

WABASH RIVER BASIN

03322900 WABASH RIVER AT LINN GROVE, IN

LOCATION.--Lat 40°39'22", long 85°01'58", in SE¹/₄SE¹/₄ sec.34, T.26 N., R.13 E., Adams County, Hydrologic Unit 05120101, (LINN GROVE, IN quadrangle), on right bank 10 ft downstream from bridge on State Highway 218, 800 ft downstream from Shoemaker Ditch, 0.8 mi north of Linn Grove, and 2.2 mi upstream from Rice Ditch.

DRAINAGE AREA.--453 mi².

PERIOD OF RECORD.--September 1964 to current year.

REVISED RECORDS.--WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 808.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for estimated daily discharges, which are poor. Occasional regulation by Grand Lake, diversion from or into St. Marys River Basin, and into Miami and Erie Canal.

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	23	16	28	2,030	e30	e140	332	316	157	118	365	688
2	18	13	24	2,230	e36	e120	285	850	137	227	2,840	2,550
3	15	9.4	e22	1,600	e60	e100	245	536	145	164	3,470	4,180
4	14	10	20	598	e700	e90	305	287	278	195	5,120	4,160
5	14	18	18	274	e1,200	e230	791	1,730	244	4,410	4,990	2,930
6	12	20	17	191	e540	e1,220	660	2,100	181	5,830	4,460	1,590
7	12	25	17	158	e300	e1,500	718	1,700	157	10,100	3,290	747
8	10	31	16	154	e180	e1,000	1,180	813	146	13,900	2,070	398
9	8.9	22	14	709	e120	e1,800	837	1,910	132	12,100	1,470	258
10	8.3	125	14	1,130	e88	e2,800	571	2,920	116	11,000	1,150	226
11	10	564	14	519	e70	e2,900	424	3,760	114	7,490	634	201
12	9.9	386	14	e220	e56	e2,500	319	4,550	555	5,760	634	191
13	8.0	145	14	e160	e47	e2,800	260	4,130	1,200	4,920	827	174
14	6.7	76	16	e120	e40	e3,200	230	2,820	1,430	4,000	792	155
15	8.0	54	18	e100	e35	3,780	209	1,980	1,310	2,990	375	148
16	11	44	18	e80	e37	3,140	191	1,630	581	2,090	255	142
17	11	40	16	e70	e36	2,450	186	1,110	410	1,300	215	133
18	10	37	66	e60	e36	1,970	199	645	1,290	726	208	129
19	9.6	33	853	e50	e35	1,450	160	487	1,610	466	178	129
20	9.8	29	1,530	e46	e35	1,100	149	388	801	349	159	107
21	11	28	1,260	e43	e38	1,190	144	301	302	568	144	99
22	14	29	504	e41	e60	1,480	134	307	209	976	133	275
23	12	35	209	e38	e280	1,240	118	247	171	1,100	124	570
24	11	52	117	e36	e1,100	735	112	204	147	949	116	359
25	12	54	67	e34	e880	494	119	177	134	604	110	1,030
26	16	55	e70	e33	e500	412	132	169	140	403	98	898
27	21	50	e66	e31	e330	458	121	157	142	316	91	2,500
28	23	40	e58	e30	e250	414	102	146	139	274	89	2,920
29	16	33	50	e29	---	649	95	142	117	257	89	2,800
30	19	33	201	e28	---	605	106	134	109	233	139	1,540
31	17	---	1,610	e27	---	420	---	144	---	211	195	---
TOTAL	401.2	2,106.4	6,961	10,869	7,119	42,387	9,434	36,790	12,604	94,026	34,830	32,227
MEAN	12.9	70.2	225	351	254	1,367	314	1,187	420	3,033	1,124	1,074
MAX	23	564	1,610	2,230	1,200	3,780	1,180	4,550	1,610	13,900	5,120	4,180
MIN	6.7	9.4	14	27	30	90	95	134	109	118	89	99
CFSM	0.03	0.15	0.50	0.77	0.56	3.02	0.69	2.62	0.93	6.70	2.48	2.37
IN.	0.03	0.17	0.57	0.89	0.58	3.48	0.77	3.02	1.04	7.72	2.86	2.65

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2003, BY WATER YEAR (WY)

MEAN	108	267	482	489	663	784	658	397	364	351	192	119
MAX	1,002	1,853	1,514	1,563	1,717	2,397	2,085	1,584	1,914	3,033	1,513	1,074
(WY)	(2002)	(1973)	(1991)	(1974)	(1976)	(1978)	(1972)	(1996)	(1981)	(2003)	(1995)	(2003)
MIN	6.84	7.52	9.25	6.19	86.0	80.5	68.2	25.9	8.92	11.7	8.20	7.64
(WY)	(1965)	(1966)	(1977)	(1977)	(1978)	(1981)	(1971)	(1988)	(1988)	(1965)	(1966)	(1967)

SUMMARY STATISTICS

FOR 2002 CALENDAR YEAR

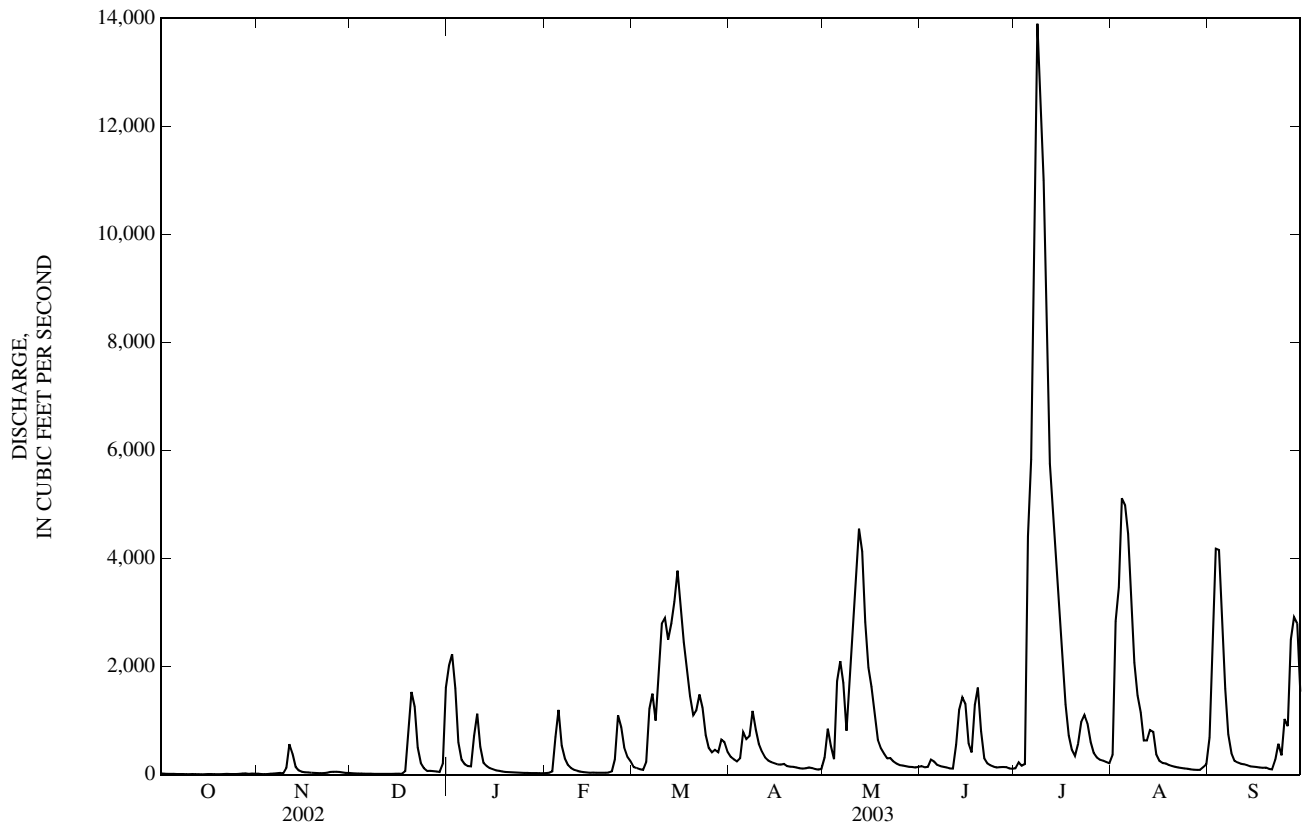
FOR 2003 WATER YEAR

WATER YEARS 1965 - 2003

ANNUAL TOTAL	135,971.3	289,754.6	
ANNUAL MEAN	373	794	405
HIGHEST ANNUAL MEAN			794
LOWEST ANNUAL MEAN			76.8
HIGHEST DAILY MEAN	4,580	Mar 31	13,900
LOWEST DAILY MEAN	4.1	Sep 16	6.7
ANNUAL SEVEN-DAY MINIMUM	6.0	Sep 11	8.5
MAXIMUM PEAK FLOW			14,500
MAXIMUM PEAK STAGE			14.76
ANNUAL RUNOFF (CFSM)	0.82		1.75
ANNUAL RUNOFF (INCHES)	11.17		23.79
10 PERCENT EXCEEDS	1,180		2,470
50 PERCENT EXCEEDS	96		178
90 PERCENT EXCEEDS	10		16

03322900 WABASH RIVER AT LINN GROVE, IN—Continued

e Estimated



WABASH RIVER BASIN

03322985 WABASH RIVER NEAR BLUFFTON, IN

LOCATION.--Lat 40°43'41", long 85°08'12", in NE¼NE¼ sec.11, T.26 N., R.12 E., Wells County, Hydrologic Unit 05120101, (BLUFFTON, IN quadrangle), on left bank 300 ft downstream of bridge on County Road 450 East (State Highway 201), 0.95 mi south of State Highway 124, 2.5 mi southeast of Bluffton, and at mile 436.6.

DRAINAGE AREA.--508 mi².

PERIOD OF RECORD.--September 2001 to current year.

GAGE.--Water-stage recorder. Datum of gage is 795.42 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Occasional regulation by Grand Lake Reservoir, diversion from or into St. Mary's River Basin, and into Miami and Erie Canal.

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	30	19	29	2,130	e33	e170	480	219	182	423	361	527
2	24	18	28	2,070	e40	e140	402	978	168	247	3,690	2,550
3	19	14	24	1,820	e64	e120	337	752	165	251	3,360	3,140
4	18	12	23	874	e790	e110	453	424	298	460	4,110	3,920
5	18	14	19	427	e1,300	e250	1,480	2,220	327	5,880	4,830	3,330
6	17	25	18	261	e800	e1,250	1,020	2,340	235	6,390	4,320	2,000
7	15	25	17	206	e320	e1,560	1,000	2,060	190	9,780	3,530	994
8	15	33	17	187	e200	e1,200	1,380	2,020	175	e13,600	2,340	566
9	14	32	16	686	e140	e2,000	1,110	3,090	157	e14,600	1,580	340
10	13	104	15	1,290	e100	e2,900	786	3,440	136	e11,400	1,290	275
11	12	696	14	e790	e78	3,000	611	3,910	128	e7,740	833	238
12	14	579	15	e360	e62	2,850	465	3,950	654	e5,740	698	215
13	14	238	15	e250	e52	3,000	364	4,040	1,490	e4,870	861	200
14	13	101	16	e180	e43	3,170	314	3,210	2,110	e3,980	968	177
15	11	62	18	e150	e36	3,590	279	2,260	1,560	e3,010	527	165
16	11	48	18	e120	e38	3,490	253	1,740	868	e2,160	323	155
17	14	42	17	e98	e37	2,800	231	1,320	469	e1,390	255	145
18	15	39	28	e82	e37	2,220	252	838	1,130	e875	237	134
19	15	35	804	e70	36	1,720	211	640	1,530	e585	210	134
20	14	31	1,630	61	38	1,350	186	521	1,070	e465	179	119
21	13	28	1,440	59	43	1,310	178	400	428	e687	160	98
22	14	29	762	e58	80	1,550	167	375	270	e1,050	144	176
23	15	34	335	e50	283	1,430	147	329	209	e1,180	133	716
24	13	47	166	e45	1,190	959	135	262	176	e1,030	126	475
25	13	57	90	e41	e960	685	141	223	153	721	118	1,170
26	16	54	e84	e38	e600	544	155	202	162	484	108	1,190
27	19	53	e82	e36	e400	584	154	189	151	361	96	3,240
28	26	45	e70	e34	e300	551	126	174	163	301	93	2,940
29	22	39	60	e32	---	902	115	167	134	268	93	2,830
30	21	35	155	e31	---	864	112	160	121	241	111	1,980
31	21	---	1,640	e30	---	620	---	176	---	210	227	---
TOTAL	509	2,588	7,665	12,566	8,100	46,889	13,044	42,629	15,009	100,379	35,911	34,139
MEAN	16.4	86.3	247	405	289	1,513	435	1,375	500	3,238	1,158	1,138
MAX	30	696	1,640	2,130	1,300	3,590	1,480	4,040	2,110	14,600	4,830	3,920
MIN	11	12	14	30	33	110	112	160	121	210	93	98
CFSM	0.03	0.17	0.49	0.80	0.57	2.98	0.86	2.71	0.98	6.37	2.28	2.24
IN.	0.04	0.19	0.56	0.92	0.59	3.43	0.96	3.12	1.10	7.35	2.63	2.50

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2003, BY WATER YEAR (WY)

MEAN	591	126	604	301	642	1,153	988	1,210	323	1,640	590	578
MAX	1,165	165	960	405	995	1,513	1,542	1,375	500	3,238	1,158	1,138
(WY)	(2002)	(2002)	(2002)	(2003)	(2002)	(2003)	(2002)	(2003)	(2003)	(2003)	(2003)	(2003)
MIN	16.4	86.3	247	197	289	794	435	1,044	146	42.2	22.0	17.7
(WY)	(2003)	(2003)	(2003)	(2002)	(2003)	(2002)	(2003)	(2002)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS

FOR 2002 CALENDAR YEAR

FOR 2003 WATER YEAR

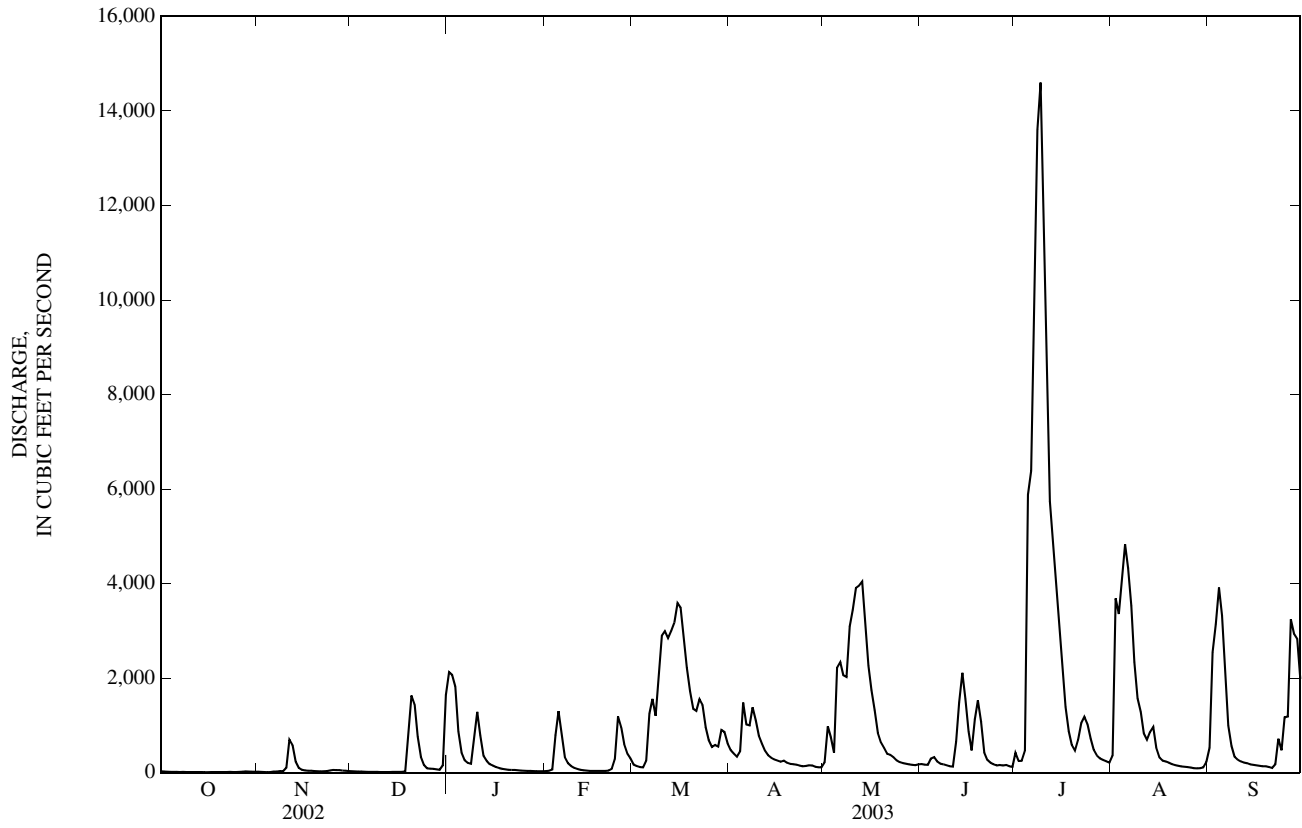
WATER YEARS 1994 - 2003

ANNUAL TOTAL	154,871.8		319,428		732	
ANNUAL MEAN	424		875		875	
HIGHEST ANNUAL MEAN					875	
LOWEST ANNUAL MEAN					589	
HIGHEST DAILY MEAN	4,410	Apr 1	14,600	Jul 9	14,600	Jul 9, 2003
LOWEST DAILY MEAN	8.9	Sep 18	11	Oct 15	2.9	Sep 6, 2001
ANNUAL SEVEN-DAY MINIMUM	11	Sep 12	13	Oct 10	3.4	Sep 5, 2001
MAXIMUM PEAK FLOW			15,300	Jul 9	15,300	Jul 9, 2003
MAXIMUM PEAK STAGE			18.43	Jul 9	18.43	Jul 9, 2003
ANNUAL RUNOFF (CFSM)	0.84		1.72		1.44	
ANNUAL RUNOFF (INCHES)	11.34		23.39		19.58	
10 PERCENT EXCEEDS	1,370		2,810		2,130	
50 PERCENT EXCEEDS	97		215		210	
90 PERCENT EXCEEDS	14		18		18	

e Estimated

WABASH RIVER BASIN

03322985 WABASH RIVER NEAR BLUFFTON, IN—Continued



03323500 WABASH RIVER AT HUNTINGTON, IN—Continued

WATER-QUALITY RECORDS

INSTRUMENTATION.--Temperature recorder.

