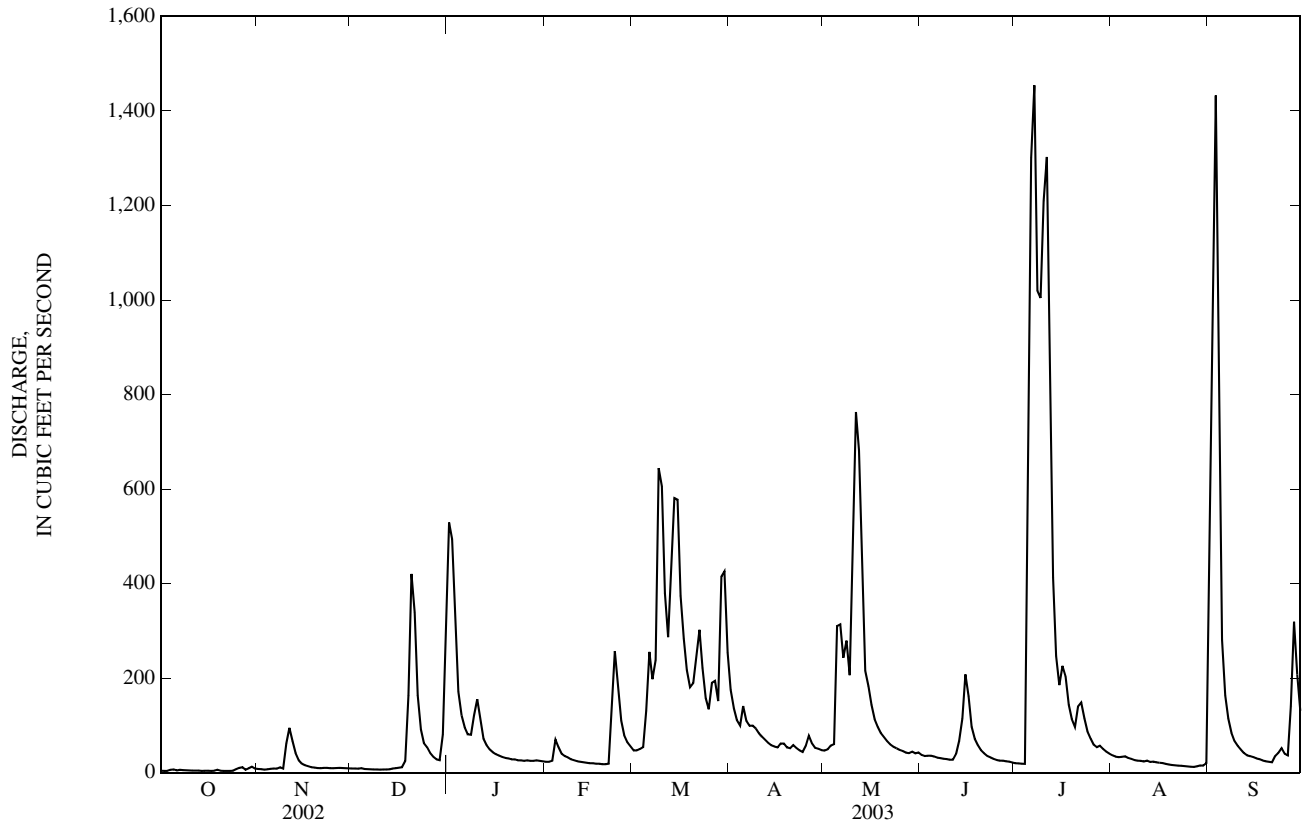
FOR 2003 WATER YEAR

WATER YEARS 1968 - 2003

ANNUAL TOTAL	38,246.9	42,850.3	
ANNUAL MEAN	105	117	103
HIGHEST ANNUAL MEAN			157
LOWEST ANNUAL MEAN			37.7
HIGHEST DAILY MEAN	1,550	May 14	1,450
LOWEST DAILY MEAN	3.7	Oct 21	3.7
ANNUAL SEVEN-DAY MINIMUM	4.1	Oct 12	4.1
MAXIMUM PEAK FLOW			1,590
MAXIMUM PEAK STAGE			8.82
ANNUAL RUNOFF (CFSM)	1.12		1.25
ANNUAL RUNOFF (INCHES)	15.15		16.98
10 PERCENT EXCEEDS	276		292
50 PERCENT EXCEEDS	41		41
90 PERCENT EXCEEDS	5.5		7.4
			2,340
			10.34
			1.10
			14.95
			244
			46
			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

These data described in the following table were collected and analyzed as part of the National Water Quality Assessment Program (NAWQA) in the White River Basin, Miami River Basin (WHMI) study units. The objectives of the NAWQA program are to broadly characterize the water-quality of the Nation's streams and aquifers in relation to human and natural factors. This project is one of 42 river basin and aquifer assessment projects being implemented across the nation on a staggered timeline. During the second decade of sampling, 14 of these projects will be actively collecting data. The period of high-intensity data collection for the WHMI project is in water years 2001-2004.

Water quality data from four stream sites in Indiana and two stream sites in Ohio are being reported as part of the NAWQA study: Big Walnut Creek nr Roachdale, IN (03357330), Little Buck Creek nr Indianapolis, IN (03353637), Sugar Creek at Co. Rd. 400S at New Palestine, IN (394340085524601), White River at Hazleton, IN (03374100), Holes Creek at Huffman Park at Kettering, OH (393944084120700), Mad River at St. Paris Pike near Eagle City, OH (03267900). Additionally, continuous monitor data, water temperature, dissolved oxygen, specific conductance, and pH were collected for all sites except Sugar Creek at Co. Rd. 400S at New Palestine, IN (394340085524601), which were instead collected at Sugar Creek at New Palestine, IN (03361650).

These data can also be obtained electronically at <http://in.water.usgs.gov> or at <http://oh.water.usgs.gov>.

(-- , no data).

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

## DAILY MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	7.3	8.2	---	7.2	6.6	8.1	8.0	8.1	7.8	8.0	7.6
2	8.0	7.3	8.2	---	7.2	---	8.2	7.9	8.1	7.7	8.0	7.4
3	8.0	7.3	8.2	---	---	---	8.2	8.0	8.0	---	8.0	7.5
4	7.9	7.3	8.1	---	---	---	8.2	8.0	8.2	8.1	8.1	7.7
5	7.9	---	8.1	---	7.1	---	8.0	7.7	8.2	7.5	8.1	7.8
6	7.9	---	8.1	7.0	7.1	---	8.2	7.9	8.2	7.4	8.1	7.9
7	8.0	8.1	8.1	7.0	7.1	---	8.1	7.9	8.2	7.5	8.1	8.0
8	8.1	8.1	8.2	7.0	7.0	---	8.1	8.0	8.1	7.6	8.1	8.0
9	8.2	8.0	8.1	7.1	7.1	---	8.1	8.0	8.1	7.4	8.1	8.0
10	8.2	7.8	---	7.1	7.1	---	8.2	---	8.1	7.4	8.1	8.0
11	8.1	---	8.2	7.0	7.1	---	8.2	---	8.0	7.5	8.1	8.0
12	7.9	---	8.1	7.0	6.9	---	8.2	---	7.9	7.6	8.1	8.0
13	7.9	8.0	8.2	7.0	6.9	---	8.1	---	7.8	7.6	8.0	8.0
14	7.9	8.0	8.3	7.0	---	---	8.1	---	7.7	7.7	8.0	8.0
15	7.9	8.0	8.2	7.0	---	---	8.2	7.7	7.9	7.7	8.0	8.0
16	7.9	8.0	8.2	7.0	---	---	8.2	7.7	7.8	7.8	7.9	8.1
17	7.9	8.1	8.1	6.8	---	---	8.1	7.8	7.8	7.8	8.0	8.1
18	7.9	8.1	8.0	7.0	---	---	8.1	7.8	7.8	7.8	8.0	8.1
19	7.8	8.1	7.8	7.2	6.9	---	8.1	7.8	7.8	7.8	8.1	8.1
20	7.8	8.1	---	7.1	6.9	---	8.1	7.8	7.8	7.8	8.1	8.1
21	7.8	8.1	---	7.0	6.9	---	8.1	8.0	8.0	7.8	8.1	8.1
22	7.7	8.1	---	7.0	6.7	---	8.2	8.1	8.0	7.9	8.1	8.0
23	7.7	8.2	---	---	6.5	---	8.2	8.1	8.0	8.0	8.1	8.0
24	7.7	---	---	---	6.5	---	8.2	8.1	8.1	8.0	8.1	8.1
25	7.6	---	---	---	6.4	8.0	8.0	8.1	8.0	8.0	8.1	8.0
26	7.5	---	---	---	6.3	8.0	8.1	8.1	8.0	8.0	8.0	8.0
27	7.5	---	---	---	6.6	8.0	8.1	8.2	8.0	8.0	8.0	7.8
28	7.5	---	---	---	6.5	8.0	8.1	8.1	7.9	7.9	8.0	7.8
29	7.4	---	---	---	---	7.8	8.0	8.0	7.9	8.0	8.0	7.8
30	---	---	---	7.1	---	7.8	8.0	8.0	7.8	8.0	7.9	7.9
31	---	---	---	7.2	---	7.8	---	8.0	---	8.0	7.9	---
MED	---	---	---	---	---	---	8.1	---	8.0	---	8.1	8.0

## 03361650 SUGAR CREEK AT NEW PALESTINE, IN—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

## DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.7	10.2	14.8	---	---	---	12.2	9.7	10.1	8.9	9.1	7.8
2	10.6	10.6	15.2	---	---	---	11.4	8.8	10	9.2	8.9	7.0
3	9.9	10.5	15.4	---	---	---	11.2	10.6	9.0	e8.3	9.1	6.8
4	7.9	10.8	15.7	---	---	---	10.5	10.9	9.5	7.9	9.2	7.0
5	9.3	---	15.9	---	---	---	10.4	9.7	9.8	7.2	9.2	8.0
6	10.6	e13.8	16.0	---	---	---	13.1	8.4	9.0	6.4	9.5	8.4
7	10.7	14.7	16.1	---	---	---	13.4	7.2	9.1	6.2	9.5	8.6
8	11.9	13.9	16.3	---	---	---	13.5	7.5	8.2	6.5	9.6	8.6
9	10.7	11.7	16.2	---	---	---	14.6	7.5	8.7	6.7	9.6	8.5
10	9.4	9.1	e16.0	---	---	---	15.4	---	8.4	6.9	9.8	8.5
11	8.8	---	15.9	---	---	---	14.4	---	8.0	7.0	10.2	8.6
12	7.4	---	15.2	---	---	---	13.4	---	7.1	7.4	9.9	8.9
13	8.2	12.7	16.6	---	---	---	12.9	---	7.5	7.8	9.8	8.8
14	9.2	12.8	19.8	---	---	---	12.3	---	7.3	7.9	9.3	8.5
15	10.1	12.2	20.0	---	---	---	11.0	8.1	7.9	7.8	8.9	8.8
16	10.0	13.3	19.4	---	---	---	10.3	8.3	7.8	8.0	8.7	9.3
17	10.4	14.8	17.6	---	---	---	9.2	8.4	7.8	8.0	8.6	9.3
18	10.4	15.5	17.0	---	---	---	10.6	8.6	7.6	7.8	9.2	9.3
19	9.3	14.9	13.9	---	---	---	10.8	8.6	7.4	8.0	8.5	9.3
20	9.8	14.9	e14.3	---	---	---	9.7	8.7	7.9	7.6	7.8	9.9
21	10.0	13.6	---	---	---	---	9.8	9.3	8.4	7.4	7.7	10.2
22	10.1	14.9	---	---	---	---	12.2	9.1	8.5	7.7	7.2	9.0
23	10.2	16.3	---	---	---	---	13.3	9.2	8.4	8.0	7.4	9.2
24	10.3	---	---	---	---	e11.5	13.0	9.4	8.0	8.2	7.9	9.8
25	9.0	---	---	---	---	10.7	11.3	9.3	7.9	8.3	8.0	9.7
26	9.2	---	---	---	---	11.2	12.9	9.5	7.7	8.3	7.7	10.1
27	10.1	---	---	---	---	11.4	12.9	9.4	8.4	8.3	7.0	9.4
28	9.5	---	---	---	---	11.1	12.2	9.1	8.8	8.0	7.8	9.7
29	8.7	---	---	---	---	11.0	11.8	9.1	9.0	8.8	7.3	10.3
30	---	---	---	---	---	12.0	11.2	9.3	9.0	8.9	7.4	11.1
31	e9.8	---	---	---	---	12.7	---	8.5	---	8.9	7.7	---

e Estimated

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

## DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.7	7.1	1.2	---	0.0	2.7	9.8	19.5	15.2	23.2	22.7	20.8
2	20.7	5.8	1.7	---	0.1	e3.0	12.8	18.1	15.2	23.4	23.3	20.7
3	21.2	5.9	0.8	---	e0.1	---	14.9	16.4	14.7	e24.0	23.0	21.0
4	20.9	7.2	0.1	---	---	---	15.9	14.7	14.4	24.8	22.4	21.0
5	18.2	---	0.3	---	0.0	---	12.4	14.6	15.1	22.1	21.8	19.7
6	16.4	e6.7	0.1	3.4	0.2	---	8.5	16.2	16.1	22.9	21.9	19.2
7	15.0	6.6	0.2	2.5	0.5	---	8.0	16.6	17.3	24.3	22.5	19.2
8	13.3	7.6	0.4	3.4	0.0	---	8.0	16.3	17.9	24.7	22.5	19.5
9	13.4	9.4	0.1	4.5	0.3	---	6.6	16.8	18.1	23.5	22.1	20.2
10	13.9	11.9	e0.4	3.8	0.6	---	7.2	---	18.6	22.3	21.5	20.6
11	15.3	---	0.7	1.1	0.1	---	9.7	---	19.4	22.1	21.5	20.7
12	16.1	---	1.2	0.0	0.1	---	11.9	---	19.9	21.3	21.6	20.1
13	14.4	8.7	1.5	0.1	0.1	---	12.6	---	19.8	21.1	22.2	20.6
14	11.3	8.8	1.5	0.3	e0.1	---	13.9	e15.3	19.3	21.5	23.5	20.7
15	11.1	8.8	2.4	0.0	---	---	16.1	15.3	19.5	21.3	24.5	19.8
16	10.7	6.7	2.7	0.0	---	---	17.1	16.0	19.6	21.1	24.8	18.7
17	9.6	5.7	2.6	0.0	---	---	15.9	16.5	20.2	21.5	24.4	18.8
18	10.2	4.9	4.5	0.0	e0.1	---	15.2	16.9	21.1	22.0	22.8	18.8
19	11.6	6.7	7.0	0.0	0.2	---	16.5	17.6	21.2	22.1	22.2	18.3
20	9.9	7.0	e6.0	0.0	0.3	---	17.4	17.5	19.9	22.0	22.5	16.7
21	9.7	7.0	---	0.0	0.6	---	15.0	15.8	19.7	21.9	23.5	16.5
22	9.7	5.8	---	0.0	1.1	---	12.5	15.5	20.2	21.1	24.5	17.8
23	9.5	5.0	---	---	0.6	---	11.9	15.5	21.2	20.9	23.4	17.1
24	9.8	---	---	---	0.4	e11.8	12.2	15.4	22.0	20.9	22.2	16.7
25	9.2	---	---	---	0.1	11.8	11.5	15.6	22.9	21.1	22.6	16.8
26	9.7	---	---	---	0.4	10.9	12.2	15.8	23.2	21.6	23.8	15.2
27	10.0	---	---	---	0.8	11.2	14.0	16.9	21.6	22.4	24.2	16.0
28	10.2	---	---	---	1.8	12.1	15.2	16.7	21.3	22.0	24.2	15.1
29	8.8	---	---	---	---	9.3	17.0	16.8	22.2	21.2	24.1	13.9
30	---	---	---	0.0	---	7.3	18.5	16.7	23.0	21.5	23.1	13.0
31	e8.4	---	---	0.0	---	7.3	---	16.5	---	22.2	21.3	---

