

STATION RECORDS FOR

GAGING STATIONS

IN THE

STATE OF INDIANA

GREAT MIAMI RIVER BASIN

03274650 WHITEWATER RIVER NEAR ECONOMY, IN

LOCATION.--Lat 40°00'05", long 85°06'56", in NW¼NE¼ sec.19, T.18 N., R.13 E., Wayne County, Hydrologic Unit 05080003, (CARLOS, IN quadrangle), on right bank 15 ft downstream from bridge on Wayne County Line Road, 1.7 mi upstream from Little Creek, 2.4 mi northwest of Economy, and at mile 91.9.

DRAINAGE AREA.--10.4 mi².

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,066.00 ft above National Geodetic Vertical Datum of 1929.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.30	e0.58	0.97	64	e1.3	e2.6	15	7.5	4.1	3.0	5.3	465
2	0.28	e0.58	1.6	35	e1.3	e2.5	13	7.6	3.8	3.1	157	227
3	0.28	e0.56	1.1	18	e3.8	e2.5	12	7.3	4.8	3.0	105	80
4	0.41	e0.56	0.75	11	22	e2.6	12	7.3	5.1	3.1	36	45
5	0.44	e0.60	0.73	7.2	e8.0	38	20	21	4.4	188	22	32
6	0.36	e0.64	0.70	5.4	e3.8	30	15	15	3.9	63	13	26
7	0.33	e0.60	0.67	4.9	e2.7	e18	18	13	3.8	416	8.7	22
8	0.33	e0.58	0.67	7.0	e2.1	65	18	11	3.7	142	6.8	18
9	0.33	e0.56	0.65	18	e1.7	85	15	26	3.6	487	6.0	16
10	0.33	e2.7	0.62	9.2	e1.6	e32	14	154	3.5	234	5.5	14
11	0.31	4.8	0.70	e5.2	e1.5	e24	13	112	3.3	92	5.1	13
12	0.30	2.3	0.69	e3.6	e1.4	36	12	40	5.5	58	4.7	12
13	0.29	1.5	0.79	e3.0	e1.4	95	11	26	34	41	4.7	10
14	0.29	1.3	e0.76	e2.5	e1.5	45	10	20	42	32	4.4	8.2
15	0.31	1.2	e0.74	e2.2	e1.5	39	10	18	15	28	4.0	7.1
16	0.30	1.2	e0.72	e2.0	e1.3	35	10	15	9.2	24	3.9	6.3
17	0.30	1.0	e0.70	e1.9	e1.4	29	9.7	13	7.3	19	4.3	5.8
18	0.29	0.95	e0.90	e1.8	e1.2	23	9.3	15	6.2	17	3.9	5.6
19	0.44	0.94	22	e1.7	e1.2	23	9.2	10	5.4	14	3.4	5.5
20	0.39	0.89	31	e1.6	e1.2	25	9.3	9.0	4.7	13	3.3	5.3
21	0.38	0.89	11	e1.5	e1.3	39	9.2	7.8	4.3	14	3.5	5.3
22	0.38	0.96	5.8	e1.5	e8.0	26	8.6	6.8	4.1	12	3.9	21
23	0.38	0.90	3.9	e1.5	e22	20	8.2	6.0	3.8	9.7	4.1	15
24	0.40	1.1	3.2	e1.4	e13	17	8.2	5.6	3.6	7.2	4.2	9.9
25	0.76	1.2	3.0	e1.4	e8.0	17	8.5	5.3	3.5	6.0	4.2	8.0
26	0.89	1.2	2.2	e1.4	e5.6	28	8.5	5.0	3.6	5.5	4.6	7.8
27	0.75	1.1	2.0	e1.3	e4.0	20	7.8	4.7	4.0	5.3	5.4	76
28	0.57	1.0	1.9	e1.4	e3.0	16	7.5	4.5	3.5	5.4	5.4	27
29	e0.70	1.2	1.8	e1.4	---	27	7.5	4.6	3.2	5.2	5.3	18
30	e0.64	1.1	21	e1.3	---	20	7.5	4.3	3.1	4.9	4.2	12
31	e0.60	---	50	e1.3	---	16	---	4.7	---	4.7	17	---
TOTAL	13.06	34.69	173.26	220.6	126.8	898.2	337.0	607.0	210.0	1,960.1	506.6	1,223.8
MEAN	0.42	1.16	5.59	7.12	4.53	29.0	11.2	19.6	7.00	63.2	16.3	40.8
MAX	0.89	4.8	50	64	22	95	20	154	42	487	157	465
MIN	0.28	0.56	0.62	1.3	1.2	2.5	7.5	4.3	3.1	3.0	3.3	5.3
CFSM	0.04	0.11	0.54	0.68	0.44	2.79	1.08	1.88	0.67	6.08	1.57	3.92
IN.	0.05	0.12	0.62	0.79	0.45	3.21	1.21	2.17	0.75	7.01	1.81	4.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2003, BY WATER YEAR (WY)

MEAN	4.39	10.3	12.3	12.8	17.4	19.7	19.0	14.4	9.24	8.72	4.59	4.16
MAX	39.9	67.0	39.7	37.7	56.0	41.6	46.0	58.4	24.8	63.2	61.5	40.8
(WY)	(1987)	(1994)	(1978)	(1996)	(1985)	(1978)	(1996)	(1996)	(1998)	(2003)	(1979)	(2003)
MIN	0.14	0.097	0.19	0.33	3.31	2.58	2.96	1.47	1.03	0.57	0.40	0.15
(WY)	(2000)	(2000)	(2000)	(1977)	(1978)	(1981)	(1971)	(1988)	(1977)	(1977)	(1999)	(1999)

SUMMARY STATISTICS

FOR 2002 CALENDAR YEAR

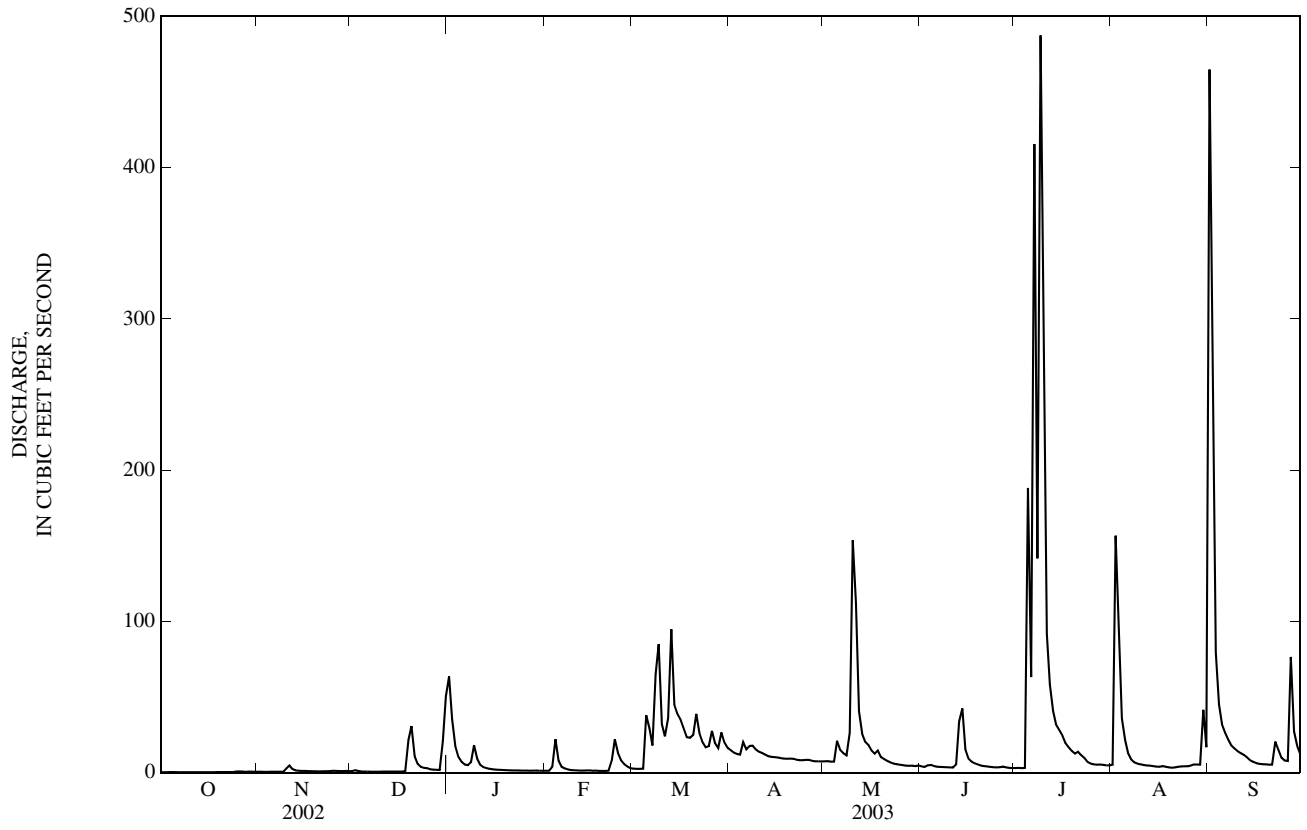
FOR 2003 WATER YEAR

WATER YEARS 1971 - 2003

ANNUAL TOTAL	3,747.00	6,311.11	
ANNUAL MEAN	10.3	17.3	11.4
HIGHEST ANNUAL MEAN			18.8
LOWEST ANNUAL MEAN			3.26
HIGHEST DAILY MEAN	223	487	647
LOWEST DAILY MEAN	0.28	0.28	0.00
ANNUAL SEVEN-DAY MINIMUM	0.30	0.30	0.00
MAXIMUM PEAK FLOW		1,040	1,120
MAXIMUM PEAK STAGE		8.76	8.91
ANNUAL RUNOFF (CFSM)	0.99	1.66	1.09
ANNUAL RUNOFF (INCHES)	13.40	22.57	14.86
10 PERCENT EXCEEDS	26	32	25
50 PERCENT EXCEEDS	3.1	5.2	4.0
90 PERCENT EXCEEDS	0.41	0.64	0.70

e Estimated

03274650 WHITEWATER RIVER NEAR ECONOMY, IN—Continued



GREAT MIAMI RIVER BASIN

03274750 WHITEWATER RIVER NEAR HAGERSTOWN, IN

LOCATION.--Lat 39°52'25", long 85°09'47", in NE¼NE¼ sec.3, T.16 N., R.12 E., Wayne County, Hydrologic Unit 05080003, (CAMBRIDGE CITY, IN quadrangle), on right bank at upstream side of bridge on Jerry Meyers Road, 1.0 mi upstream from Pronghorn Run, 1.5 mi north of Interstate 70, 2.0 mi downstream from Nettle Creek, 2.6 mi south of Hagerstown, and at mile 84.9.

DRAINAGE AREA.--58.7 mi².

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

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

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	17	14	232	e20	e36	66	35	39	28	41	1,500
2	15	17	14	157	e20	e36	62	35	38	27	514	1,290
3	15	17	14	89	e24	e35	59	34	42	26	681	284
4	17	17	14	68	82	e36	58	34	41	29	159	174
5	16	18	14	59	45	152	92	85	38	448	110	130
6	16	19	13	51	38	136	71	62	37	169	89	107
7	15	18	13	47	34	81	77	53	36	695	75	93
8	15	18	13	46	e25	206	79	50	36	296	67	81
9	15	17	12	71	e25	e400	71	69	35	1,650	72	74
10	15	26	12	59	e24	e130	65	473	34	835	75	66
11	15	33	13	46	e22	e100	61	604	34	309	60	61
12	15	26	14	e37	e21	131	57	197	40	211	57	56
13	15	23	14	e34	e20	420	53	123	45	158	60	52
14	15	21	14	e32	e21	223	51	101	112	131	52	49
15	15	20	13	e29	e21	175	49	97	63	119	48	46
16	15	19	13	e28	e19	156	47	83	53	106	46	42
17	15	18	13	e27	e20	128	46	75	49	92	46	40
18	15	17	15	e26	e20	105	45	74	44	85	43	38
19	19	17	58	e25	e19	96	43	67	39	78	40	36
20	17	16	104	e24	e19	101	44	63	38	72	39	35
21	16	16	55	e23	e19	158	43	58	36	169	37	34
22	16	17	41	e22	e56	119	41	54	37	110	35	86
23	16	16	34	e22	e130	89	40	52	36	74	34	70
24	16	16	30	e21	e80	77	39	49	36	62	32	50
25	23	15	30	e21	e58	72	41	47	32	55	31	44
26	21	15	27	e21	e50	104	40	45	33	51	32	43
27	19	15	25	e20	e45	80	37	42	30	49	31	289
28	18	15	24	e21	e39	70	36	42	28	49	30	108
29	20	15	23	e21	---	107	36	42	27	46	33	78
30	19	14	48	e20	---	87	35	41	27	43	80	62
31	18	---	135	e20	---	73	---	46	---	42	53	---
TOTAL	513	548	876	1,419	1,016	3,919	1,584	2,932	1,215	6,314	2,802	5,118
MEAN	16.5	18.3	28.3	45.8	36.3	126	52.8	94.6	40.5	204	90.4	171
MAX	23	33	135	232	130	420	92	604	112	1,650	681	1,500
MIN	15	14	12	20	19	35	35	34	27	26	30	34
CFSM	0.28	0.31	0.48	0.78	0.62	2.15	0.90	1.61	0.69	3.47	1.54	2.91
IN.	0.33	0.35	0.56	0.90	0.64	2.48	1.00	1.86	0.77	4.00	1.78	3.24