PERIOD OF RECORD.--

WATER TEMPERATURE.--October 1987 to September 1988. October 1989 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 29.2°C, July 31, 1999; minimum, -0.3°C, Feb. 5, 2003.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 26.9°C, Aug. 28, minimum, -0.1°C, Feb. 5, Mar. 10.

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	10.8	9.2	10.0	6.1	4.9	5.4	4.5	3.8	4.3
2	---	---	---	10.6	8.5	9.4	5.9	4.3	5.0	4.2	3.2	3.8
3	---	---	---	10.0	8.4	9.3	5.6	0.6	4.4	3.2	2.0	2.5
4	---	---	---	10.0	9.3	9.6	5.1	4.5	4.8	2.1	1.6	1.8
5	---	---	---	9.4	8.8	9.2	5.5	4.5	4.9	2.5	1.7	2.2
6	---	---	---	9.4	8.8	9.2	5.7	4.4	4.9	3.9	2.4	3.0
7	---	---	---	10.6	8.5	9.4	5.6	4.3	5.0	4.0	2.9	3.2
8	---	---	---	10.8	8.9	9.8	6.5	4.7	5.5	5.1	3.2	4.1
9	18.4	16.2	17.3	11.1	9.6	10.3	6.3	4.7	5.4	5.0	1.5	4.2
10	18.0	16.1	17.1	13.8	10.9	11.7	6.1	5.1	5.6	5.0	2.0	3.3
11	19.1	15.7	17.3	11.5	9.3	10.5	7.1	5.7	6.4	2.5	1.6	1.9
12	17.8	16.7	17.2	10.2	9.3	10.0	6.6	5.5	6.0	3.1	1.0	2.0
13	17.6	15.3	16.7	10.8	9.7	10.2	6.5	5.7	6.2	4.9	2.2	3.7
14	16.9	14.0	15.3	11.3	10.1	10.7	7.2	6.1	6.5	4.2	2.8	3.7
15	16.7	13.8	15.2	10.8	9.6	10.3	7.0	5.9	6.4	3.5	2.6	3.0
16	15.9	14.0	14.8	9.6	9.1	9.3	6.8	5.4	6.0	3.9	2.8	3.3
17	14.2	13.0	13.7	9.4	8.5	8.9	5.6	4.6	5.0	4.5	2.7	3.6
18	14.1	13.2	13.7	9.4	8.0	8.6	8.3	5.6	6.7	3.6	2.4	3.0
19	15.4	13.5	14.4	10.3	8.6	9.4	8.4	5.9	7.8	3.1	2.5	2.9
20	14.8	12.1	13.3	9.8	8.7	9.3	8.0	2.6	4.5	4.6	3.1	3.6
21	14.4	11.7	13.0	9.3	8.2	8.7	3.4	3.1	3.2	4.1	3.3	3.8
22	14.6	11.9	13.2	8.5	7.5	8.0	4.4	3.3	3.7	4.6	3.1	3.8
23	13.0	12.0	12.6	8.6	7.1	7.7	3.8	2.7	3.1	4.4	3.8	4.1
24	12.6	11.8	12.2	8.5	6.9	7.6	3.6	2.6	3.1	4.0	3.5	3.7
25	11.9	11.3	11.4	7.9	6.9	7.4	4.6	2.6	3.8	4.6	3.3	3.9
26	12.1	11.4	11.8	7.5	6.1	6.9	4.3	3.6	3.9	4.4	3.9	4.2
27	12.8	11.4	12.0	7.2	5.4	6.4	4.6	3.4	3.9	4.3	4.1	4.2
28	13.1	11.1	12.0	7.1	5.4	5.9	4.8	3.7	4.2	4.6	3.9	4.3
29	11.6	10.3	10.7	7.4	5.2	6.2	5.3	4.0	4.4	4.4	4.0	4.2
30	11.5	10.1	10.7	7.4	5.8	6.4	6.6	4.0	5.2	4.4	3.8	4.1
31	11.7	10.0	10.8	---	---	---	6.6	1.5	4.2	4.5	3.8	4.2
MONTH	---	---	---	13.8	5.2	8.9	8.4	0.6	5.0	5.1	1.0	3.5

WABASH RIVER BASIN

03323500 WABASH RIVER AT HUNTINGTON, IN—Continued

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

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.6	4.2	4.4	3.6	2.5	3.0	10.2	8.0	9.3	17.4	15.5	16.4
2	5.8	4.5	4.9	4.5	3.1	3.5	14.0	10.1	12.1	16.0	14.5	15.3
3	5.3	4.7	5.0	3.9	1.8	3.4	15.8	12.2	14.0	17.0	15.6	16.2
4	5.2	0.3	3.2	5.2	3.3	4.2	14.4	9.5	13.3	16.9	15.8	16.3
5	2.5	-0.1	1.9	5.0	1.4	3.9	11.0	8.3	9.9	17.6	13.4	15.7
6	2.0	0.2	1.7	5.0	3.0	3.7	8.3	6.6	7.5	16.2	14.3	15.2
7	3.3	1.0	2.2	3.1	0.1	1.3	6.6	5.9	6.2	17.1	15.3	16.2
8	4.2	2.1	3.1	2.3	1.3	1.7	6.0	5.2	5.8	16.1	15.5	15.9
9	3.9	2.4	3.1	1.6	0.0	1.2	6.2	5.2	5.7	16.7	14.6	15.8
10	4.0	3.1	3.4	1.3	-0.1	0.7	8.5	5.7	7.0	16.0	15.3	15.5
11	3.8	2.8	3.2	0.9	0.0	0.6	9.3	7.0	8.0	15.8	15.1	15.3
12	4.5	2.3	3.4	0.7	0.2	0.5	11.4	7.8	9.4	16.0	15.3	15.5
13	4.7	1.8	3.0	0.6	0.4	0.5	12.4	9.3	10.7	16.2	15.6	15.9
14	4.2	1.7	3.7	0.8	0.0	0.5	13.9	10.8	12.1	16.4	16.0	16.3
15	4.1	3.3	3.7	1.6	0.8	1.1	15.5	11.9	13.4	16.3	15.9	16.1
16	4.4	2.7	3.5	3.1	1.6	2.3	15.9	13.0	14.1	16.0	15.8	15.9
17	4.4	3.3	4.0	5.7	3.1	4.3	14.0	12.5	13.1	16.3	15.9	16.1
18	4.5	3.9	4.2	7.5	5.7	6.6	14.8	12.5	13.4	16.4	16.1	16.2
19	6.1	4.4	5.0	7.7	6.6	7.1	16.2	12.4	14.0	16.4	16.1	16.2
20	6.7	3.9	5.3	9.0	7.3	7.9	16.1	13.8	14.7	16.1	15.7	15.9
21	5.7	4.3	5.0	9.2	8.4	8.7	14.4	13.3	13.9	16.7	15.7	16.1
22	6.1	0.0	4.5	8.6	7.5	7.9	14.5	12.5	13.4	16.9	15.8	16.3
23	5.6	0.2	3.0	9.5	7.1	8.1	16.8	11.4	13.7	16.7	16.0	16.3
24	5.0	2.1	3.3	10.9	7.6	9.0	13.5	11.4	12.6	16.8	16.0	16.4
25	3.0	1.9	2.2	11.2	10.0	10.5	13.0	11.9	12.3	17.2	16.5	16.8
26	2.4	0.0	1.6	12.0	10.1	10.8	15.8	11.3	13.5	17.4	16.5	16.8
27	4.3	1.3	2.7	13.0	10.9	11.7	16.8	12.8	14.7	17.8	16.2	17.0
28	3.8	0.0	2.8	12.8	11.3	12.1	17.0	13.9	15.5	17.6	16.1	16.8
29	---	---	---	11.7	8.3	10.4	17.8	14.7	16.2	19.2	16.2	17.3
30	---	---	---	8.3	7.0	7.5	17.2	15.0	16.1	18.2	16.2	17.1
31	---	---	---	8.1	7.4	7.8	---	---	---	18.0	16.7	17.3
MONTH	6.7	-0.1	3.5	13.0	-0.1	5.2	17.8	5.2	11.9	19.2	13.4	16.2
	JUNE			JULY			AUGUST			SEPTEMBER		
1	19.8	16.3	17.7	25.3	21.3	22.9	24.4	22.5	23.5	21.6	18.4	20.6
2	19.3	16.4	17.7	24.6	21.7	23.1	24.3	23.0	23.6	21.1	19.6	20.6
3	17.7	17.0	17.4	24.7	22.7	23.5	23.3	22.0	22.8	21.0	19.3	19.9
4	17.7	16.8	17.3	24.7	20.6	23.3	23.4	21.9	22.3	21.1	19.5	20.1
5	19.1	16.4	17.5	21.7	19.5	20.3	22.8	22.2	22.5	21.1	20.2	20.7
6	18.9	16.8	17.6	23.0	19.1	20.8	23.6	22.4	22.6	21.2	20.5	20.9
7	19.3	17.1	17.9	22.2	20.6	21.5	22.9	22.6	22.7	21.1	20.6	20.9
8	18.1	16.8	17.3	23.3	21.8	22.4	23.0	22.7	22.8	21.0	20.6	20.8
9	19.3	16.6	17.8	23.0	22.7	22.8	23.2	22.7	23.0	21.7	20.6	21.3
10	18.8	17.2	17.9	23.9	22.9	23.3	23.3	22.9	23.1	21.5	20.2	21.0
11	20.1	17.9	18.8	24.4	23.4	24.1	23.4	23.1	23.3	21.6	20.2	20.7
12	19.2	16.8	18.3	24.7	24.4	24.6	23.9	23.3	23.5	22.3	20.2	21.0
13	21.3	18.9	19.7	24.8	24.6	24.7	24.0	23.2	23.6	22.4	20.0	20.9
14	19.6	18.8	19.2	24.9	24.0	24.4	23.9	23.4	23.7	21.6	20.1	20.6
15	20.5	18.5	19.7	24.0	23.9	24.0	24.0	23.6	23.8	21.7	19.9	20.6
16	21.2	20.1	20.7	24.1	23.8	23.9	24.1	23.8	24.0	23.0	19.6	20.9
17	21.4	20.7	21.0	24.1	23.8	24.0	25.2	24.1	24.8	22.9	19.5	20.8
18	21.3	20.5	20.9	24.1	24.0	24.0	25.2	24.2	24.6	23.2	19.9	21.1
19	22.3	20.5	21.4	24.3	24.0	24.2	24.8	23.8	24.3	20.7	19.5	20.2
20	22.3	21.0	21.6	24.3	24.0	24.2	25.1	23.5	24.2	22.3	18.9	20.3
21	22.0	20.3	21.2	24.3	24.1	24.2	25.4	23.5	24.2	22.0	18.6	19.9
22	22.5	19.8	20.9	24.4	24.0	24.1	25.7	22.4	24.3	20.0	18.1	19.2
23	23.3	19.5	21.0	24.3	23.9	24.1	25.8	22.9	24.2	20.8	18.5	19.6
24	23.2	19.2	20.8	24.1	23.7	23.9	25.8	22.8	23.9	20.2	18.4	19.5
25	23.4	19.4	21.0	24.0	23.5	23.7	26.2	23.3	24.4	19.6	18.4	19.0
26	21.5	19.9	20.6	23.8	23.4	23.6	25.5	23.6	24.2	18.4	16.7	18.1
27	23.1	19.5	21.0	23.7	23.4	23.5	26.7	23.2	24.5	18.0	16.9	17.3
28	21.8	20.0	20.8	23.6	23.2	23.4	26.9	22.8	24.5	17.0	16.3	16.6
29	23.0	20.3	21.5	23.8	22.9	23.3	24.2	21.9	23.4	16.6	15.8	16.3
30	23.5	20.9	21.9	24.1	23.1	23.5	25.4	22.7	23.6	15.9	15.4	15.7
31	---	---	---	24.1	23.3	23.6	23.1	21.6	22.7	---	---	---
MONTH	23.5	16.3	19.6	25.3	19.1	23.4	26.9	21.6	23.6	23.2	15.4	19.8

03324000 LITTLE RIVER NEAR HUNTINGTON, IN

LOCATION.--Lat 40°54'14", long 85°24'22", in NE¼NW¼ sec.9, T.28 N., R.10 E., Huntington County, Hydrologic Unit 05120101, (HUNTINGTON, IN. quadrangle), on right bank on upstream side of former highway bridge, 0.5 mi upstream of County Road 200 East bridge, 5 mi east of Huntington, and at mile 7.5.

DRAINAGE AREA.--263 mi².

PERIOD OF RECORD.--October 1943 to current year. Prior to January 1944 monthly discharge only, published in WSP 1305. Published as Little River at Huntington, January 1944 to September 1948, Little River near Huntington, October 1948 to September 1956, and Little Wabash River near Huntington, October 1956 to September 1961.

REVISED RECORDS.--WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 728.10 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1948, nonrecording gage 4 mi downstream at datum 8.79 ft lower, and Oct. 1, 1948, to Sept. 5, 1950, nonrecording gage at present site and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. During periods of extreme high water in the St. Marys River, some water leaves the St. Marys River Basin through Junk Ditch and flows into Little River Basin via Graham McCulloch Ditch.