e Estimated

## 03361650 SUGAR CREEK AT NEW PALESTINE, IN—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

## DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	659	705	---	634	552	565	630	645	649	661	348
2	---	676	698	---	616	e571	583	635	646	646	662	247
3	---	680	699	---	e618	---	591	645	649	e645	663	213
4	624	674	703	---	---	---	600	636	661	648	650	293
5	631	---	704	---	592	---	584	537	662	355	640	412
6	---	e684	710	572	550	---	604	538	665	235	656	467
7	644	685	721	587	553	---	614	520	661	226	654	500
8	638	695	709	592	578	---	621	514	665	276	655	525
9	633	695	714	571	583	---	621	509	666	288	656	548
10	e635	607	e710	563	585	---	608	---	662	283	654	565
11	---	---	704	538	597	---	604	---	656	264	647	575
12	e632	---	695	556	608	---	600	---	636	340	651	603
13	e640	648	700	575	616	---	601	---	607	429	652	616
14	---	653	707	590	e612	---	603	e540	590	470	659	618
15	---	664	698	614	---	---	612	572	576	501	655	634
16	---	667	755	627	---	---	597	603	511	511	651	638
17	---	673	817	635	---	---	597	619	577	495	654	639
18	---	679	748	651	e629	---	616	622	601	534	652	639
19	e635	682	589	652	619	---	614	627	616	566	647	640
20	---	683	e535	648	616	---	615	641	627	586	644	646
21	---	688	---	641	682	---	620	648	635	569	639	652
22	---	685	---	645	658	---	624	652	643	577	640	611
23	---	691	---	---	485	---	611	650	653	620	638	617
24	---	---	---	---	479	e578	595	652	656	622	638	634
25	e630	---	---	---	477	578	594	652	655	631	635	627
26	627	---	---	---	493	581	605	655	656	640	633	623
27	630	---	---	---	512	583	612	656	654	643	622	536
28	640	---	---	---	532	587	615	648	649	635	606	491
29	614	---	---	---	---	520	622	644	651	646	596	485
30	---	---	---	640	---	504	626	649	651	653	595	545
31	e642	---	---	638	---	526	---	644	---	658	589	---

e Estimated



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

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

## WATER-QUALITY RECORDS

These data described in the following table were collected and analyzed as part of the National Water Quality Assessment Program (NAWQA) in the White River Basin, Miami River Basin (WHMI) study units. The objectives of the NAWQA program are to broadly characterize the water-quality of the Nation's streams and aquifers in relation to human and natural factors. This project is one of 42 river basin and aquifer assessment projects being implemented across the nation on a staggered timeline. During the second decade of sampling, 14 of these projects will be actively collecting data. The period of high-intensity data collection for the WHMI project is in water years 2001-2004.

Water quality data from four stream sites in Indiana and two stream sites in Ohio are being reported as part of the NAWQA study: Big Walnut Creek nr Roachdale, IN (03357330), Little Buck Creek nr Indianapolis, IN (03353637), Sugar Creek at Co. Rd. 400S at New Palestine, IN (394340085524601), White River at Hazleton, IN (03374100), Holes Creek at Huffman Park at Kettering, OH (393944084120700), Mad River at St. Paris Pike near Eagle City, OH (03267900). Additionally, continuous monitor data, water temperature, dissolved oxygen, specific conductance, and pH were collected for all sites except Sugar Creek at Co. Rd. 400S at New Palestine, IN (394340085524601), which were instead collected at Sugar Creek at New Palestine, IN (03361650).

These data can also be obtained electronically at <http://in.water.usgs.gov> or at <http://oh.water.usgs.gov>.

(- - -, no data: <, concentration or value reported is less than that indicated: E, estimated value: K, value is estimated from a non-ideal colony count: M, presence verified, not quantified).

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

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 uS/cm 25 degC (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 CaCO3 (39036)
OCT													
09...	1310	4.9	747	11.6	8.2	640	18.0	14.0	79.1	29.1	2.24	15.7	230
NOV													
05...	1330	9.6	735	10.3	8.2	672	7.0	7.5	82.8	28.4	2.17	15.3	270
25...	1330	9.6	755	14.8	7.5	701	2.0	5.0	85.0	29.4	2.16	17.1	--
DEC													
16...	1100	11	745	15.3	8.4	727	2.0	2.5	86.1	31.5	1.68	29.1	260
JAN													
16...	1100	70	752	14.0	8.2	713	-5.0	0.0	89.2	29.6	1.33	13.6	250
FEB													
18...	1130	22	751	14.9	8.2	728	0.0	0.0	83.1	29.5	1.24	21.1	250
MAR													
11...	1200	347	750	14.0	7.8	426	9.0	2.0	51.3	15.6	1.46	7.44	140
APR													
01...	1140	174	734	13.6	8.1	569	25.0	9.5	72.0	23.1	1.34	10.7	220
15...	1130	55	736	9.3	8.3	627	28.0	16.0	78.4	29.2	1.40	13.7	--
MAY													
06...	1340	336	728	8.8	7.9	546	25.0	16.5	66.8	22.5	1.82	10.2	170
21...	1100	66	750	9.2	8.1	660	15.0	15.0	90.4	28.5	1.66	11.9	--
JUN													
04...	1400	36	733	9.4	8.2	670	14.5	14.5	90.7	30.9	1.84	15.2	280
24...	1300	29	737	8.7	8.1	664	30.0	22.5	86.8	29.8	1.83	11.7	--
JUL													
09...	1040	1,010	734	5.8	7.5	313	24.0	23.5	35.7	11.1	3.68	5.34	120
22...	1400	139	728	6.0	7.7	478	22.0	26.0	75.5	23.1	2.17	12.1	--
AUG													
04...	1320	33	739	7.9	8.1	652	29.0	22.5	81.3	25.8	1.61	12.6	250
19...	1150	17	739	8.1	8.1	650	28.0	22.0	84.8	30.2	2.01	12.6	--
SEP													
03...	1240	1,590	734	7.0	7.5	201	25.0	21.0	24.4	6.39	4.18	2.66	80

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

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Alkalinity, wat flt inc tit mg/L as CaCO3 (39086)	Bicarbonate, wat flt incm. titr., field, mg/L (00453)	Carbonate, wat flt incm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)
OCT 09...	228	275	1	33.0	0.28	10.0	42.4	388	0.24	<0.04	<0.06	<0.008	<0.02
NOV 05...	274	E331	E1	33.0	0.23	6.53	45.7	403	0.27	<0.04	<0.06	<0.008	<0.02
NOV 25...	--	--	--	37.8	0.24	5.52	49.9	423	0.21	<0.04	1.04	0.010	<0.02
DEC 16...	255	E308	E1	60.3	0.26	0.85	47.4	444	0.20	<0.04	0.34	E0.007	<0.02
JAN 16...	244	296	<1	34.6	0.21	7.02	43.7	408	0.26	<0.04	4.42	0.011	<0.02
FEB 18...	257	312	<1	47.0	0.23	2.94	46.5	421	0.20	<0.04	2.08	0.020	<0.02
MAR 11...	136	E166	E0.0	21.4	0.15	5.95	20.1	234	0.72	0.05	4.87	0.137	<0.02
APR 01...	216	261	1	29.3	0.19	6.00	30.5	327	0.41	<0.04	5.06	0.012	<0.02
APR 15...	--	--	--	33.9	0.19	0.52	40.4	363	0.32	<0.04	2.32	0.024	<0.02
MAY 06...	172	210	<1	30.8	0.19	7.17	27.1	300	1.3	0.06	7.91	0.100	<0.02
MAY 21...	--	--	--	30.5	0.22	9.13	36.3	386	0.48	<0.04	4.06	0.082	<0.02
JUN 04...	279	341	<1	34.0	0.24	6.14	40.6	390	0.37	<0.04	1.82	0.033	<0.02
JUN 24...	--	--	--	30.0	0.23	9.07	35.6	368	0.41	<0.04	3.69	0.043	<0.02
JUL 09...	114	E139	<1	13.0	<0.17	9.04	11.4	194	0.85	<0.04	2.80	0.060	0.06
JUL 22...	--	--	--	28.8	0.20	10.7	28.1	347	0.70	<0.04	3.23	0.023	0.03
AUG 04...	253	308	<1	30.3	0.23	9.19	39.8	385	0.38	<0.04	1.26	E0.006	0.03
AUG 19...	--	--	--	29.3	0.28	8.68	41.8	389	0.29	<0.04	0.47	0.014	<0.18
SEP 03...	78	95	<1	6.21	<0.17	7.05	6.6	130	0.71	<0.04	0.25	0.085	0.06

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Particulate nitrogen, susp, water, mg/L (49570)	Phosphorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	1,4-Naphthoquinone, water, fltrd, ug/L (61611)	1-Naphthol, water, fltrd 0.7u GF ug/L (49295)	2-(4-t-Butylphenoxy)cyclohexanol wat flt ug/L (61637)	2,5-Dichloroaniline water, fltrd, ug/L (61614)	2,6-Diethyl-aniline water fltrd 0.7u GF ug/L (82660)
OCT 09...	0.04	0.066	0.3	<0.1	0.3	3.6	15	23.1	<0.05	<0.09	<0.01	<0.03	<0.006
NOV 05...	0.10	0.049	0.6	<0.1	0.6	4.1	41	16.7	M	<0.09	<0.01	<0.03	<0.006
NOV 25...	0.12	0.038	0.9	<0.1	0.9	--	17	23.5	<0.05	<0.09	<0.01	<0.03	<0.006
DEC 16...	0.04	0.023	0.4	<0.1	0.4	3.9	14	26.1	<0.05	<0.09	<0.01	<0.03	<0.006
JAN 16...	<0.02	0.025	0.2	<0.1	0.1	3.4	E5	32.2	<0.05	<0.09	<0.01	<0.03	<0.006
FEB 18...	0.04	0.016	0.2	<0.1	0.2	2.5	26	38.7	<0.05	<0.09	<0.01	<0.03	<0.006
MAR 11...	0.28	0.161	1.8	<0.1	1.8	5.5	73	13.8	<0.05	<0.09	<0.01	<0.03	<0.006
APR 01...	0.15	0.060	0.9	<0.1	0.9	4.6	21	23.1	<0.05	<0.09	<0.01	<0.03	<0.006
APR 15...	0.14	0.038	0.9	<0.1	0.9	--	E5	38.3	<0.05	<0.09	<0.01	<0.03	<0.006
MAY 06...	0.49	0.138	3.0	<0.1	3.0	4.8	17	12.5	<0.05	<0.09	<0.01	<0.03	<0.006
MAY 21...	0.16	0.081	1.5	<0.1	1.5	--	<10	17.5	<0.05	<0.09	<0.01	<0.03	<0.006
JUN 04...	0.10	0.052	0.6	<0.1	0.6	2.4	13	18.4	<0.05	<0.09	<0.01	<0.03	<0.006
JUN 24...	0.12	0.070	1.0	<0.1	1.0	--	E7	12.8	<0.05	<0.09	<0.01	<0.03	<0.006
JUL 09...	0.24	0.21	1.6	<0.1	1.6	8.0	92	4.7	--	<0.09	<0.01	<0.03	<0.006
JUL 22...	0.23	0.125	1.8	<0.1	1.8	--	21	7.1	<0.05	<0.09	<0.01	<0.03	<0.006
AUG 04...	0.08	0.074	0.6	<0.1	0.6	2.8	E6	9.0	<0.05	<0.09	<0.01	<0.03	<0.006
AUG 19...	0.10	0.072	0.6	0.1	0.5	--	12	14.2	<0.05	<0.09	<0.01	<0.03	<0.006
SEP 03...	0.19	0.22	1.3	<0.1	1.2	6.4	201	4.7	<0.05	<0.09	<0.01	<0.03	<0.006

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

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	2-[(2-Et-6-Me-Ph)-amino]propan-1-ol, ug/L (61615)	2Amino-N-isopropylbenzamide, wat flt ug/L (61617)	2Chloro-2,6'-diethyl acetanilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)	2-Ethyl-6-methyl-aniline water, fltrd, ug/L (61620)	3-(Tri-fluoro-methyl) aniline water, fltrd, ug/L (61630)	3,4-Di-chloro-aniline water, fltrd, ug/L (61625)	3,5-Di-chloro-aniline water, fltrd, ug/L (61627)	3-Phen-oxy-benzyl alcohol water, fltrd, ug/L (61629)	4-(MeOH)-pendi-meth-alin, wat flt ug/L (61665)	4,4-Di'chloro-benzo-phen-one, wat flt ug/L (61631)	4Chloro 2methyl phenol, fltrd, ug/L (61633)	4Chloro-phenyl-methyl sulfone water, fltrd, ug/L (61634)
OCT 09...	<0.1	<0.005	<0.005	E0.013	<0.004	<0.01	<0.004	<0.005	<0.05	<0.1	<0.003	<0.006	<0.03
NOV 05...	<0.1	<0.005	<0.005	<0.006	<0.004	<0.01	<0.004	<0.005	<0.05	--	<0.003	<0.006	<0.03
NOV 25...	<0.1	<0.005	<0.005	E0.026	<0.004	<0.01	<0.004	<0.005	<0.05	<0.1	<0.003	<0.006	<0.03
DEC 16...	<0.1	<0.005	<0.005	E0.012	<0.004	<0.01	<0.004	<0.005	<0.05	<0.1	<0.003	<0.006	<0.03
JAN 16...	<0.1	<0.005	<0.005	E0.040	<0.004	<0.01	<0.004	<0.005	<0.05	<0.1	<0.003	<0.006	<0.03
FEB 18...	<0.1	<0.005	<0.005	E0.020	<0.004	<0.01	<0.004	<0.005	<0.05	<0.1	<0.003	<0.006	<0.03
MAR 11...	<0.1	<0.005	<0.005	E0.047	<0.004	<0.01	<0.004	<0.005	<0.05	<0.1	<0.003	<0.006	<0.03
APR 01...	<0.1	<0.005	<0.005	E0.034	<0.004	<0.01	<0.004	<0.005	<0.05	--	<0.003	<0.006	<0.03
APR 15...	--	<0.005	<0.005	E0.018	<0.004	<0.01	<0.004	<0.005	--	--	<0.003	<0.006	<0.03
MAY 06...	<0.1	<0.005	<0.005	E0.268	<0.004	<0.01	<0.004	<0.005	<0.05	<0.1	<0.003	<0.006	<0.03
MAY 21...	<0.1	<0.005	<0.005	E0.136	<0.004	<0.01	<0.004	<0.005	<0.05	<0.1	<0.003	<0.006	<0.03
JUN 04...	<0.1	<0.005	<0.005	E0.108	<0.004	<0.01	<0.004	<0.005	<0.05	--	<0.003	<0.006	<0.03
JUN 24...	<0.1	<0.005	<0.005	E0.160	<0.004	<0.01	<0.004	<0.005	<0.05	<0.1	<0.016	<0.006	<0.03
JUL 09...	<0.1	<0.005	<0.005	E0.323	<0.004	<0.01	<0.004	<0.005	<0.05	<0.1	<0.003	<0.006	<0.03
JUL 22...	<0.1	<0.005	<0.005	E0.131	<0.004	<0.01	<0.004	<0.005	--	--	<0.003	<0.006	<0.03
AUG 04...	<0.1	<0.005	<0.005	E0.041	<0.004	<0.01	<0.004	<0.005	--	--	<0.003	<0.006	<0.03
AUG 19...	<0.1	<0.005	<0.005	E0.018	<0.004	<0.01	<0.004	<0.005	--	--	<0.003	<0.006	<0.03
SEP 03...	<0.1	<0.005	<0.005	E0.060	<0.004	<0.01	<0.004	<0.005	--	--	<0.003	<0.006	<0.03