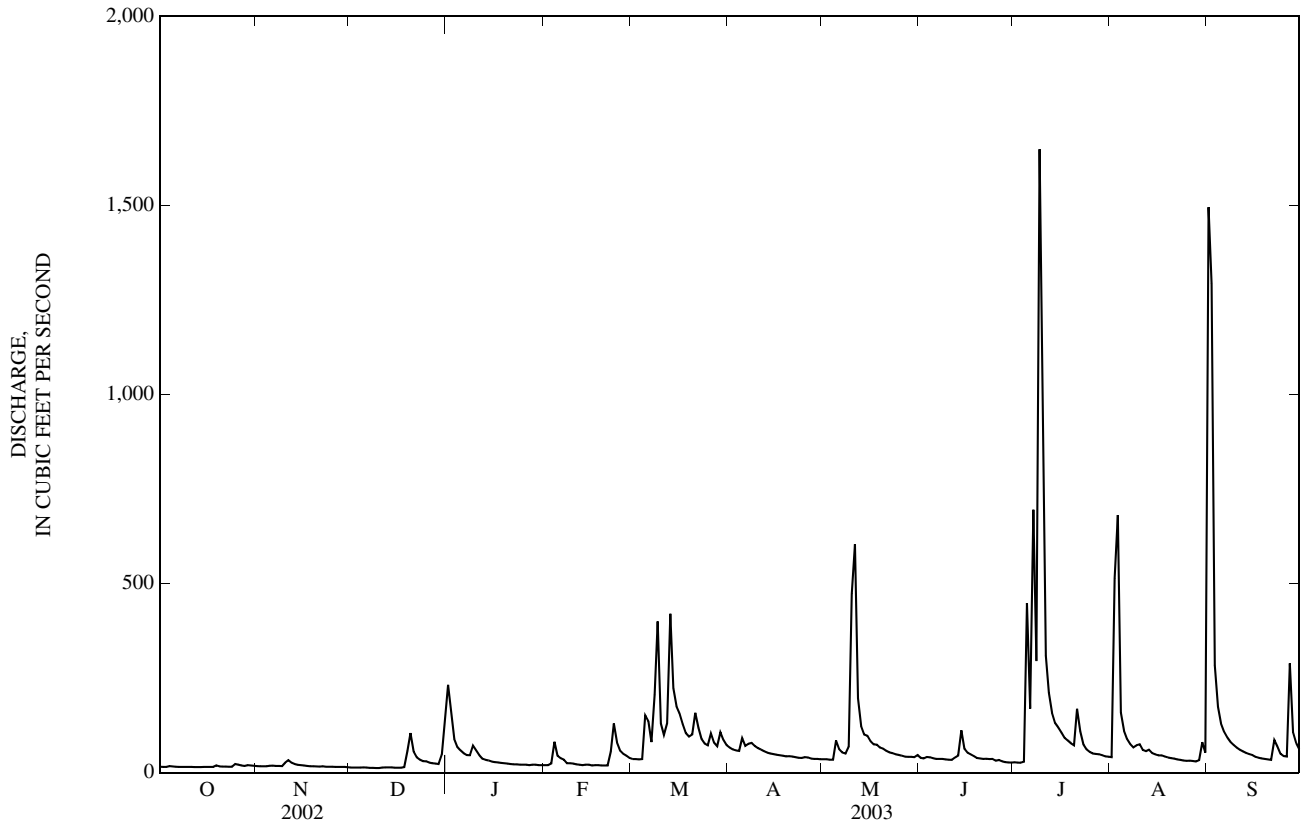
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2003, BY WATER YEAR (WY)

	MEAN	31.8	53.0	70.7	74.5	95.3	110	116	95.9	67.0	56.0	36.2	28.3
MAX	188	235	205	208	233	224	286	420	212	219	312	171	
(WY)	(1987)	(1994)	(1978)	(1996)	(1975)	(1973)	(1996)	(1996)	(1996)	(1979)	(1979)	(2003)	
MIN	6.67	7.26	6.58	8.48	23.0	25.6	28.0	23.0	14.6	8.18	8.56	6.93	
(WY)	(2000)	(2000)	(2000)	(1977)	(1995)	(1981)	(1971)	(1988)	(1977)	(1977)	(1988)	(1999)	

SUMMARY STATISTICS

	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1971 - 2003	
ANNUAL TOTAL	27,593		28,256			
ANNUAL MEAN	75.6		77.4		69.4	
HIGHEST ANNUAL MEAN					121	
LOWEST ANNUAL MEAN					25.4	
HIGHEST DAILY MEAN	2,000	May 13	1,650	Jul 9	2,000	May 13, 2002
LOWEST DAILY MEAN	11	Sep 10	12	Dec 9	3.9	Dec 11, 1999
ANNUAL SEVEN-DAY MINIMUM	11	Sep 8	13	Dec 5	4.3	Nov 28, 1999
MAXIMUM PEAK FLOW			3,020	Sep 1	3,210	Apr 11, 2001
MAXIMUM PEAK STAGE			11.04	Sep 1	11.52	Nov 14, 1993
ANNUAL RUNOFF (CFSM)	1.29		1.32		1.18	
ANNUAL RUNOFF (INCHES)	17.49		17.91		16.07	
10 PERCENT EXCEEDS	160		130		128	
50 PERCENT EXCEEDS	41		40		37	
90 PERCENT EXCEEDS	14		15		14	

e Estimated



GREAT MIAMI RIVER BASIN

03275000 WHITEWATER RIVER NEAR ALPINE, IN

(Former National stream-quality accounting network station)

LOCATION.--Lat 39°34'46", long 85°09'29", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.14, T.13 N., R.12 E., Fayette County, Hydrologic Unit 05080003, (ALPINE, IN quadrangle), on right bank at Nulltown, 400 ft upstream from Wilson Creek, 0.4 mi upstream from bridge on County Road 480 South, 2.0 mi northeast of Alpine, 5.1 mi upstream from Bear Creek, and at mile 54.8.

DRAINAGE AREA.--522 mi².

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

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

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

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	e150	148	143	2,620	219	392	614	263	368	223	365	3,040
2	e140	140	142	2,700	220	392	561	267	334	222	3,030	14,400
3	134	135	139	1,290	236	386	507	265	365	211	3,260	5,170
4	153	137	136	863	434	391	484	263	375	204	1,660	1,880
5	151	142	139	700	481	1,380	688	716	356	1,640	1,260	1,280
6	144	145	136	597	375	2,160	690	851	327	1,830	877	952
7	145	139	133	518	331	1,150	624	585	317	2,990	695	760
8	146	133	134	496	273	1,610	668	518	309	5,410	585	645
9	150	131	132	581	283	4,620	612	531	298	5,830	548	571
10	151	299	131	651	267	2,080	559	2,160	284	9,620	682	513
11	152	479	140	496	249	1,290	515	6,570	332	3,180	525	466
12	150	292	140	397	239	1,130	478	2,740	443	1,870	470	428
13	142	236	142	391	219	1,960	444	1,390	742	1,350	470	399
14	137	208	154	367	231	3,000	408	1,010	1,310	1,030	423	386
15	133	193	154	317	235	1,680	389	1,200	2,070	890	387	388
16	135	184	156	314	213	1,430	376	953	1,690	814	363	354
17	133	175	158	302	210	1,240	366	788	956	690	348	332
18	131	169	170	278	220	1,030	357	714	703	619	335	317
19	138	163	483	278	219	914	340	659	580	560	317	306
20	131	160	1,570	278	215	1,010	335	668	490	507	301	298
21	126	159	911	266	216	1,800	341	660	430	560	289	287
22	119	164	570	248	490	1,710	327	594	388	1,720	280	430
23	118	159	424	236	1,630	1,070	313	534	359	929	270	703
24	118	154	359	223	1,170	875	297	491	332	720	260	539
25	151	153	340	232	697	776	314	459	308	577	254	445
26	180	150	302	230	580	834	323	434	294	496	248	413
27	158	149	274	212	491	804	293	402	288	456	263	2,040
28	146	149	259	231	432	702	281	385	265	531	256	1,500
29	166	147	254	228	---	717	274	398	245	451	252	916
30	171	147	391	223	---	766	265	366	233	407	346	690
31	158	---	1,330	217	---	672	---	390	---	381	514	---
TOTAL	4,457	5,339	10,046	16,980	11,075	39,971	13,043	28,224	15,791	46,918	20,133	40,848
MEAN	144	178	324	548	396	1,289	435	910	526	1,513	649	1,362
MAX	180	479	1,570	2,700	1,630	4,620	690	6,570	2,070	9,620	3,260	14,400
MIN	118	131	131	212	210	386	265	263	233	204	248	287
CFSM	0.28	0.34	0.62	1.05	0.76	2.47	0.83	1.74	1.01	2.90	1.24	2.61
IN.	0.32	0.38	0.72	1.21	0.79	2.85	0.93	2.01	1.13	3.34	1.43	2.91

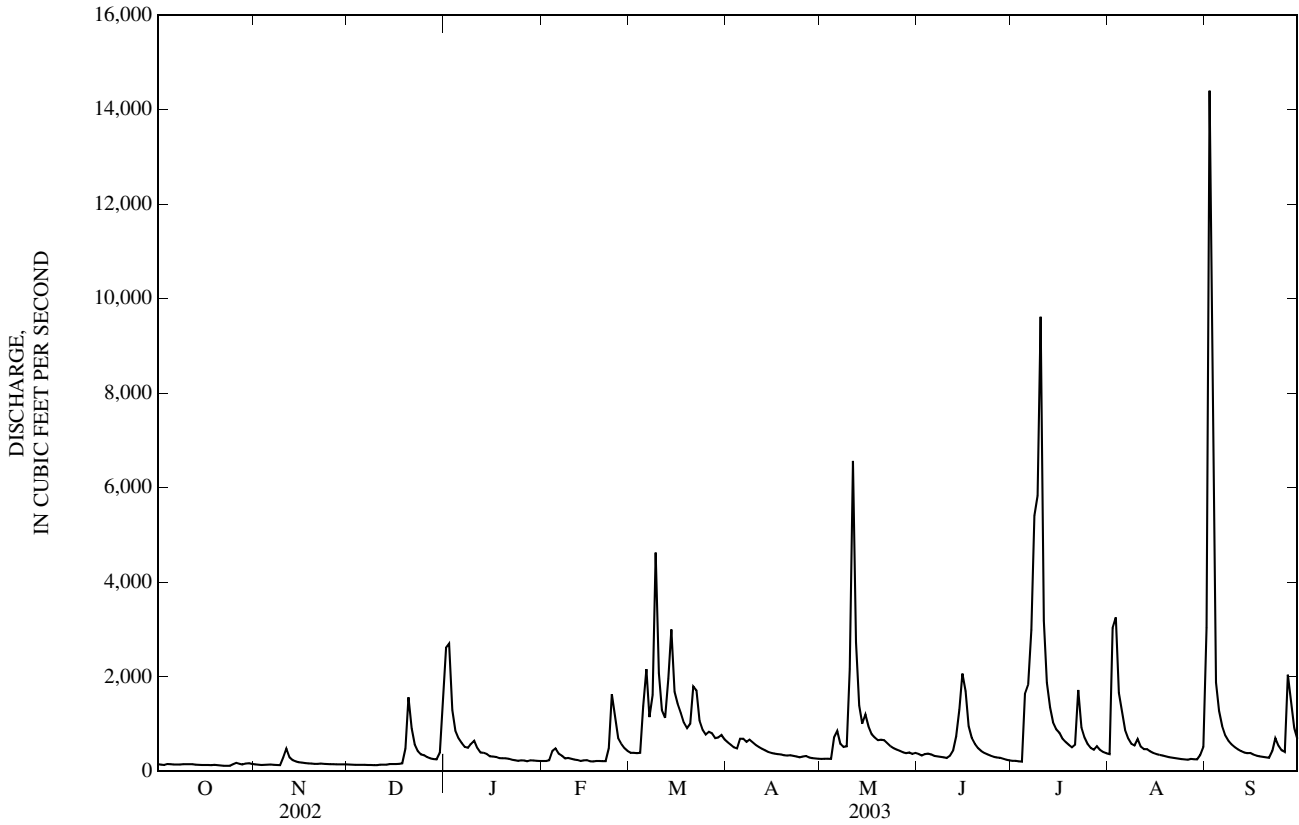
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2003, BY WATER YEAR (WY)

MEAN	202	349	556	810	857	999	1,009	791	552	384	244	191
MAX	1,685	1,978	2,531	4,409	2,639	2,522	2,665	3,763	2,609	1,777	2,342	1,362
(WY)	(1987)	(1994)	(1991)	(1937)	(1950)	(1963)	(2002)	(1996)	(1998)	(1979)	(1979)	(2003)
MIN	47.1	49.8	50.6	58.9	56.9	120	122	70.0	68.9	61.1	61.3	50.3
(WY)	(1935)	(1935)	(1935)	(1935)	(1935)	(1935)	(1941)	(1941)	(1934)	(1934)	(1988)	(1934)

03275000 WHITEWATER RIVER NEAR ALPINE, IN—Continued

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

e Estimated



03275600 EAST FORK WHITEWATER RIVER AT ABINGTON, IN

LOCATION.--Lat 39°43'59", long 84°57'35", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.2, T.12 N., R.2 W., Wayne County, Hydrologic Unit 05080003, (LIBERTY, IN quadrangle), 15 ft downstream of bridge on county road at Abington, 3 mi downstream from Elkhorn Creek, 8 mi southwest of Richmond, and at mile 26.7.

DRAINAGE AREA.--200 mi².

PERIOD OF RECORD.--October 1965 to current year.

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

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

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

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	32	46	41	1,310	80	188	275	95	136	87	136	2,800
2	30	41	40	871	84	197	244	145	113	84	3,650	5,500
3	30	40	38	474	105	195	223	123	160	78	2,390	972
4	48	39	37	339	285	201	215	110	163	75	1,540	536
5	58	46	40	281	209	871	362	396	141	1,020	1,060	354
6	37	64	39	252	167	924	291	279	119	566	537	278
7	32	48	36	224	148	499	322	236	115	4,450	383	234
8	30	43	37	220	115	736	343	218	111	1,760	302	201
9	30	40	35	303	123	1,960	293	443	106	5,400	340	181
10	31	201	36	278	117	767	257	2,080	93	2,730	318	162
11	30	430	44	207	106	489	234	2,030	193	1,090	239	145
12	28	166	48	166	99	472	212	719	297	644	219	133
13	28	113	47	166	85	1,170	191	439	e450	440	213	123
14	26	89	61	155	92	1,080	177	331	e750	340	174	119
15	27	74	63	126	99	667	167	356	e1,400	291	158	141
16	27	70	61	122	82	584	159	283	e1,100	266	148	116
17	29	62	65	129	88	493	154	271	e600	218	160	106
18	29	57	111	116	93	403	147	292	e430	195	136	98
19	41	54	474	116	93	406	139	249	324	179	125	97
20	37	52	829	115	91	584	139	273	251	159	119	94
21	32	51	416	107	94	2,310	150	311	207	539	113	85
22	32	63	264	93	318	1,010	133	244	180	1,540	109	201
23	30	57	199	88	826	583	118	208	162	473	102	192
24	30	53	167	98	490	443	112	185	142	470	94	148
25	97	51	165	83	303	382	119	168	128	298	88	123
26	120	50	137	85	259	415	130	153	131	226	85	111
27	58	47	116	79	223	357	108	139	136	197	114	825
28	46	45	109	87	203	314	100	140	112	208	102	453
29	86	45	106	86	---	377	94	153	101	179	124	284
30	84	45	312	81	---	347	92	128	91	156	275	216
31	55	---	947	78	---	301	---	176	---	143	235	---
TOTAL	1,330	2,282	5,120	6,935	5,077	19,725	5,700	11,373	8,442	24,501	13,788	15,028
MEAN	42.9	76.1	165	224	181	636	190	367	281	790	445	501
MAX	120	430	947	1,310	826	2,310	362	2,080	1,400	5,400	3,650	5,500
MIN	26	39	35	78	80	188	92	95	91	75	85	85
CFSM	0.21	0.38	0.83	1.12	0.91	3.18	0.95	1.83	1.41	3.95	2.22	2.50
IN.	0.25	0.42	0.95	1.29	0.94	3.67	1.06	2.12	1.57	4.56	2.56	2.80

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2003, BY WATER YEAR (WY)