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	21	25	20	573	e33	e34	292	55	81	38	86	686
2	21	23	21	220	e38	e33	227	135	61	53	1,250	1,670
3	20	23	22	110	68	e32	162	117	65	55	1,250	989
4	20	24	22	72	651	e32	399	80	87	57	738	450
5	29	25	19	57	494	e45	2,630	1,930	74	1,430	779	253
6	28	32	21	51	311	e72	1,860	2,010	61	1,240	310	163
7	22	33	21	42	188	e70	1,130	940	57	3,390	182	119
8	19	30	21	46	e110	e80	1,050	2,090	57	3,740	127	93
9	19	27	21	110	e80	e560	597	3,150	60	3,500	130	76
10	20	56	21	258	e68	e430	416	3,730	53	2,610	101	67
11	18	401	20	e130	e58	e340	308	3,040	52	1,610	80	59
12	18	134	20	e90	e50	e290	225	2,220	193	740	74	52
13	19	55	20	e70	e42	1,190	172	1,130	547	449	69	50
14	19	35	18	e58	e37	857	139	578	1,730	310	66	49
15	18	28	18	e50	e33	694	125	1,220	744	241	63	112
16	18	24	17	e45	e31	725	115	736	318	203	57	94
17	18	25	18	e40	e32	645	100	444	202	166	56	64
18	18	22	17	e38	e33	514	89	320	184	142	54	53
19	21	21	29	e38	e35	381	81	238	123	122	50	47
20	29	22	161	e39	e35	386	76	242	91	103	47	44
21	22	21	136	e38	e38	834	73	233	74	657	45	41
22	21	25	62	e35	e70	515	69	161	66	1,250	45	296
23	20	35	e36	e33	e180	309	63	132	59	964	47	503
24	19	33	e35	e31	e130	216	58	114	52	499	43	250
25	21	27	e37	e29	e90	169	59	102	48	274	38	868
26	37	24	e32	e30	e70	135	67	88	47	173	57	524
27	43	23	e30	e28	e52	111	61	79	47	129	203	2,240
28	29	21	e26	e29	e41	117	53	73	45	243	82	1,450
29	23	20	e23	e31	---	1,420	50	76	45	165	68	625
30	23	21	26	e32	---	757	48	71	44	112	128	366
31	24	---	510	e31	---	403	---	82	---	99	79	---
TOTAL	697	1,315	1,500	2,484	3,098	12,396	10,794	25,616	5,367	24,764	6,404	12,353
MEAN	22.5	43.8	48.4	80.1	111	400	360	826	179	799	207	412
MAX	43	401	510	573	651	1,420	2,630	3,730	1,730	3,740	1,250	2,240
MIN	18	20	17	28	31	32	48	55	44	38	38	41
CFSM	0.09	0.17	0.18	0.30	0.42	1.52	1.37	3.14	0.68	3.04	0.79	1.57
IN.	0.10	0.19	0.21	0.35	0.44	1.75	1.53	3.62	0.76	3.50	0.91	1.75

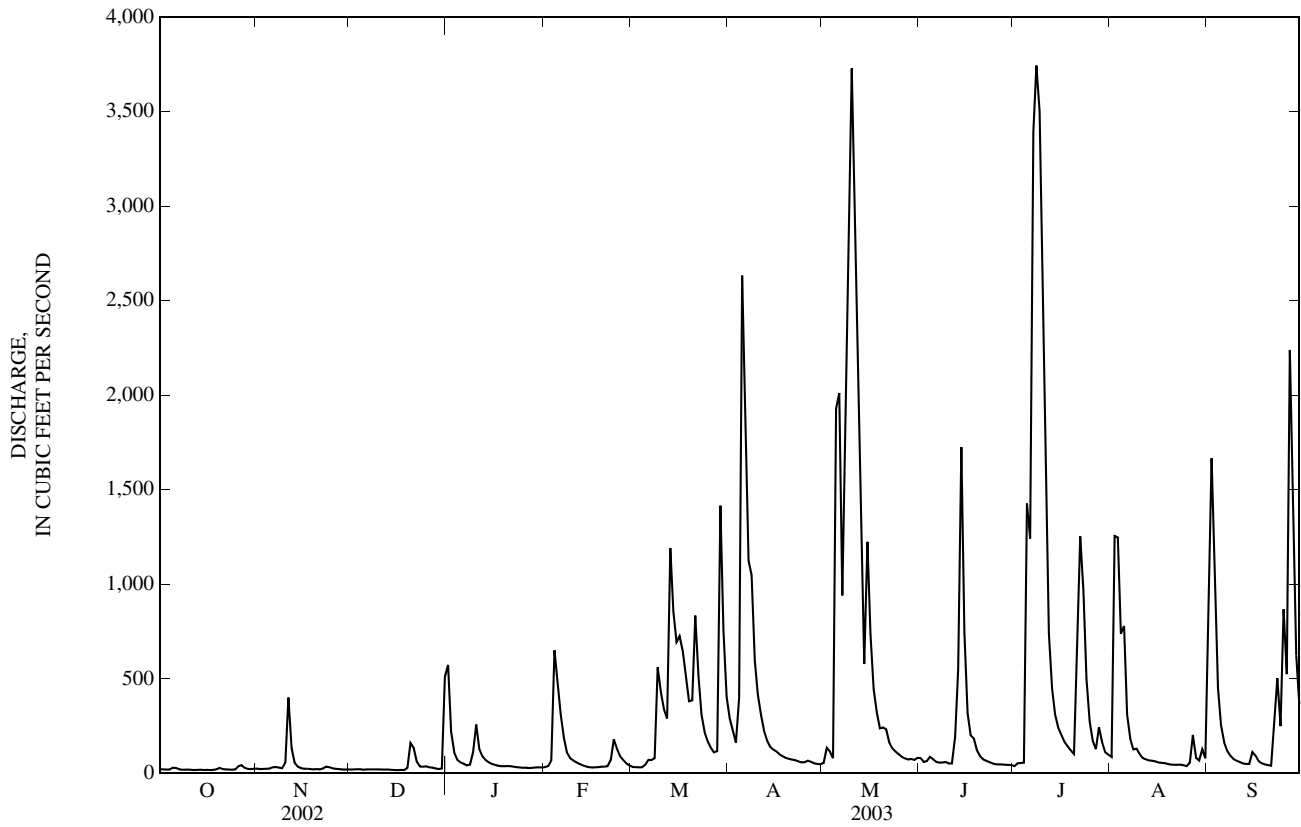
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2003, BY WATER YEAR (WY)

MEAN	95.3	157	271	319	395	474	419	254	241	129	67.1	64.5
MAX	906	1,137	1,010	1,693	1,164	1,765	1,396	826	968	799	501	414
(WY)	(2002)	(1993)	(1967)	(1950)	(1959)	(1982)	(1957)	(2003)	(2000)	(2003)	(1958)	(1992)
MIN	5.72	10.2	8.93	6.25	17.5	90.7	40.3	35.2	22.3	15.9	7.76	4.22
(WY)	(1963)	(1965)	(1964)	(1977)	(1964)	(1981)	(1946)	(1963)	(1988)	(1962)	(1963)	(1962)

03324000 LITTLE RIVER NEAR HUNTINGTON, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1945 - 2003	
ANNUAL TOTAL	80,158		106,788			
ANNUAL MEAN	220		293		240	
HIGHEST ANNUAL MEAN					450	1950
LOWEST ANNUAL MEAN					67.0	1954
HIGHEST DAILY MEAN	3,230	Feb 1	3,740	Jul 8	5,610	Mar 14, 1982
LOWEST DAILY MEAN	17	Dec 16	17	Dec 16	1.1	Oct 8, 1946
ANNUAL SEVEN-DAY MINIMUM	18	Oct 11	18	Oct 11	1.8	Oct 7, 1946
MAXIMUM PEAK FLOW			3,860	May 10	5,990	Jan 4, 1950
MAXIMUM PEAK STAGE			15.93	May 10	19.50	Feb 25, 1985
ANNUAL RUNOFF (CF5M)	0.84		1.11		0.91	
ANNUAL RUNOFF (INCHES)	11.34		15.10		12.37	
10 PERCENT EXCEEDS	570		766		600	
50 PERCENT EXCEEDS	62		68		69	
90 PERCENT EXCEEDS	20		21		15	

e Estimated



03324300 SALAMONIE RIVER NEAR WARREN, IN

LOCATION.--Lat 40°42'45", long 85°27'13", in SE¹/₄SE¹/₄ sec.12, T.26 N., R.9 E., Huntington County, Hydrologic Unit 05120102, (WARREN, IN quadrangle), on right bank at downstream side of bridge on County Road 800 South, 0.4 mi downstream from Detamore Ditch, 0.4 mi downstream from Interstate 69, 0.8 mi upstream from concrete and stone dam, 2.4 mi northwest of Warren, and at mile 30.0.

DRAINAGE AREA.--425 mi².

PERIOD OF RECORD.--March 1957 to current year.

REVISED RECORDS.--WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 784.65 ft above National Geodetic Vertical Datum of 1929, (levels by State of Indiana, Department of Natural Resources). Prior to July 28, 1960, nonrecording gage at same site and datum.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	64	49	3,450	e30	e125	377	119	113	71	266	787
2	16	37	44	2,120	41	e110	293	1,110	96	88	3,000	4,340
3	15	27	38	747	67	e100	233	676	104	95	3,650	4,560
4	15	29	36	343	e1,200	e95	397	341	161	248	2,580	3,420
5	15	33	e34	240	e2,250	e124	1,690	4,580	162	7,230	2,010	672
6	14	45	e32	196	e650	e1,020	701	4,050	128	6,810	870	267
7	15	54	e31	170	e275	e920	661	1,260	109	9,140	374	152
8	21	89	e30	175	e190	e560	1,120	1,340	102	9,780	211	105
9	20	69	30	809	e165	e2,250	625	4,270	94	9,800	259	79
10	18	180	30	1,380	e125	e3,500	422	4,610	86	8,530	1,010	65
11	17	1,630	30	480	e100	e1,880	325	6,140	86	7,350	398	54
12	17	728	30	157	e89	e2,380	267	5,290	480	4,840	325	45
13	16	234	32	e124	e75	e3,750	214	3,660	973	1,440	287	41
14	18	128	32	e100	e63	e3,850	181	950	1,450	710	282	41
15	20	89	33	e89	e55	3,510	165	1,450	883	382	112	53
16	17	73	33	e78	e50	2,290	157	1,150	350	287	79	49
17	15	69	30	e70	e45	1,820	151	574	219	219	62	42
18	15	65	36	e62	45	1,320	141	393	169	170	51	37
19	18	58	971	e57	45	915	131	313	171	140	44	34
20	18	51	2,290	e52	49	1,010	126	266	123	117	38	34
21	19	50	1,340	e47	65	1,220	127	221	97	166	36	34
22	20	59	394	e45	124	1,560	129	183	84	217	38	403
23	23	93	208	e41	383	676	121	162	75	191	37	612
24	23	141	133	e38	1,410	443	109	146	70	222	36	355
25	28	138	90	e36	825	337	112	134	65	125	38	1,950
26	31	97	e74	e35	393	279	127	124	65	90	38	1,240
27	44	74	e65	e33	266	297	122	112	69	80	42	4,970
28	45	62	e62	e33	185	340	111	102	85	72	44	3,850
29	28	55	60	e32	---	1,910	106	103	77	66	65	1,210
30	29	55	225	e31	---	1,200	104	97	70	63	75	521
31	38	---	2,960	e31	---	546	---	122	---	55	127	---
TOTAL	666	4,576	9,482	11,301	9,260	40,337	9,545	44,048	6,816	68,794	16,484	30,022
MEAN	21.5	153	306	365	331	1,301	318	1,421	227	2,219	532	1,001
MAX	45	1,630	2,960	3,450	2,250	3,850	1,690	6,140	1,450	9,800	3,650	4,970
MIN	14	27	30	31	30	95	104	97	65	55	36	34
CFSM	0.05	0.36	0.72	0.86	0.78	3.06	0.75	3.34	0.53	5.22	1.25	2.35
IN.	0.06	0.40	0.83	0.99	0.81	3.53	0.84	3.86	0.60	6.02	1.44	2.63

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2003, BY WATER YEAR (WY)

	112	297	472	484	631	846	701	405	363	279	149	112
MEAN	112	297	472	484	631	846	701	405	363	279	149	112
MAX	1,486	1,794	1,685	1,724	1,906	2,616	2,214	1,421	2,312	2,219	1,363	1,001
(WY)	(2002)	(1993)	(1991)	(1974)	(1976)	(1978)	(1964)	(2003)	(1958)	(2003)	(1998)	(2003)
MIN	8.13	13.1	11.4	6.12	19.2	103	74.5	32.8	16.7	23.8	11.8	9.22
(WY)	(1964)	(2000)	(1977)	(1977)	(1964)	(1981)	(1976)	(1988)	(1988)	(1967)	(1965)	(1963)

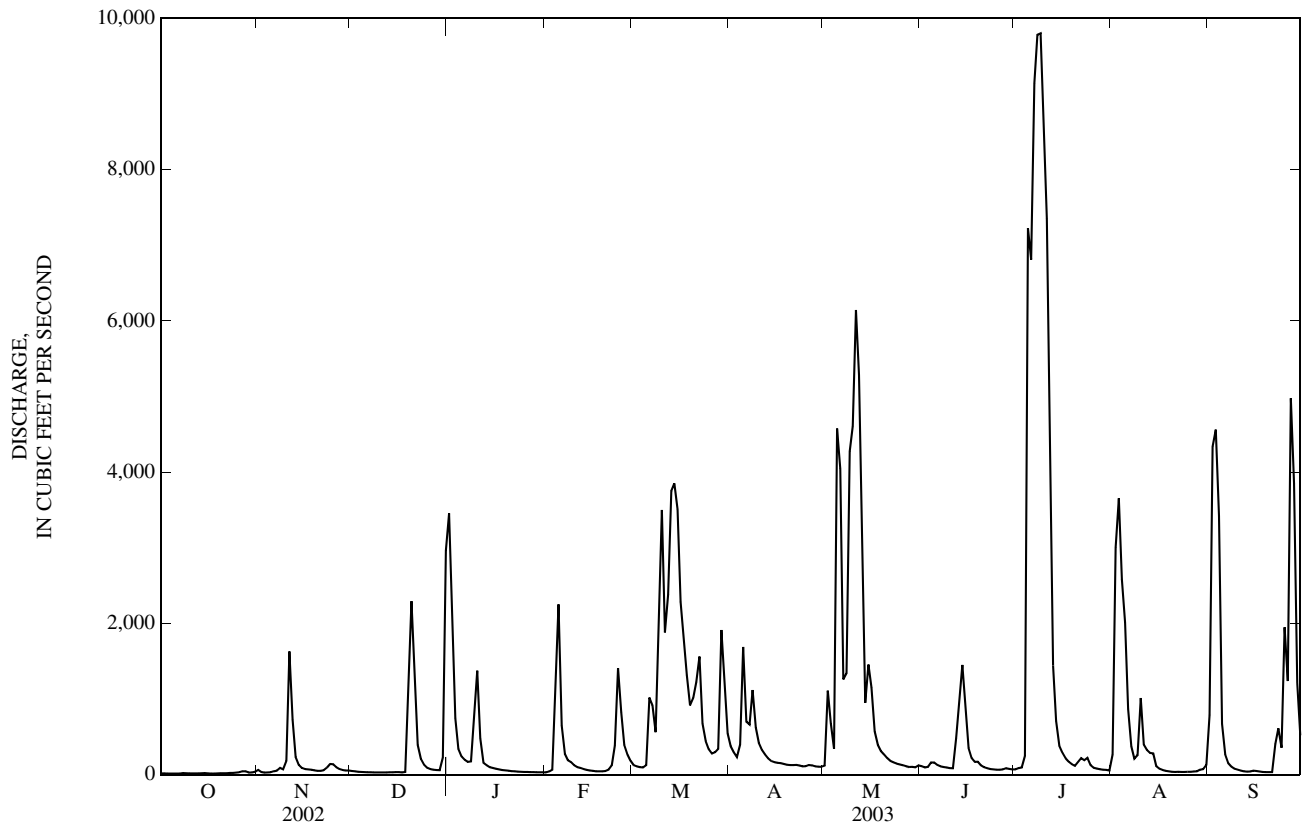
SUMMARY STATISTICS

FOR 2002 CALENDAR YEAR

FOR 2003 WATER YEAR

WATER YEARS 1958 - 2003

ANNUAL TOTAL	138,525	251,331	
ANNUAL MEAN	380	689	403
HIGHEST ANNUAL MEAN			689
LOWEST ANNUAL MEAN			109
HIGHEST DAILY MEAN	6,290	Mar 31	9,800
LOWEST DAILY MEAN	14	Oct 6	14
ANNUAL SEVEN-DAY MINIMUM	15	Oct 1	15
MAXIMUM PEAK FLOW			10,400
MAXIMUM PEAK STAGE			14.96
ANNUAL RUNOFF (CFSM)	0.89		1.62
ANNUAL RUNOFF (INCHES)	12.13		22.00
10 PERCENT EXCEEDS	947		1,970
50 PERCENT EXCEEDS	73		122
90 PERCENT EXCEEDS	19		31



WATER-QUALITY RECORDS

INSTRUMENTATION.--Temperature recorder.