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Aceto-chlor ESA, water, fltrd 0.7u GF ug/L (61029)	Aceto-chlor OA, water, fltrd 0.7u GF ug/L (61030)	Aceto-chlor, water, fltrd, ug/L (49260)	Ala-chlor ESA, water, fltrd 0.7u GF ug/L (50009)	Ala-chlor OA, water, fltrd 0.7u GF ug/L (61031)	Ala-chlor, water, fltrd, ug/L (46342)	alpha-HCH, water, fltrd, ug/L (34253)	Amino-methyl-phosphonic acid, wat flt ug/L (62649)	Atra-zine, water, fltrd, ug/L (39632)	Azin-phos-methyl oxon, water, fltrd, ug/L (61635)	Azin-phos-methyl, water, fltrd 0.7u GF ug/L (82686)	Ben-flur-alin, water, fltrd 0.7u GF ug/L (82673)	beta-Endo-sulfan, water, fltrd, ug/L (34357)
OCT 09...	0.07	0.07	0.009	0.10	<0.05	<0.004	<0.005	0.4	0.275	<0.02	<0.050	<0.010	<0.01
NOV 05...	<0.05	<0.05	<0.006	0.09	<0.05	<0.004	<0.005	<0.1	<0.007	<0.02	<0.050	<0.010	<0.01
NOV 25...	0.25	0.27	0.021	0.10	<0.05	<0.004	<0.005	<0.1	0.101	<0.02	<0.050	<0.010	<0.01
DEC 16...	0.07	0.06	<0.006	0.11	<0.05	<0.004	<0.005	<0.1	0.043	<0.02	<0.050	<0.010	<0.01
JAN 16...	0.21	0.11	E0.005	0.05	<0.05	<0.004	<0.005	<0.1	0.108	<0.02	<0.050	<0.010	<0.01
FEB 18...	<0.05	0.06	<0.006	0.05	<0.05	<0.004	<0.005	<0.1	0.055	<0.02	<0.050	<0.010	<0.01
MAR 11...	0.19	0.13	0.010	0.06	<0.05	<0.004	<0.005	0.3	0.152	<0.02	<0.050	<0.010	<0.01
APR 01...	0.17	0.11	E0.006	<0.05	<0.05	<0.004	<0.005	<0.1	0.096	<0.02	<0.050	<0.010	<0.01
APR 15...	0.06	<0.05	<0.006	0.05	<0.05	<0.004	<0.005	<0.1	0.064	<0.02	<0.050	<0.010	<0.01
MAY 06...	0.33	0.32	0.760	0.08	<0.05	<0.004	<0.005	0.1	8.98	<0.02	<0.050	<0.010	<0.01
MAY 21...	0.16	0.22	0.084	0.11	<0.05	<0.004	<0.005	<0.1	1.74	<0.03	<0.050	<0.010	<0.01
JUN 04...	0.10	0.06	0.063	0.08	<0.05	0.005	<0.005	<0.1	1.63	<0.02	<0.050	<0.010	<0.01
JUN 24...	0.51	0.44	0.063	0.09	0.07	0.030	<0.005	<0.1	1.01	<0.02	<0.050	<0.010	<0.01
JUL 09...	1.01	1.25	0.217	<0.05	<0.05	0.010	<0.005	0.5	2.83	<0.02	<0.050	<0.010	<0.01
JUL 22...	0.51	0.46	0.082	0.08	0.05	<0.004	<0.005	0.4	0.705	<0.03	<0.050	<0.010	<0.01
AUG 04...	0.18	0.12	<0.006	0.10	<0.05	<0.004	<0.005	0.2	0.224	<0.02	<0.050	<0.010	<0.01
AUG 19...	0.12	0.10	E0.004	0.10	<0.05	<0.004	<0.005	0.2	0.093	<0.02	<0.050	<0.010	<0.01
SEP 03...	0.21	0.27	0.028	<0.05	<0.05	0.006	<0.005	0.5	0.184	<0.02	<0.050	<0.010	<0.01

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

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Bifen- thrin, water, fltrd, ug/L (61580)	Butyl- ate, water, fltrd, ug/L (04028)	Car- baryl, water, fltrd 0.7u GF ug/L (82680)	Carbo- furan, water, fltrd 0.7u GF ug/L (82674)	Chlor- pyrifos oxon, water, fltrd, ug/L (61636)	Chlor- pyrifos water, fltrd, ug/L (38933)	cis- Per- methrin water fltrd 0.7u GF ug/L (82687)	cis- Propi- cona- zole, water, fltrd, ug/L (79846)	Cyana- zine, water, fltrd, ug/L (04041)	Cyclo- ate, water, fltrd, ug/L (04031)	Cyflu- thrin, water, fltrd, ug/L (61585)	Cyhalo- thrin, water, fltrd, ug/L (61595)	Cyper- methrin water, fltrd, ug/L (61586)
OCT 09...	<0.005	<0.002	<0.041	<0.020	<0.06	<0.005	<0.006	<0.008	E0.011	<0.005	<0.008	<0.009	<0.009
NOV 05...	<0.005	<0.002	<0.041	<0.020	<0.06	<0.005	<0.006	<0.008	<0.018	<0.005	<0.008	<0.009	<0.009
NOV 25...	<0.005	<0.002	<0.041	<0.020	<0.06	<0.005	<0.006	<0.008	<0.018	<0.005	<0.008	<0.009	<0.009
DEC 16...	<0.005	<0.002	<0.041	<0.020	<0.06	<0.005	<0.006	<0.008	<0.018	<0.005	<0.008	<0.009	<0.009
JAN 16...	<0.005	<0.002	<0.041	<0.020	<0.06	<0.005	<0.006	<0.008	<0.018	<0.005	<0.008	<0.009	<0.009
FEB 18...	<0.005	<0.002	<0.041	<0.020	<0.06	<0.005	<0.006	<0.008	<0.018	<0.005	<0.008	<0.009	<0.009
MAR 11...	<0.005	<0.002	<0.041	<0.020	<0.06	<0.005	<0.006	<0.008	<0.018	<0.005	<0.008	<0.009	<0.009
APR 01...	<0.005	<0.002	<0.041	<0.020	<0.06	<0.005	<0.006	<0.008	<0.018	<0.005	<0.008	<0.009	<0.009
APR 15...	<0.005	<0.002	<0.041	<0.020	<0.06	<0.005	<0.006	<0.008	<0.018	<0.005	<0.008	<0.009	<0.009
MAY 06...	<0.005	<0.002	<0.041	<0.020	<0.06	<0.005	<0.006	<0.008	<0.018	<0.005	<0.008	<0.009	<0.009
MAY 21...	<0.005	<0.002	<0.041	<0.020	<0.06	<0.005	<0.006	<0.008	<0.018	<0.005	<0.008	<0.009	<0.009
JUN 04...	<0.005	<0.002	<0.041	<0.020	<0.06	<0.005	<0.006	<0.008	0.020	<0.005	<0.008	<0.009	<0.009
JUN 24...	<0.005	<0.002	<0.041	<0.020	<0.02	<0.005	<0.006	<0.008	<0.018	<0.005	<0.016	<0.009	<0.016
JUL 09...	<0.005	<0.002	E0.013	<0.020	<0.06	0.007	<0.006	<0.008	0.046	<0.005	<0.008	<0.009	<0.009
JUL 22...	<0.005	<0.002	E0.081	<0.020	<0.06	<0.010	<0.006	<0.008	0.114	<0.005	<0.008	<0.009	<0.009
AUG 04...	<0.005	<0.002	<0.041	<0.020	<0.06	<0.005	<0.006	<0.008	<0.018	<0.005	<0.008	<0.009	<0.009
AUG 19...	<0.005	<0.002	<0.041	<0.020	<0.06	<0.005	<0.006	<0.008	<0.018	<0.005	<0.008	<0.009	<0.009
SEP 03...	<0.005	<0.002	E0.019	<0.020	<0.06	<0.005	<0.006	<0.008	E0.015	<0.005	<0.008	<0.009	<0.009

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulf- inyl fipronil, water, fltrd, ug/L (62170)	Diazi- non, water, fltrd, ug/L (39572)	Dicro- tophos, water, fltrd, ug/L (38454)	Diel- drin, water, fltrd, ug/L (39381)	Dimeth- enamid ESA, water, fltrd, ug/L (61951)	Dimeth- enamid OA, water, fltrd, ug/L (62482)	Dimeth- oate, water, fltrd 0.7u GF ug/L (82662)	Disulf- oton sulfone water, fltrd, ug/L (61640)	Disulf- oton sulf- oxide, water, fltrd, ug/L (61641)	Disulf- oton water, fltrd 0.7u GF ug/L (82677)	e-Di- metho- morph, water, fltrd, ug/L (79844)	Endo- sulfan ether, water, fltrd, ug/L (61642)
OCT 09...	<0.003	<0.004	<0.005	<0.08	<0.005	<0.05	<0.05	<0.006	<0.02	<0.002	<0.02	<0.02	<0.004
NOV 05...	<0.003	<0.004	<0.005	<0.08	<0.005	<0.05	<0.05	<0.006	<0.02	<0.002	<0.02	<0.02	<0.004
NOV 25...	<0.003	<0.004	E0.006	<0.08	<0.005	<0.05	<0.05	<0.006	<0.02	<0.002	<0.02	<0.02	<0.004
DEC 16...	<0.003	<0.004	<0.005	<0.08	<0.005	<0.05	<0.05	<0.006	<0.02	<0.002	<0.02	<0.02	<0.004
JAN 16...	<0.003	<0.004	<0.005	<0.08	<0.005	<0.05	<0.05	<0.006	<0.02	<0.002	<0.02	<0.02	<0.004
FEB 18...	<0.003	<0.004	<0.005	<0.08	<0.005	<0.05	<0.05	<0.006	<0.02	<0.002	<0.02	<0.02	<0.004
MAR 11...	<0.003	<0.004	<0.005	<0.08	<0.005	<0.05	<0.05	<0.006	<0.02	<0.002	<0.02	<0.02	<0.004
APR 01...	<0.003	<0.004	<0.005	<0.08	<0.005	<0.05	<0.05	<0.006	<0.02	<0.002	<0.02	<0.02	<0.004
APR 15...	<0.003	<0.004	<0.005	<0.08	<0.005	<0.05	<0.05	<0.006	<0.02	<0.002	<0.02	<0.02	<0.004
MAY 06...	<0.003	<0.004	<0.005	<0.08	<0.005	<0.05	<0.05	<0.006	<0.02	<0.002	<0.02	<0.02	<0.004
MAY 21...	<0.003	<0.004	<0.005	<0.08	<0.005	0.06	<0.05	<0.006	<0.02	<0.002	<0.02	<0.02	<0.004
JUN 04...	<0.003	<0.004	<0.005	<0.08	<0.005	<0.05	<0.05	<0.006	<0.02	<0.002	<0.02	<0.02	<0.004
JUN 24...	<0.003	<0.004	<0.005	<0.08	<0.005	<0.05	<0.05	<0.006	<0.02	<0.002	<0.02	<0.02	<0.004
JUL 09...	<0.003	<0.004	0.005	<0.08	<0.005	0.18	0.09	<0.006	<0.02	<0.002	<0.02	<0.02	<0.004
JUL 22...	<0.003	<0.004	<0.005	<0.08	<0.005	0.13	0.07	<0.006	<0.02	<0.002	<0.02	<0.02	<0.004
AUG 04...	<0.003	<0.004	<0.005	<0.08	<0.005	0.07	<0.05	<0.006	<0.02	<0.002	<0.02	<0.02	<0.004
AUG 19...	<0.003	<0.004	<0.005	<0.08	<0.005	<0.05	<0.05	<0.006	<0.02	<0.002	<0.02	<0.02	<0.004
SEP 03...	<0.003	<0.004	<0.005	<0.08	<0.005	0.07	<0.05	<0.006	<0.02	<0.002	<0.02	<0.02	<0.004

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## WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Endo- sulfan sulfate water, fltrd, ug/L (61590)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethal- flur- alin, water, fltrd 0.7u GF ug/L (82663)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Etho- prop, water, fltrd 0.7u GF ug/L (82672)	Fenami- phos sulfone water, fltrd, ug/L (61645)	Fenami- phos sulf- oxide, water, fltrd, ug/L (61646)	Fenami- phos, water, fltrd, ug/L (61591)	Fen- thion sulf- oxide, water, fltrd, ug/L (61647)	Fen- thion, water, fltrd, ug/L (38801)	Desulf- inyl- fipron- il amide, wat flt ug/L (62169)	Fipron- il sulfide water, fltrd, ug/L (62167)
OCT 09...	<0.006	<0.002	<0.009	<0.03	<0.004	<0.005	<0.008	<0.03	<0.03	<0.008	<0.02	<0.009	<0.005
NOV 05...	<0.006	<0.002	<0.009	<0.03	<0.004	<0.005	<0.008	<0.03	<0.03	<0.008	<0.02	<0.009	<0.005
NOV 25...	<0.006	<0.002	<0.009	<0.03	<0.004	<0.005	<0.008	<0.03	<0.03	<0.008	<0.02	<0.009	<0.005
DEC 16...	<0.006	<0.002	<0.009	<0.03	<0.004	<0.005	<0.008	<0.03	<0.03	<0.008	<0.02	<0.009	<0.005
JAN 16...	<0.006	<0.002	<0.009	<0.03	<0.004	<0.005	<0.008	<0.03	<0.03	<0.008	<0.02	<0.009	<0.005
FEB 18...	<0.006	<0.002	<0.009	<0.03	<0.004	<0.005	<0.008	<0.03	<0.03	<0.008	<0.02	<0.009	<0.005
MAR 11...	<0.006	<0.002	<0.009	<0.03	<0.004	<0.005	<0.008	<0.03	<0.03	<0.008	<0.02	<0.009	<0.005
APR 01...	<0.006	<0.002	<0.009	<0.03	<0.004	<0.005	<0.008	<0.03	<0.03	<0.008	<0.02	<0.009	<0.005
APR 15...	<0.006	<0.002	<0.009	<0.03	<0.004	<0.005	<0.008	<0.03	<0.03	<0.008	<0.02	<0.009	<0.005
MAY 06...	<0.006	<0.002	<0.009	<0.03	<0.004	<0.005	<0.008	<0.03	<0.03	<0.008	<0.02	<0.009	<0.005
MAY 21...	<0.006	<0.002	<0.009	<0.03	<0.004	<0.005	<0.031	<0.03	<0.03	<0.008	<0.02	<0.009	<0.005
JUN 04...	<0.006	<0.002	<0.009	<0.03	<0.004	<0.005	<0.008	<0.03	<0.03	<0.008	<0.02	<0.009	<0.005
JUN 24...	<0.006	<0.002	<0.009	<0.03	<0.004	<0.005	<0.008	<0.03	<0.03	<0.008	<0.02	<0.009	<0.005
JUL 09...	<0.006	<0.002	<0.009	<0.03	<0.004	<0.005	<0.008	<0.03	<0.03	<0.008	<0.02	<0.009	<0.005
JUL 22...	<0.006	<0.002	<0.009	<0.03	<0.004	<0.005	<0.008	<0.03	<0.03	<0.008	<0.02	<0.009	<0.005
AUG 04...	<0.006	<0.002	<0.009	<0.03	<0.004	<0.005	<0.008	<0.03	<0.03	<0.008	<0.02	<0.009	<0.005
AUG 19...	<0.006	<0.002	<0.009	<0.03	<0.004	<0.005	<0.008	<0.03	<0.03	<0.008	<0.02	<0.009	<0.005
SEP 03...	<0.006	<0.002	<0.009	<0.03	<0.004	<0.005	<0.008	<0.03	<0.03	<0.008	<0.02	<0.009	<0.005