MEAN	85.8	163	274	268	310	371	397	348	205	175	112	68.3
MAX	615	732	929	708	901	884	1,052	1,049	789	790	773	501
(WY)	(1987)	(1994)	(1991)	(1969)	(1975)	(1978)	(2002)	(1968)	(1998)	(2003)	(1979)	(2003)
MIN	18.8	25.5	26.5	21.3	83.8	111	88.7	55.9	24.6	22.9	18.6	12.9
(WY)	(2000)	(2000)	(1977)	(1977)	(1992)	(1992)	(1976)	(1976)	(1988)	(1988)	(1988)	(1999)

SUMMARY STATISTICS

FOR 2002 CALENDAR YEAR

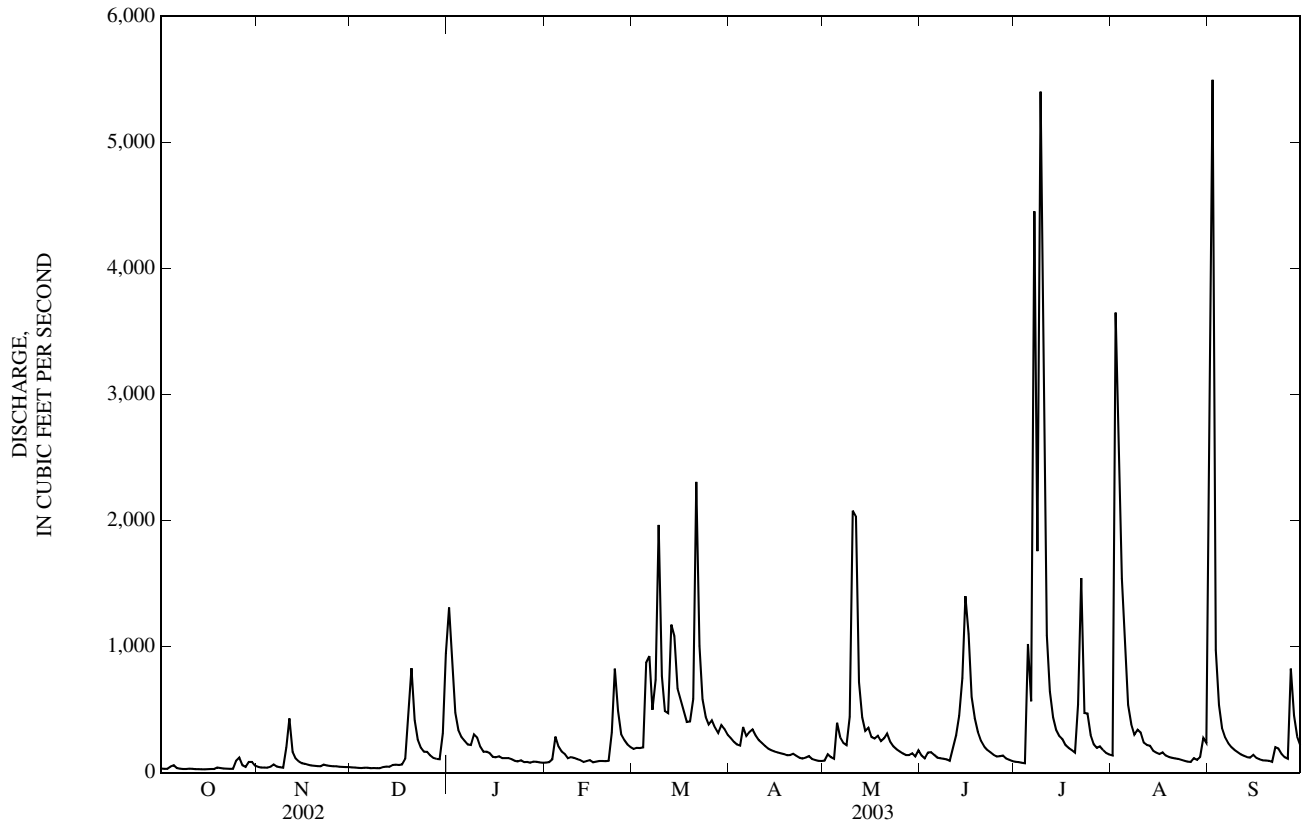
FOR 2003 WATER YEAR

WATER YEARS 1966 - 2003

ANNUAL TOTAL	106,519	119,301	
ANNUAL MEAN	292	327	231
HIGHEST ANNUAL MEAN			388
LOWEST ANNUAL MEAN			92.3
HIGHEST DAILY MEAN	6,880	5,500	10,100
LOWEST DAILY MEAN	14	26	10
ANNUAL SEVEN-DAY MINIMUM	16	28	11
MAXIMUM PEAK FLOW		11,100	20,000
MAXIMUM PEAK STAGE		13.96	16.18
ANNUAL RUNOFF (CFSM)	1.46	1.63	1.16
ANNUAL RUNOFF (INCHES)	19.81	22.19	15.70
10 PERCENT EXCEEDS	606	653	455
50 PERCENT EXCEEDS	127	150	115
90 PERCENT EXCEEDS	28	42	33

e Estimated

03275600 EAST FORK WHITEWATER RIVER AT ABINGTON, IN—Continued



03276000 EAST FORK WHITEWATER RIVER AT BROOKVILLE, IN

LOCATION.--Lat 39°26'02", long 85°00'12", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.20, T.9 N., R.2 W., Franklin County, Hydrologic Unit 05080003, (BROOKVILLE, IN quadrangle), on right bank 100 ft upstream from bridge on State Highway 101, at Brookville, 0.4 mi downstream from Brookville Lake, and 1.8 mi upstream from mouth.

DRAINAGE AREA.--380 mi².

PERIOD OF RECORD.--March 1954 to September 1981 (discharge). October 1981 to September 2001 (discharge provided by U.S. Army Corps of Engineers). October 2001 to current year (stage only).

REVISED RECORDS.--WSP 1555: 1954(M), 1955(P). WSP 1908: 1955, drainage area.

GAGE.--Water-stage recorder. Datum of gage is 621.76 ft above National Geodetic Vertical Datum of 1929. Prior to May 22, 1954, nonrecording gage site 100 ft downstream at datum 2.00 ft higher. May 22, 1954 to Aug. 20, 1965, water-stage recorder at site 165 ft downstream at datum 2.00 ft higher. Aug. 21, 1965 to Sept. 30, 1981, water-stage recorder at same site and datum. Data Collection Platform with water temperature probe since Nov. 5, 1986.

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

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

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

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

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

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

03276000 EAST FORK WHITEWATER RIVER AT BROOKVILLE, IN—Continued

WATER-QUALITY RECORDS

INSTRUMENTATION.--Temperature recorder.

PERIOD OF RECORD.--

WATER TEMPERATURE.--September 1987 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

EXTREMES FOR CURRENT YEAR.--

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

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.7	17.9	18.4	13.7	13.3	13.4	8.6	5.6	6.4	3.9	3.9	3.9
2	19.1	18.3	18.6	13.3	13.2	13.3	9.6	5.6	7.1	3.9	3.9	3.9
3	19.1	18.3	18.6	13.2	13.1	13.2	7.7	4.7	6.2	3.9	3.9	3.9
4	18.7	16.4	17.9	13.1	12.6	12.9	6.7	4.7	6.2	4.0	3.9	4.0
5	20.7	18.3	19.4	12.6	12.2	12.5	7.7	4.7	5.8	4.0	4.0	4.0
6	19.1	17.5	18.5	---	---	---	6.7	5.7	6.3	4.0	4.0	4.0
7	20.7	17.5	19.4	12.5	11.4	12.4	6.7	6.7	6.7	4.0	3.0	3.9
8	19.2	18.4	18.8	11.4	11.4	11.4	6.7	5.7	6.1	4.0	3.0	3.0
9	19.2	18.4	18.9	11.4	11.4	11.4	5.7	5.7	5.7	4.0	3.0	4.0
10	19.2	18.8	19.0	11.4	11.4	11.4	5.7	5.7	5.7	4.0	3.0	3.4
11	20.0	18.8	19.4	11.5	11.4	11.4	5.7	5.7	5.7	3.0	3.0	3.0
12	19.2	18.8	18.8	11.5	11.5	11.5	5.7	5.7	5.7	3.0	3.0	3.0
13	20.0	18.8	19.4	11.5	11.5	11.5	5.8	5.7	5.7	3.0	3.0	3.0
14	19.2	18.0	18.8	11.5	11.5	11.5	5.8	5.8	5.8	3.1	3.0	3.0
15	18.8	18.0	18.4	11.5	11.5	11.5	5.8	4.8	5.4	3.1	3.1	3.1
16	18.4	18.4	18.4	11.5	10.5	11.0	5.8	4.8	5.0	3.1	2.1	2.9
17	18.4	16.8	17.9	10.5	10.5	10.5	4.8	4.8	4.8	3.1	2.1	2.7
18	18.1	16.9	17.5	10.5	8.5	9.9	4.8	4.8	4.8	3.1	3.1	3.1
19	17.3	16.9	17.1	11.5	7.5	9.4	4.8	4.8	4.8	3.1	3.1	3.1
20	17.3	17.3	17.3	11.5	7.5	8.9	4.8	4.8	4.8	3.1	3.1	3.1
21	17.3	16.9	17.1	10.5	7.5	8.6	4.8	4.8	4.8	3.1	2.1	2.5
22	17.3	16.9	16.9	8.6	6.5	7.6	4.8	4.8	4.8	2.1	2.1	2.1
23	17.2	16.8	17.0	8.6	6.6	7.8	4.8	4.8	4.8	2.1	2.1	2.1
24	16.8	16.4	16.7	10.6	6.6	8.1	4.9	4.8	4.8	2.1	2.1	2.1
25	16.4	15.9	16.3	8.6	6.6	7.6	4.9	4.9	4.9	2.2	2.1	2.1
26	15.9	15.8	15.8	7.6	6.6	6.8	4.9	4.9	4.9	2.2	2.2	2.2
27	15.8	15.7	15.7	8.6	6.6	7.2	4.9	3.9	4.5	2.2	2.2	2.2
28	15.7	15.6	15.6	7.6	6.6	6.9	3.9	3.9	3.9	2.2	2.2	2.2
29	15.6	14.7	14.9	9.6	6.6	7.6	3.9	3.9	3.9	2.2	2.2	2.2
30	14.7	13.5	14.0	7.6	6.6	7.2	3.9	3.9	3.9	2.2	2.2	2.2
31	13.5	13.4	13.5	---	---	---	3.9	3.9	3.9	2.2	2.2	2.2
MONTH	20.7	13.4	17.5	---	---	---	9.6	3.9	5.3	4.0	2.1	3.0

03276500 WHITEWATER RIVER AT BROOKVILLE, IN

(Former National stream-quality accounting network station)

LOCATION.--Lat 39°24'24", long 85°00'46", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.32, T.9 N., R.2 W., Franklin County, Hydrologic Unit 05080003, (BROOKVILLE, IN quadrangle), on right bank at downstream side of highway bridge, 0.3 mi downstream from East Fork Whitewater River, 1.1 mi south of Brookville, and at mile 29.3.

DRAINAGE AREA.--1,224 mi².

PERIOD OF RECORD.--June 1915 to September 1917, October 1917 to May 1920 (gage heights only), and July 1923 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 1335: 1915-17, 1929, 1930(M), 1933(M), 1934, 1935(m), 1936. WSP 1505: 1916(M). WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 595.71 ft above National Geodetic Vertical Datum of 1929. Prior to July 1923, nonrecording gage at same site at datum 1.5 ft higher. July 1923 to Sept. 27, 1928, nonrecording gage at same site and datum.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 25, 1913, reached a stage of 39.0 ft, at present datum, from floodmarks (discharge not determined).

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	196	636	183	5,620	440	1,880	1,670	610	735	528	848	1,100
2	185	617	178	4,730	445	2,220	1,550	600	712	523	1,380	8,760
3	181	605	197	3,950	543	2,110	1,440	591	835	512	3,990	7,930
4	182	596	198	3,740	1,370	2,070	1,370	572	845	526	3,190	3,720
5	186	600	171	3,440	1,010	4,130	1,800	5,370	788	2,040	4,210	4,500
6	179	962	295	3,290	807	4,380	1,630	2,640	763	3,100	4,150	4,370
7	174	2,290	407	2,910	785	3,360	1,610	1,690	676	3,420	2,360	2,610
8	172	2,550	409	2,220	690	3,490	1,620	1,330	627	6,240	1,150	1,850
9	171	1,410	405	1,900	702	5,880	1,460	1,150	795	5,040	982	1,470
10	170	1,810	402	1,720	685	4,070	1,310	2,780	852	8,330	945	1,020
11	170	3,940	413	1,300	633	3,250	1,100	6,160	858	5,700	857	826
12	168	2,750	466	982	628	2,910	955	4,190	1,280	5,950	731	773
13	167	2,660	488	820	587	3,340	878	2,750	2,780	6,190	701	656
14	165	2,570	685	788	590	4,730	821	2,310	4,590	5,920	670	587
15	165	2,520	632	695	721	3,610	788	2,740	5,220	5,730	774	583
16	165	2,000	577	670	709	3,240	761	3,240	4,420	3,780	836	557
17	160	1,110	547	651	643	3,320	758	3,250	3,670	1,440	804	533
18	161	443	588	617	628	3,290	862	3,190	3,770	1,050	676	514
19	171	238	1,820	605	623	3,140	755	3,050	4,170	1,050	506	502
20	170	226	3,880	605	682	2,860	747	2,750	4,140	1,010	486	486
21	168	218	2,250	587	765	4,200	1,120	2,520	2,990	1,270	451	476
22	248	229	1,610	559	2,990	4,000	846	2,160	2,880	2,230	377	665
23	342	232	1,660	529	4,330	3,210	747	1,990	2,980	1,850	333	1,080
24	288	219	1,800	496	2,690	2,840	687	1,580	1,450	1,480	331	992
25	303	209	1,770	429	1,860	2,580	684	1,250	773	1,580	342	689
26	473	204	1,660	404	1,510	2,910	958	1,040	685	1,410	334	585
27	407	198	1,570	437	1,410	2,670	778	878	650	1,210	327	2,020
28	410	192	1,520	447	1,710	2,420	688	791	605	1,350	344	2,650
29	451	189	1,290	453	---	2,540	656	798	567	1,320	369	2,040
30	730	187	2,300	448	---	2,430	633	749	541	1,030	541	1,780
31	689	---	2,910	441	---	1,920	---	760	---	717	781	---
TOTAL	7,967	32,610	33,281	46,483	31,186	99,000	31,682	65,479	56,647	83,526	34,776	56,324
MEAN	257	1,087	1,074	1,499	1,114	3,194	1,056	2,112	1,888	2,694	1,122	1,877
MAX	730	3,940	3,880	5,620	4,330	5,880	1,800	6,160	5,220	8,330	4,210	8,760
MIN	160	187	171	404	440	1,880	633	572	541	512	327	476
CFSM	0.21	0.89	0.88	1.23	0.91	2.61	0.86	1.73	1.54	2.20	0.92	1.53
IN.	0.24	0.99	1.01	1.41	0.95	3.01	0.96	1.99	1.72	2.54	1.06	1.71