PERIOD OF RECORD.--

WATER TEMPERATURE.--October 1987 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 28.2°C, Aug. 4, 1997; minimum, -0.3°C, Jan. 7-8, 10, 1990; Jan. 4, 24-26, Dec. 11-13, 19-20, 1995; Jan. 24-28, 1996; Jan. 12-13, 19, 25-31, Feb. 1-10, 12, 1997; and Jan. 21-27, 29, 1999.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 23.8°C, Sept. 1, minimum, 0.3°C, Mar. 13 - 14.

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.8	20.5	20.7	11.4	10.9	11.1	4.4	4.0	4.2	2.7	1.8	2.1
2	21.0	20.7	20.8	10.9	10.5	10.7	4.1	3.7	4.0	3.0	2.7	2.8
3	21.1	20.7	20.9	10.5	10.3	10.4	3.7	3.2	3.4	3.1	2.8	3.0
4	21.3	20.9	21.1	10.3	9.9	10.1	3.2	2.8	3.1	2.8	2.4	2.6
5	21.1	20.9	21.0	9.9	9.6	9.8	3.1	2.5	2.8	2.4	2.1	2.2
6	20.9	20.7	20.8	9.6	9.4	9.5	2.7	2.2	2.4	2.3	2.1	2.2
7	20.7	20.1	20.4	9.4	9.3	9.4	2.7	2.3	2.4	2.1	1.7	1.9
8	20.1	19.8	19.9	9.4	9.3	9.3	2.6	2.0	2.3	1.8	1.7	1.7
9	19.8	19.4	19.6	9.7	9.3	9.4	2.4	1.9	2.1	1.8	1.7	1.8
10	19.4	19.2	19.3	9.9	9.7	9.8	2.5	2.0	2.2	1.8	1.4	1.6
11	19.2	19.0	19.1	9.8	9.4	9.5	2.6	2.3	2.4	1.4	1.1	1.2
12	19.1	18.9	19.0	9.4	9.0	9.2	2.6	2.2	2.4	1.3	1.0	1.2
13	18.9	18.5	18.7	9.0	8.9	8.9	2.6	2.4	2.5	1.3	1.1	1.2
14	18.5	18.1	18.3	9.0	8.9	8.9	2.7	2.4	2.5	1.3	1.1	1.2
15	18.1	17.5	17.8	8.9	8.7	8.8	2.9	2.3	2.5	1.2	1.0	1.1
16	17.5	17.0	17.3	8.7	8.4	8.5	2.7	2.3	2.5	1.3	1.0	1.1
17	17.0	16.6	16.8	8.4	8.0	8.2	2.5	2.4	2.5	1.3	1.1	1.2
18	16.6	16.3	16.4	8.0	7.9	7.9	2.9	2.5	2.7	1.3	1.1	1.2
19	16.3	15.7	16.0	7.9	7.7	7.8	3.1	2.7	2.8	1.3	1.1	1.2
20	15.7	15.3	15.5	7.8	7.6	7.7	3.1	2.8	3.0	1.4	1.1	1.2
21	15.4	15.1	15.2	7.7	7.6	7.7	2.8	2.7	2.7	1.4	1.1	1.2
22	15.1	14.7	14.9	7.6	7.2	7.4	2.9	2.7	2.8	1.3	1.1	1.2
23	14.7	14.4	14.6	7.2	6.9	7.1	2.8	2.7	2.8	1.2	0.9	1.1
24	14.4	14.1	14.3	6.9	6.6	6.8	2.7	2.2	2.5	1.3	0.9	1.0
25	14.1	13.5	13.8	6.6	6.4	6.5	2.6	2.2	2.4	1.5	1.0	1.2
26	13.5	13.1	13.3	6.4	6.0	6.2	2.3	1.9	2.1	1.4	0.9	1.2
27	13.1	12.6	12.9	6.0	5.7	5.8	1.9	1.3	1.6	1.4	0.8	1.0
28	13.3	12.6	12.7	5.7	5.2	5.5	1.5	1.3	1.4	1.6	1.0	1.2
29	12.6	12.2	12.4	5.2	5.0	5.1	1.6	1.4	1.4	1.4	1.1	1.2
30	12.2	11.7	12.0	5.0	4.4	4.8	1.8	1.4	1.5	1.5	1.0	1.2
31	11.7	11.4	11.6	---	---	---	2.0	1.7	1.9	1.5	1.1	1.3
MONTH	21.3	11.4	17.0	11.4	4.4	8.3	4.4	1.3	2.5	3.1	0.8	1.5

03325000 WABASH RIVER AT WABASH, IN

LOCATION.--Lat 40°47'25", long 85°49'13", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.14, T.27 N., R.6 E., Wabash County, Hydrologic Unit 05120101, (WABASH, IN, quadrangle), on right bank on upstream side of Wabash Street bridge in Wabash, 0.3 mi upstream of Huntington Road bridge, 7.1 mi downstream from Salamonie River, and at mile 387.2.

DRAINAGE AREA.--1,768 mi².

PERIOD OF RECORD.--August 1923 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 1275: 1931-37(M), 1938-39, 1940(M), WSP 1385: 1942. WSP 1505: 1955. WSP 2109: Drainage area. WDR IN-84-1: 1983.

GAGE.--Water-stage recorder. Datum of gage is 642.66 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 30, 1954, nonrecording gage at same site and datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by Salamonie Lake beginning April 1967 and by Huntington Lake beginning October 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 28.7 ft Mar. 26, 1913, from floodmark, determined by U.S. Army Corps of Engineers, discharge, 90,000 ft³/s, from rating curve extended above 49,000 ft³/s.

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	537	e510	252	5,310	275	664	1,840	238	2,760	419	e5,000	4,450
2	561	e500	240	5,250	250	565	1,330	256	1,260	403	e5,100	5,510
3	593	e490	237	4,560	275	400	1,090	1,050	1,110	810	e4,700	3,600
4	e620	e460	192	4,230	1,110	362	1,350	1,180	726	926	4,490	4,050
5	e660	e470	e182	2,560	2,980	405	5,890	4,540	716	7,280	5,120	4,830
6	e680	e500	e160	1,290	2,430	559	5,950	4,470	815	4,390	4,620	4,800
7	e660	e540	e158	855	1,540	1,340	5,210	4,450	728	13,500	5,130	4,750
8	e650	519	e160	780	702	2,510	4,220	7,340	477	9,490	5,050	4,500
9	644	506	e154	870	506	4,350	3,290	11,000	478	9,780	5,060	4,410
10	625	565	e156	2,140	498	5,400	2,530	7,820	542	8,080	4,960	4,450
11	610	981	158	2,670	483	5,430	1,690	6,890	476	11,300	4,920	4,320
12	604	1,950	146	1,750	430	5,000	1,390	6,260	1,030	13,000	4,970	4,840
13	606	2,140	146	858	329	6,450	1,090	6,580	3,540	12,000	5,020	4,720
14	597	1,770	140	448	285	7,430	923	6,780	5,910	11,100	5,010	3,300
15	584	1,370	132	543	248	7,770	737	7,830	4,270	7,670	4,950	622
16	594	1,010	129	583	327	8,050	622	7,000	4,730	7,830	4,860	673
17	605	553	124	635	320	7,790	588	7,420	4,990	8,110	4,890	526
18	623	582	137	625	264	7,250	538	7,550	4,540	8,040	4,910	534
19	627	551	293	518	251	5,280	487	7,610	2,900	8,040	3,860	523
20	552	500	1,690	465	244	3,870	480	7,780	2,350	7,890	3,160	507
21	520	528	3,800	405	236	4,070	438	6,390	1,650	7,340	2,740	456
22	579	608	3,110	400	287	4,650	409	5,260	1,090	7,340	3,550	938
23	572	622	1,680	344	509	4,170	351	5,130	744	7,300	2,790	1,900
24	556	639	982	323	912	2,740	288	5,020	505	6,930	2,400	2,630
25	571	718	579	320	1,270	1,850	246	5,020	453	7,280	2,410	4,300
26	579	718	278	288	1,310	1,370	231	4,970	428	7,500	2,310	4,620
27	576	603	315	245	1,180	895	219	4,810	398	7,810	2,200	7,070
28	479	594	328	231	565	1,050	209	4,790	386	7,070	2,140	4,450
29	537	586	376	236	---	3,760	201	4,920	409	5,550	2,360	3,700
30	532	475	355	273	---	5,390	192	5,010	451	5,390	2,290	4,520
31	526	---	1,980	282	---	3,550	---	4,770	---	5,260	2,160	---
TOTAL	18,259	22,558	18,769	40,287	20,016	114,370	44,029	170,134	50,862	224,828	123,130	100,499
MEAN	589	752	605	1,300	715	3,689	1,468	5,488	1,695	7,253	3,972	3,350
MAX	680	2,140	3,800	5,310	2,980	8,050	5,950	11,000	5,910	13,500	5,130	7,070
MIN	479	460	124	231	236	362	192	238	386	403	2,140	456
CFSM	0.33	0.43	0.34	0.74	0.40	2.09	0.83	3.10	0.96	4.10	2.25	1.89
IN.	0.38	0.47	0.39	0.85	0.42	2.41	0.93	3.58	1.07	4.73	2.59	2.11

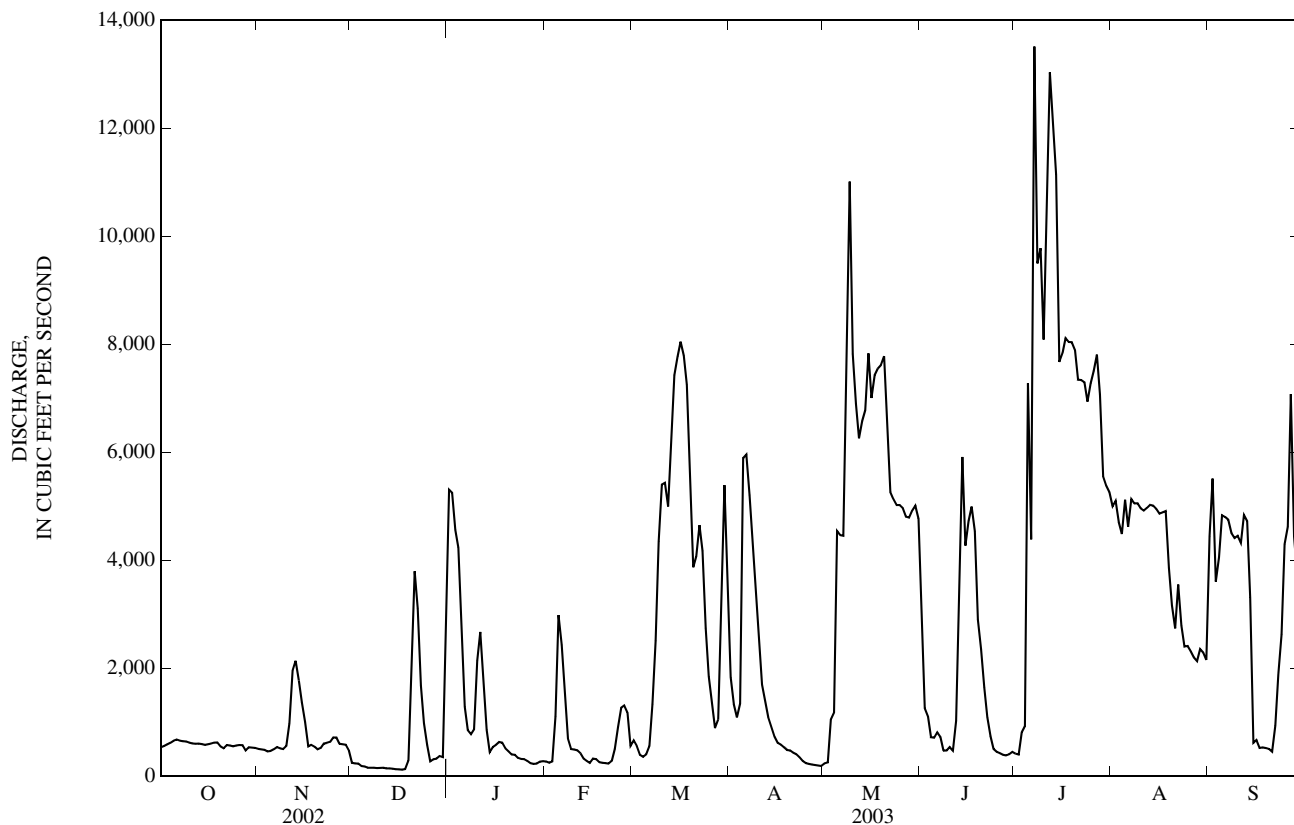
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 2003, BY WATER YEAR (WY)

MEAN	632	978	1,723	2,175	2,430	3,052	2,657	1,669	1,413	916	562	537
MAX	3,667	5,044	5,829	13,260	7,764	8,144	11,060	10,410	8,260	7,253	4,887	5,676
(WY)	(2002)	(1993)	(1968)	(1950)	(1959)	(1982)	(1957)	(1943)	(1958)	(2003)	(1998)	(1926)
MIN	32.3	61.7	56.0	72.8	114	177	264	135	78.3	55.4	43.4	29.9
(WY)	(1964)	(1965)	(1964)	(1977)	(1964)	(1941)	(1971)	(1941)	(1988)	(1934)	(1941)	(1941)

03325000 WABASH RIVER AT WABASH, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1924 - 2003	
ANNUAL TOTAL	533,735		947,741		1,559	
ANNUAL MEAN	1,462		2,597		2,994	
HIGHEST ANNUAL MEAN					276	
LOWEST ANNUAL MEAN					1931	
HIGHEST DAILY MEAN	7,400	Feb 1	13,500	Jul 7	47,800	May 18, 1943
LOWEST DAILY MEAN	84	Aug 10	124	Dec 17	17	Aug 3, 1934
ANNUAL SEVEN-DAY MINIMUM	88	Aug 7	136	Dec 12	18	Aug 3, 1934
MAXIMUM PEAK FLOW			14,800		49,600	
MAXIMUM PEAK STAGE			16.58		24.44	
ANNUAL RUNOFF (CFSM)	0.83		1.47		0.88	
ANNUAL RUNOFF (INCHES)	11.23		19.94		11.98	
10 PERCENT EXCEEDS	4,570		7,030		4,650	
50 PERCENT EXCEEDS	582		1,050		539	
90 PERCENT EXCEEDS	142		274		89	

e Estimated



03325500 MISSISSINAWA RIVER NEAR RIDGEVILLE, IN

LOCATION.--Lat 40°16'48", long 84°59'33", in NW¼NW¼ sec.17, T.21 N., R.14 E., Randolph County, Hydrologic Unit 05120103, (DEERFIELD, IN. quadrangle), on left bank 800 ft upstream from county road bridge, 0.6 mi downstream from Mud Creek, 2 mi east of Ridgeville, and at mile 99.7.

DRAINAGE AREA.--133 mi².

PERIOD OF RECORD.--August 1946 to current year.