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Fipron- il sulfone water, fltrd, ug/L (62168)	Fipron- il, water, fltrd, ug/L (62166)	Flufen- acet ESA, water, fltrd, ug/L (61952)	Flufen- acet OA, water, fltrd, ug/L (62483)	Flume- tralin, water, fltrd, ug/L (61592)	Fonofos oxon, water, fltrd, ug/L (61649)	Fonofos water, fltrd, ug/L (04095)	Glufos- inate, water, fltrd 0.7u GF ug/L (62721)	Glypho- sate, water, fltrd 0.7u GF ug/L (62722)	Hexa- zinone, water, fltrd, ug/L (04025)	Iprodi- one, water, fltrd, ug/L (61593)	Isofen- phos, water, fltrd, ug/L (61594)	Lindane water, fltrd, ug/L (39341)
OCT 09...	<0.005	<0.007	<0.05	<0.05	<0.004	<0.002	<0.003	<0.1	<0.1	<0.013	<1	<0.003	<0.004
NOV 05...	<0.005	<0.007	<0.05	<0.05	<0.004	<0.002	<0.003	<0.1	<0.1	<0.013	<1	<0.003	<0.004
NOV 25...	<0.005	<0.007	<0.05	<0.05	<0.004	<0.002	<0.003	<0.1	<0.1	<0.013	<1	<0.003	<0.004
DEC 16...	<0.005	<0.007	<0.05	<0.05	<0.004	<0.002	<0.003	<0.1	<0.1	<0.013	<1	<0.003	<0.004
JAN 16...	<0.005	<0.007	<0.05	<0.05	<0.004	<0.002	<0.003	<0.1	<0.1	<0.013	<1	<0.003	<0.004
FEB 18...	<0.005	<0.007	<0.05	<0.05	<0.004	<0.002	<0.003	<0.1	<0.1	<0.013	<1	<0.003	<0.004
MAR 11...	<0.005	<0.007	<0.05	<0.05	<0.004	<0.002	<0.003	<0.1	<0.1	<0.013	<1	<0.003	<0.004
APR 01...	<0.005	<0.007	<0.05	<0.05	<0.004	<0.002	<0.003	<0.1	<0.1	<0.013	<1	<0.003	<0.004
APR 15...	<0.005	<0.007	<0.05	<0.05	<0.004	<0.002	<0.003	<0.1	<0.1	<0.013	<1	<0.003	<0.004
MAY 06...	<0.005	E0.011	<0.05	<0.05	<0.004	<0.002	<0.003	<0.1	0.2	<0.013	<1	<0.003	<0.004
MAY 21...	<0.005	<0.007	<0.05	<0.05	<0.004	<0.002	<0.003	<0.1	<0.1	<0.013	<1	<0.003	<0.004
JUN 04...	<0.005	<0.007	<0.05	<0.05	<0.004	<0.002	<0.003	<0.1	<0.1	<0.013	<1	<0.003	<0.004
JUN 24...	<0.005	<0.007	<0.05	<0.05	<0.004	<0.002	<0.003	<0.1	<0.1	<0.013	<1	<0.003	<0.004
JUL 09...	<0.005	<0.007	<0.05	<0.05	<0.004	<0.002	<0.003	<0.1	0.8	<0.013	<1	<0.003	<0.004
JUL 22...	<0.005	<0.007	<0.05	<0.05	<0.004	<0.002	<0.003	<0.1	0.2	<0.013	<1	<0.003	<0.004
AUG 04...	<0.005	<0.007	<0.05	<0.05	<0.004	<0.002	<0.003	<0.1	0.1	<0.013	<1	<0.003	<0.004
AUG 19...	<0.005	<0.007	<0.05	<0.05	<0.004	<0.002	<0.003	<0.1	<0.1	<0.013	<1	<0.003	<0.004
SEP 03...	<0.005	E0.008	<0.05	<0.05	<0.004	<0.002	<0.003	<0.1	0.5	<0.013	<1	<0.003	<0.004

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## WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Linuron water fltrd 0.7u GF ug/L (82666)	Mala- oxon, water, fltrd, ug/L (61652)	Mala- thion, water, fltrd, ug/L (39532)	Meta- laxyl, water, fltrd, ug/L (61596)	Methi- althion water, fltrd, ug/L (61598)	c-Per- methric acid methyl ester, wat flt ug/L (79842)	Methyl para- oxon, water, fltrd, ug/L (61664)	Methyl para- thion, water, fltrd 0.7u GF ug/L (82667)	t-Per- methric acid methyl ester, wat flt ug/L (79843)	Metola- chlor ESA, water, fltrd 0.7u GF ug/L (61043)	Metola- chlor OA, water, fltrd 0.7u GF ug/L (61044)	Metola- chlor, water, fltrd, ug/L (39415)	Metri- buzin, water, fltrd, ug/L (82630)
OCT 09...	<0.035	<0.008	<0.027	<0.005	<0.006	<0.04	<0.03	<0.006	<0.03	0.15	0.09	0.025	<0.006
NOV 05...	<0.035	<0.008	<0.027	<0.005	<0.006	<0.04	<0.03	<0.006	<0.03	0.13	0.06	<0.013	<0.006
NOV 25...	<0.035	<0.008	<0.027	<0.005	<0.006	<0.04	<0.03	<0.006	<0.03	0.51	0.34	0.029	0.006
DEC 16...	<0.035	<0.008	<0.027	<0.005	<0.006	<0.04	<0.03	<0.006	<0.03	0.18	0.09	E0.009	<0.006
JAN 16...	<0.035	<0.008	<0.027	<0.005	<0.006	<0.04	<0.03	<0.006	<0.03	0.35	0.17	0.019	0.007
FEB 18...	<0.035	<0.008	<0.027	<0.005	<0.006	<0.04	<0.03	<0.006	<0.03	0.20	0.07	E0.009	<0.006
MAR 11...	<0.035	<0.008	<0.027	<0.005	<0.006	<0.04	<0.03	<0.006	<0.03	0.52	0.24	0.051	0.020
APR 01...	<0.035	<0.008	<0.027	<0.005	<0.006	<0.04	<0.03	<0.006	<0.03	0.51	0.21	0.025	0.007
APR 15...	<0.035	<0.008	<0.027	<0.005	<0.006	<0.04	<0.03	<0.006	<0.03	0.35	0.08	E0.011	<0.006
MAY 06...	<0.035	<0.008	<0.027	<0.005	<0.006	<0.04	<0.03	<0.006	<0.03	0.78	0.43	1.26	0.045
MAY 21...	<0.035	<0.008	<0.027	<0.005	<0.006	<0.04	<0.03	<0.006	<0.03	0.65	0.24	0.327	0.007
JUN 04...	<0.035	<0.008	<0.027	<0.005	<0.006	<0.04	<0.03	<0.006	<0.03	0.30	0.10	0.539	0.023
JUN 24...	<0.035	<0.008	E0.002	<0.005	<0.006	<0.04	<0.03	<0.006	<0.03	0.59	0.24	0.191	<0.006
JUL 09...	<0.035	<0.008	E0.005	<0.005	<0.006	<0.04	<0.03	<0.006	<0.03	1.39	1.02	1.21	0.048
JUL 22...	<0.035	<0.008	<0.027	<0.005	<0.006	<0.04	<0.03	<0.006	<0.03	0.94	0.59	0.542	0.051
AUG 04...	<0.035	<0.008	<0.027	<0.005	<0.006	<0.04	<0.03	<0.006	<0.03	0.44	0.18	0.061	<0.006
AUG 19...	<0.035	<0.008	<0.027	<0.005	<0.006	<0.04	<0.03	<0.006	<0.03	0.35	0.12	0.032	<0.006
SEP 03...	<0.035	<0.008	<0.027	<0.005	<0.006	<0.04	<0.03	<0.006	<0.03	0.64	0.38	0.211	0.018

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Moli- nate, water, fltrd 0.7u GF ug/L (82671)	Myclo- butanil water, fltrd, ug/L (61599)	Naprop- amide, water, fltrd 0.7u GF ug/L (82684)	O-Et-O- Me-S-Pr -phos- phoro- thioate wat flt ug/L (61660)	Oxy- fluor- fen, water, fltrd, ug/L (61600)	p,p'- DDE, water, fltrd, ug/L (34653)	Para- oxon, water, fltrd, ug/L (61663)	Para- thion, water, fltrd, ug/L (39542)	Peb- ulate, water, fltrd 0.7u GF ug/L (82669)	Pendi- meth- alin, water, fltrd 0.7u GF ug/L (82683)	Phorate oxon, water, fltrd, ug/L (61666)	Phorate water fltrd 0.7u GF ug/L (82664)	Phosmet oxon, water, fltrd, ug/L (61668)
OCT 09...	<0.002	<0.008	<0.007	<0.008	<0.007	<0.003	<0.008	<0.010	<0.004	<0.022	<0.10	<0.011	<0.06
NOV 05...	<0.002	<0.008	<0.007	<0.008	<0.007	<0.003	<0.008	<0.010	<0.004	<0.022	<0.10	<0.011	<0.06
NOV 25...	<0.002	<0.008	<0.007	<0.008	<0.007	<0.003	<0.008	<0.010	<0.004	<0.022	<0.10	<0.011	<0.06
DEC 16...	<0.002	<0.008	<0.007	<0.008	<0.007	<0.003	<0.008	<0.010	<0.004	<0.022	<0.10	<0.011	<0.06
JAN 16...	<0.002	<0.008	<0.007	<0.008	<0.007	<0.003	<0.008	<0.010	<0.004	<0.022	<0.10	<0.011	<0.06
FEB 18...	<0.002	<0.008	<0.007	<0.008	<0.007	<0.003	<0.008	<0.010	<0.004	<0.022	<0.10	<0.011	<0.06
MAR 11...	<0.002	<0.008	<0.007	<0.008	<0.007	<0.003	<0.008	<0.010	<0.004	<0.022	<0.10	<0.011	<0.06
APR 01...	<0.002	<0.008	<0.007	<0.008	<0.007	<0.003	<0.008	<0.010	<0.004	<0.022	<0.10	<0.011	<0.06
APR 15...	<0.002	<0.008	<0.007	<0.008	<0.007	<0.003	<0.008	<0.010	<0.004	<0.022	<0.10	<0.011	<0.06
MAY 06...	<0.002	<0.008	<0.007	<0.008	<0.007	<0.003	<0.008	<0.010	<0.004	<0.022	<0.10	<0.011	<0.06
MAY 21...	<0.002	<0.008	<0.007	<0.008	<0.007	<0.003	<0.008	<0.010	<0.004	<0.022	<0.10	<0.011	<0.06
JUN 04...	<0.002	<0.008	<0.007	<0.008	<0.007	<0.003	<0.008	<0.010	<0.004	<0.022	<0.10	<0.011	<0.06
JUN 24...	<0.002	<0.008	<0.007	<0.008	<0.007	<0.003	<0.016	<0.010	<0.004	<0.022	<0.10	<0.011	<0.06
JUL 09...	<0.002	<0.008	<0.007	<0.008	<0.007	<0.003	<0.008	<0.010	<0.004	<0.022	<0.10	<0.011	<0.06
JUL 22...	<0.002	<0.008	<0.007	<0.008	<0.007	<0.003	<0.008	<0.010	<0.004	<0.022	<0.10	<0.011	<0.06
AUG 04...	<0.002	<0.008	<0.007	<0.008	<0.007	<0.003	<0.008	<0.010	<0.004	<0.022	<0.10	<0.011	<0.06
AUG 19...	<0.002	<0.008	<0.007	<0.008	<0.007	<0.003	<0.008	<0.010	<0.004	<0.022	<0.10	<0.011	<0.06
SEP 03...	<0.002	<0.008	<0.007	<0.008	<0.007	<0.003	<0.008	<0.010	<0.004	<0.022	<0.10	<0.011	<0.06

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

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Phosmet water, fltrd, ug/L (61601)	Phoste- bupirim water, fltrd, ug/L (61602)	Pro- fenofos water, fltrd, ug/L (61603)	Prome- ton, water, fltrd, ug/L (04037)	Prome- tryn, water, fltrd, ug/L (04036)	Pron- amide, water, fltrd 0.7u GF ug/L (82676)	Propa- chlor, water, fltrd, ug/L (04024)	Pro- panil, water, fltrd 0.7u GF ug/L (82679)	Propar- gite, water, fltrd 0.7u GF ug/L (82685)	Propet- amphos, water, fltrd, ug/L (61604)	Simaz- ine, water, fltrd, ug/L (04035)	Sulfo- tepp, water, fltrd, ug/L (61605)	Sulpro- fos, water, fltrd, ug/L (38716)
OCT 09...	<0.008	<0.005	<0.006	0.02	<0.005	<0.004	<0.010	<0.011	<0.02	<0.004	E0.005	<0.003	<0.02
NOV 05...	<0.008	<0.005	<0.006	<0.01	<0.005	<0.004	<0.010	<0.011	<0.02	<0.004	<0.005	<0.003	<0.02
NOV 25...	<0.008	<0.005	<0.006	E0.01	<0.005	<0.004	<0.010	<0.011	<0.02	<0.004	0.132	<0.003	<0.02
DEC 16...	<0.008	<0.005	<0.006	0.06	<0.005	<0.004	<0.010	<0.011	<0.02	<0.004	0.023	<0.003	<0.02
JAN 16...	<0.008	<0.005	<0.006	E0.01	<0.005	<0.004	<0.010	<0.011	<0.02	<0.004	0.029	<0.003	<0.02
FEB 18...	<0.008	<0.005	<0.006	M	<0.005	<0.004	<0.010	<0.011	<0.02	<0.004	0.017	<0.003	<0.02
MAR 11...	<0.008	<0.005	<0.006	E0.01	<0.005	<0.004	<0.010	<0.011	<0.02	<0.004	0.131	<0.003	<0.02
APR 01...	<0.008	<0.005	<0.006	<0.01	<0.005	<0.004	<0.010	<0.011	<0.02	<0.004	0.046	<0.003	<0.02
APR 15...	<0.008	<0.005	<0.006	<0.01	<0.005	<0.004	<0.010	<0.011	<0.02	<0.004	0.016	<0.003	<0.02
MAY 06...	<0.008	0.019	<0.006	0.03	<0.005	<0.004	<0.010	<0.011	<0.02	<0.004	0.346	<0.003	<0.02
MAY 21...	<0.008	<0.005	<0.006	E0.01	<0.005	<0.004	<0.010	<0.011	<0.02	<0.004	0.069	<0.003	<0.02
JUN 04...	<0.008	<0.005	<0.006	0.02	<0.005	<0.004	<0.010	<0.011	<0.02	<0.004	0.031	<0.003	<0.02
JUN 24...	<0.008	<0.005	<0.006	E0.01	<0.005	<0.004	<0.010	<0.011	<0.02	<0.004	0.019	<0.003	<0.02
JUL 09...	<0.008	0.010	<0.006	0.07	<0.005	<0.004	<0.010	<0.011	<0.02	<0.004	0.051	<0.003	<0.02
JUL 22...	<0.008	<0.005	<0.006	0.02	<0.005	<0.004	<0.010	<0.011	<0.02	<0.004	0.014	<0.003	<0.02
AUG 04...	<0.008	<0.005	<0.006	E0.01	<0.005	<0.004	<0.010	<0.011	<0.02	<0.004	0.008	<0.003	<0.02
AUG 19...	<0.008	<0.005	<0.006	E0.01	<0.005	<0.004	<0.010	<0.011	<0.02	<0.004	0.006	<0.003	<0.02
SEP 03...	<0.008	<0.005	<0.006	0.02	<0.005	<0.004	<0.010	<0.011	<0.02	<0.004	0.007	<0.003	<0.02