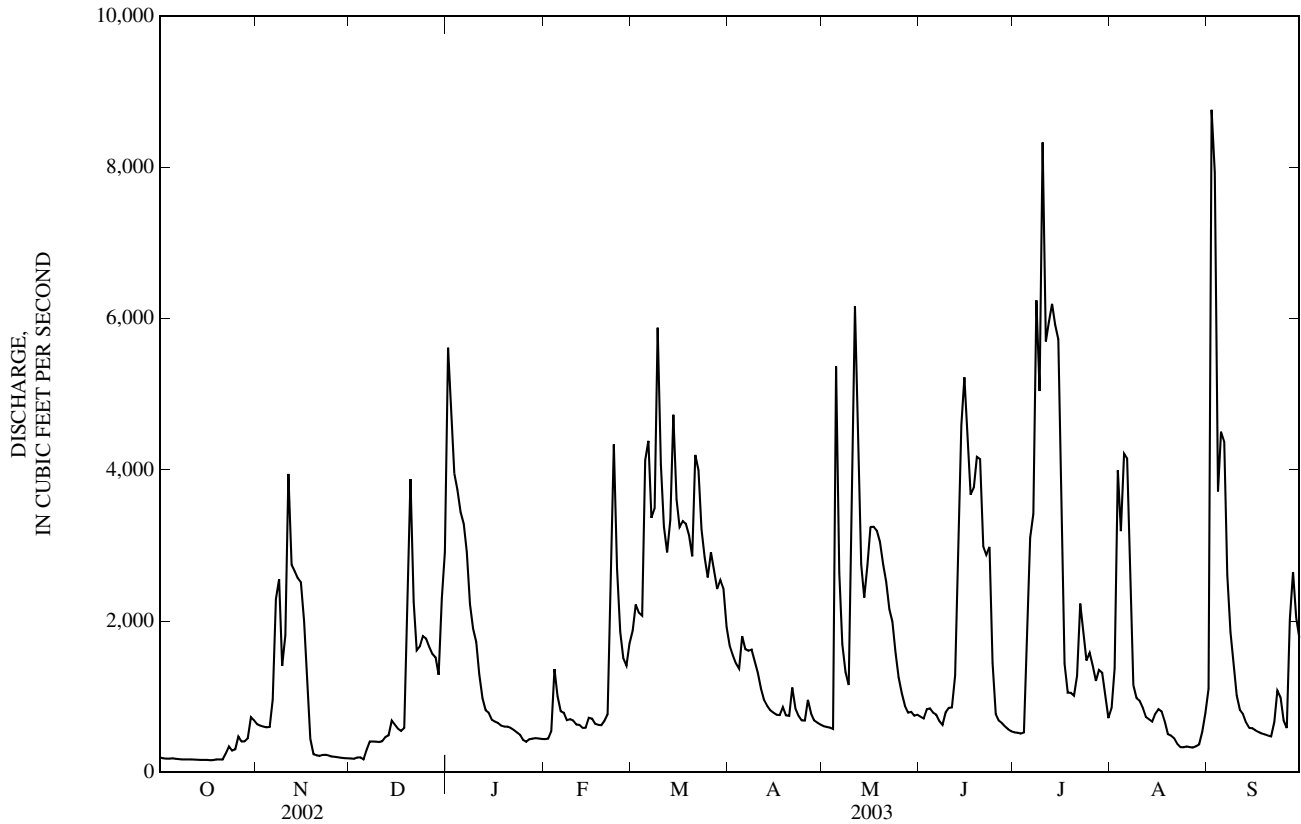
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 2003, BY WATER YEAR (WY)

MEAN	500	922	1,314	1,924	1,986	2,257	2,179	1,794	1,267	790	504	423
MAX	2,796	4,160	5,468	9,401	6,290	5,909	5,146	8,618	5,273	3,390	4,271	4,239
(WY)	(1927)	(1994)	(1991)	(1937)	(1950)	(1963)	(2002)	(1996)	(1998)	(1958)	(1979)	(1926)
MIN	95.5	98.1	95.1	102	122	294	275	186	161	138	102	85.7
(WY)	(1935)	(1935)	(1935)	(1977)	(1935)	(1941)	(1941)	(1941)	(1934)	(1934)	(1930)	(1999)

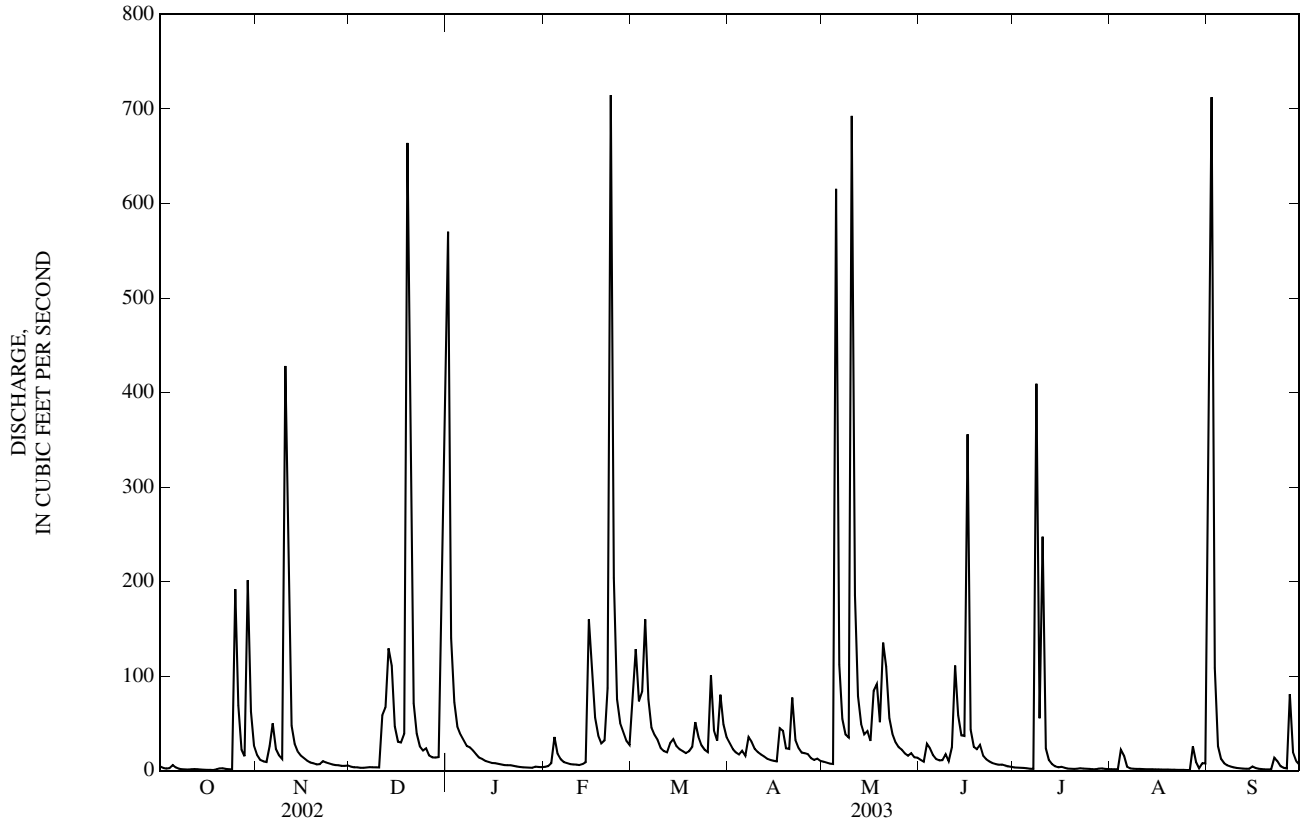
GREAT MIAMI RIVER BASIN

03276500 WHITEWATER RIVER AT BROOKVILLE, IN—Continued

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



03291780 INDIAN-KENTUCK CREEK NEAR CANAAN, IN—Continued



03294000 SILVER CREEK NEAR SELLERSBURG, IN

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

DRAINAGE AREA.--189 mi².

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

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

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	104	44	4,000	38	471	175	274	80	13	4.3	186
2	70	77	40	2,700	42	537	149	226	69	18	17	1,430
3	60	63	40	755	52	411	132	191	127	15	13	1,270
4	59	60	36	468	319	314	120	162	167	11	34	391
5	115	96	38	354	179	312	254	3,260	105	8.9	127	169
6	74	422	38	290	133	330	207	3,260	79	8.8	50	104
7	51	196	38	238	116	259	323	1,110	70	8.1	38	74
8	43	133	43	219	80	217	345	755	63	5.9	24	57
9	43	105	51	195	80	194	238	672	70	4.9	18	44
10	42	967	53	161	79	166	202	941	59	58	29	35
11	110	1,530	194	131	76	150	171	743	70	119	35	30
12	112	476	323	105	75	147	145	441	130	41	32	26
13	72	282	253	98	62	175	122	293	135	22	20	20
14	48	213	617	90	78	232	108	231	92	17	14	25
15	40	178	334	74	1,340	182	105	377	73	13	9.9	30
16	35	163	230	71	927	159	91	472	66	17	7.2	24
17	28	134	207	60	432	144	1,030	709	56	23	5.2	17
18	23	113	521	53	292	134	1,890	1,480	48	16	3.6	13
19	22	102	1,840	51	237	399	536	604	42	14	2.8	11
20	22	91	3,610	49	331	745	338	455	37	9.3	2.5	8.9
21	22	84	899	45	873	592	402	711	31	11	2.4	7.7
22	20	86	471	38	2,660	437	282	408	27	24	2.7	141
23	19	80	324	32	3,110	299	216	283	24	25	3.5	181
24	29	71	259	27	924	235	184	217	23	21	4.8	80
25	25	65	394	26	526	200	409	194	18	14	4.9	43
26	174	61	279	28	393	256	2,850	235	16	12	4.8	29
27	98	64	217	23	333	231	967	182	21	9.1	5.4	250
28	70	51	193	23	333	190	457	155	22	6.3	292	172
29	144	49	177	33	---	272	503	143	16	7.3	59	81
30	267	51	413	45	---	281	386	117	14	7.4	426	58
31	147	---	1,080	39	---	207	---	97	---	6.4	143	---
TOTAL	2,176	6,167	13,256	10,521	14,120	8,878	13,337	19,398	1,850	586.4	1,435.0	5,007.6
MEAN	70.2	206	428	339	504	286	445	626	61.7	18.9	46.3	167
MAX	267	1,530	3,610	4,000	3,110	745	2,850	3,260	167	119	426	1,430
MIN	19	49	36	23	38	134	91	97	14	4.9	2.4	7.7
CFSM	0.37	1.09	2.26	1.80	2.67	1.52	2.35	3.31	0.33	0.10	0.24	0.88
IN.	0.43	1.21	2.61	2.07	2.78	1.75	2.63	3.82	0.36	0.12	0.28	0.99

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2003, BY WATER YEAR (WY)

	MEAN	37.3	119	259	307	414	513	395	328	161	68.7	46.4	40.2
MAX	384	805	862	1,150	1,323	2,252	1,117	1,369	1,337	316	514	390	
(WY)	(2002)	(1980)	(1979)	(1959)	(1956)	(1964)	(1970)	(1983)	(1960)	(1973)	(1978)	(1979)	
MIN	0.21	0.61	0.60	5.43	32.0	112	68.7	25.4	3.07	2.75	0.53	0.12	
(WY)	(1965)	(1964)	(1964)	(1977)	(1992)	(1981)	(2001)	(1988)	(1988)	(1959)	(1999)	(1999)	

SUMMARY STATISTICS

FOR 2002 CALENDAR YEAR

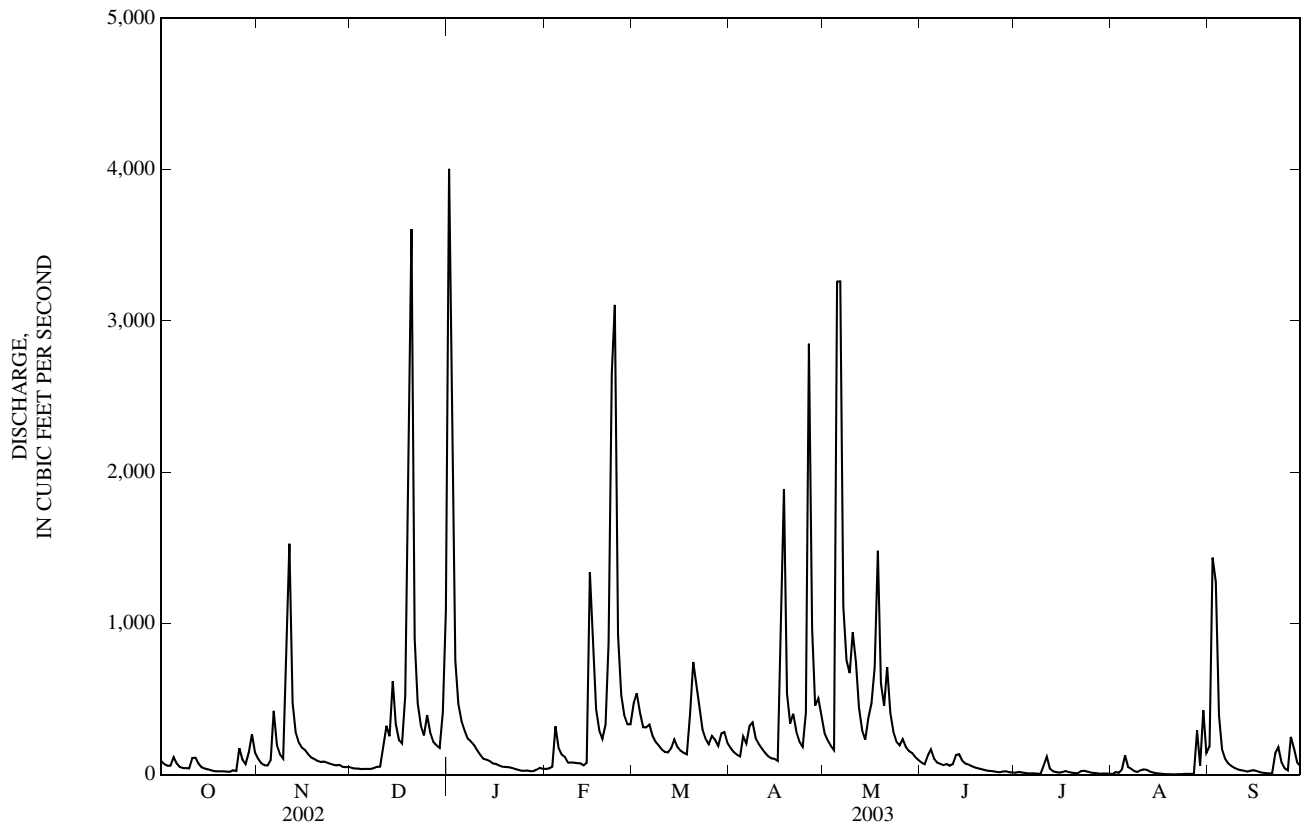
FOR 2003 WATER YEAR

WATER YEARS 1955 - 2003

ANNUAL TOTAL	109,160.20	96,732.0	
ANNUAL MEAN	299	265	223
HIGHEST ANNUAL MEAN			423
LOWEST ANNUAL MEAN			92.8
HIGHEST DAILY MEAN	5,070	May 14	4,000
LOWEST DAILY MEAN	0.28	Sep 12	2.4
ANNUAL SEVEN-DAY MINIMUM	0.35	Sep 8	3.2
MAXIMUM PEAK FLOW			4,630
MAXIMUM PEAK STAGE			18.76
ANNUAL RUNOFF (CFSM)	1.58		1.40
ANNUAL RUNOFF (INCHES)	21.49		19.04
10 PERCENT EXCEEDS	637		536
50 PERCENT EXCEEDS	106		102
90 PERCENT EXCEEDS	4.5		14

SILVER CREEK BASIN

03294000 SILVER CREEK NEAR SELLERSBURG, IN—Continued



03302220 BUCK CREEK NEAR NEW MIDDLETOWN, IN

LOCATION.--Lat 38°07'13", long 86°05'16", in SE¼NE¼ sec.32, T.4 S., R.4 E., Harrison County, Hydrologic Unit 05140104, (LACONIA, IN. quadrangle), on right bank at downstream side of bridge on State Highway 337 (revised), 0.6 mi downstream from South Fork Buck Creek, 3.6 mi southwest of New Middletown, and 14.6 mi upstream from mouth.