REVISED RECORDS.--WSP 1235: 1948. WSP 1335: 1953. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 965.28 ft above National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to Oct. 5, 1950, nonrecording gage at site 800 ft downstream, at same datum. Oct. 5, 1950 to Oct. 15, 1994, water-stage recorder, at site 800 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	1.9	11	8.1	1,110	e23	e53	96	26	26	26	18	1,770
2	1.7	9.7	6.8	538	e28	e45	76	31	20	22	135	3,970
3	2.2	8.8	e6.6	226	e70	e40	67	26	51	19	190	1,720
4	3.0	8.4	6.4	134	587	e60	64	23	71	18	120	351
5	6.3	10	6.4	102	e100	e160	323	437	47	2,730	291	173
6	6.0	14	5.9	85	e70	e520	147	205	33	1,490	80	105
7	4.8	19	5.6	78	e56	164	324	164	31	2,900	45	69
8	3.8	14	6.1	102	e46	566	273	114	28	2,010	30	51
9	3.9	11	5.7	574	e39	1,400	171	160	25	4,120	48	41
10	3.8	70	5.6	286	e34	402	127	700	20	2,890	119	32
11	4.0	200	6.3	e110	e30	328	102	1,640	25	637	74	27
12	4.5	43	6.6	e80	e27	489	82	473	295	263	90	23
13	4.4	18	6.7	e60	e25	1,810	65	212	348	159	58	22
14	3.9	12	7.7	e50	e23	859	58	128	539	111	28	21
15	3.8	10	8.1	e43	e22	598	54	426	205	86	21	22
16	4.5	9.7	7.9	e38	e21	586	51	161	110	72	19	20
17	4.7	9.0	8.4	e34	e20	476	45	104	250	56	17	18
18	5.1	8.9	41	e31	e20	329	41	121	332	47	14	16
19	7.5	8.5	838	e29	e20	238	35	96	123	38	13	16
20	9.2	7.8	861	e27	e21	341	35	79	72	32	12	16
21	10	7.5	222	e26	e21	705	38	63	54	48	12	15
22	7.9	8.7	104	e25	e120	402	34	53	43	65	11	73
23	7.4	10	62	e24	e380	209	28	46	35	126	10	110
24	7.3	15	41	e24	e340	144	27	40	30	67	9.1	58
25	8.9	15	e33	e23	e210	127	30	36	26	41	8.7	134
26	16	12	e27	e23	e140	339	32	31	27	30	8.8	91
27	8.2	10	e23	e22	e100	169	24	28	37	26	9.0	1,670
28	5.4	8.7	e20	e22	e78	119	22	27	27	26	8.6	476
29	8.8	8.3	19	e21	---	262	23	28	62	23	9.4	248
30	15	8.6	539	e21	---	159	22	24	38	20	21	148
31	15	---	1,830	e21	---	113	---	34	---	18	15	---
TOTAL	198.9	606.6	4,774.9	3,989	2,671	12,212	2,516	5,736	3,030	18,216	1,544.6	11,506
MEAN	6.42	20.2	154	129	95.4	394	83.9	185	101	588	49.8	384
MAX	16	200	1,830	1,110	587	1,810	324	1,640	539	4,120	291	3,970
MIN	1.7	7.5	5.6	21	20	40	22	23	20	18	8.6	15
CFSM	0.05	0.15	1.16	0.97	0.72	2.96	0.63	1.39	0.76	4.42	0.37	2.88
IN.	0.06	0.17	1.34	1.12	0.75	3.42	0.70	1.60	0.85	5.10	0.43	3.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2003, BY WATER YEAR (WY)

MEAN	34.2	90.6	147	178	204	248	222	129	144	103	37.4	35.9
MAX	314	729	872	865	548	714	810	371	1,417	709	454	384
(WY)	(2002)	(1994)	(1991)	(1950)	(1950)	(1978)	(1964)	(2002)	(1958)	(1979)	(1979)	(2003)
MIN	1.25	1.82	2.62	3.25	5.00	46.1	25.8	15.3	6.52	2.37	2.13	0.99
(WY)	(1947)	(1954)	(1964)	(1977)	(1964)	(1957)	(1976)	(1988)	(1988)	(1952)	(1983)	(1954)

SUMMARY STATISTICS

FOR 2002 CALENDAR YEAR

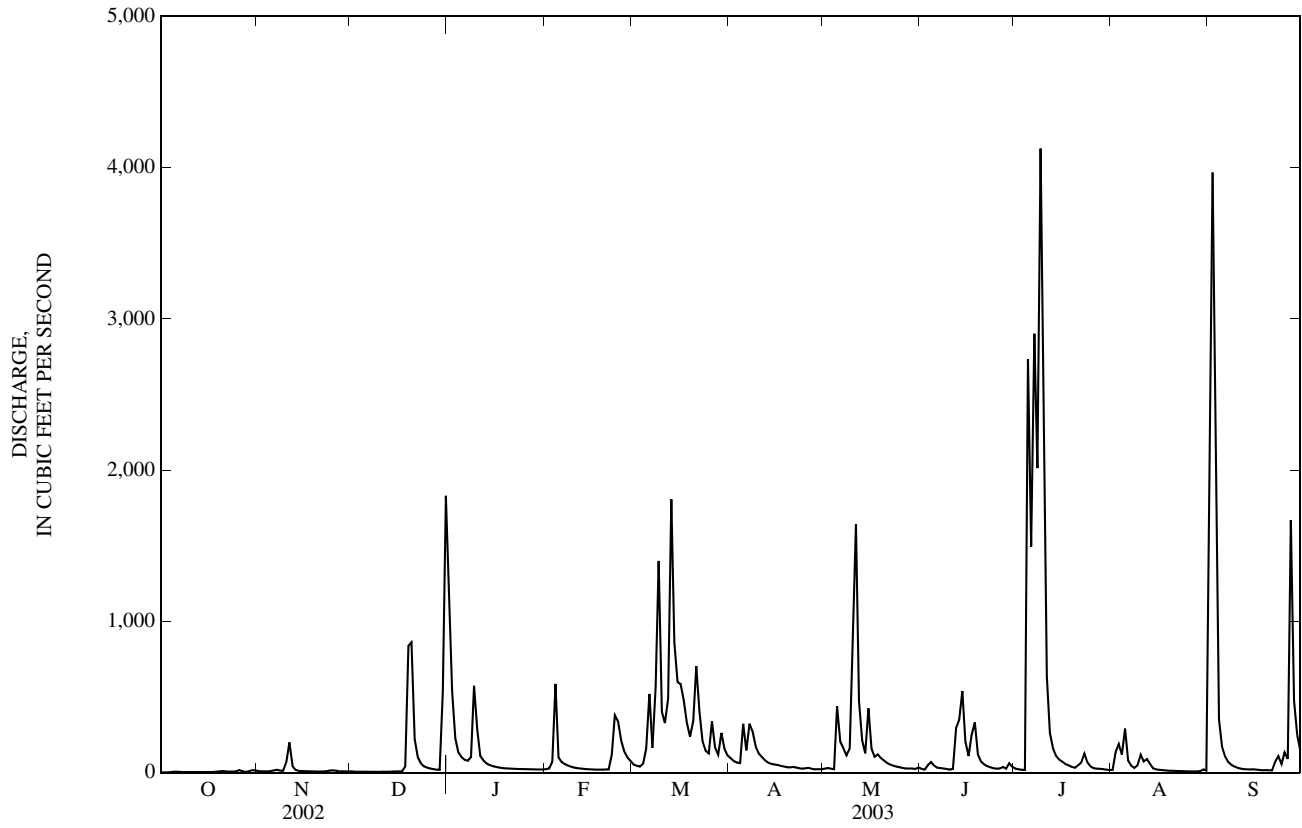
FOR 2003 WATER YEAR

WATER YEARS 1947 - 2003

ANNUAL TOTAL	48,973.5	67,001.0	
ANNUAL MEAN	134	184	131
HIGHEST ANNUAL MEAN			223
LOWEST ANNUAL MEAN			29.8
HIGHEST DAILY MEAN	3,750	May 13	11,300
LOWEST DAILY MEAN	1.3	Sep 8	0.10
ANNUAL SEVEN-DAY MINIMUM	1.3	Sep 12	0.23
MAXIMUM PEAK FLOW			13,900
MAXIMUM PEAK STAGE			16.25
ANNUAL RUNOFF (CFSM)	1.01		0.98
ANNUAL RUNOFF (INCHES)	13.70		13.33
10 PERCENT EXCEEDS	231		277
50 PERCENT EXCEEDS	19		29
90 PERCENT EXCEEDS	3.1		3.9

e Estimated

03325500 MISSISSINEWA RIVER NEAR RIDGEVILLE, IN—Continued



03326070 BIG LICK CREEK NEAR HARTFORD CITY, IN

LOCATION.--Lat 40°25'20", long 85°21'04", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.23, T.23 N., R.10 E., Blackford County, Hydrologic Unit 05120103, (HARTFORD CITY EAST, IN quadrangle), on right bank 6 ft downstream from bridge on County Road 100 East, 0.10 mi north of intersection of County Road 100 South and County Road 100 East, 1.0 mi east of intersection of State Road 3 and County Road 200 South, and 2.0 mi southeast of Hartford City.

DRAINAGE AREA.--29.2 mi².

PERIOD OF RECORD.--July 1971 to October 2003 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 865.00 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	1.5	3.3	4.3	182	e4.0	e7.4	19	17	2.7	0.99	23	780
2	1.5	2.4	3.9	89	e5.4	e6.6	14	100	1.8	0.73	697	510
3	1.4	2.2	3.1	39	e50	e5.9	11	29	11	0.62	540	98
4	1.5	2.2	2.7	29	220	e7.0	18	15	11	1.7	102	52
5	3.2	2.4	2.9	25	e35	e29	48	439	5.7	593	63	33
6	1.6	8.7	2.7	22	e16	e37	18	92	3.5	147	36	24
7	1.3	6.4	2.6	22	e9.7	e25	65	76	3.1	837	26	19
8	1.4	3.8	2.5	27	e7.0	e80	42	44	2.4	335	19	16
9	1.4	3.1	2.1	143	e5.8	262	24	179	1.9	1,100	35	13
10	1.5	191	2.2	67	e5.0	123	17	310	1.4	260	69	11
11	1.2	166	2.3	e22	e4.4	86	13	352	2.3	69	23	9.6
12	1.2	29	2.3	e14	e4.0	214	9.9	85	9.9	44	21	9.2
13	1.2	15	2.3	e11	e3.7	495	7.4	48	29	30	12	8.5
14	1.3	10	2.7	e8.4	e3.5	211	6.2	31	52	21	8.4	8.5
15	1.3	7.7	2.8	e6.4	e3.3	179	5.7	82	17	17	6.7	9.3
16	1.2	9.1	2.8	e5.7	e3.2	148	5.3	36	8.6	15	5.9	8.6
17	1.2	8.6	2.7	e5.2	e3.2	113	4.6	25	5.0	12	5.5	7.8
18	1.2	6.3	102	e4.8	e3.1	80	4.0	21	3.4	9.7	4.6	7.6
19	2.4	5.3	309	e4.5	e3.1	66	3.7	18	2.3	7.7	3.8	7.7
20	3.5	4.8	193	e4.1	e3.2	73	3.7	15	1.5	5.9	3.2	7.6
21	1.9	4.6	56	e3.9	e3.3	124	4.5	12	1.2	12	3.1	7.3
22	1.7	9.5	32	e3.7	e30	58	3.3	9.0	1.0	12	3.4	22
23	1.7	23	21	e3.6	e60	34	2.7	7.3	0.90	9.7	3.0	20
24	1.5	24	17	e3.5	e40	24	2.5	5.6	0.77	6.1	2.9	21
25	2.4	14	16	e3.4	e21	19	3.1	4.7	0.67	4.3	2.8	53
26	10	9.4	11	e3.4	e14	25	4.4	3.8	0.76	3.7	3.0	31
27	4.8	7.4	10	e3.3	e11	18	2.7	3.2	1.2	3.3	3.3	238
28	2.5	6.5	10	e3.3	e9.8	17	2.3	2.9	0.64	3.2	3.6	50
29	2.2	6.4	9.7	e3.2	---	176	2.4	3.2	1.1	2.9	11	28
30	13	5.9	212	e3.2	---	45	2.2	2.2	2.4	2.6	25	21
31	5.8	---	401	e3.2	---	26	---	5.8	---	2.3	11	---
TOTAL	79.5	598.0	1,446.6	768.8	581.7	2,813.9	369.6	2,073.7	186.14	3,569.44	1,776.2	2,131.7
MEAN	2.56	19.9	46.7	24.8	20.8	90.8	12.3	66.9	6.20	115	57.3	71.1
MAX	13	191	401	182	220	495	65	439	52	1,100	697	780
MIN	1.2	2.2	2.1	3.2	3.1	5.9	2.2	2.2	0.64	0.62	2.8	7.3
CFSM	0.09	0.68	1.60	0.85	0.71	3.11	0.42	2.29	0.21	3.94	1.96	2.43
IN.	0.10	0.76	1.84	0.98	0.74	3.58	0.47	2.64	0.24	4.55	2.26	2.72

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2003, BY WATER YEAR (WY)

MEAN	9.56	24.8	36.3	33.5	43.9	55.9	42.0	29.3	27.7	23.0	11.4	9.06
MAX	97.6	135	157	114	124	152	112	114	148	115	84.3	71.1
(WY)	(2002)	(1986)	(1991)	(1999)	(1990)	(1978)	(1972)	(1981)	(1981)	(2003)	(1998)	(2003)
MIN	0.50	0.82	1.13	0.76	3.41	9.25	4.85	2.37	1.21	1.11	0.95	0.61
(WY)	(1998)	(1998)	(1996)	(1977)	(1978)	(2001)	(1976)	(1988)	(1988)	(1977)	(1988)	(1983)

SUMMARY STATISTICS

FOR 2002 CALENDAR YEAR

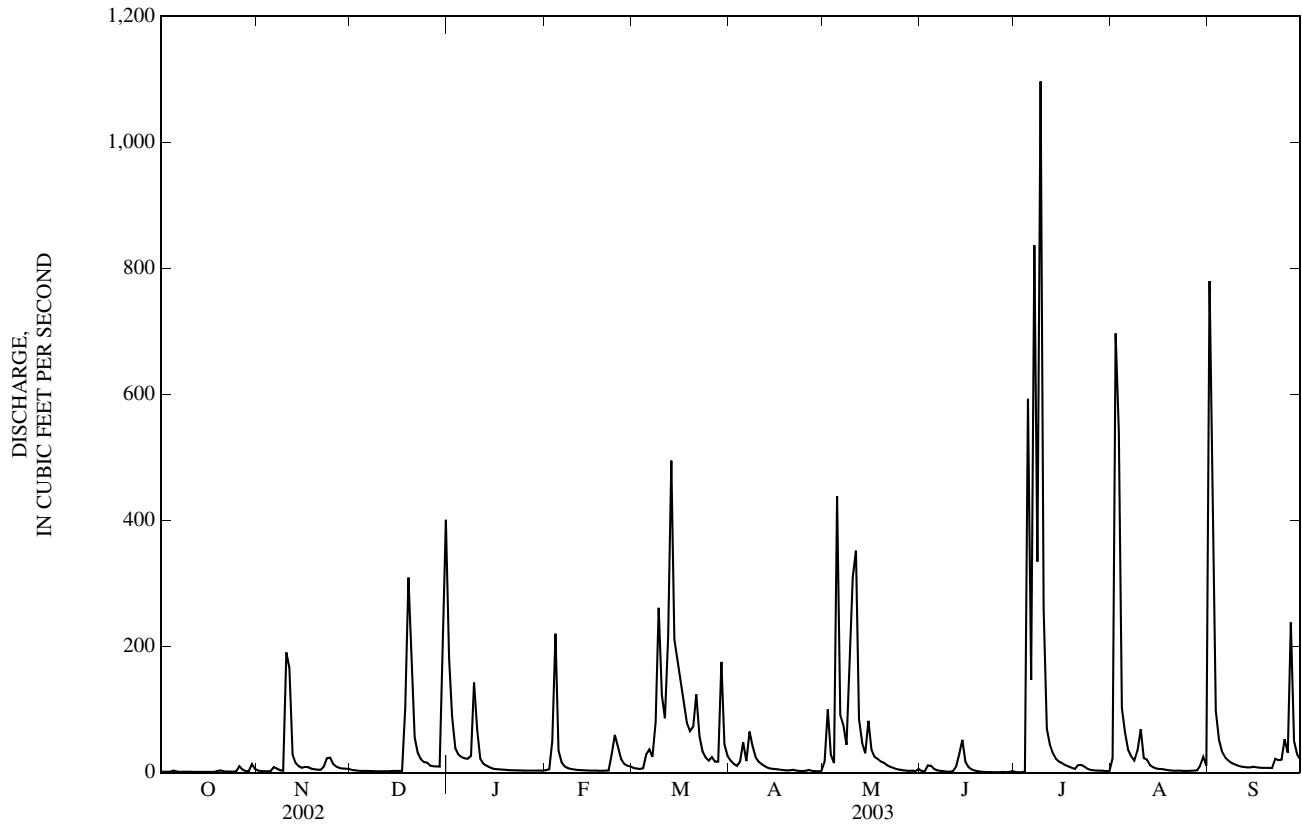
FOR 2003 WATER YEAR

WATER YEARS 1972 - 2003

ANNUAL TOTAL	9,733.58	16,395.28		
ANNUAL MEAN	26.7	44.9	28.8	
HIGHEST ANNUAL MEAN			44.9	2003
LOWEST ANNUAL MEAN			9.21	1977
HIGHEST DAILY MEAN	789	May 13	1,100	Jul 9
LOWEST DAILY MEAN	0.51	Sep 8	0.62	Jul 3
ANNUAL SEVEN-DAY MINIMUM	0.53	Sep 7	0.85	Jun 22
MAXIMUM PEAK FLOW			1,400	Jul 9
MAXIMUM PEAK STAGE			13.49	Jul 9
ANNUAL RUNOFF (CFSM)	0.91		1.54	
ANNUAL RUNOFF (INCHES)	12.40		20.89	
10 PERCENT EXCEEDS	53		101	
50 PERCENT EXCEEDS	6.0		7.8	
90 PERCENT EXCEEDS	1.2		1.9	

e Estimated

03326070 BIG LICK CREEK NEAR HARTFORD CITY, IN—Continued



03326500 MISSISSINEWA RIVER AT MARION, IN

LOCATION.--Lat 40°34'34", long 85°39'34", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.31, T.25 N., R.8 E., Grant County, Hydrologic Unit 05120103, (MARION, IN. quadrangle), on left bank 12 ft downstream from Highland Avenue bridge in Marion, 0.1 mi downstream from old mill dam, 1.0 mi upstream from Hummel Creek, 4.6 mi downstream from Lugar Creek, and at mile 35.8.