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Tebu- pirim- phos oxon, water, fltrd, ug/L (61669)	Tebu- thiuron water fltrd 0.7u GF ug/L (82670)	Teflu- thrin metab- olite R119365 wat flt ug/L (61671)	Teflu- thrin metab- olite R152913 wat flt ug/L (61672)	Teflu- thrin, water, fltrd, ug/L (61606)	Tem- phos, water, fltrd, ug/L (61607)	Terba- cil, water, fltrd 0.7u GF ug/L (82665)	Ter- bufos oxon sulfone water, fltrd, ug/L (61674)	Terbu- fos, water, fltrd 0.7u GF ug/L (82675)	Ter- buthyl- azine, water, fltrd, ug/L (04022)	Thio- bencarb water fltrd 0.7u GF ug/L (82681)	trans- Propi- cona- zole, water, fltrd, ug/L (79847)	Tri- allate, water, fltrd 0.7u GF ug/L (82678)
OCT 09...	<0.006	<0.02	<0.02	<0.01	<0.008	<0.3	<0.034	<0.07	<0.02	<0.01	<0.005	<0.01	<0.002
NOV 05...	<0.006	<0.02	<0.02	<0.01	<0.008	<0.3	<0.034	<0.07	<0.02	<0.01	<0.005	<0.01	<0.002
NOV 25...	<0.006	<0.02	<0.02	<0.01	<0.008	<0.3	<0.034	<0.07	<0.02	<0.01	<0.005	<0.01	<0.002
DEC 16...	<0.006	<0.02	<0.02	<0.01	<0.008	<0.3	<0.034	<0.07	<0.02	<0.01	<0.005	<0.01	<0.002
JAN 16...	<0.006	<0.02	<0.02	<0.01	<0.008	<0.3	<0.034	<0.07	<0.02	<0.01	<0.005	<0.01	<0.002
FEB 18...	<0.006	<0.02	<0.02	<0.01	<0.008	<0.3	<0.034	<0.07	<0.02	<0.01	<0.005	<0.01	<0.002
MAR 11...	<0.006	<0.02	<0.02	<0.01	<0.008	<0.4	<0.034	<0.07	<0.02	<0.01	<0.005	<0.01	<0.002
APR 01...	<0.006	<0.02	--	--	<0.008	<0.3	<0.034	<0.07	<0.02	<0.01	<0.005	<0.01	<0.002
APR 15...	<0.006	<0.02	--	--	<0.008	<0.3	<0.034	<0.07	<0.02	<0.01	<0.005	<0.01	<0.002
MAY 06...	E0.005	<0.02	--	--	<0.008	<0.3	<0.034	<0.07	<0.02	<0.01	<0.005	<0.01	<0.002
MAY 21...	<0.006	<0.02	--	--	<0.008	<0.3	<0.034	<0.07	<0.02	<0.01	<0.005	<0.01	<0.002
JUN 04...	<0.006	<0.02	--	--	<0.008	<0.3	<0.034	<0.07	<0.02	<0.01	<0.005	<0.01	<0.002
JUN 24...	<0.006	<0.02	--	--	<0.008	<0.3	<0.034	<0.07	<0.02	<0.01	<0.005	<0.01	<0.002
JUL 09...	<0.006	<0.02	--	--	<0.008	<0.3	<0.034	<0.07	<0.02	<0.01	<0.005	<0.01	<0.002
JUL 22...	<0.006	<0.02	--	--	<0.008	<0.3	<0.034	<0.07	<0.02	<0.01	<0.005	<0.01	<0.002
AUG 04...	<0.006	<0.02	--	--	<0.008	<0.3	<0.034	<0.07	<0.02	<0.01	<0.005	<0.01	<0.002
AUG 19...	<0.006	<0.02	--	--	<0.008	<0.3	<0.034	<0.07	<0.02	<0.01	<0.005	<0.01	<0.002
SEP 03...	<0.006	<0.02	--	--	<0.008	<0.3	<0.034	<0.07	<0.02	<0.01	<0.005	<0.01	<0.002

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

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Tribu- phos, water, fltrd, ug/L (61610)	Tri- flur- alin, water, fltrd 0.7u GF ug/L (82661)	z-Di- metho- morph, water, fltrd, ug/L (79845)	Di- chlor- vos, water fltrd, ug/L (38775)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
OCT 09...	<0.004	<0.009	<0.05	<0.01	27	12
NOV 05...	<0.004	<0.009	<0.05	<0.01	31	9
25...	<0.004	<0.009	<0.05	<0.01	22	28
DEC 16...	<0.004	<0.009	<0.05	<0.01	35	23
JAN 16...	<0.004	<0.009	<0.05	<0.01	57	8
FEB 18...	<0.004	<0.009	<0.05	<0.01	78	3
MAR 11...	<0.004	<0.009	<0.05	<0.01	95	32
APR 01...	<0.004	<0.009	<0.05	<0.01	89	31
15...	<0.004	<0.009	<0.05	<0.01	89	9
MAY 06...	<0.004	<0.009	<0.05	<0.01	95	68
21...	<0.004	<0.009	<0.05	<0.01	77	75
JUN 04...	<0.004	<0.009	<0.05	<0.01	76	29
24...	<0.004	<0.009	<0.05	<0.01	77	35
JUL 09...	<0.004	<0.009	<0.05	<0.01	31	110
22...	<0.004	<0.009	<0.05	<0.01	92	38
AUG 04...	<0.004	<0.009	<0.05	<0.01	81	15
19...	<0.004	<0.009	<0.05	<0.01	93	6
SEP 03...	<0.004	<0.009	<0.05	<0.01	--	26



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 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1967 to current year.

REVISED RECORDS.--WDR IN-79-1: 1969 (M).

GAGE.--Water-stage recorder. Datum of gage is 757.00 ft above National Geodetic Vertical Datum of 1929.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	36	9.2	666	e16	e35	136	47	45	20	21	1,120
2	5.8	31	12	492	e16	e35	98	46	34	15	20	1,880
3	4.7	35	13	292	e40	e40	74	46	41	15	18	665
4	6.8	36	14	201	181	e50	64	41	42	18	36	282
5	17	52	7.5	160	e120	203	304	691	32	490	56	130
6	12	70	6.2	145	e70	294	150	422	30	823	36	81
7	13	57	5.8	146	e50	191	108	228	25	606	22	59
8	5.1	52	5.6	149	e37	327	99	168	23	309	23	46
9	7.7	54	5.3	179	e29	932	82	130	22	493	16	39
10	4.4	341	12	143	e24	420	67	512	25	731	14	31
11	3.2	409	14	98	e20	260	59	1,110	23	524	30	30
12	1.9	196	11	e66	e17	237	51	468	84	301	18	24
13	0.82	131	11	e50	e16	464	47	228	121	190	15	25
14	0.70	90	27	e42	e16	500	42	136	250	112	18	18
15	5.5	74	33	e36	e15	299	43	240	154	82	11	21
16	5.8	54	32	e30	e15	230	39	132	97	71	15	21
17	2.4	45	37	e26	e14	185	52	89	71	62	8.8	15
18	1.3	39	44	e24	e14	147	66	72	54	53	16	19
19	2.5	47	351	e23	e13	130	51	66	43	48	10	12
20	3.2	34	490	e21	e13	156	44	58	40	36	7.8	17
21	4.2	27	262	e20	e30	363	55	51	32	197	6.2	10
22	9.8	20	167	e20	403	306	50	45	27	205	5.8	33
23	9.9	24	117	e19	526	172	42	38	25	97	7.2	36
24	4.7	19	98	e19	269	121	36	35	27	67	4.5	22
25	13	23	94	e18	e160	105	61	32	25	47	8.4	23
26	46	15	72	e19	e100	206	132	35	24	42	5.2	23
27	21	14	54	e19	e64	153	75	29	22	33	7.3	113
28	14	13	50	e18	e47	118	55	33	24	47	7.8	86
29	60	10	54	e19	---	645	60	58	16	44	8.5	60
30	103	11	171	e18	---	337	51	41	15	34	32	43
31	68	---	508	e17	---	190	---	62	---	24	25	---
TOTAL	468.42	2,059	2,787.6	3,195	2,335	7,851	2,293	5,389	1,493	5,836	529.5	4,984
MEAN	15.1	68.6	89.9	103	83.4	253	76.4	174	49.8	188	17.1	166
MAX	103	409	508	666	526	932	304	1,110	250	823	56	1,880
MIN	0.70	10	5.3	17	13	35	36	29	15	15	4.5	10
CFSM	0.19	0.87	1.14	1.31	1.06	3.21	0.97	2.21	0.63	2.39	0.22	2.11
IN.	0.22	0.97	1.32	1.51	1.10	3.71	1.08	2.54	0.70	2.76	0.25	2.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2003, BY WATER YEAR (WY)

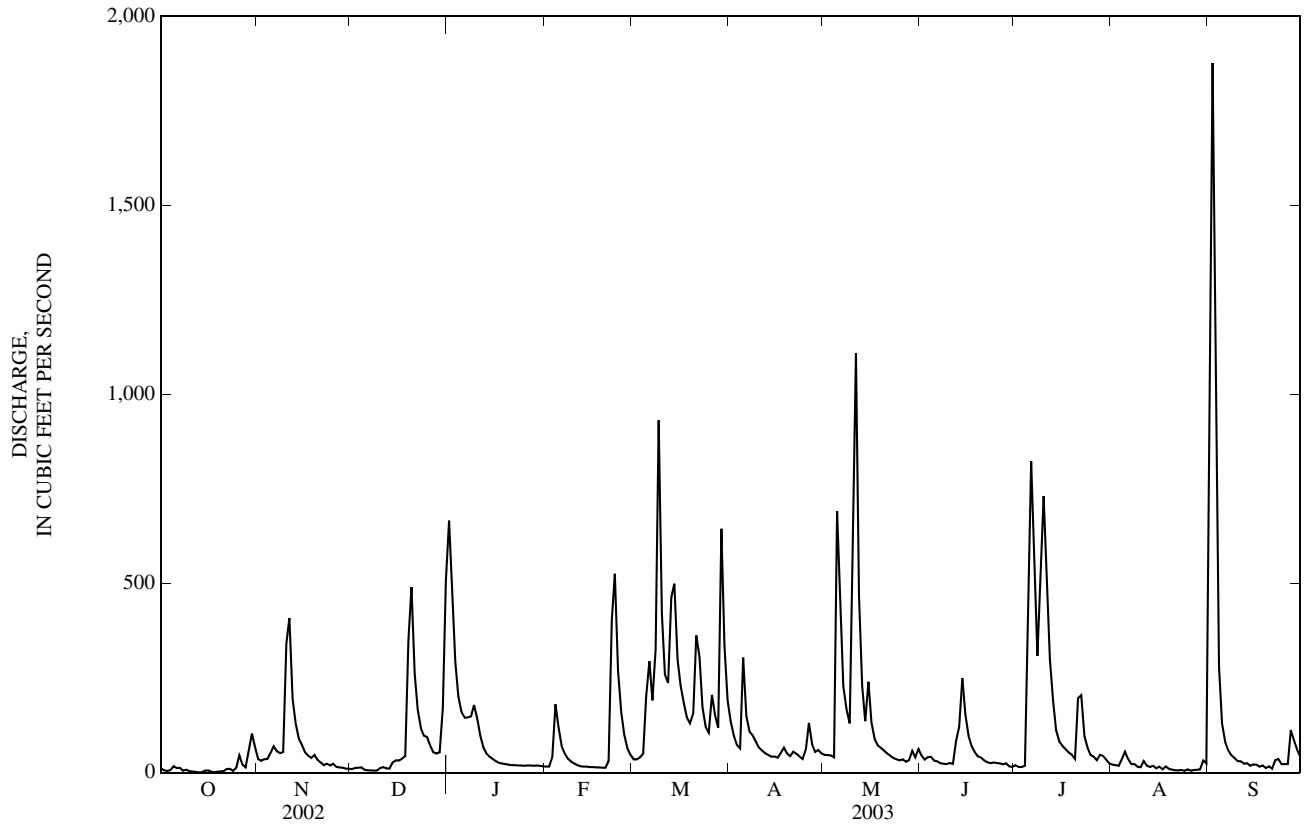
	38.7	93.9	111	112	134	157	137	123	85.7	69.3	35.0	27.2
MEAN	38.7	93.9	111	112	134	157	137	123	85.7	69.3	35.0	27.2
MAX	312	463	333	352	349	347	302	462	478	324	216	166
(WY)	(1987)	(1994)	(1991)	(1969)	(1971)	(1978)	(1996)	(1996)	(1998)	(1969)	(1979)	(2003)
MIN	2.96	5.90	8.11	4.09	18.8	27.8	18.5	17.4	6.04	5.97	2.83	1.24
(WY)	(1998)	(2000)	(1977)	(1977)	(1978)	(1969)	(1971)	(1976)	(1988)	(1991)	(1999)	(1999)

SUMMARY STATISTICS

	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1968 - 2003	
ANNUAL TOTAL	40,159.10		39,220.52			
ANNUAL MEAN	110		107		93.4	
HIGHEST ANNUAL MEAN					146	
LOWEST ANNUAL MEAN					36.7	
HIGHEST DAILY MEAN	2,360	May 13	1,880	Sep 2	3,570	Nov 14, 1993
LOWEST DAILY MEAN	0.70	Oct 14	0.70	Oct 14	0.60	Oct 1, 1967
ANNUAL SEVEN-DAY MINIMUM	1.6	Sep 5	2.6	Oct 12	0.98	Sep 22, 1999
MAXIMUM PEAK FLOW			2,260	Sep 2	7,140	Jul 20, 1969
MAXIMUM PEAK STAGE			10.42	Sep 2	14.99	Jul 20, 1969
ANNUAL RUNOFF (CFSM)	1.40		1.36		1.19	
ANNUAL RUNOFF (INCHES)	18.96		18.52		16.11	
10 PERCENT EXCEEDS	281		296		206	
50 PERCENT EXCEEDS	37		41		33	
90 PERCENT EXCEEDS	4.5		9.9		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 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 mi<sup>2</sup>.