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

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

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

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	28	29	974	24	89	52	76	29	13	20	68
2	26	24	29	425	25	85	48	68	26	13	58	483
3	23	24	28	263	26	74	44	57	32	13	38	216
4	23	24	28	134	80	68	42	51	29	11	32	108
5	33	74	30	115	55	65	44	798	24	11	29	72
6	27	112	27	95	45	62	40	363	22	11	40	54
7	27	66	27	83	42	58	80	192	22	12	53	44
8	21	51	28	79	39	78	81	166	21	11	34	38
9	17	42	28	72	37	91	102	396	19	20	30	32
10	22	473	29	61	37	42	144	221	17	47	45	28
11	103	547	75	52	35	40	113	325	47	32	37	25
12	65	213	87	47	33	41	89	182	102	18	30	25
13	46	143	114	44	32	40	70	126	73	12	26	26
14	35	115	156	42	35	38	59	98	58	9.9	24	32
15	29	103	114	39	512	37	52	94	61	9.2	23	37
16	25	84	91	36	394	37	47	82	69	19	23	28
17	21	57	144	34	192	36	213	152	51	12	24	27
18	18	51	183	31	125	37	214	131	43	9.4	25	36
19	18	48	1,370	33	101	106	123	100	38	9.0	25	38
20	19	44	816	31	149	135	152	84	32	8.1	26	39
21	17	44	336	29	336	110	586	75	27	12	26	39
22	15	42	159	27	1,140	92	235	66	23	16	28	134
23	13	39	118	24	593	78	131	59	20	17	32	88
24	13	37	130	e21	302	67	104	53	18	12	28	62
25	14	35	225	e20	198	61	480	52	16	11	27	52
26	16	34	143	e19	144	55	576	52	17	10	26	45
27	15	33	118	e18	100	50	241	45	22	9.5	27	400
28	16	32	103	22	92	46	141	41	15	12	28	145
29	31	32	90	26	---	61	109	39	13	11	30	81
30	45	32	233	23	---	61	87	35	12	14	58	58
31	35	---	515	22	---	55	---	33	---	18	45	---
TOTAL	859	2,683	5,603	2,941	4,923	1,995	4,499	4,312	998	443.1	997	2,560
MEAN	27.7	89.4	181	94.9	176	64.4	150	139	33.3	14.3	32.2	85.3
MAX	103	547	1,370	974	1,140	135	586	798	102	47	58	483
MIN	13	24	27	18	24	36	40	33	12	8.1	20	25
CFSM	0.75	2.41	4.87	2.56	4.74	1.73	4.04	3.75	0.90	4.39	0.87	2.30
IN.	0.86	2.69	5.62	2.95	4.94	2.00	4.51	4.32	1.00	0.44	1.00	2.57

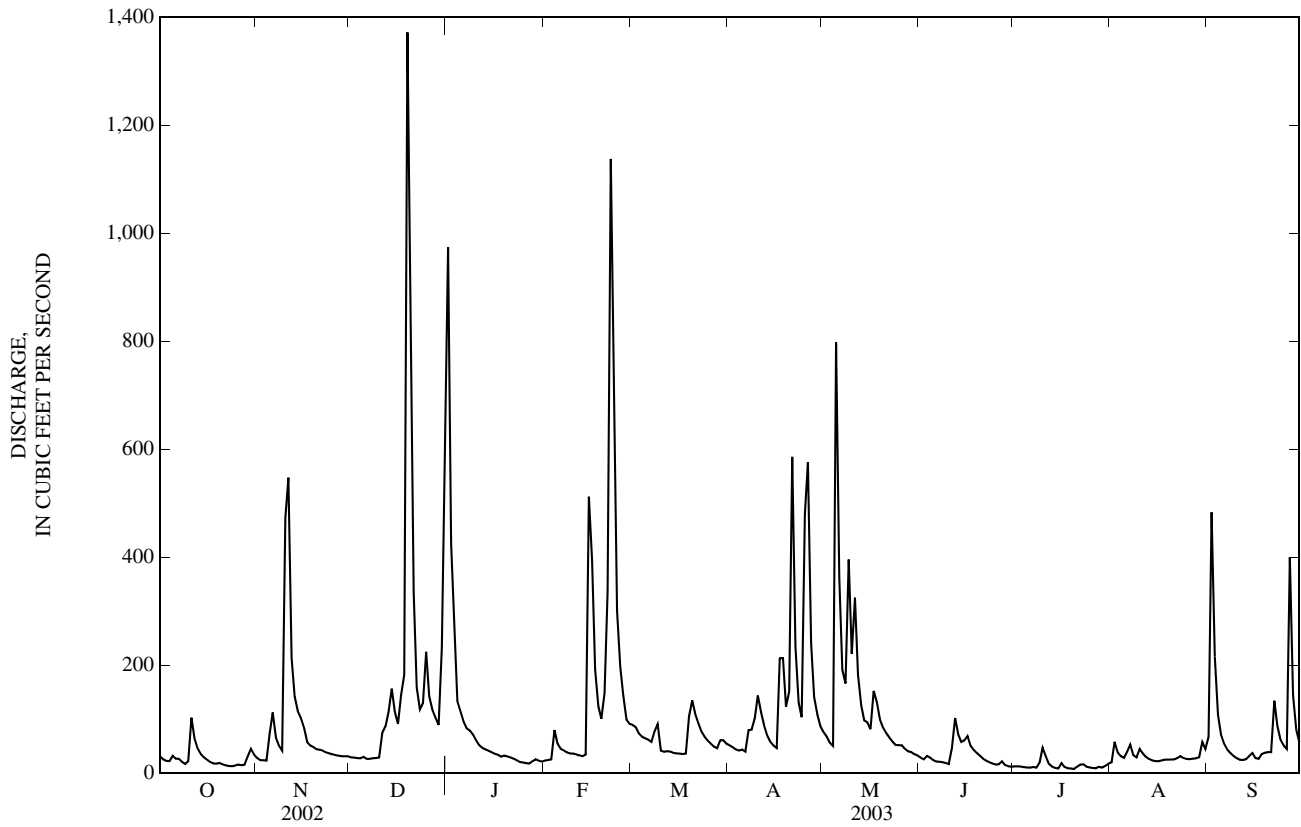
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2003, BY WATER YEAR (WY)

MEAN	17.6	52.8	100	109	134	157	138	107	59.5	27.6	16.1	19.2
MAX	71.8	228	262	280	368	708	412	558	311	219	67.2	217
(WY)	(1971)	(1980)	(1991)	(1999)	(1989)	(1997)	(1970)	(1983)	(1997)	(1979)	(1992)	(1979)
MIN	0.76	3.16	6.01	2.64	24.8	40.4	21.9	16.3	1.56	4.59	1.45	0.72
(WY)	(1988)	(1988)	(1977)	(1977)	(1992)	(1983)	(2001)	(1976)	(1988)	(1975)	(1999)	(1987)

03302220 BUCK CREEK NEAR NEW MIDDLETOWN, IN—Continued

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

e Estimated



03302300 LITTLE INDIAN CREEK NEAR GALENA, IN

LOCATION.--Lat 38°19'19", long 85°55'53", in NE¼SW¼ sec.23, T.2 S., R.5 E., Floyd County, Hydrologic Unit 05140104, (GEORGETOWN, IN. quadrangle), on right bank approximately 500 ft upstream of county road bridge, on abandoned county road embankment, 2.0 mi south of Galena, 3.6 mi upstream from mouth, and 7.0 mi northwest of New Albany.

DRAINAGE AREA.--16.1 mi².

PERIOD OF RECORD.--October 1968 to October 2003 (discontinued).

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	5.4	3.7	457	5.7	36	16	17	7.3	2.6	1.2	22
2	2.2	4.5	3.7	98	5.6	38	14	15	6.2	2.3	13	94
3	1.8	5.2	4.3	55	9.5	29	12	12	16	2.1	3.8	30
4	10	5.1	3.2	34	62	25	12	11	10	1.8	6.0	17
5	12	29	3.9	28	21	26	21	495	7.8	1.7	7.7	9.3
6	4.4	27	3.9	21	14	33	15	102	6.2	1.5	6.8	6.5
7	2.9	14	3.7	17	12	26	32	99	6.0	1.3	4.8	5.1
8	2.2	9.9	4.6	15	9.7	22	25	58	6.3	1.2	3.1	4.4
9	1.9	8.1	5.4	13	9.0	19	24	63	5.5	1.3	3.1	3.7
10	2.8	241	5.2	11	9.2	19	21	181	4.7	32	3.6	3.2
11	24	114	29	e8.2	8.4	15	17	158	16	6.1	2.7	2.8
12	9.1	38	32	e7.0	7.6	15	15	51	21	3.6	2.2	2.5
13	5.4	22	43	e6.2	6.8	15	13	30	13	2.7	1.9	2.2
14	3.9	16	51	e5.4	14	14	12	21	9.4	2.3	1.7	2.9
15	3.0	15	29	e4.7	169	13	10	26	7.6	2.1	1.6	3.1
16	2.6	13	21	e4.0	78	12	8.9	21	205	2.4	1.6	2.4
17	2.2	11	42	e3.5	38	12	240	132	155	1.8	3.4	2.1
18	2.0	9.0	47	e3.1	24	12	94	121	26	1.5	4.6	2.0
19	1.9	8.3	639	e2.8	22	83	43	47	15	1.4	2.2	1.9
20	2.1	7.5	186	e2.6	40	61	35	43	12	1.3	1.8	1.8
21	1.9	7.6	63	e2.4	120	62	47	43	8.6	3.0	1.5	1.7
22	1.8	8.0	39	e2.3	578	40	28	29	6.7	2.5	2.9	28
23	1.5	6.8	26	e2.2	144	29	21	21	5.6	2.2	2.3	11
24	1.4	6.2	28	e2.1	68	23	17	16	4.8	1.7	1.4	5.9
25	3.8	5.9	39	e2.0	42	19	247	23	4.2	1.4	1.1	4.4
26	5.7	5.4	24	e1.9	32	20	240	24	4.0	1.2	1.1	3.6
27	3.3	5.3	19	e1.8	28	16	68	17	5.2	1.1	1.1	61
28	4.7	4.9	16	e1.8	29	15	37	14	3.8	1.7	4.3	14
29	13	4.8	14	e2.9	---	29	28	12	3.2	3.3	2.2	8.5
30	11	4.1	54	e6.6	---	22	20	10	2.8	2.0	18	6.3
31	7.3	---	224	5.3	---	18	---	8.6	---	1.5	6.8	---
TOTAL	154.7	662.0	1,706.6	827.8	1,606.5	818	1,432.9	1,920.6	604.9	94.6	119.5	363.3
MEAN	4.99	22.1	55.1	26.7	57.4	26.4	47.8	62.0	20.2	3.05	3.85	12.1
MAX	24	241	639	457	578	83	247	495	205	32	18	94
MIN	1.4	4.1	3.2	1.8	5.6	12	8.9	8.6	2.8	1.1	1.1	1.7
CFSM	0.31	1.37	3.42	1.66	3.56	1.64	2.97	3.85	1.25	0.19	0.24	0.75
IN.	0.36	1.53	3.94	1.91	3.71	1.89	3.31	4.44	1.40	0.22	0.28	0.84

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2003, BY WATER YEAR (WY)

MEAN	4.84	14.1	31.0	32.9	40.9	46.7	42.3	28.9	16.2	7.35	5.08	4.74
MAX	42.2	70.6	103	88.6	111	185	120	116	93.6	50.7	30.5	62.1
(WY)	(1978)	(1980)	(1991)	(1999)	(1990)	(1997)	(1970)	(1983)	(1997)	(1979)	(1978)	(1979)
MIN	0.000	0.25	1.80	0.46	2.91	10.9	6.41	1.48	0.002	0.088	0.027	0.000
(WY)	(1988)	(1992)	(1981)	(1977)	(1992)	(1976)	(2001)	(1988)	(1988)	(1991)	(1999)	(1987)