DRAINAGE AREA.--682 mi².

PERIOD OF RECORD.--September 1923 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 1335: 1927(M). WSP 1385: 1948. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 774.56 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 9, 1933, nonrecording gage at same site and datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow periodically regulated by dam 0.1 mile above station. 1930 water year not used in summary statistics.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 19.20 ft from information by State of Indiana, Department of Natural Resources.

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	139	126	5,280	e160	e320	830	362	320	243	249	3,690
2	72	100	111	3,990	e170	e290	663	1,290	318	219	2,890	10,200
3	66	81	102	2,070	e200	e260	559	847	318	196	3,550	8,650
4	80	79	79	1,010	1,170	e300	555	550	318	250	1,930	6,110
5	68	91	91	739	1,270	384	1,180	5,200	318	6,020	2,170	1,930
6	64	92	81	613	799	1,460	872	3,770	318	7,650	1,170	898
7	59	101	81	535	562	1,670	873	1,880	291	12,600	700	647
8	54	119	84	518	e370	1,050	1,300	1,360	272	13,400	509	511
9	50	106	69	971	e300	3,870	1,070	2,520	251	16,100	412	428
10	50	315	78	1,950	e250	4,100	776	3,730	244	17,300	510	363
11	49	1,860	79	1,140	e210	1,960	641	10,700	231	13,100	580	315
12	49	976	77	e560	e190	2,240	555	6,740	271	5,040	440	284
13	51	531	77	e400	e180	5,220	485	3,130	369	1,670	586	255
14	50	325	83	e340	e175	6,230	430	1,360	1,070	1,090	510	245
15	47	236	90	e290	e170	4,580	389	1,930	1,020	829	374	275
16	49	194	95	e260	e160	3,010	367	1,960	630	679	280	266
17	47	174	99	e240	e154	2,550	348	1,090	451	579	249	228
18	52	158	122	e220	e155	1,940	328	805	361	514	219	206
19	70	142	903	e205	e160	1,530	310	699	543	460	194	197
20	59	127	2,920	e195	e165	1,590	299	630	419	408	181	188
21	60	125	2,410	e185	e180	2,280	296	549	309	545	174	179
22	53	137	1,060	e180	e230	2,750	286	486	252	555	170	618
23	53	167	623	e175	e410	1,600	270	443	219	537	156	945
24	54	217	472	e170	e900	1,000	254	407	202	462	147	930
25	88	230	393	e164	e800	774	266	377	188	444	142	2,220
26	84	193	343	e160	e560	679	285	358	188	353	139	1,560
27	88	168	276	e158	e460	868	267	348	189	310	135	5,760
28	97	152	262	e156	e400	851	250	338	187	277	130	4,260
29	101	140	239	e154	---	3,010	249	328	200	255	221	2,450
30	98	133	363	e152	---	2,220	248	321	206	237	339	1,100
31	119	---	3,830	e150	---	1,170	---	323	---	228	258	---
TOTAL	2,051	7,608	15,718	23,330	10,910	61,756	15,501	54,831	10,473	102,550	19,714	55,908
MEAN	66.2	254	507	753	390	1,992	517	1,769	349	3,308	636	1,864
MAX	119	1,860	3,830	5,280	1,270	6,230	1,300	10,700	1,070	17,300	3,550	10,200
MIN	47	79	69	150	154	260	248	321	187	196	130	179
CFSM	0.10	0.37	0.74	1.10	0.57	2.92	0.76	2.59	0.51	4.85	0.93	2.73
IN.	0.11	0.41	0.86	1.27	0.60	3.37	0.85	2.99	0.57	5.59	1.08	3.05

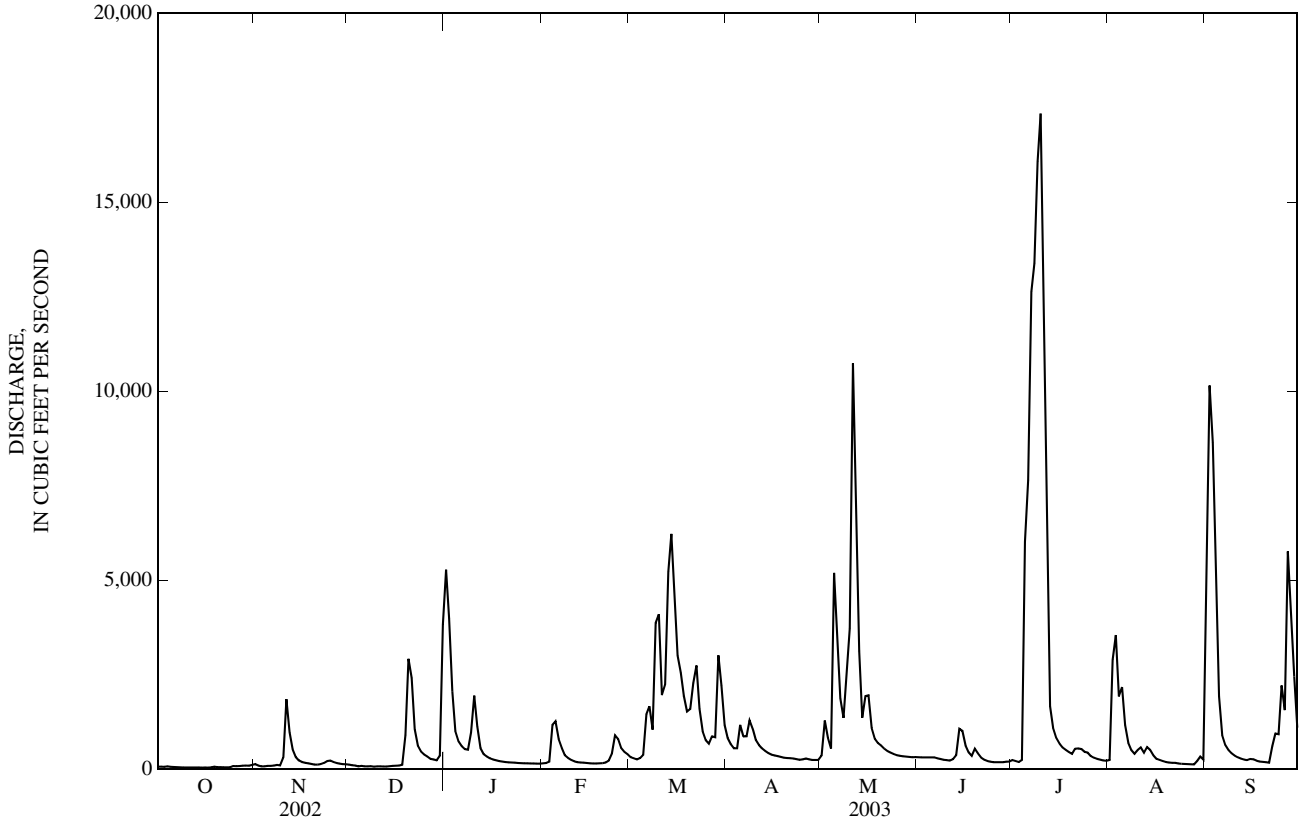
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 2003, BY WATER YEAR (WY)

MEAN	196	401	688	891	946	1,245	1,133	741	633	434	209	245
MAX	2,259	2,626	2,947	5,129	2,707	3,181	3,699	3,776	4,765	3,308	1,522	4,223
(WY)	(2002)	(1993)	(1991)	(1930)	(1990)	(1982)	(1964)	(1933)	(1958)	(2003)	(1998)	(1926)
MIN	22.8	28.0	36.9	36.1	52.5	65.3	123	40.5	49.3	32.6	25.4	24.1
(WY)	(1929)	(1929)	(1964)	(1945)	(1964)	(1941)	(1941)	(1941)	(1988)	(1936)	(1940)	(1940)

03326500 MISSISSINEWA RIVER AT MARION, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1924 - 2003	
ANNUAL TOTAL	240,540		380,350			
ANNUAL MEAN	659		1,042		638	
HIGHEST ANNUAL MEAN					1,167	1927
LOWEST ANNUAL MEAN					106	1941
HIGHEST DAILY MEAN	12,200	May 14	17,300	Jul 10	23,400	Jun 11, 1958
LOWEST DAILY MEAN	33	Sep 5	47	Oct 15	3.4	Oct 25, 1968
ANNUAL SEVEN-DAY MINIMUM	36	Sep 13	49	Oct 11	8.4	Oct 17, 1940
MAXIMUM PEAK FLOW			17,700	Jul 10	25,000	Mar 21, 1927
MAXIMUM PEAK STAGE			14.25	Jul 10	17.40	Mar 21, 1927
ANNUAL RUNOFF (CFSM)	0.97		1.53		0.94	
ANNUAL RUNOFF (INCHES)	13.12		20.75		12.70	
10 PERCENT EXCEEDS	1,560		2,480		1,500	
50 PERCENT EXCEEDS	188		318		202	
90 PERCENT EXCEEDS	54		84		48	

e Estimated



03327000 MISSISSINEWA RIVER AT PEORIA, IN

LOCATION.--Lat 40°43'24", long 85°57'27", in SW¹/₄SW¹/₄ sec.3, T.26 N., R.5 E., Miami County, Hydrologic Unit 05120103, (PEORIA, IN. quadrangle), on right bank at Peoria, 0.6 mi downstream from Mississinewa Lake, 6.5 mi southeast of Peru, and 6.7 mi upstream from mouth.

DRAINAGE AREA.--808 mi².

PERIOD OF RECORD.--October 1952 to September 1976 (discharge). October 1976 to September 2001 (discharge provided by U.S. Army Corps of Engineers). October 2001 to current year (stage only).

REVISED RECORDS.--WSP 1335: 1953. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 660.00 ft above National Geodetic Vertical Datum of 1929. Oct. 1, 1962, to Sept. 30, 1974, water-stage recorder site described in "LOCATION" paragraph. Prior to Oct. 7, 1954, nonrecording gage and crest-stage gage on highway bridge 2,500 ft upstream, and Oct. 7, 1954, to Sept. 30, 1962, water-stage recorder on right bank at site 2,500 ft upstream at same datum.

REMARKS.--Flow regulated by Mississinewa Lake since April 1968.

COOPERATION.--Records of daily discharge provided by U.S. Army Corps of Engineers October 1976 to September 2001.

EXTREMES FOR PERIOD OF RECORD.--(October 2001 to current year) maximum gage height, 9.23 ft, July 10, 2003; minimum gage height, -0.53 ft, Nov. 21, 2002. (October 1952 to September 1976) maximum discharge, 28,000 ft³/s, June 11, 1958; maximum gage height, 19.26 ft, June 11, 1958 site then in use; minimum discharge, zero flow, Sept. 11 to Oct. 2, 1985, Oct. 21 to Nov. 22, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 9.23 ft, July 10; minimum gage height, -0.53 ft, Nov. 21.

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	1.10	1.20	1.29	6.75	1.61	2.21	2.95	1.61	1.85	1.51	1.49	1.75
2	0.83	1.20	1.29	7.07	1.61	2.21	2.39	3.59	1.85	1.51	5.38	7.06
3	1.10	1.20	1.39	6.40	1.62	1.71	2.17	3.34	1.89	1.51	6.07	8.11
4	1.10	0.99	1.39	3.74	3.23	1.71	2.19	2.74	1.89	1.79	4.66	8.15
5	0.83	1.00	1.22	3.72	3.25	1.71	2.22	7.03	1.89	1.61	2.78	8.07
6	0.84	1.00	1.22	2.47	3.26	3.92	3.75	7.61	1.89	8.27	4.69	7.96
7	0.84	1.25	1.10	2.47	3.25	4.68	3.98	6.96	1.89	8.37	4.66	7.76
8	0.84	1.24	1.23	2.10	2.09	3.70	3.98	4.99	1.89	8.60	4.61	7.01
9	0.84	1.24	1.21	2.10	2.09	6.95	3.97	3.37	1.89	9.18	2.44	4.23
10	0.84	1.25	1.22	4.93	2.09	7.02	3.28	3.42	1.61	8.70	2.22	2.41
11	0.70	4.42	1.21	3.79	1.71	5.81	2.74	8.05	1.62	8.95	2.41	2.22
12	0.70	---	1.21	2.53	1.70	4.14	1.57	8.43	2.03	9.03	2.41	1.98
13	0.70	2.62	1.22	2.15	1.29	7.87	1.57	8.37	2.79	9.11	2.41	1.66
14	0.70	1.99	1.22	2.15	1.53	8.01	1.57	8.32	3.82	9.15	2.71	1.68
15	0.85	1.63	1.22	1.85	1.53	8.02	1.57	7.61	3.82	9.05	2.29	1.68
16	0.85	1.62	1.21	1.85	1.53	7.90	1.57	7.53	3.27	9.05	2.02	1.68
17	0.85	1.02	1.29	1.85	1.53	5.86	1.99	7.39	2.61	8.98	1.61	1.94
18	0.86	1.34	1.29	1.84	1.53	4.33	1.99	5.73	1.54	8.96	1.61	1.94
19	0.86	1.33	2.83	1.58	1.53	4.51	1.99	2.77	1.54	8.92	1.61	1.51
20	0.86	1.32	6.21	1.58	1.53	4.50	1.99	3.01	2.31	8.85	1.61	1.51
21	0.85	1.31	4.79	1.57	1.53	4.51	1.77	2.43	2.31	7.45	1.39	1.51
22	0.85	1.31	3.55	1.58	1.53	5.85	1.77	2.43	2.04	6.76	1.68	1.69
23	0.86	1.54	2.45	1.57	1.53	4.51	1.77	1.98	1.73	6.34	1.68	3.77
24	0.86	1.86	2.45	1.57	3.69	3.69	1.77	1.98	1.51	5.20	1.51	3.79
25	0.86	1.66	1.74	1.39	3.69	3.22	1.77	2.21	1.51	5.15	1.39	5.72
26	0.86	1.66	1.74	1.39	2.73	2.47	1.47	2.21	1.50	5.09	1.39	4.31
27	1.18	1.66	1.74	1.39	2.21	3.24	1.47	2.20	1.50	4.51	1.39	5.88
28	1.18	1.54	1.74	1.39	2.21	2.71	1.48	1.84	1.50	2.87	1.39	7.21
29	1.24	1.27	1.74	1.39	---	5.87	1.59	1.85	1.50	1.94	1.69	7.15
30	1.22	1.29	1.74	1.39	---	5.85	1.60	1.85	1.50	1.94	1.69	7.02
31	1.21	---	6.61	1.39	---	4.12	---	1.85	---	1.93	1.73	---
MEAN	0.91	---	1.99	2.55	2.09	4.61	2.20	4.35	2.02	6.14	2.47	4.28
MAX	1.24	---	6.61	7.07	3.69	8.02	3.98	8.43	3.82	9.18	6.07	8.15
MIN	0.70	---	1.10	1.39	1.29	1.71	1.47	1.61	1.50	1.51	1.39	1.51

03327000 MISSISSINEWA RIVER AT PEORIA, IN—Continued

WATER-QUALITY RECORDS

INSTRUMENTATION.--Temperature recorder.