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

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

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	e40	20	809	31	125	131	75	68	28	49	551
2	7.1	e21	19	623	34	154	106	82	55	27	43	1,860
3	6.3	e17	18	363	52	165	92	66	59	27	38	892
4	e9.0	e16	17	261	223	164	84	58	64	29	35	285
5	e11	e15	17	218	e120	470	218	680	53	25	37	175
6	e12	e18	18	202	e90	487	161	500	46	60	33	112
7	e9.0	e19	18	192	e70	371	122	272	45	60	28	81
8	e8.6	e17	17	172	e60	449	102	221	42	40	26	67
9	e7.5	e17	17	164	e52	615	89	212	40	51	22	54
10	e6.4	e240	17	128	e45	325	81	379	36	1,090	36	46
11	5.3	526	18	97	e40	231	74	1,390	46	516	27	40
12	4.9	226	20	e70	e37	191	68	578	85	264	46	35
13	4.6	117	24	e62	e35	292	60	291	101	162	38	31
14	5.0	80	48	e56	e41	390	55	202	382	107	27	27
15	e5.9	63	68	e52	257	260	54	322	524	86	22	26
16	e5.5	52	66	e48	209	200	53	235	264	83	19	22
17	e5.2	45	55	e43	120	160	54	173	174	65	17	20
18	5.1	39	69	e40	97	135	55	172	120	71	16	18
19	7.6	35	567	e38	82	125	55	131	97	76	15	18
20	8.8	32	561	e35	127	131	60	113	80	54	13	17
21	e8.0	31	297	e33	222	165	81	99	69	250	12	16
22	e7.6	33	204	e32	686	164	80	86	60	591	11	32
23	7.4	33	133	e31	1,000	122	63	80	55	302	10	47
24	7.9	29	109	e30	405	105	55	73	49	190	9.2	27
25	e12	27	100	e30	265	96	88	65	46	119	8.5	20
26	e55	25	77	e30	211	99	266	59	42	89	8.3	19
27	e50	23	69	e29	168	89	149	55	41	73	8.0	280
28	e30	22	70	e29	137	84	105	52	36	98	8.2	197
29	e33	22	78	e29	---	334	94	120	33	104	11	114
30	e82	22	239	30	---	253	83	87	30	73	20	76
31	e72	---	497	30	---	169	---	77	---	58	20	---
TOTAL	508.1	1,902	3,547	4,006	4,916	7,120	2,838	7,005	2,842	4,868	713.2	5,205
MEAN	16.4	63.4	114	129	176	230	94.6	226	94.7	157	23.0	174
MAX	82	526	567	809	1,000	615	266	1,390	524	1,090	49	1,860
MIN	4.6	15	17	29	31	84	53	52	30	25	8.0	16
CFSM	0.15	0.59	1.07	1.21	1.64	2.15	0.88	2.11	0.89	1.47	0.22	1.62
IN.	0.18	0.66	1.23	1.39	1.71	2.48	0.99	2.44	0.99	1.69	0.25	1.81

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2003, BY WATER YEAR (WY)

MEAN	31.7	84.0	119	154	174	208	184	156	101	72.8	29.1	26.7
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 2002 CALENDAR YEAR

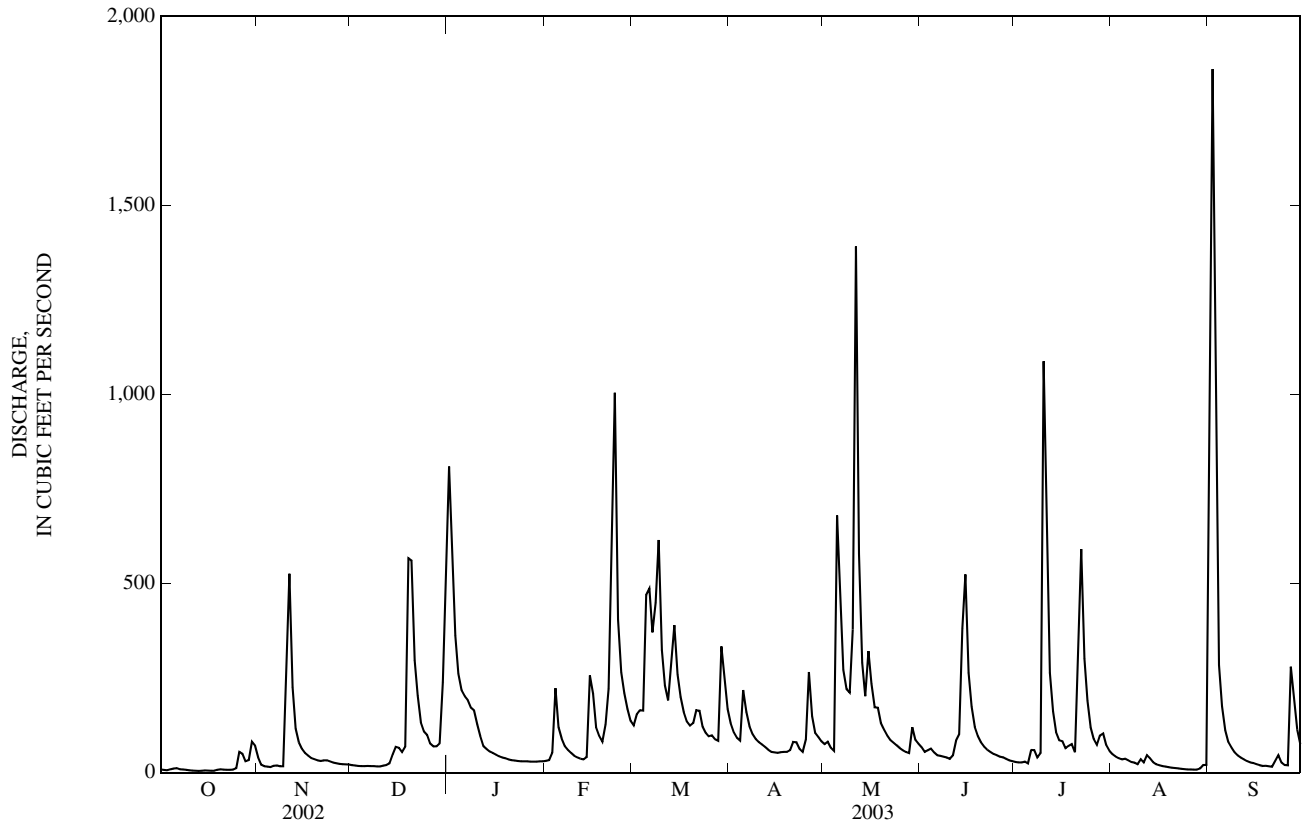
FOR 2003 WATER YEAR

WATER YEARS 1944 - 2003

ANNUAL TOTAL	58,301.1	45,470.3	
ANNUAL MEAN	160	125	111
HIGHEST ANNUAL MEAN			219
LOWEST ANNUAL MEAN			20.3
HIGHEST DAILY MEAN	3,250	1,860	6,260
LOWEST DAILY MEAN	4.6	4.6	0.50
ANNUAL SEVEN-DAY MINIMUM	4.8	5.2	0.73
MAXIMUM PEAK FLOW		2,310	10,700
MAXIMUM PEAK STAGE		8.76	13.40
ANNUAL RUNOFF (CFSM)	1.49	1.16	1.04
ANNUAL RUNOFF (INCHES)	20.27	15.81	14.14
10 PERCENT EXCEEDS	367	287	251
50 PERCENT EXCEEDS	52	60	38
90 PERCENT EXCEEDS	7.3	15	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 SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec.29, T.11 N., R.5 E., Johnson County, Hydrologic Unit 05120204, (EDINBURGH, IN quadrangle), on left bank 50 ft upstream from highway bridge in Camp Atterbury, 1.3 mi upstream from confluence with Blue River, 1.5 mi northwest of Edinburg, and at mile 1.3.

DRAINAGE AREA.--474 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 2109: Drainage area.

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	137	114	2,640	197	457	789	324	327	154	198	837
2	62	108	110	2,860	172	462	622	322	268	154	183	4,350
3	57	93	108	1,690	185	491	514	299	256	149	172	5,290
4	57	86	107	1,100	469	466	451	282	271	146	166	3,370
5	68	83	107	819	e550	1,000	795	1,560	253	193	178	1,430
6	75	93	103	696	e410	1,720	857	2,710	226	2,100	191	693
7	69	102	102	647	e310	1,320	609	1,430	218	2,490	166	490
8	60	97	99	613	e270	1,290	539	1,080	209	2,040	150	381
9	57	88	97	665	e240	2,930	482	979	200	1,420	142	310
10	54	210	95	649	e220	2,660	436	1,070	190	3,150	146	265
11	55	1,320	104	548	e210	1,550	394	4,270	196	3,130	142	231
12	52	741	107	e400	e197	1,120	361	4,450	250	2,250	155	211
13	49	444	108	e350	e190	1,220	326	1,930	499	1,360	146	188
14	47	318	124	e340	e200	2,380	300	1,090	1,300	781	133	177
15	48	250	163	e300	416	1,730	286	1,120	2,020	569	129	165
16	47	212	183	e280	463	1,320	282	1,000	1,140	489	120	159
17	50	184	185	e270	321	1,020	313	732	795	471	117	151
18	51	166	180	e260	296	833	412	642	564	421	111	140
19	52	154	715	e250	250	703	367	539	442	375	109	139
20	53	147	2,120	e245	275	731	321	475	367	309	104	132
21	52	140	1,500	e235	390	851	337	424	314	477	100	130
22	53	142	911	e230	1,000	1,200	361	378	274	1,400	96	146
23	50	139	606	e225	3,450	893	309	345	245	823	93	197
24	52	138	462	e220	1,740	675	278	317	226	563	90	184
25	68	132	410	e215	1,050	563	305	294	212	405	88	165
26	148	129	346	e213	750	580	706	277	200	319	87	158
27	138	122	295	e211	626	654	588	266	194	272	86	506
28	101	119	273	e209	512	572	434	248	181	285	86	819
29	115	117	271	e207	---	1,290	381	332	173	321	89	633
30	226	117	413	206	---	1,730	356	352	161	259	117	443
31	197	---	1,280	204	---	1,100	---	300	---	222	132	---
TOTAL	2,329	6,328	11,798	17,997	15,359	35,511	13,511	29,837	12,171	27,497	4,022	22,490
MEAN	75.1	211	381	581	549	1,146	450	962	406	887	130	750
MAX	226	1,320	2,120	2,860	3,450	2,930	857	4,450	2,020	3,150	198	5,290
MIN	47	83	95	204	172	457	278	248	161	146	86	130
CFSM	0.16	0.45	0.80	1.22	1.16	2.42	0.95	2.03	0.86	1.87	0.27	1.58
IN.	0.18	0.50	0.93	1.41	1.21	2.79	1.06	2.34	0.96	2.16	0.32	1.77

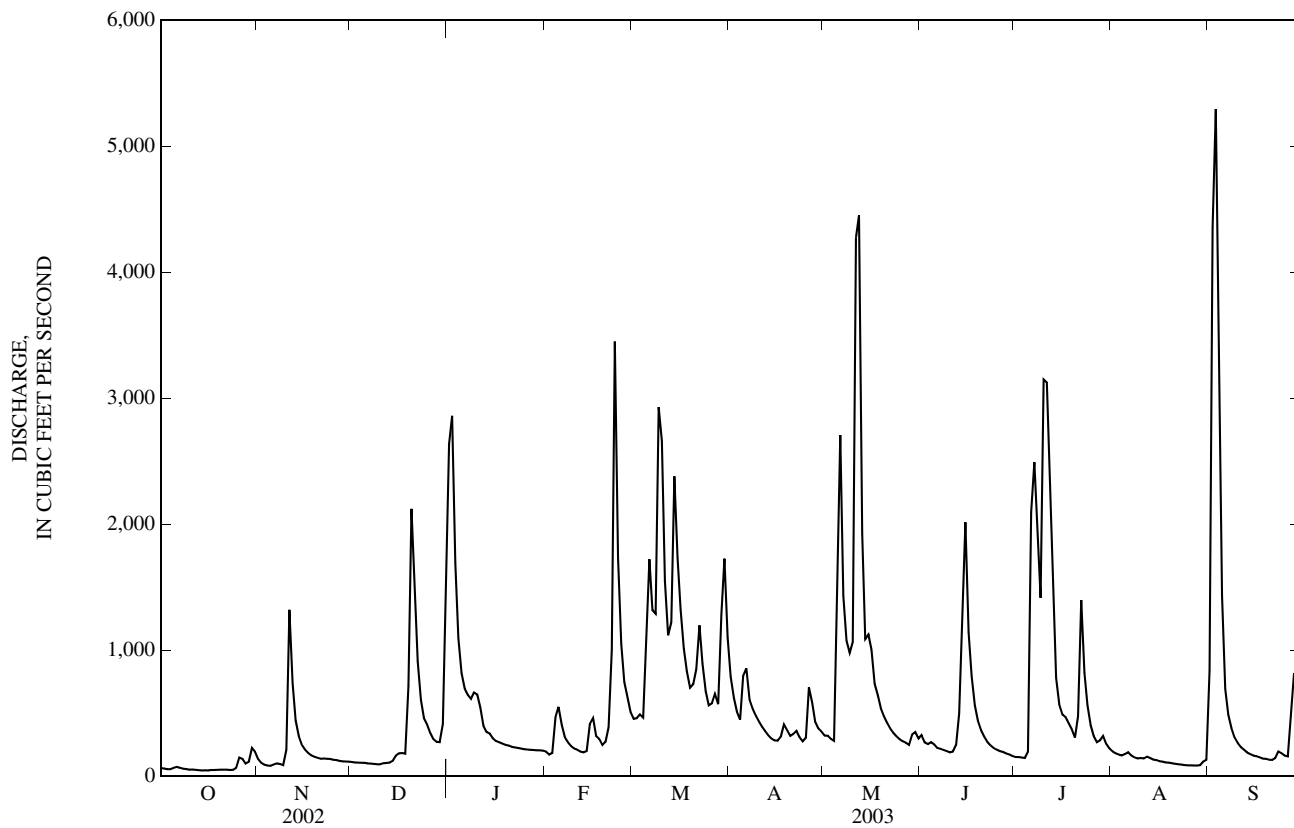
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2003, BY WATER YEAR (WY)

MEAN	149	369	511	691	774	933	842	712	483	331	172	137
MAX	983	2,591	1,742	4,000	2,192	2,281	2,076	2,878	2,381	1,564	1,348	1,295
(WY)	(1987)	(1994)	(1991)	(1950)	(1950)	(1961)	(1964)	(1996)	(1998)	(1979)	(1979)	(1989)
MIN	22.2	33.4	30.4	36.5	74.8	215	170	120	58.7	29.5	25.4	13.4
(WY)	(1945)	(1954)	(1964)	(1977)	(1964)	(1981)	(1971)	(1976)	(1988)	(1954)	(1954)	(1954)

03362500 SUGAR CREEK NEAR EDINBURGH, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1943 - 2003	
ANNUAL TOTAL	218,530		198,850		507	
ANNUAL MEAN	599		545		160	
HIGHEST ANNUAL MEAN					849	1950
LOWEST ANNUAL MEAN					160	1954
HIGHEST DAILY MEAN	10,700	May 14	5,290	Sep 3	19,200	May 29, 1956
LOWEST DAILY MEAN	24	Sep 13	47	Oct 14	9.2	Sep 18, 1954
ANNUAL SEVEN-DAY MINIMUM	26	Sep 8	49	Oct 12	10	Sep 13, 1954
MAXIMUM PEAK FLOW			5,880	Sep 3	27,600	May 29, 1956
MAXIMUM PEAK STAGE			11.11	Sep 3	18.38	May 29, 1956
ANNUAL RUNOFF (CF5M)	1.26		1.15		1.07	
ANNUAL RUNOFF (INCHES)	17.15		15.61		14.53	
10 PERCENT EXCEEDS	1,270		1,320		1,150	
50 PERCENT EXCEEDS	207		277		213	
90 PERCENT EXCEEDS	52		93		46	

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 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1930 to current year. Prior to October 1958, published as Flatrock Creek at St. Paul.