SUMMARY STATISTICS

FOR 2002 CALENDAR YEAR

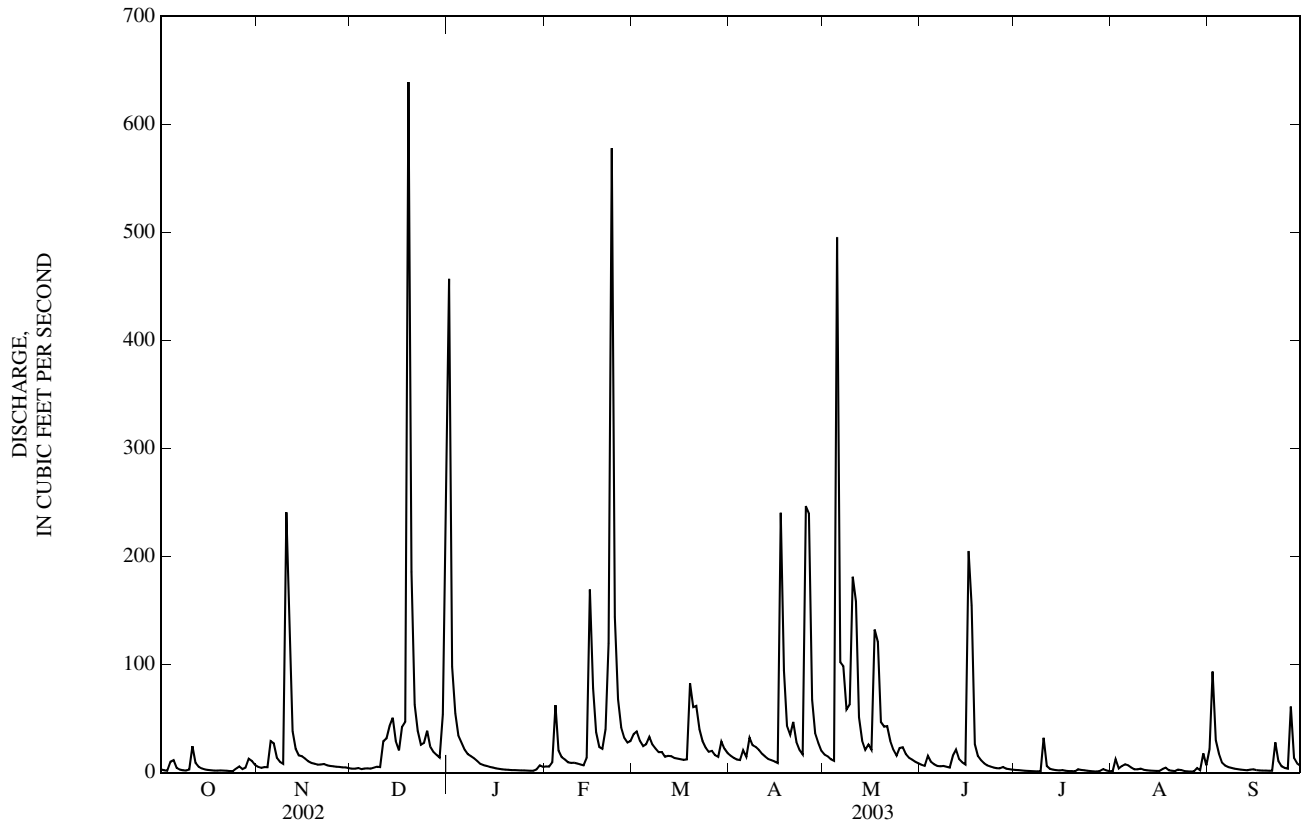
FOR 2003 WATER YEAR

WATER YEARS 1969 - 2003

ANNUAL TOTAL	11,682.64	10,311.4	
ANNUAL MEAN	32.0	28.3	22.8
HIGHEST ANNUAL MEAN			45.0
LOWEST ANNUAL MEAN			8.23
HIGHEST DAILY MEAN	681	May 13	639
LOWEST DAILY MEAN	0.00	Aug 8	1.1
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 25	1.6
MAXIMUM PEAK FLOW			2,970
MAXIMUM PEAK STAGE			7.14
ANNUAL RUNOFF (CFSM)	1.99		1.75
ANNUAL RUNOFF (INCHES)	26.99		23.83
10 PERCENT EXCEEDS	68		56
50 PERCENT EXCEEDS	6.0		9.2
90 PERCENT EXCEEDS	0.08		1.9
			2,530
		Dec 19	0.00
		Jul 27	0.00
		Jul 3	0.00
		Jun 16	6,110
		Jun 16	9.79
		Mar 1, 1997	1.42
		Oct 4, 1968	19.25
		Sep 24, 1969	46
		Mar 1, 1997	6.0
			0.25

e Estimated

03302300 LITTLE INDIAN CREEK NEAR GALENA, IN—Continued



03302680 WEST FORK BLUE RIVER AT SALEM, IN

LOCATION.--Lat 38°36'19", long 86°05'40", in SW¹/₄SE¹/₄ sec.17, T.2 N., R.4 E., Washington County, Hydrologic Unit 05140104, (SALEM, IN. quadrangle), on left bank at downstream side of bridge on East Market Street, 0.35 mi east of County Court House in Salem, 6.0 mi upstream from Hoggatt Branch, and 6.9 mi upstream from mouth.

DRAINAGE AREA.--19.0 mi².

PERIOD OF RECORD.--July 1970 to current year. Prior to December 10, 1970, nonrecording gage at site 0.55 mi downstream at datum 5.04 ft lower.

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

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

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

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	0.88	6.1	2.5	396	e3.3	40	9.3	20	3.1	1.4	3.3	3.6
2	0.71	4.9	2.3	180	e3.7	80	7.8	14	2.8	1.4	3.2	4.9
3	0.59	4.9	2.1	119	6.3	e60	6.8	10	6.0	1.2	3.2	1.8
4	0.79	4.9	1.9	82	12	e45	6.1	8.9	4.2	1.1	4.1	1.2
5	0.83	13	2.1	60	7.6	34	5.7	463	3.2	0.93	3.4	1.1
6	0.70	31	2.0	39	6.4	25	4.5	180	2.8	0.89	18	0.87
7	0.54	13	1.8	30	6.0	18	6.8	141	2.6	0.85	4.4	0.80
8	0.51	9.1	2.1	28	5.1	15	5.6	86	2.4	1.2	1.8	0.77
9	0.46	6.3	1.9	23	e4.7	13	5.0	80	2.2	1.4	1.4	0.77
10	0.51	174	2.0	18	e4.5	10	4.6	182	2.3	89	1.4	0.71
11	0.94	170	3.8	e13	e4.5	9.2	4.3	163	4.8	16	4.1	0.63
12	0.86	72	6.6	e11	e4.3	11	3.9	80	18	9.3	1.8	0.67
13	0.70	34	43	e9.3	e4.1	24	3.5	34	13	6.9	1.2	0.77
14	0.55	21	98	e8.5	11	27	3.2	20	13	5.6	1.2	0.85
15	0.51	15	54	e7.7	139	22	2.9	18	8.5	10	1.0	0.63
16	0.50	11	31	e7.2	68	17	2.8	12	6.5	20	1.0	0.61
17	0.47	8.6	25	e6.6	35	14	14	97	5.0	8.0	0.98	0.53
18	0.52	6.9	31	e6.3	22	13	12	189	4.0	6.5	0.89	0.46
19	0.92	6.4	237	e6.0	20	52	7.1	74	3.7	5.8	0.77	0.44
20	0.99	5.2	213	e5.5	46	59	7.5	75	3.2	4.9	0.77	0.47
21	0.97	5.1	117	e4.7	140	44	12	74	2.6	12	0.69	0.47
22	0.86	5.2	74	e4.1	580	28	8.0	37	2.2	22	0.63	3.2
23	0.81	4.1	44	e3.5	213	20	6.1	21	1.9	9.2	0.60	2.4
24	0.82	3.6	37	e3.2	111	15	5.1	14	1.7	7.0	0.57	1.2
25	33	3.3	35	e3.1	57	13	186	11	1.6	5.6	0.54	0.95
26	16	3.0	25	e2.9	38	17	244	8.6	1.6	4.8	0.54	0.79
27	4.8	2.8	21	e2.8	27	12	96	6.7	1.8	4.3	0.62	1.7
28	3.1	2.6	21	e2.7	22	11	42	5.3	1.4	5.8	0.61	1.3
29	42	2.6	20	e3.7	---	15	71	5.0	1.3	4.9	0.75	1.1
30	21	2.7	32	e3.2	---	12	31	4.1	1.2	3.9	0.96	0.90
31	8.8	---	131	e2.9	---	10	---	3.6	---	3.5	0.97	---
TOTAL	145.64	652.3	1,320.1	1,092.9	1,601.5	785.2	824.6	2,137.2	128.6	275.37	65.39	36.59
MEAN	4.70	21.7	42.6	35.3	57.2	25.3	27.5	68.9	4.29	8.88	2.11	1.22
MAX	42	174	237	396	580	80	244	463	18	89	18	4.9
MIN	0.46	2.6	1.8	2.7	3.3	9.2	2.8	3.6	1.2	0.85	0.54	0.44
CFSM	0.25	1.14	2.24	1.86	3.01	1.33	1.45	3.63	0.23	0.47	0.11	0.06
IN.	0.29	1.28	2.58	2.14	3.14	1.54	1.61	4.18	0.25	0.54	0.13	0.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2003, BY WATER YEAR (WY)

MEAN	6.98	21.9	34.2	33.0	41.9	44.2	44.0	34.1	15.0	12.0	6.88	6.21
MAX	45.7	89.9	108	103	106	104	164	140	80.3	65.7	30.5	40.0
(WY)	(1984)	(1986)	(2002)	(1982)	(1989)	(1989)	(1996)	(1983)	(1997)	(1988)	(1985)	(1982)
MIN	0.14	0.29	2.33	0.97	5.41	9.65	2.83	1.91	0.088	0.29	0.13	0.024
(WY)	(1988)	(2000)	(1977)	(1977)	(1992)	(1976)	(2001)	(1988)	(1988)	(1991)	(1987)	(1999)

SUMMARY STATISTICS

FOR 2002 CALENDAR YEAR

FOR 2003 WATER YEAR

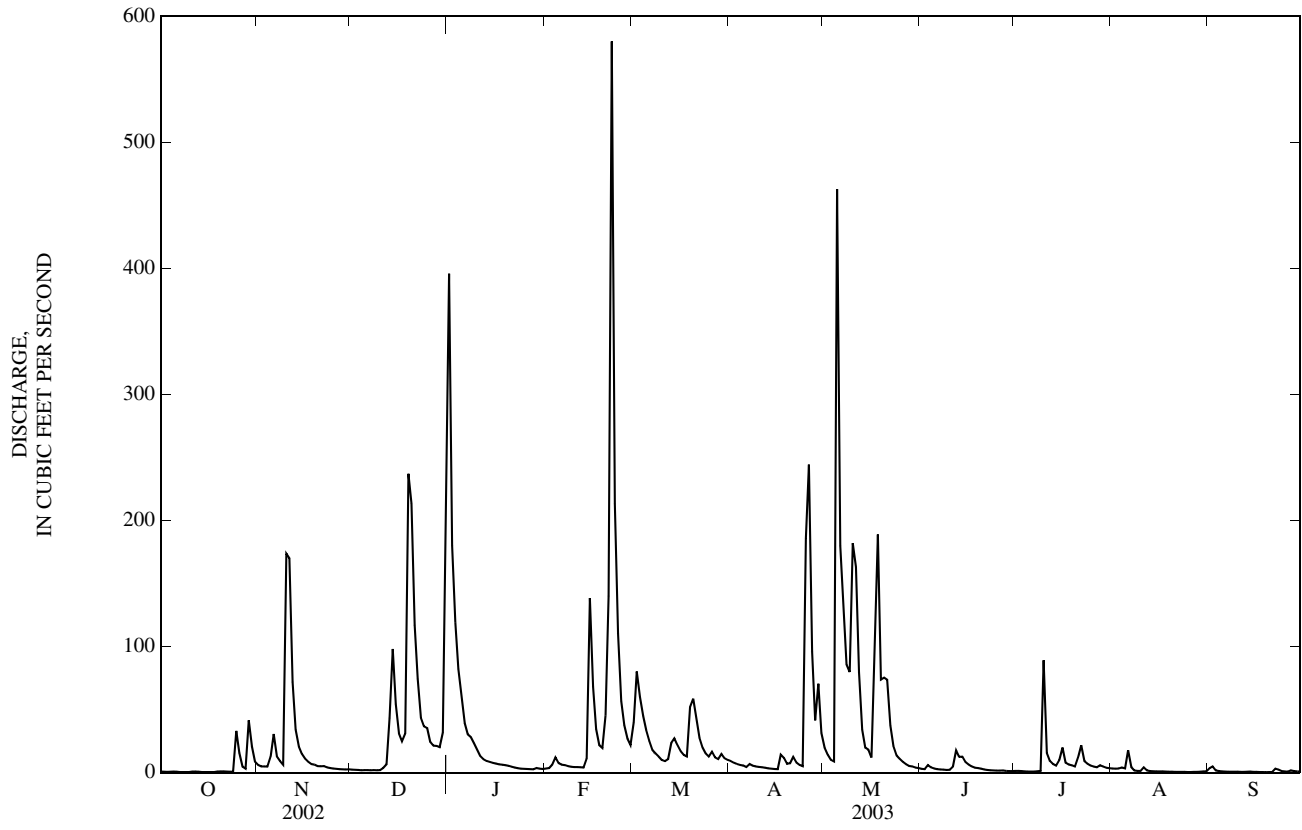
WATER YEARS 1970 - 2003

ANNUAL TOTAL	12,656.77	9,065.39	
ANNUAL MEAN	34.7	24.8	25.0
HIGHEST ANNUAL MEAN			43.4
LOWEST ANNUAL MEAN			10.7
HIGHEST DAILY MEAN	913	580	2,130
LOWEST DAILY MEAN	0.00	0.44	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	0.52	0.00
MAXIMUM PEAK FLOW		2,130	6,930
MAXIMUM PEAK STAGE		9.38	15.58
ANNUAL RUNOFF (CFSM)	1.83	1.31	1.32
ANNUAL RUNOFF (INCHES)	24.78	17.75	17.88
10 PERCENT EXCEEDS	108	71	55
50 PERCENT EXCEEDS	7.0	5.3	7.2
90 PERCENT EXCEEDS	0.20	0.77	0.43

e Estimated

BLUE RIVER BASIN

03302680 WEST FORK BLUE RIVER AT SALEM, IN—Continued



03302800 BLUE RIVER AT FREDERICKSBURG, IN

LOCATION.--Lat 38°26'02", long 86°11'31", in NE¼NW¼ sec.16, T.1 S., R.3 E., Washington County, Hydrologic Unit 05140104, (FREDERICKSBURG, IN quadrangle), on downstream side of bridge on U.S. Highway 150 at Fredericksburg, 0.5 mi downstream from South Fork Blue River, and at mile 57.1.

DRAINAGE AREA.--283 mi², of which 76.9 mi² does not contribute directly to surface runoff.

PERIOD OF RECORD.--June 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 590.00 ft above National Geodetic Vertical Datum of 1929.