PERIOD OF RECORD.--

WATER TEMPERATURE.--October 1987 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 29.1°C, Aug. 4, 2002; minimum, -0.3°C, Jan. 27-31, 1996.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 26.7°C, Aug.26, minimum, 0.9°C, Mar. 11.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	22.1	20.8	21.3	11.2	10.4	10.8	5.3	4.3	4.7	2.8	2.4	2.6
2	21.6	19.5	21.0	10.8	9.9	10.3	5.5	4.0	4.6	3.9	2.5	3.3
3	21.8	19.3	21.1	10.1	9.6	9.8	4.4	3.5	3.8	4.1	3.9	4.0
4	21.7	21.1	21.6	10.7	9.6	9.9	3.5	3.0	3.2	3.9	3.2	3.5
5	21.2	19.2	20.6	9.6	9.3	9.4	4.5	2.9	3.5	3.3	3.0	3.1
6	20.4	20.0	20.2	9.3	8.9	9.1	4.3	2.9	3.4	3.9	2.8	3.2
7	20.2	19.3	19.7	9.6	8.6	9.0	5.0	2.7	3.3	3.0	2.6	2.8
8	19.4	18.8	19.1	9.6	8.7	9.1	4.0	2.8	3.3	3.3	2.5	2.8
9	19.4	18.6	19.0	9.7	9.1	9.3	3.9	2.5	3.1	3.8	2.6	2.9
10	19.3	18.4	18.8	10.2	9.7	9.9	3.6	2.9	3.3	2.7	2.2	2.5
11	18.9	18.0	18.5	9.8	8.9	9.3	3.9	3.2	3.5	2.4	1.7	2.0
12	18.7	18.3	18.5	9.1	8.7	9.0	3.9	3.0	3.4	2.3	1.6	1.7
13	18.5	17.2	17.9	8.9	8.6	8.7	3.6	3.2	3.3	3.0	1.6	1.8
14	17.8	16.6	17.1	8.9	8.6	8.7	4.1	3.2	3.5	2.1	1.6	1.8
15	17.4	16.2	16.8	8.8	8.5	8.7	4.6	3.0	3.6	2.4	1.6	1.8
16	16.9	15.9	16.4	8.5	8.0	8.3	3.9	2.8	3.4	2.1	1.6	1.8
17	15.9	15.5	15.7	8.6	7.6	8.1	2.9	2.6	2.7	2.3	1.6	1.8
18	15.5	15.1	15.3	8.6	7.3	7.8	4.5	2.6	3.6	2.0	1.6	1.7
19	15.7	14.8	15.2	---	---	---	4.4	3.6	4.0	3.2	1.6	1.9
20	15.3	14.3	14.7	---	---	---	3.6	3.3	3.5	2.4	1.8	2.0
21	15.1	13.9	14.4	---	---	---	3.4	3.2	3.3	2.5	1.6	2.0
22	14.9	13.9	14.3	8.3	7.5	7.8	3.9	3.3	3.4	2.2	1.6	1.7
23	13.9	13.4	13.6	8.3	7.3	7.6	3.7	3.2	3.3	2.0	1.4	1.6
24	13.6	13.0	13.3	8.3	7.1	7.5	3.2	2.6	3.0	2.0	1.4	1.6
25	13.0	12.6	12.8	8.1	7.0	7.3	4.5	2.5	2.9	2.8	1.5	1.8
26	12.7	12.5	12.6	7.0	6.6	6.8	2.9	2.5	2.7	2.0	1.4	1.6
27	12.8	12.1	12.5	7.2	6.0	6.5	2.9	2.2	2.5	2.0	1.4	1.6
28	12.9	12.1	12.4	6.8	5.8	6.2	2.7	2.3	2.4	2.2	1.5	1.8
29	12.4	11.5	11.9	7.4	5.7	6.2	3.1	2.2	2.5	2.1	1.6	1.8
30	11.6	11.2	11.4	5.8	4.7	5.4	3.2	2.3	2.7	2.5	1.5	1.8
31	11.6	11.0	11.3	---	---	---	3.3	2.7	2.9	2.1	1.7	1.8
MONTH	22.1	11.0	16.4	---	---	---	5.5	2.2	3.3	4.1	1.4	2.2

WABASH RIVER BASIN

03327000 MISSISSINEWA RIVER AT PEORIA, IN—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	
													FEBRUARY
1	2.2	1.8	1.9	2.0	1.6	1.9	10.4	9.6	9.9	14.8	13.7	14.2	
2	2.5	1.8	2.0	1.9	1.4	1.7	10.9	10.1	10.4	14.4	13.6	14.0	
3	2.2	1.8	2.0	3.1	1.4	1.7	11.4	10.4	10.9	14.9	14.2	14.6	
4	2.0	1.6	1.8	2.6	1.6	1.9	12.1	10.8	11.5	15.4	14.0	14.8	
5	2.2	1.7	1.9	2.7	1.7	2.0	11.4	10.0	10.6	16.7	15.1	16.1	
6	2.2	1.9	2.0	2.3	1.6	1.8	10.7	10.4	10.6	16.4	15.9	16.1	
7	2.3	1.8	2.0	1.9	1.4	1.7	10.4	9.7	9.9	17.4	15.9	16.8	
8	3.2	1.8	2.0	1.8	1.3	1.4	9.7	9.5	9.6	17.4	15.8	16.5	
9	2.4	1.6	1.9	1.4	1.1	1.3	9.8	9.3	9.5	17.3	15.2	15.8	
10	2.2	1.7	1.9	1.1	1.0	1.0	9.5	8.4	9.0	16.1	15.3	15.8	
11	3.2	1.7	2.0	1.3	0.9	1.0	8.8	7.5	8.1	17.4	15.4	16.6	
12	3.0	1.6	2.0	1.7	1.0	1.1	9.8	7.3	8.2	17.2	16.7	16.9	
13	3.5	1.8	2.2	1.2	1.0	1.0	11.2	7.2	8.9	16.9	16.6	16.7	
14	2.6	1.8	2.2	2.0	1.2	1.7	11.6	8.9	9.9	16.8	16.5	16.7	
15	2.4	1.8	2.0	2.2	1.9	2.0	11.1	10.0	10.5	16.6	15.9	16.2	
16	2.3	1.8	2.0	2.9	2.2	2.4	11.6	10.2	10.9	16.1	15.7	15.9	
17	2.7	1.9	2.2	4.1	2.9	3.5	13.0	11.6	12.4	16.2	15.8	16.0	
18	2.5	2.0	2.2	5.3	4.1	4.7	12.6	11.5	11.9	16.4	15.5	16.1	
19	3.3	2.0	2.4	5.9	5.0	5.4	13.1	11.5	12.3	16.2	15.3	15.9	
20	3.5	1.8	2.3	8.4	5.8	7.2	13.9	12.5	12.9	15.9	15.4	15.6	
21	2.5	1.8	2.1	8.6	6.7	8.0	12.7	11.6	12.1	16.7	15.5	16.0	
22	2.3	1.4	1.9	8.7	8.1	8.4	13.1	11.8	12.2	16.7	15.6	16.0	
23	2.9	1.5	2.0	9.8	8.7	9.2	13.7	11.9	12.6	16.3	15.4	15.8	
24	2.1	1.7	1.9	9.8	9.1	9.4	13.6	12.2	12.9	16.7	15.7	16.0	
25	2.2	1.8	1.9	10.5	9.5	10.0	13.1	12.8	13.0	16.8	16.0	16.4	
26	2.2	1.6	1.9	10.3	9.1	9.7	14.2	12.4	13.0	17.1	16.2	16.5	
27	2.7	1.6	1.9	12.0	9.5	10.7	14.6	12.2	13.1	17.1	16.2	16.6	
28	2.8	1.7	2.1	11.4	10.8	11.1	14.1	12.8	13.3	17.1	15.2	16.5	
29	---	---	---	11.0	10.8	10.9	15.4	12.8	13.8	17.0	16.4	16.7	
30	---	---	---	10.8	10.5	10.7	15.1	13.6	14.2	17.2	16.4	16.9	
31	---	---	---	10.6	9.4	9.9	---	---	---	17.4	16.5	17.1	
MONTH	3.5	1.4	2.0	12.0	0.9	5.0	15.4	7.2	11.3	17.4	13.6	16.1	
		JUNE			JULY			AUGUST			SEPTEMBER		
1	18.0	16.5	17.1	23.7	21.4	22.3	25.1	21.3	24.1	24.6	23.8	24.5	
2	18.2	16.7	17.4	23.6	18.4	22.0	25.7	23.8	24.8	24.8	22.8	23.9	
3	17.8	17.4	17.6	23.7	21.6	22.4	25.9	25.0	25.6	22.8	21.8	22.2	
4	17.8	16.9	17.3	23.9	22.0	22.6	25.0	23.4	24.5	21.9	21.4	21.7	
5	18.2	16.9	17.4	23.8	20.9	22.6	24.0	22.2	23.5	22.1	21.4	21.8	
6	18.1	17.1	17.5	24.1	22.4	23.2	25.5	21.6	23.7	22.1	21.5	21.9	
7	18.6	17.5	17.9	24.1	22.4	23.2	24.4	23.9	24.1	22.1	21.6	21.9	
8	18.0	17.1	17.5	23.6	22.8	23.2	24.4	23.9	24.1	22.0	21.0	21.8	
9	18.3	17.1	17.6	23.9	22.4	23.4	24.1	21.8	23.2	22.0	21.1	21.7	
10	18.6	15.7	17.9	24.0	22.2	23.5	24.0	22.4	23.1	22.0	20.8	21.3	
11	19.0	18.2	18.5	24.0	22.5	23.5	24.5	23.6	23.9	22.5	20.8	21.6	
12	19.1	18.3	18.6	24.1	22.9	23.8	24.7	23.6	24.1	22.4	21.5	21.8	
13	18.6	16.6	17.6	23.9	22.9	23.7	24.6	23.9	24.1	22.6	21.0	21.8	
14	19.6	17.4	18.3	24.1	22.9	23.8	24.7	24.0	24.3	22.7	21.3	21.8	
15	19.7	18.5	19.1	24.0	23.0	23.8	24.8	21.9	24.2	22.3	21.3	21.6	
16	20.0	18.6	19.6	23.9	22.6	23.6	25.1	22.4	24.3	22.9	21.3	21.9	
17	20.1	18.0	19.3	24.1	22.9	23.7	25.7	21.5	24.5	23.2	21.4	22.1	
18	19.6	18.1	18.8	24.0	23.1	23.8	25.5	23.9	24.5	23.1	21.9	22.3	
19	20.4	18.9	19.4	24.2	23.6	23.9	25.5	24.0	24.6	22.3	21.5	21.8	
20	20.9	18.8	19.9	24.2	23.7	23.9	25.6	24.1	24.6	23.0	21.4	21.8	
21	21.4	19.9	20.6	24.2	23.4	23.8	25.5	22.9	24.6	23.1	21.3	21.9	
22	21.6	19.5	20.6	23.8	23.2	23.6	25.9	24.0	24.9	22.2	21.2	21.6	
23	22.0	19.3	20.9	24.1	23.3	23.7	25.9	24.3	24.9	22.0	20.9	21.2	
24	22.1	19.6	21.0	24.0	23.2	23.7	25.7	23.4	24.8	21.3	20.7	20.9	
25	22.5	20.3	21.1	23.9	23.2	23.6	25.8	24.4	24.9	21.0	20.4	20.7	
26	21.5	20.5	21.0	24.1	23.3	23.8	26.7	21.3	24.9	20.4	19.2	20.0	
27	22.8	20.7	21.5	24.1	23.3	23.8	26.1	24.6	25.1	19.6	18.4	19.0	
28	22.3	21.0	21.6	25.0	23.5	24.3	26.1	24.5	25.1	18.4	17.4	17.7	
29	22.7	21.3	21.9	24.7	23.5	24.1	25.3	24.0	24.8	17.5	16.9	17.2	
30	23.4	21.5	22.1	24.9	23.8	24.3	26.0	24.9	25.2	17.0	16.3	16.5	
31	---	---	---	25.1	23.9	24.3	25.2	24.5	25.0	---	---	---	
MONTH	23.4	15.7	19.2	25.1	18.4	23.5	26.7	21.3	24.5	24.8	16.3	21.3	

03327500 WABASH RIVER AT PERU, IN

LOCATION.--Lat 40°44'35", long 86°05'45", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.32, T.27 N., R.4 E., Miami County, Hydrologic Unit 05120101, (BUNKER HILL, IN quadrangle), on right bank at upstream side of bridge on U.S. Highway 31, 0.5 mi southwest of Peru, 4.4 mi downstream from Mississinewa River, and at mile 370.5.

DRAINAGE AREA.--2,686 mi².

PERIOD OF RECORD.--August 1943 to current year.

REVISED RECORDS.--WSP 2109: Drainage area. WDR IN-74-1: 1973. WDR IN-81-1: 1979.

GAGE.--Water-stage recorder. Datum of gage is 617.94 ft above National Geodetic Vertical Datum of 1929, (levels by U.S. Army Corps of Engineers). Prior to June 20, 1961, nonrecording gage at same site and datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by reservoirs on Wabash River (station 03323500), Salamonie River (station 03324500) and Mississinewa River (station 03327000).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 26, 1913, reached a stage of 28.1 ft, discharge, 115,000 ft³/s, from rating curve extended above 63,000 ft³/s.

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	594	522	414	8,490	e520	1,120	3,360	475	3,680	661	5,030	5,020
2	660	530	332	9,190	e510	1,080	2,110	825	1,710	557	5,680	8,460
3	605	546	341	8,280	e500	928	1,710	1,920	1,660	849	7,470	8,400
4	744	537	310	6,660	e760	645	1,630	2,100	1,210	e1,700	7,070	9,010
5	761	483	328	4,440	e3,200	693	5,670	5,840	1,120	e11,000	6,360	9,800
6	692	500	e280	2,460	3,530	1,050	6,560	8,720	1,180	e8,400	4,880	9,650
7	704	556	e270	1,620	2,950	2,590	6,560	8,460	1,170	e19,500	6,820	9,420
8	695	599	e275	1,460	1,860	4,240	5,640	10,600	953	e17,500	6,760	8,860
9	683	581	e255	1,160	1,090	6,250	4,680	13,900	862	e18,000	6,200	7,120
10	677	664	e260	2,940	918	9,190	3,950	10,900	891	e15,000	5,440	5,560
11	659	1,470	e265	4,770	e880	8,930	2,610	10,100	785	16,500	5,270	4,610
12	632	3,310	270	3,190	e820	6,820	1,970	11,700	1,130	19,100	5,390	5,080
13	621	3,070	265	1,800	e640	8,680	1,410	12,100	2,900	18,600	5,400	4,890
14	613	2,500	262	1,110	e500	12,200	1,160	12,100	7,500	18,000	5,460	4,170
15	610	1,820	258	903	e560	12,500	1,020	13,000	5,480	14,700	5,390	1,260
16	616	1,530	248	893	e640	12,800	926	11,600	5,590	14,000	5,150	1,030
17	615	808	249	998	e620	12,200	937	11,900	5,540	14,300	4,990	927
18	607	685	273	902	e510	9,780	992	11,300	5,190	14,200	5,010	956
19	661	751	417	e800	494	7,010	942	9,660	3,380	14,200	4,290	891
20	572	696	2,610	e740	454	5,510	920	8,570	2,790	14,000	3,560	774
21	564	648	6,380	e660	468	5,370	856	7,570	2,400	13,500	3,070	740
22	538	682	5,270	e640	513	6,480	751	5,640	1,720	11,500	3,840	1,050
23	576	726	3,000	e580	619	6,680	694	5,440	1,200	11,100	3,220	2,210
24	584	836	1,820	e540	980	4,470	638	5,170	866	9,710	2,840	3,970
25	596	910	1,280	e520	2,200	3,200	605	5,170	706	9,600	2,710	6,250
26	601	966	704	e490	2,450	2,370	563	5,220	686	9,760	2,660	7,170
27	602	811	580	e450	1,960	1,650	458	4,970	634	9,920	2,490	10,900
28	573	783	639	e470	1,180	1,910	444	4,950	619	8,980	2,510	8,640
29	507	733	675	e490	---	4,120	434	4,930	622	6,070	2,790	7,910
30	556	654	692	e520	---	8,040	462	5,070	674	5,510	2,970	8,400
31	533	---	2,380	e540	---	6,200	---	4,990	---	5,380	2,660	---
TOTAL	19,251	29,907	31,602	68,706	32,326	174,706	60,662	234,890	64,848	351,797	143,380	163,128
MEAN	621	997	1,019	2,216	1,154	5,636	2,022	7,577	2,162	11,350	4,625	5,438
MAX	761	3,310	6,380	9,190	3,530	12,800	6,560	13,900	7,500	19,500	7,470	10,900
MIN	507	483	248	450	454	645	434	475	619	557	2,490	740
CFSM	0.23	0.37	0.38	0.83	0.43	2.10	0.75	2.82	0.80	4.22	1.72	2.02
IN.	0.27	0.41	0.44	0.95	0.45	2.42	0.84	3.25	0.90	4.87	1.99	2.26