REVISED RECORDS.--WSP 853: 1934-36. WSP 973: 1942. WSP 1335: 1933, 1936. WSP 1725: 1957(M). WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 764.84 ft above National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to Oct. 21, 1938, nonrecording gage at site 500 ft upstream at same datum.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of approximately 20.5 ft, from information by local residents.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	26	32	1,590	e96	246	356	242	188	114	103	182
2	12	22	32	1,600	97	337	312	248	157	279	96	2,160
3	10	20	30	952	118	345	277	227	172	138	110	2,660
4	11	20	e26	593	268	339	258	211	185	105	444	2,260
5	11	e22	e25	445	363	1,370	406	1,520	164	1,580	436	631
6	14	25	e24	365	222	1,560	436	1,370	145	1,780	264	387
7	12	24	e23	314	183	1,080	370	783	139	908	169	281
8	11	e22	e24	305	221	1,140	359	578	138	718	133	216
9	11	21	e24	311	177	2,080	331	503	131	1,280	135	177
10	e11	61	e27	320	135	1,740	301	1,040	122	1,610	407	153
11	9.3	e110	32	249	e125	909	277	2,260	123	1,760	242	132
12	9.1	e380	33	235	e118	687	251	2,050	606	908	159	116
13	9.3	e140	35	271	e110	803	223	1,140	903	585	122	107
14	e11	72	45	204	e120	1,350	206	651	1,550	405	120	101
15	9.9	e62	51	e195	170	1,030	203	785	2,760	317	104	98
16	9.1	e52	56	e180	320	778	206	810	1,840	283	92	93
17	9.4	e43	61	e165	262	665	240	545	1,160	228	85	85
18	e9.0	e38	68	e158	166	556	261	438	644	200	80	79
19	11	e36	312	e152	109	479	224	361	453	181	73	74
20	12	e35	1,060	e148	139	462	220	341	338	158	64	72
21	e17	34	703	e140	116	579	241	335	268	261	58	69
22	e15	37	389	e130	899	767	228	273	223	413	53	95
23	14	37	258	e120	1,680	565	206	242	195	381	49	195
24	11	36	197	e118	1,080	448	193	219	172	249	44	182
25	18	36	184	e116	592	384	220	204	152	188	42	130
26	35	e36	145	e113	425	377	367	193	142	155	40	129
27	29	35	117	e108	339	376	296	181	138	135	38	816
28	e26	34	110	e104	276	344	259	178	123	156	39	911
29	e29	33	111	e104	---	430	252	206	111	150	50	500
30	e33	33	319	e102	---	509	242	186	101	128	77	324
31	32	---	856	e100	---	414	---	198	---	111	82	---
TOTAL	475.1	1,582	5,409	10,007	8,926	23,149	8,221	18,518	13,543	15,864	4,010	13,415
MEAN	15.3	52.7	174	323	319	747	274	597	451	512	129	447
MAX	35	380	1,060	1,600	1,680	2,080	436	2,260	2,760	1,780	444	2,660
MIN	9.0	20	23	100	96	246	193	178	101	105	38	69
CFSM	0.05	0.17	0.58	1.07	1.05	2.46	0.90	1.97	1.49	1.69	0.43	1.48
IN.	0.06	0.19	0.66	1.23	1.10	2.84	1.01	2.27	1.66	1.95	0.49	1.65

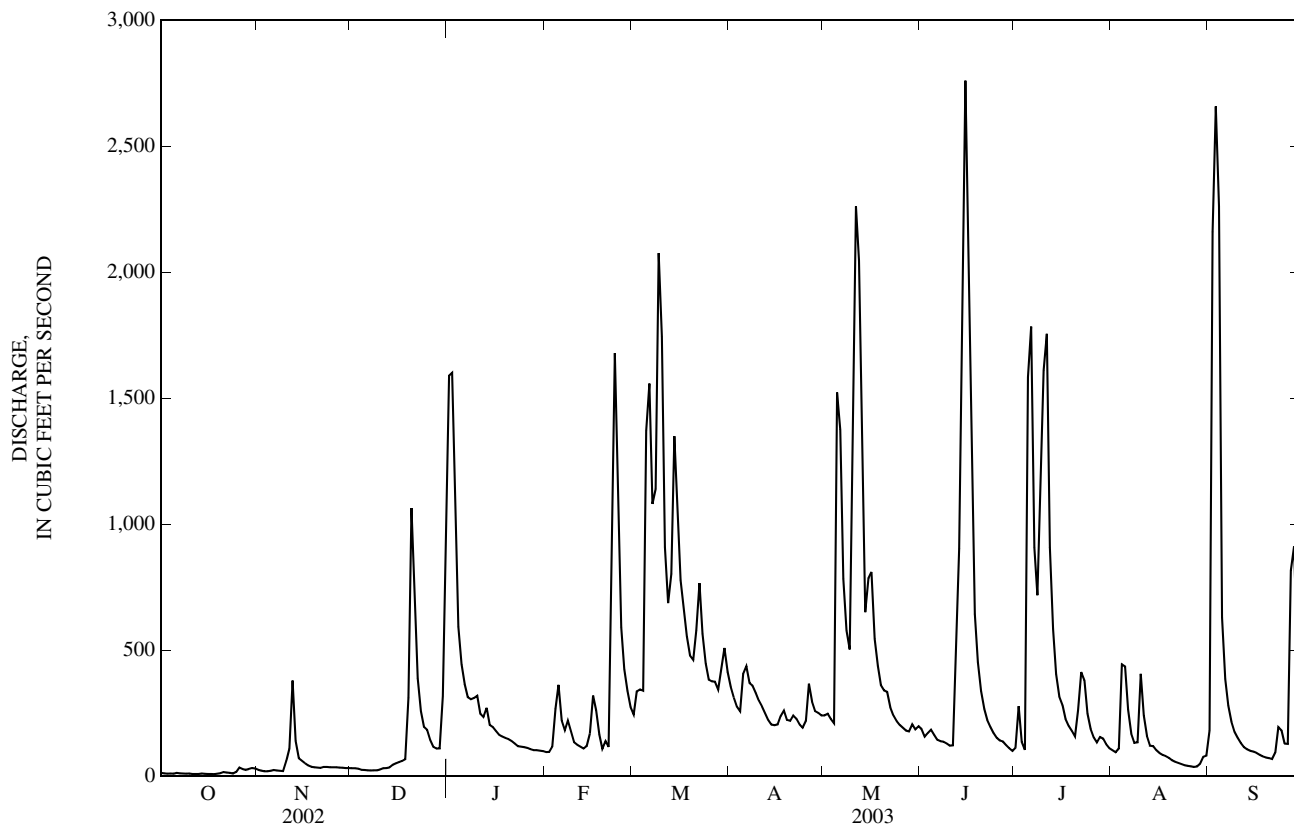
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2003, BY WATER YEAR (WY)

MEAN	89.8	212	345	484	514	584	585	464	300	192	90.6	70.4
MAX	600	1,342	1,567	3,450	1,808	1,605	1,576	1,968	1,502	915	716	447
(WY)	(2002)	(1994)	(1991)	(1937)	(1950)	(1961)	(2002)	(1996)	(1998)	(1979)	(1979)	(2003)
MIN	1.96	6.97	9.98	15.1	27.7	41.8	51.9	42.9	19.7	9.28	4.06	1.36
(WY)	(1964)	(2000)	(1964)	(1977)	(1935)	(1941)	(1941)	(1934)	(1934)	(1936)	(1988)	(1999)

03363500 FLATROCK RIVER AT ST. PAUL, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1931 - 2003	
ANNUAL TOTAL	152,819.7		123,119.1		327	
ANNUAL MEAN	419		337		642	
HIGHEST ANNUAL MEAN					1950	
LOWEST ANNUAL MEAN					1941	
HIGHEST DAILY MEAN	7,810	May 14	2,760	Jun 15	16,500	Jan 5, 1949
LOWEST DAILY MEAN	4.9	Sep 14	9.0	Oct 18	0.60	Aug 7, 1931
ANNUAL SEVEN-DAY MINIMUM	6.4	Sep 10	9.5	Oct 12	0.80	Oct 12, 1963
MAXIMUM PEAK FLOW			4,620	Jun 15	18,500	Jan 5, 1949
MAXIMUM PEAK STAGE			5.85	Jun 15	12.37	May 24, 1968
ANNUAL RUNOFF (CFSM)	1.38		1.11		1.08	
ANNUAL RUNOFF (INCHES)	18.76		15.12		14.64	
10 PERCENT EXCEEDS	1,000		905		754	
50 PERCENT EXCEEDS	139		181		135	
90 PERCENT EXCEEDS	11		25		16	

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 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 610.14 ft above National Geodetic Vertical Datum of 1929.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	95	124	1,960	234	679	730	378	397	284	269	180
2	56	84	121	2,600	236	747	668	387	363	364	253	1,090
3	54	77	120	1,770	253	864	606	375	350	466	239	2,020
4	55	73	118	1,210	422	784	564	351	362	344	339	2,240
5	53	72	116	961	e540	1,350	587	1,130	354	376	576	1,220
6	52	71	113	831	e450	2,170	779	2,150	328	1,810	532	664
7	51	73	113	754	e360	1,740	702	1,510	308	1,380	384	508
8	49	74	113	704	e320	1,510	669	1,160	300	870	313	415
9	51	71	111	666	e312	2,010	633	1,050	293	949	273	353
10	50	90	110	646	e302	2,060	591	1,050	284	1,870	301	309
11	49	465	113	593	e288	1,470	551	3,100	285	1,830	426	277
12	49	603	116	e478	276	1,100	520	2,340	397	1,480	338	251
13	48	410	120	e430	253	1,040	483	1,720	1,430	958	276	231
14	47	297	134	e390	270	1,490	447	1,110	1,510	759	240	217
15	47	237	182	e370	323	1,440	424	971	2,710	633	230	208
16	46	203	206	e340	416	1,150	410	1,110	3,820	552	212	198
17	47	181	199	e320	349	1,020	429	915	1,720	492	197	188
18	47	167	205	e310	343	920	508	792	1,190	439	185	177
19	48	156	492	e290	318	839	468	706	918	399	176	169
20	47	147	1,610	e280	302	845	425	644	762	367	168	162
21	48	143	1,470	e270	341	854	468	635	647	370	160	157
22	47	140	951	e260	613	1,030	466	580	568	695	154	170
23	47	142	711	e254	2,960	950	418	530	509	703	148	188
24	48	143	577	e250	1,910	816	383	492	462	601	140	268
25	54	140	520	e243	1,270	743	390	462	420	466	134	254
26	58	136	465	e238	964	716	536	435	388	392	129	218
27	69	133	406	e230	835	695	576	409	368	345	126	385
28	74	130	375	e230	748	671	475	385	349	323	122	915
29	77	127	368	246	---	796	429	404	322	351	121	739
30	104	127	463	246	---	924	399	407	301	329	134	536
31	107	---	1,230	238	---	825	---	378	---	292	158	---
TOTAL	1,738	5,007	12,072	18,608	16,208	34,248	15,734	28,066	22,415	21,489	7,453	14,907
MEAN	56.1	167	389	600	579	1,105	524	905	747	693	240	497
MAX	107	603	1,610	2,600	2,960	2,170	779	3,100	3,820	1,870	576	2,240
MIN	46	71	110	230	234	671	383	351	284	284	121	157
CFSM	0.10	0.31	0.73	1.12	1.08	2.07	0.98	1.70	1.40	1.30	0.45	0.93
IN.	0.12	0.35	0.84	1.30	1.13	2.39	1.10	1.96	1.56	1.50	0.52	1.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2003, BY WATER YEAR (WY)

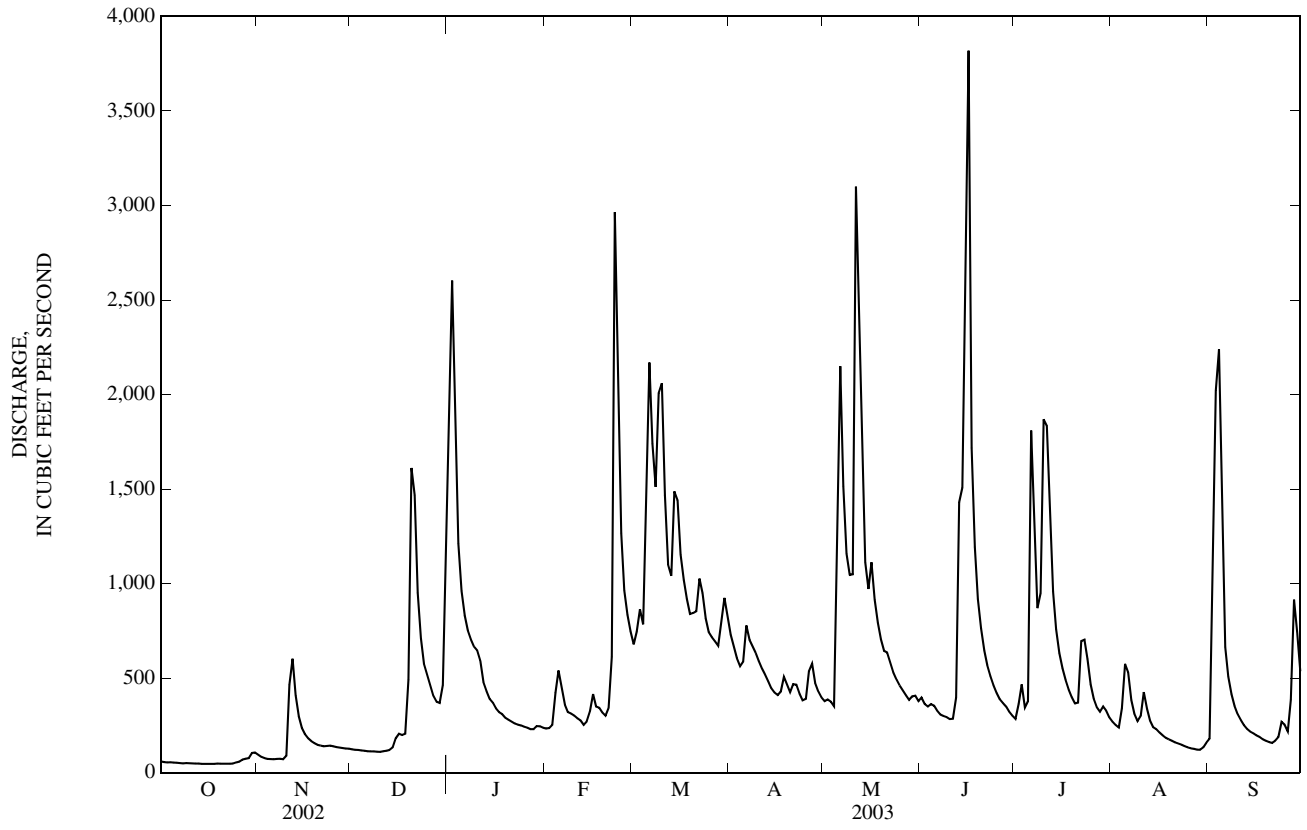
MEAN	186	428	679	719	913	956	1,012	943	612	401	243	155
MAX	912	2,336	2,092	1,827	2,524	2,223	2,301	3,871	2,728	1,556	1,296	837
(WY)	(1994)	(1994)	(1991)	(1969)	(1982)	(1978)	(1996)	(1996)	(1998)	(1979)	(1979)	(1989)
MIN	25.6	30.2	44.8	30.6	189	204	251	132	77.2	50.8	35.0	17.0
(WY)	(2000)	(2000)	(1977)	(1977)	(1992)	(1992)	(1976)	(1976)	(1988)	(1988)	(1988)	(1999)

SUMMARY STATISTICS

	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1968 - 2003
ANNUAL TOTAL	260,593	197,945	
ANNUAL MEAN	714	542	602
HIGHEST ANNUAL MEAN			949
LOWEST ANNUAL MEAN			271
HIGHEST DAILY MEAN	15,200	May 14	3,820
LOWEST DAILY MEAN	43	Sep 12	46
ANNUAL SEVEN-DAY MINIMUM	44	Sep 8	47
MAXIMUM PEAK FLOW			5,020
MAXIMUM PEAK STAGE			10.58
ANNUAL RUNOFF (CFSM)	1.34		1.02
ANNUAL RUNOFF (INCHES)	18.15		13.79
10 PERCENT EXCEEDS	1,470	1,210	1,320
50 PERCENT EXCEEDS	316	375	316
90 PERCENT EXCEEDS	51	81	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 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1947 to current year. Prior to January 1948 monthly discharge only, published in WSP 1305.