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

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

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	70	154	61	4,830	e50	614	347	549	174	66	32	15
2	53	111	56	2,290	e52	896	300	460	154	86	31	185
3	34	88	53	1,180	e56	814	259	368	258	59	28	576
4	32	81	50	851	165	699	233	301	347	51	28	131
5	32	92	51	697	181	672	281	3,680	231	38	33	64
6	37	346	50	567	120	633	259	2,360	177	33	29	40
7	30	285	49	450	112	516	309	2,380	155	30	30	30
8	26	194	48	407	89	443	416	1,330	140	29	34	23
9	24	150	48	353	e83	386	320	1,140	126	39	25	19
10	24	1,000	47	291	e75	320	278	1,930	113	408	24	16
11	25	2,330	67	231	e71	292	252	1,470	129	350	27	14
12	31	842	164	177	e67	289	224	1,020	263	155	59	13
13	31	564	205	e155	e64	325	193	745	494	102	49	12
14	26	398	737	e142	85	496	168	600	363	77	32	12
15	24	308	596	e128	1,090	440	152	638	537	59	28	11
16	23	261	436	e114	1,060	392	140	600	331	98	23	13
17	e22	208	337	e108	655	351	370	506	256	109	19	15
18	21	174	553	e97	457	320	1,180	2,150	202	64	15	11
19	19	151	1,290	e96	346	481	543	969	168	52	14	10
20	19	140	2,800	e91	384	1,020	381	877	146	45	13	9.2
21	19	129	1,130	e80	933	815	617	1,370	121	43	13	8.9
22	e18	126	759	e68	4,010	713	469	900	101	89	13	19
23	e18	116	562	e60	4,940	578	335	681	87	124	13	93
24	17	101	449	e55	1,460	476	270	533	76	92	12	55
25	33	92	506	e51	939	397	755	438	66	62	11	34
26	377	84	399	e47	760	416	4,870	433	61	48	10	23
27	174	78	331	e44	653	392	1,510	340	58	39	9.6	39
28	100	72	308	e45	569	349	890	278	55	39	11	74
29	124	69	285	e53	---	412	788	257	48	56	10	45
30	465	67	292	e48	---	471	678	229	43	47	12	32
31	239	---	850	e47	---	393	---	202	---	36	14	---
TOTAL	2,187	8,811	13,569	13,853	19,526	15,811	17,787	29,734	5,480	2,625	701.6	1,642.1
MEAN	70.5	294	438	447	697	510	593	959	183	84.7	22.6	54.7
MAX	465	2,330	2,800	4,830	4,940	1,020	4,870	3,680	537	408	59	576
MIN	17	67	47	44	50	289	140	202	43	29	9.6	8.9
CFSM	0.25	1.04	1.55	1.58	2.46	1.80	2.10	3.39	0.65	0.30	0.08	0.19
IN.	0.29	1.16	1.78	1.82	2.57	2.08	2.34	3.91	0.72	0.35	0.09	0.22

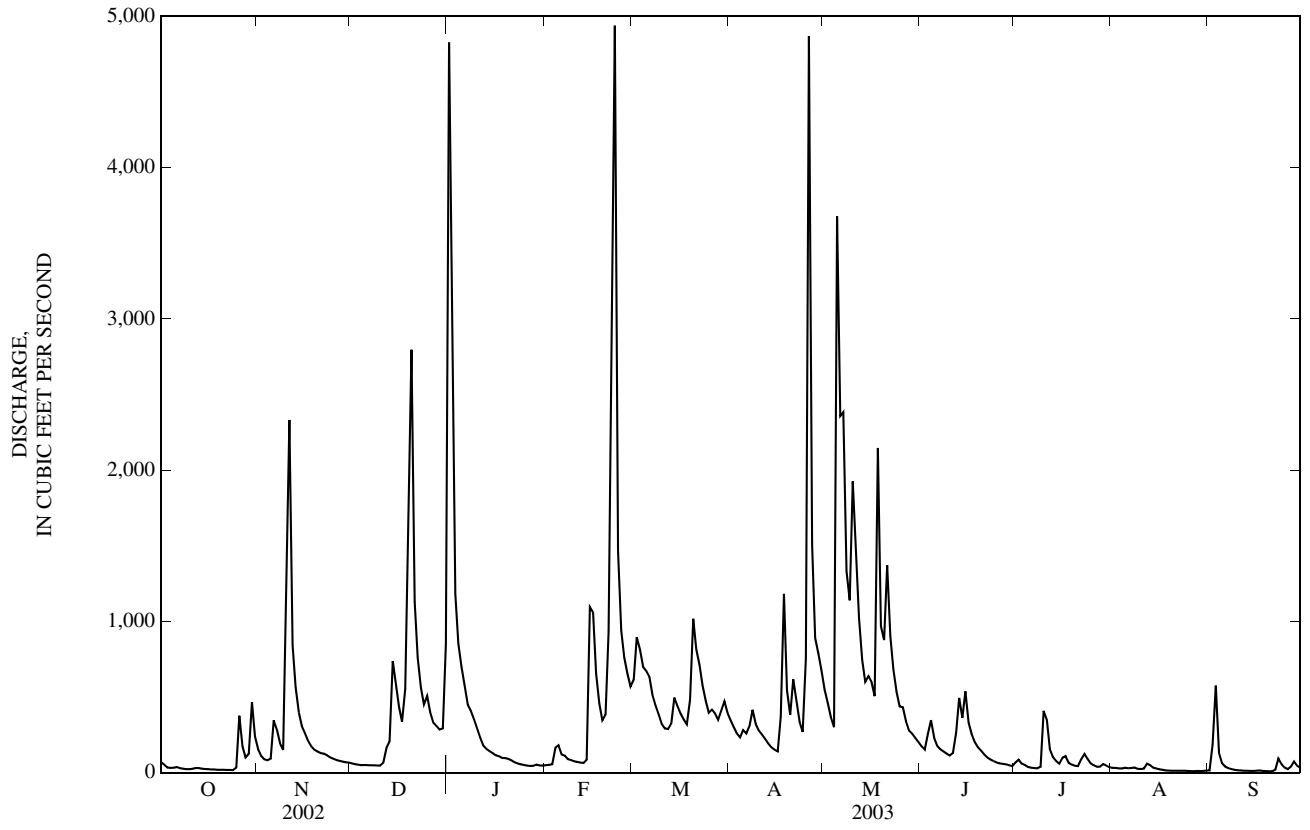
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2003, BY WATER YEAR (WY)

	70.0	239	423	465	554	617	592	464	251	136	86.4	68.7
MEAN	70.0	239	423	465	554	617	592	464	251	136	86.4	68.7
MAX	463	1,135	1,303	1,341	1,236	1,372	1,957	1,808	1,188	588	463	299
(WY)	(2002)	(1980)	(2002)	(1982)	(1990)	(1997)	(1996)	(1983)	(1997)	(1973)	(1977)	(1996)
MIN	3.45	6.74	29.4	11.6	56.1	142	83.9	35.2	8.36	13.1	9.55	4.25
(WY)	(1998)	(2000)	(1977)	(1977)	(1992)	(1969)	(2001)	(1988)	(1988)	(1991)	(1999)	(1999)

SUMMARY STATISTICS

	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1969 - 2003	
ANNUAL TOTAL	153,776.2		131,726.7			
ANNUAL MEAN	421		361		329	
HIGHEST ANNUAL MEAN					551	
LOWEST ANNUAL MEAN					129	
HIGHEST DAILY MEAN	8,310	May 13	4,940	Feb 23	22,000	Apr 29, 1996
LOWEST DAILY MEAN	5.6	Sep 12	8.9	Sep 21	1.8	Nov 15, 1999
ANNUAL SEVEN-DAY MINIMUM	6.0	Sep 7	11	Aug 24	1.8	Nov 12, 1999
MAXIMUM PEAK FLOW			9,010	Feb 23	39,000	Apr 29, 1996
MAXIMUM PEAK STAGE			19.23	Feb 23	27.15	Apr 29, 1996
ANNUAL RUNOFF (CFSM)	1.49		1.28		1.16	
ANNUAL RUNOFF (INCHES)	20.21		17.32		15.81	
10 PERCENT EXCEEDS	1,010		845		749	
50 PERCENT EXCEEDS	161		140		113	
90 PERCENT EXCEEDS	13		20		14	

e Estimated



03303000 BLUE RIVER NEAR WHITE CLOUD, IN

LOCATION.--Lat 38°14'15", long 86°13'42", in NW¹/₄SE¹/₄ sec.19, T.3 S., R.3 E., Harrison County, Hydrologic Unit 05140104, (CORYDON WEST, IN quadrangle), on left bank 400 ft downstream from Spring Creek, 600 ft upstream from bridge on Interstate 64, 0.2 mi upstream from bridge on State Highway 62, 0.8 mi north of White Cloud, and at mile 14.7.

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

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

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

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	305	470	200	6,720	e170	1,130	758	1,080	478	161	95	132
2	248	364	187	6,180	e160	1,440	695	909	435	161	125	170
3	221	299	174	2,690	e155	1,590	627	790	443	206	143	358
4	192	269	165	1,800	405	1,340	576	684	560	165	122	678
5	230	294	170	1,390	457	1,220	591	3,360	548	147	114	294
6	197	512	160	1,140	418	1,170	605	6,090	457	131	94	201
7	174	654	155	944	343	1,020	663	3,840	405	117	105	154
8	163	533	155	840	318	893	771	3,060	376	110	99	113
9	139	431	156	784	289	810	753	2,760	353	124	89	93
10	127	1,650	162	694	e275	722	694	3,540	329	202	101	78
11	201	4,160	235	597	e265	652	639	3,610	493	673	89	68
12	187	2,120	322	520	e260	628	590	2,540	738	518	116	60
13	167	1,170	432	459	e250	630	536	1,700	1,030	321	99	54
14	158	858	783	445	e249	693	486	1,300	847	223	114	49
15	e142	696	1,130	418	928	789	453	1,260	801	183	92	53
16	e130	593	837	384	2,440	724	430	1,440	790	175	75	52
17	e121	519	722	368	1,420	676	641	1,140	607	149	67	46
18	116	451	897	339	995	639	1,820	3,160	526	197	56	47
19	102	405	2,000	313	788	810	1,290	2,470	462	152	50	43
20	99	367	4,980	e310	787	1,510	907	1,590	415	127	45	44
21	90	349	2,750	304	1,400	1,490	836	2,170	377	126	42	36
22	83	332	1,590	287	5,220	1,360	1,040	1,890	339	140	41	103
23	78	314	1,150	253	9,780	1,130	777	1,380	309	132	44	144
24	72	300	926	203	3,760	957	658	1,090	283	188	38	157
25	87	278	967	e188	2,230	837	1,430	930	255	171	36	183
26	259	261	914	e172	1,650	774	7,190	898	231	135	35	126
27	559	248	761	e142	1,360	790	4,180	797	230	113	33	142
28	364	234	695	e158	1,170	726	2,110	686	212	103	31	158
29	364	223	652	e180	---	777	1,470	617	193	97	29	175
30	645	213	668	e162	---	921	1,340	572	172	92	87	176
31	684	---	1,380	e180	---	840	---	527	---	102	120	---
TOTAL	6,704	19,567	26,475	29,564	37,942	29,688	35,556	57,880	13,694	5,641	2,426	4,187
MEAN	216	652	854	954	1,355	958	1,185	1,867	456	182	78.3	140
MAX	684	4,160	4,980	6,720	9,780	1,590	7,190	6,090	1,030	673	143	678
MIN	72	213	155	142	155	628	430	527	172	92	29	36
CFSM	0.45	1.37	1.79	2.00	2.85	2.01	2.49	3.92	0.96	0.38	0.16	0.29
IN.	0.52	1.53	2.07	2.31	2.97	2.32	2.78	4.52	1.07	0.44	0.19	0.33

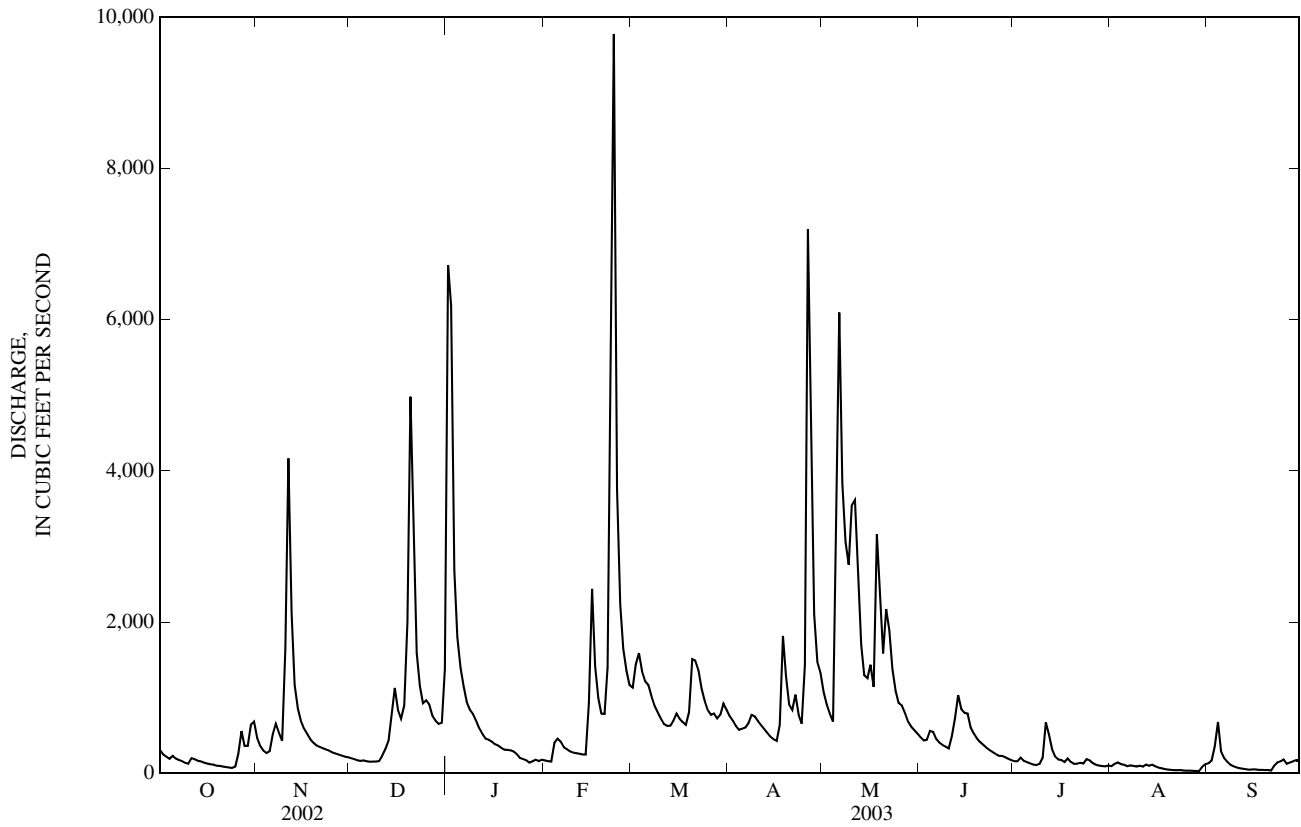
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2003, BY WATER YEAR (WY)

MEAN	137	374	686	1,051	1,142	1,380	1,165	892	505	281	175	141
MAX	934	2,057	2,502	6,290	3,404	4,299	3,243	4,020	2,785	1,655	801	551
(WY)	(2002)	(1980)	(2002)	(1937)	(1950)	(1945)	(1996)	(1983)	(1997)	(1979)	(1977)	(1996)
MIN	14.3	20.0	17.6	40.3	78.0	70.8	263	91.2	41.0	44.8	29.8	18.8
(WY)	(1965)	(1964)	(1964)	(1977)	(1934)	(1941)	(1934)	(1934)	(1936)	(1954)	(1964)	(1953)

03303000 BLUE RIVER NEAR WHITE CLOUD, IN—Continued

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

e Estimated



ANDERSON RIVER BASIN

03303300 MIDDLE FORK ANDERSON RIVER AT BRISTOW, IN

LOCATION.--Lat 38°08'19", long 86°43'16", in NW¼SE¼ sec.27, T.4 S., R.3 W., Perry County, Hydrologic Unit 05140201, (BRISTOW, IN. quadrangle), on left bank at downstream side of bridge on State Highway 145 at Bristow, 2.0 mi downstream from Coon Branch, 6.0 mi upstream from Sulphur Fork Creek, and at mile 14.1.

DRAINAGE AREA.--39.8 mi².

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

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

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

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 21, 1959, reached a stage of 20.0 ft, from floodmark, discharge 15,000 ft³/s from rating curve extended above 7,000 ft³/s. This is the maximum flood since 1905, from information by local resident.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	11	6.0	506	8.9	100	72	72	26	4.6	0.95	1.3
2	2.4	9.2	6.0	356	10	91	62	58	23	4.4	1.3	2.5
3	2.2	8.0	5.8	274	13	e80	55	49	27	4.0	1.6	2.5
4	2.9	8.3	5.8	180	41	e72	49	42	25	3.6	6.2	1.7
5	3.5	13	5.7	124	34	65	51	301	21	3.0	11	1.3
6	2.3	25	5.5	92	28	58	48	284	19	2.7	4.5	1.2
7	1.9	23	5.5	71	26	52	55	256	17	2.4	3.2	1.2
8	1.7	16	5.5	59	22	47	56	238	16	2.5	2.5	1.2
9	1.6	13	5.7	50	21	42	63	273	14	6.9	2.2	1.2
10	1.9	185	5.7	42	21	37	70	194	13	11	2.1	1.1
11	2.1	182	12	35	21	34	64	202	45	10	2.4	1.0
12	2.1	109	18	30	21	34	58	134	215	5.3	2.1	0.95
13	2.2	76	29	27	19	37	53	95	110	3.8	1.5	0.95
14	2.5	57	55	24	22	37	48	72	80	3.1	1.4	0.95
15	2.7	47	47	20	104	36	44	165	127	2.8	1.3	0.95
16	3.1	39	40	18	113	34	40	190	201	3.1	1.4	0.89
17	3.4	32	35	17	93	33	68	283	59	2.4	1.4	0.83
18	3.4	26	34	14	77	31	82	380	37	2.8	1.4	0.72
19	3.5	22	182	14	78	58	74	320	30	3.6	1.5	0.68
20	3.6	19	259	12	110	75	66	249	25	3.6	1.6	0.60
21	3.5	16	181	12	193	87	65	170	20	6.4	1.6	0.56
22	3.5	14	127	11	598	84	59	119	16	4.7	1.5	1.5
23	3.4	12	91	9.5	498	75	53	88	14	4.5	1.5	1.3
24	3.8	10	77	8.2	426	66	49	67	12	4.2	1.5	1.2
25	5.7	9.6	86	7.9	382	59	131	67	9.5	2.6	1.7	0.96
26	7.5	e9.0	70	7.4	296	59	296	70	9.1	1.3	1.6	0.87
27	8.4	e8.1	59	6.5	178	55	237	54	9.7	1.2	1.6	e1.2
28	9.3	e7.5	51	6.3	118	51	176	45	7.6	1.4	1.8	e2.0
29	17	e6.9	45	7.4	---	109	118	39	6.3	1.3	1.9	e6.0
30	20	6.4	57	7.8	---	96	84	33	5.2	1.0	1.7	15
31	15	---	182	7.9	---	83	---	29	---	0.95	1.6	---
TOTAL	150.0	1,020.0	1,794.2	2,056.9	3,571.9	1,877	2,446	4,638	1,239.4	115.15	69.55	54.31
MEAN	4.84	34.0	57.9	66.4	128	60.5	81.5	150	41.3	3.71	2.24	1.81
MAX	20	185	259	506	598	109	296	380	215	11	11	15
MIN	1.6	6.4	5.5	6.3	8.9	31	40	29	5.2	0.95	0.95	0.56
CFSM	0.12	0.85	1.45	1.67	3.21	1.52	2.05	3.76	1.04	0.09	0.06	0.05
IN.	0.14	0.95	1.68	1.92	3.34	1.75	2.29	4.34	1.16	0.11	0.07	0.05

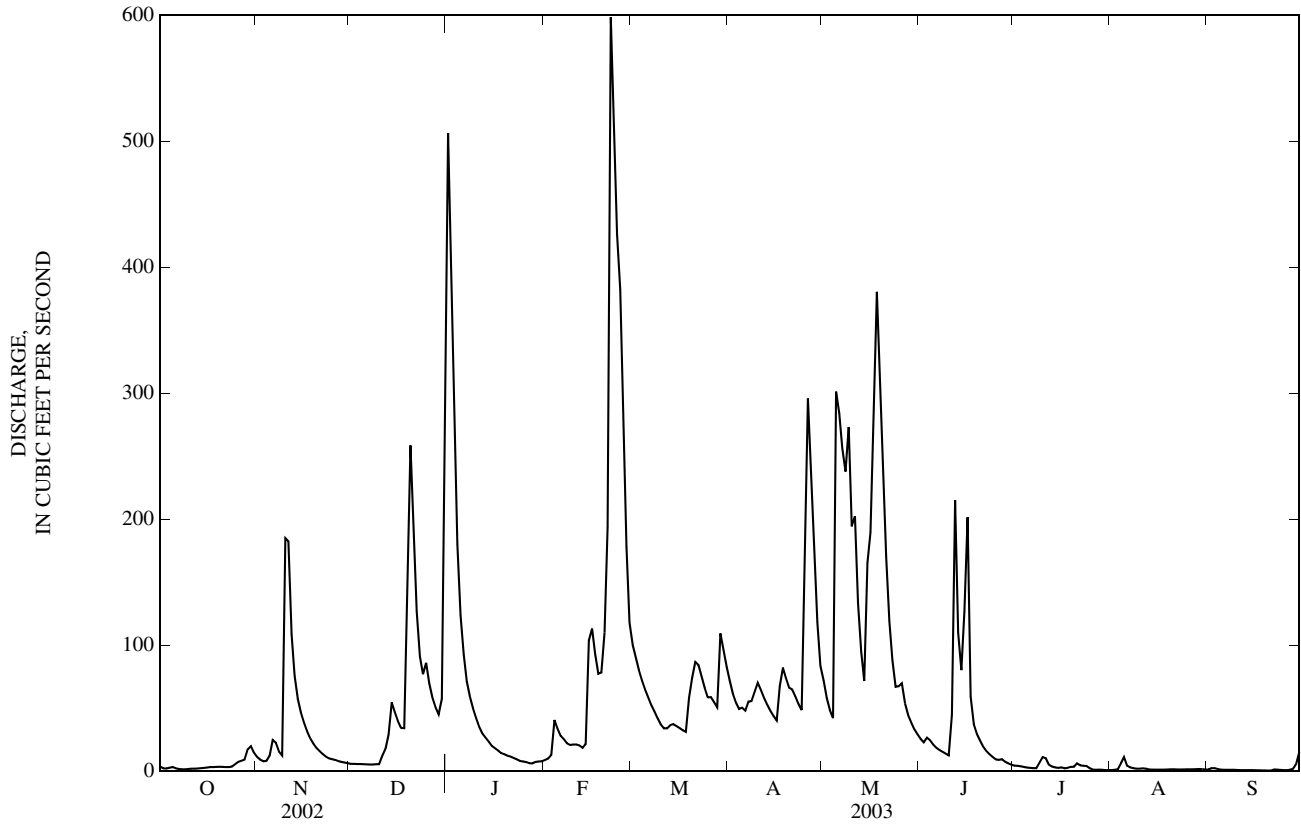
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2003, BY WATER YEAR (WY)

MEAN	9.66	37.3	74.8	79.7	98.3	123	110	78.9	32.0	16.5	11.2	10.3
MAX	63.7	194	224	223	245	393	312	405	190	141	162	78.8
(WY)	(1978)	(1980)	(2002)	(1982)	(1989)	(1964)	(1972)	(1983)	(1979)	(1979)	(1979)	(1982)
MIN	0.000	0.000	0.000	2.78	5.66	33.4	15.7	2.37	0.82	0.38	0.013	0.000
(WY)	(1965)	(1964)	(1964)	(1964)	(1992)	(1990)	(2001)	(2001)	(1988)	(1968)	(1965)	(1964)

03303300 MIDDLE FORK ANDERSON RIVER AT BRISTOW, IN—Continued

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

e Estimated



CROOKED CREEK BASIN

03303400 CROOKED CREEK NEAR SANTA CLAUS, IN

LOCATION.--Lat 38°07'05", long 86°53'24", in SE¼SE¼ sec.31, T.4 S., R.4 W., Spencer County, Hydrologic Unit 05140201, (SANTA CLAUS, IN, quadrangle), on right bank at upstream side of bridge on county road, 1.1 mi east of State Highway 162, 1.3 mi east of Santa Claus Post Office, and 1.8 mi upstream from unnamed right-bank tributary.

DRAINAGE AREA.--7.86 mi².

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

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.25	1.2	e0.32	189	e1.0	25	6.4	4.6	1.6	0.09	0.27	e0.03
2	0.07	1.00	e0.32	34	e1.3	19	4.9	4.4	1.4	0.06	1.1	0.38
3	0.03	1.2	e0.30	19	e3.2	11	4.2	3.5	4.8	e0.05	1.1	0.11
4	0.44	2.4	e0.33	11	7.5	8.5	3.8	3.8	2.5	e0.04	0.20	e0.04
5	0.25	9.6	e0.50	8.0	3.1	7.1	15	164	1.8	e0.04	0.16	e0.04
6	0.03	3.7	e0.40	5.8	e2.7	5.6	6.4	36	1.6	e0.04	0.09	e0.04
7	0.02	1.6	e0.49	5.1	e2.5	4.8	14	38	1.5	e0.03	0.07	e0.03
8	e0.05	1.2	e0.69	4.8	e2.3	4.4	7.6	223	1.3	e0.03	0.04	e0.03
9	e0.04	0.99	e0.75	e4.0	e2.1	3.8	49	100	1.0	0.05	e0.04	e0.03
10	0.10	139	e0.80	e3.2	e2.0	3.5	28	24	1.1	0.10	e0.04	e0.03
11	0.26	33	19	e2.7	e2.7	3.4	13	15	26	0.07	1.9	e0.03
12	0.07	6.4	4.6	e2.4	e2.3	4.6	7.5	7.4	90	e0.06	0.21	e0.02
13	0.02	2.9	23	e2.3	e2.0	14	5.1	5.1	17	e0.06	e0.06	e0.02
14	e0.02	2.1	24	e2.0	8.6	8.2	4.3	4.5	7.7	e0.05	e0.05	e0.02
15	e0.01	1.9	8.0	e1.8	79	5.7	3.8	7.2	5.0	30	e0.04	1.3
16	e0.01	1.5	3.9	e1.6	36	4.7	3.4	4.6	3.5	5.4	e0.03	1.8
17	e0.01	1.2	3.1	e1.5	19	4.7	21	171	2.9	0.64	e0.03	1.5
18	e0.01	0.93	3.0	e1.4	10	4.4	9.8	67	2.6	0.30	e0.03	1.1
19	e0.01	0.88	137	e1.5	32	32	5.4	19	2.3	0.14	e0.03	0.10
20	e0.05	0.77	50	e1.5	73	17	4.7	22	2.0	0.06	e0.02	e0.06
21	e0.03	0.77	15	e1.4	110	18	4.4	16	1.8	40	e0.02	e0.03
22	e0.02	0.68	7.7	e1.2	366	9.6	3.6	8.4	1.7	7.2	e0.03	2.0
23	e0.02	0.60	4.2	e0.98	83	6.4	3.1	5.1	1.6	3.3	e0.04	0.79
24	e0.02	0.55	16	e0.79	43	5.2	2.8	3.7	1.4	2.3	e0.03	0.16
25	2.6	0.49	18	e0.90	26	5.0	25	16	1.0	1.7	e0.02	e0.06
26	1.0	0.46	5.7	e0.75	e16	7.3	17	10	1.6	1.4	e0.02	e0.05
27	0.62	e0.43	3.9	e0.65	e12	5.0	6.2	5.1	1.8	1.0	e0.02	2.2
28	1.1	e0.40	3.6	e0.86	e17	13	5.0	3.6	0.67	0.78	e0.02	0.60
29	8.1	e0.35	3.0	e1.3	---	72	10	3.1	0.13	0.43	e0.02	0.12
30	1.8	e0.34	14	e1.0	---	17	4.7	2.5	0.06	0.18	e0.03	e0.10
31	1.1	---	79	e0.80	---	9.2	---	2.1	---	0.39	e0.03	---
TOTAL	18.16	218.54	450.60	313.23	965.3	359.1	299.1	999.7	189.36	95.99	5.79	12.82
MEAN	0.59	7.28	14.5	10.1	34.5	11.6	9.97	32.2	6.31	3.10	0.19	0.43
MAX	8.1	139	137	189	366	72	49	223	90	40	1.9	2.2
MIN	0.01	0.34	0.30	0.65	1.0	3.4	2.8	2.1	0.06	0.03	0.02	0.02
CFSM	0.07	0.93	1.85	1.29	4.39	1.47	1.27	4.10	0.80	0.39	0.02	0.05
IN.	0.09	1.03	2.13	1.48	4.57	1.70	1.42	4.73	0.90	0.45	0.03	0.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2003, BY WATER YEAR (WY)

MEAN	3.16	9.42	15.7	15.3	21.5	21.6	20.3	13.1	6.62	4.55	2.57	2.29
MAX	34.1	33.5	49.1	43.7	65.0	63.1	65.7	62.0	37.5	47.5	19.4	16.7
(WY)	(2002)	(1994)	(1991)	(1982)	(2000)	(1997)	(1996)	(1995)	(1997)	(1979)	(1977)	(1996)
MIN	0.000	0.067	0.51	0.058	1.12	5.35	2.27	0.17	0.000	0.001	0.000	0.000
(WY)	(1988)	(2000)	(1977)	(1977)	(1992)	(1990)	(1976)	(1988)	(1988)	(1974)	(1983)	(1970)

SUMMARY STATISTICS

FOR 2002 CALENDAR YEAR

FOR 2003 WATER YEAR

WATER YEARS 1970 - 2003

ANNUAL TOTAL	5,166.83	3,927.69	
ANNUAL MEAN	14.2	10.8	11.3
HIGHEST ANNUAL MEAN			20.9
LOWEST ANNUAL MEAN			3.97
HIGHEST DAILY MEAN	919	May 13	366
LOWEST DAILY MEAN	0.00	Jun 26	0.01
ANNUAL SEVEN-DAY MINIMUM	0.00	Jun 26	0.01
MAXIMUM PEAK FLOW			1,930
MAXIMUM PEAK STAGE			10.75
ANNUAL RUNOFF (CFSM)	1.80		1.37
ANNUAL RUNOFF (INCHES)	24.45		18.59
10 PERCENT EXCEEDS	34		22
50 PERCENT EXCEEDS	1.8		2.0
90 PERCENT EXCEEDS	0.00		0.03

e Estimated

03303400 CROOKED CREEK NEAR SANTA CLAUS, IN—Continued