REVISED RECORDS.--WSP 1335: 1948-49. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 603.12 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 22, 1952, nonrecording gage 600 ft upstream at same datum.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	308	522	424	6,890	716	1,960	2,850	1,290	1,300	793	1,030	893
2	288	430	412	8,910	716	1,990	2,440	1,280	1,230	850	949	6,550
3	277	384	403	6,670	761	2,190	2,140	1,280	1,150	983	901	11,000
4	279	362	397	4,220	1,340	2,080	1,950	1,220	1,160	815	1,060	12,000
5	288	368	395	3,150	1,930	3,460	2,070	4,170	1,150	774	1,380	9,010
6	290	370	388	2,670	1,740	6,040	2,840	7,770	1,070	5,590	1,320	3,230
7	293	382	380	2,390	1,470	5,440	2,430	5,580	981	7,770	1,080	2,310
8	270	386	372	2,190	1,180	4,630	2,210	4,230	959	7,240	922	1,870
9	260	361	373	2,100	1,110	6,490	2,080	3,840	926	5,070	818	1,590
10	253	464	366	2,250	1,080	8,760	1,940	3,630	889	10,400	805	1,380
11	249	2,080	376	2,080	990	6,140	1,800	8,870	893	10,500	1,020	1,230
12	241	2,330	383	1,710	903	4,130	1,700	11,300	1,650	9,650	943	1,090
13	234	1,600	407	1,500	800	3,860	1,590	10,400	2,790	5,620	879	986
14	228	1,220	503	1,470	858	5,990	1,470	5,350	4,100	3,510	774	912
15	225	994	620	1,280	1,270	6,300	1,390	3,770	9,280	2,830	715	845
16	221	847	751	e1,150	1,630	4,750	1,350	4,000	10,200	2,440	650	794
17	220	736	757	e1,040	1,270	3,860	1,450	3,210	5,030	2,160	598	746
18	220	664	755	e980	1,140	3,320	1,680	2,750	3,290	1,940	550	693
19	229	614	1,510	e900	1,050	2,900	1,590	2,360	2,540	1,750	524	655
20	230	575	4,450	e840	1,060	2,830	1,440	2,120	2,100	1,560	507	621
21	230	546	5,680	e790	1,250	2,950	1,520	1,970	1,790	1,580	475	594
22	233	532	3,810	e750	2,390	3,700	1,520	1,800	1,580	3,410	455	653
23	226	527	2,670	e720	8,670	3,420	1,370	1,670	1,420	3,150	451	740
24	224	527	2,060	e690	6,910	2,790	1,260	1,580	1,290	2,460	429	959
25	262	511	1,790	e660	4,230	2,450	1,410	1,480	1,190	1,920	408	884
26	351	496	1,580	e640	3,050	2,380	1,950	1,390	1,100	1,600	394	780
27	444	481	1,370	e620	2,550	2,440	1,990	1,320	1,040	1,390	386	1,150
28	404	461	1,220	e700	2,200	2,310	1,630	1,230	984	1,310	378	2,930
29	437	445	1,160	767	---	3,050	1,460	1,260	919	1,430	395	2,630
30	598	435	1,530	752	---	4,470	1,370	1,390	851	1,290	442	1,970
31	653	---	3,670	721	---	3,610	---	1,280	---	1,140	609	---
TOTAL	9,165	20,650	40,962	62,200	54,264	120,690	53,890	104,790	64,852	102,925	22,247	71,695
MEAN	296	688	1,321	2,006	1,938	3,893	1,796	3,380	2,162	3,320	718	2,390
MAX	653	2,330	5,680	8,910	8,670	8,760	2,850	11,300	10,200	10,500	1,380	12,000
MIN	220	361	366	620	716	1,960	1,260	1,220	851	774	378	594
CFSM	0.17	0.40	0.77	1.18	1.14	2.28	1.05	1.98	1.27	1.95	0.42	1.40
IN.	0.20	0.45	0.89	1.36	1.18	2.63	1.17	2.28	1.41	2.24	0.48	1.56

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2003, BY WATER YEAR (WY)

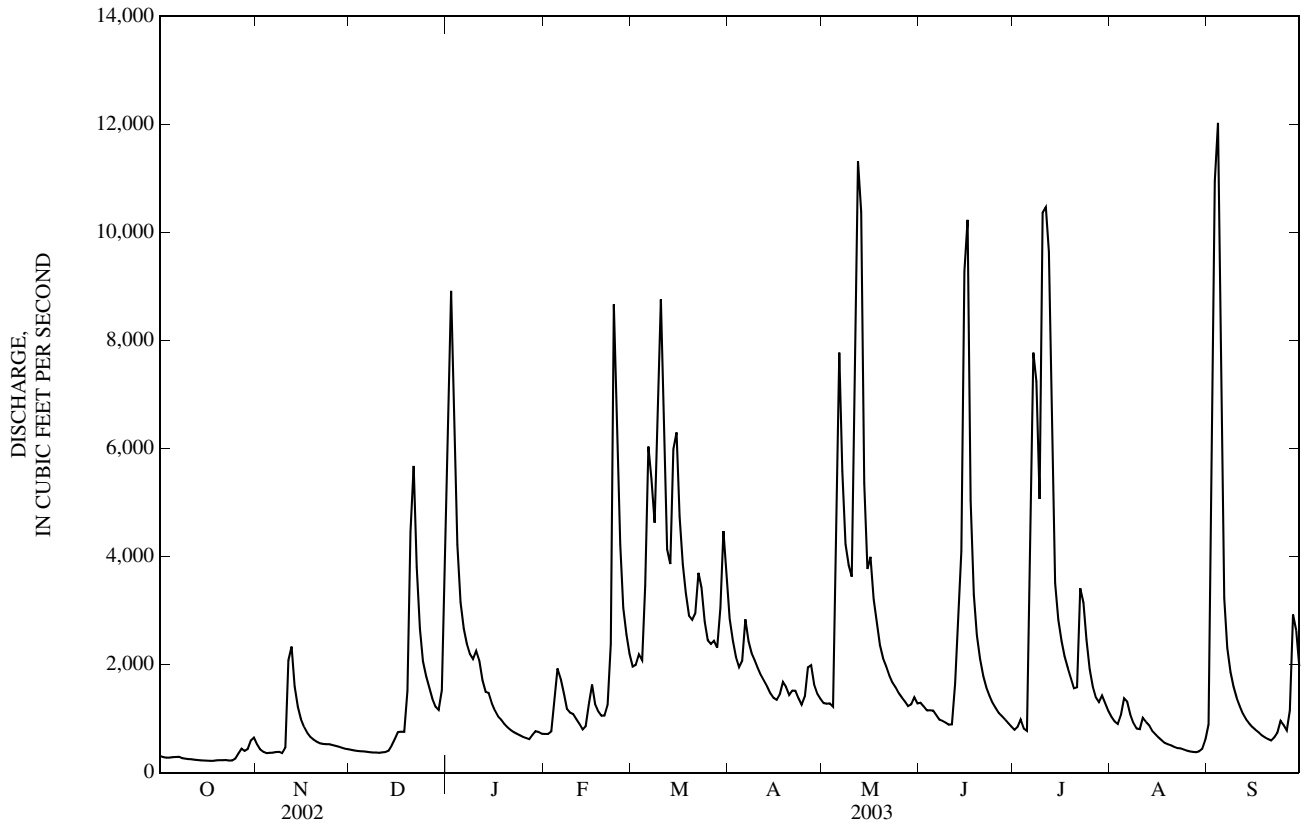
MEAN	622	1,335	1,983	2,577	2,946	3,227	3,092	2,650	1,781	1,317	745	556
MAX	4,096	8,137	6,004	14,400	8,640	8,014	7,466	10,960	8,272	4,990	5,185	3,696
(WY)	(2002)	(1994)	(1967)	(1950)	(1950)	(1963)	(1964)	(1996)	(1998)	(1958)	(1979)	(1989)
MIN	104	172	191	163	342	829	852	532	325	161	136	101
(WY)	(1995)	(1955)	(1964)	(1977)	(1964)	(1954)	(1971)	(1976)	(1988)	(1954)	(1954)	(1954)

## SUMMARY STATISTICS

	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1949 - 2003	
ANNUAL TOTAL	838,511		728,330			
ANNUAL MEAN	2,297		1,995		1,897	
HIGHEST ANNUAL MEAN					3,304	
LOWEST ANNUAL MEAN					534	
HIGHEST DAILY MEAN	31,300		May 15		12,000	
LOWEST DAILY MEAN	174		Sep 14		220	
ANNUAL SEVEN-DAY MINIMUM	185		Sep 8		225	
MAXIMUM PEAK FLOW					12,200	
MAXIMUM PEAK STAGE					6.47	
ANNUAL RUNOFF (CFSM)	1.35		1.17		1.11	
ANNUAL RUNOFF (INCHES)	18.27		15.87		15.10	
10 PERCENT EXCEEDS	5,090		4,530		4,270	
50 PERCENT EXCEEDS	1,190		1,270		981	
90 PERCENT EXCEEDS	259		381		250	

e Estimated

03364000 EAST FORK WHITE RIVER AT COLUMBUS, IN—Continued



03364500 CLIFTY CREEK AT HARTSVILLE, IN

LOCATION.--Lat 39°16'25", long 85°42'10", in NW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> 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 mi<sup>2</sup>.

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 ft<sup>3</sup>/s and estimated daily discharges, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1913 reached an elevation of 702.4 ft above National Geodetic Vertical Datum of 1929, from floodmarks, upstream from bridge.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.19	5.4	6.7	1,220	e18	94	86	49	40	29	14	32
2	0.08	5.1	6.5	745	e21	250	74	50	34	30	12	420
3	0.00	e4.7	6.5	358	42	214	65	44	38	35	11	245
4	0.23	4.2	5.6	212	198	185	61	41	44	27	84	87
5	0.43	4.5	5.8	157	e90	880	84	1,080	39	24	60	47
6	0.31	5.4	5.7	131	e70	536	81	571	33	64	32	31
7	0.24	4.9	5.5	117	e50	371	73	268	31	37	22	23
8	0.21	4.2	e5.2	113	e42	366	72	176	31	29	17	19
9	0.19	4.1	4.8	100	e48	518	65	139	29	39	14	16
10	0.21	83	5.5	84	e39	235	60	359	27	258	194	14
11	0.20	450	6.4	67	e34	149	57	605	28	70	56	12
12	0.18	109	7.6	51	e33	122	52	254	47	52	32	11
13	0.18	45	11	e61	e32	151	47	146	821	37	23	9.5
14	0.10	27	29	e49	e31	252	43	109	1,190	29	18	9.2
15	0.03	19	46	e42	79	163	42	153	1,860	40	15	9.9
16	0.00	15	62	e37	77	129	41	121	1,430	45	13	9.3
17	0.00	12	58	e33	67	111	55	93	463	27	12	8.1
18	0.00	10	76	e29	55	96	75	83	255	24	9.9	7.1
19	0.14	9.2	411	e26	44	92	59	72	170	21	8.7	6.7
20	0.22	8.1	742	e23	46	91	54	68	122	18	8.0	6.5
21	0.22	7.7	295	e21	66	165	57	85	94	36	7.2	6.2
22	0.16	8.6	161	e20	842	193	57	70	78	103	6.6	12
23	0.17	9.2	106	e18	943	126	48	60	66	90	6.1	21
24	0.20	9.5	84	e17	335	100	43	54	57	48	5.6	22
25	0.70	9.3	80	e16	168	87	52	49	50	31	5.1	16
26	1.7	9.2	60	e17	129	112	98	46	46	24	4.7	12
27	2.1	8.4	49	e16	107	111	79	42	44	21	4.6	100
28	2.3	7.7	49	e17	90	94	61	40	38	21	4.3	113
29	6.6	7.5	55	e18	---	138	55	53	35	20	4.5	50
30	6.2	7.3	332	e17	---	122	50	45	31	19	5.7	30
31	5.5	---	641	e16	---	98	---	40	---	16	9.9	---
TOTAL	28.99	914.2	3,418.8	3,848	3,796	6,351	1,846	5,065	7,271	1,364	719.9	1,405.5
MEAN	0.94	30.5	110	124	136	205	61.5	163	242	44.0	23.2	46.9
MAX	6.6	450	742	1,220	943	880	98	1,080	1,860	258	194	420
MIN	0.00	4.1	4.8	16	18	87	41	40	27	16	4.3	6.2
CFSM	0.01	0.33	1.21	1.36	1.48	2.24	0.67	1.79	2.65	0.48	0.25	0.51
IN.	0.01	0.37	1.39	1.57	1.54	2.58	0.75	2.06	2.96	0.56	0.29	0.57

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2003, BY WATER YEAR (WY)

MEAN	25.6	70.7	119	155	164	180	160	140	83.5	56.1	30.9	18.5
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	0.000	0.000	0.13	1.47	7.17	21.1	17.7	10.9	1.16	0.000	0.000	0.000
(WY)	(1954)	(1954)	(1954)	(1977)	(1954)	(1954)	(1976)	(1976)	(1988)	(1954)	(1954)	(1953)

03364500 CLIFTY CREEK AT HARTSVILLE, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1949 - 2003	
ANNUAL TOTAL	44,816.45		36,028.39		99.9	
ANNUAL MEAN	123		98.7		197	
HIGHEST ANNUAL MEAN					1950	
LOWEST ANNUAL MEAN					1954	
HIGHEST DAILY MEAN	3,700	May 13	1,860	Jun 15	6,230	Apr 29, 1996
LOWEST DAILY MEAN	0.00	Sep 6	0.00	Oct 3	0.00	Oct 14, 1948
ANNUAL SEVEN-DAY MINIMUM	0.00	Sep 6	0.06	Oct 13	0.00	Sep 2, 1951
MAXIMUM PEAK FLOW			3,470	Jun 15	11,300	Jan 21, 1959
MAXIMUM PEAK STAGE			8.00	Jun 15	14.29	Jan 21, 1959
ANNUAL RUNOFF (CFSM)	1.34		1.08		1.09	
ANNUAL RUNOFF (INCHES)	18.24		14.66		14.86	
10 PERCENT EXCEEDS	294		213		220	
50 PERCENT EXCEEDS	38		41		32	
90 PERCENT EXCEEDS	0.19		4.7		0.85	

e Estimated