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

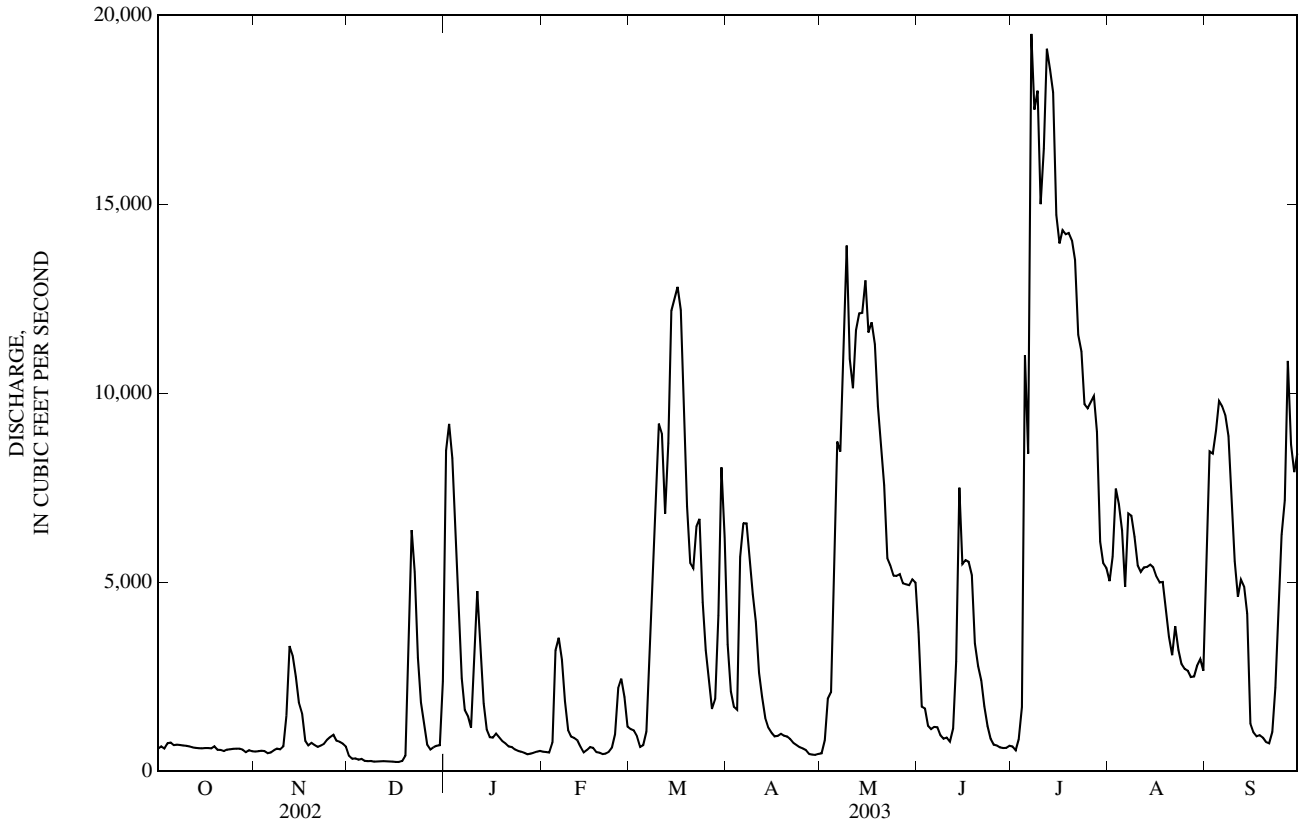
MEAN	1,156	1,714	2,687	3,290	3,705	4,624	4,075	2,541	2,429	1,724	930	892
MAX	6,340	7,653	8,314	18,500	10,740	10,890	14,840	7,577	14,260	11,350	7,049	5,438
(WY)	(2002)	(1973)	(1958)	(1950)	(1959)	(1982)	(1957)	(2003)	(1958)	(2003)	(1998)	(2003)
MIN	110	150	142	141	247	830	412	345	194	175	163	119
(WY)	(1954)	(1954)	(1964)	(1945)	(1964)	(1983)	(1971)	(1976)	(1988)	(1944)	(1966)	(1963)

WABASH RIVER BASIN

03327500 WABASH RIVER AT PERU, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1944 - 2003	
ANNUAL TOTAL	829,393		1,375,203			
ANNUAL MEAN	2,272		3,768		2,473	
HIGHEST ANNUAL MEAN					4,425	1950
LOWEST ANNUAL MEAN					691	1954
HIGHEST DAILY MEAN	13,500	Feb 1	19,500	Jul 7	50,900	Jun 12, 1958
LOWEST DAILY MEAN	116	Aug 8	248	Dec 16	72	Oct 5, 1946
ANNUAL SEVEN-DAY MINIMUM	130	Aug 7	260	Dec 11	85	Oct 29, 1944
MAXIMUM PEAK FLOW			unknown	Jul 7	68,000	May 18, 1943
MAXIMUM PEAK STAGE			unknown	Jul 7	24.46	May 18, 1943
ANNUAL RUNOFF (CFSM)	0.85		1.40		0.92	
ANNUAL RUNOFF (INCHES)	11.49		19.05		12.51	
10 PERCENT EXCEEDS	6,520		9,790		7,010	
50 PERCENT EXCEEDS	776		1,710		1,020	
90 PERCENT EXCEEDS	237		509		223	

e Estimated



03327520 PIPE CREEK NEAR BUNKER HILL, IN

LOCATION.--Lat 40°40'06", long 86°05'44", in NE¼SE¼ sec.29, T.26 N., R.4 E., Miami County, Hydrologic Unit 05120101, (BUNKER HILL, IN. quadrangle), on right bank 150 ft downstream from bridge on County Road 125 West, 0.5 mi northeast of Bunker Hill, and at mile 11.4.

DRAINAGE AREA.--159 mi².

PERIOD OF RECORD.--May 1968 to October 2003 (discontinued). Occasional low-flow measurements, water years 1960-67.

GAGE.--Water-stage recorder. Datum of gage is 736.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records 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	6.3	18	14	283	e17	e25	176	43	74	37	e95	683
2	6.4	17	13	180	e17	e25	138	48	66	43	e120	e1,450
3	6.1	23	e11	109	e28	e23	110	66	63	48	e115	e1,200
4	6.7	26	e10	74	e110	e23	120	52	63	49	e100	e540
5	7.0	31	e9.7	61	e100	e23	659	881	62	4,050	e96	e330
6	8.2	33	e9.6	53	e80	e24	455	1,160	56	3,940	98	e250
7	7.8	37	e9.3	45	e57	e40	310	623	52	3,990	80	e180
8	7.1	35	e9.4	44	e40	e120	329	433	51	3,720	67	e140
9	6.5	39	9.4	72	e32	e450	250	1,270	51	3,430	60	e120
10	6.1	43	9.4	158	e27	e300	197	1,450	49	3,640	54	e99
11	6.0	72	9.5	109	e25	e190	163	1,550	48	2,850	50	e80
12	5.5	62	9.7	91	e23	e160	133	1,190	111	1,350	47	e74
13	5.7	40	10	e70	e22	501	108	566	301	590	44	e65
14	6.7	30	12	e57	e21	495	92	355	643	405	41	e60
15	6.9	24	13	e48	e20	350	86	788	258	301	40	e56
16	6.7	22	11	e40	e19	371	83	822	160	232	39	e52
17	7.0	20	10	e33	e18	359	77	427	117	184	37	e49
18	8.0	19	11	e30	e18	298	69	291	97	158	34	e48
19	12	18	16	e27	e18	230	62	225	85	136	32	e47
20	15	17	33	e25	e23	325	60	193	72	119	31	e50
21	14	17	60	e23	e33	365	63	166	65	e125	30	e50
22	13	17	45	e22	e51	405	59	141	59	e138	66	e180
23	13	18	32	e21	e80	252	52	126	56	e125	46	e350
24	13	16	26	e20	e55	184	49	113	51	e110	33	e640
25	14	19	23	e20	e38	146	49	104	48	e100	30	e900
26	19	18	e20	e19	e32	116	51	94	47	e94	29	e1,300
27	18	16	e18	e18	e29	100	46	87	47	e88	27	e1,200
28	17	15	e16	e18	e28	92	42	81	43	e84	26	e800
29	18	14	16	e18	---	329	42	80	43	e80	78	e600
30	20	14	17	e17	---	397	41	77	40	e77	113	e500
31	24	---	90	e17	---	233	---	76	---	e75	63	---
TOTAL	330.7	790	603.0	1,822	1,061	6,951	4,171	13,578	2,978	30,368	1,821	12,093
MEAN	10.7	26.3	19.5	58.8	37.9	224	139	438	99.3	980	58.7	403
MAX	24	72	90	283	110	501	659	1,550	643	4,050	120	1,450
MIN	5.5	14	9.3	17	17	23	41	43	40	37	26	47
CFSM	0.07	0.17	0.12	0.37	0.24	1.41	0.87	2.75	0.62	6.16	0.37	2.54
IN.	0.08	0.18	0.14	0.43	0.25	1.63	0.98	3.18	0.70	7.10	0.43	2.83

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

MEAN	60.4	126	164	166	221	284	241	182	152	128	52.4	50.2
MAX	486	797	563	731	648	902	637	525	429	980	321	403
(WY)	(2002)	(1993)	(1991)	(1974)	(1990)	(1982)	(1972)	(1996)	(1980)	(2003)	(1998)	(2003)
MIN	6.66	6.67	6.57	3.70	25.1	49.7	44.1	28.5	12.4	8.17	7.63	5.16
(WY)	(1989)	(2000)	(1977)	(1977)	(1978)	(1981)	(2000)	(1976)	(1988)	(1988)	(1971)	(1991)

SUMMARY STATISTICS

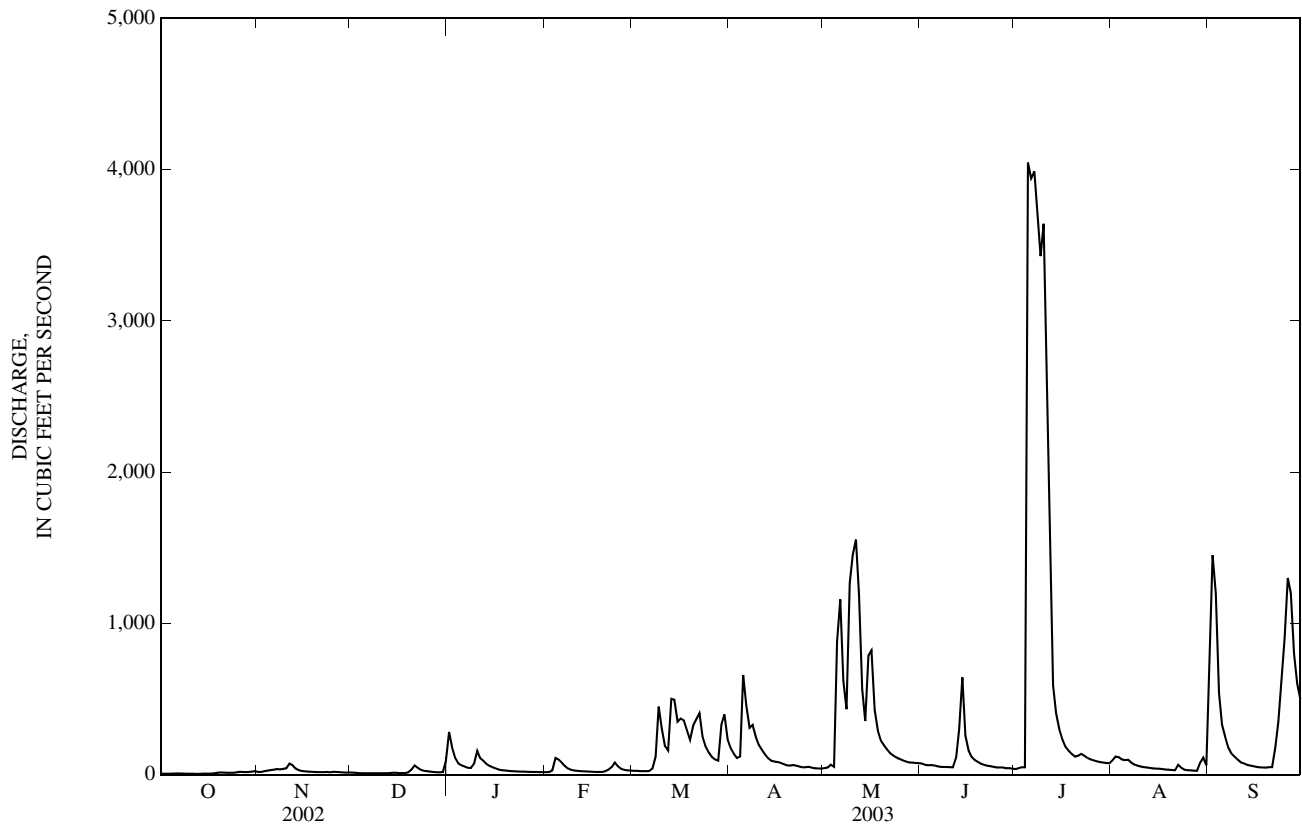
FOR 2002 CALENDAR YEAR

FOR 2003 WATER YEAR

WATER YEARS 1968 - 2003

ANNUAL TOTAL	45,003.2	76,566.7	
ANNUAL MEAN	123	210	152
HIGHEST ANNUAL MEAN			266
LOWEST ANNUAL MEAN			67.6
HIGHEST DAILY MEAN	1,760	Feb 1	4,780
LOWEST DAILY MEAN	5.5	Oct 12	2.9
ANNUAL SEVEN-DAY MINIMUM	6.2	Oct 9	3.4
MAXIMUM PEAK FLOW			4,700
MAXIMUM PEAK STAGE			16.91
ANNUAL RUNOFF (CFSM)	0.78		1.32
ANNUAL RUNOFF (INCHES)	10.53		17.91
10 PERCENT EXCEEDS	297		367
50 PERCENT EXCEEDS	34		55
90 PERCENT EXCEEDS	8.7		10

e Estimated



03328000 EEL RIVER AT NORTH MANCHESTER, IN

LOCATION.--Lat 40°59'38", long 85°46'53", in NE¼SE¼ sec.6, T.29 N., R.7 E., Wabash County, Hydrologic Unit 05120104, (NORTH MANCHESTER SOUTH, IN. quadrangle), on right bank 300 ft upstream from New Wabash bridge in North Manchester, 400 ft downstream of New York Central railroad bridge, 0.4 mi downstream from Pony Creek, and at mile 51.0.

DRAINAGE AREA.--417 mi².

PERIOD OF RECORD.--October 1929 to current year. Prior to April 1930, monthly discharge only, published in WSP 1305. Gage-height records since November 20, 1923 are available from the district office.

REVISED RECORDS.--WSP 1275: 1930-37, 1939, 1940(M), 1942, 1948. WSP 1909: 1957. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 732.65 ft above National Geodetic Vertical Datum of 1929. Prior to Jan. 15, 2002 at site 1.75 mi upstream at Water Works property at datum 738.00 ft. From October 1929 to July 23, 1953, nonrecording gage on downstream side of Second Street bridge, 1.9 mi upstream at datum 5.35 ft higher, at same drainage area. From July 24, 1953 to Jan. 14, 2002, at site 1.75 mi upstream at Water Works property at datum 5.35 ft higher, at same drainage area.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum instantaneous gage height occurred Dec. 30, 1990 during period of no gage height record, at datum 738.00 ft.

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	72	73	e78	212	e72	e90	335	127	191	111	242	1,400
2	69	70	e75	173	e72	e89	297	139	171	103	376	3,270
3	70	70	e73	137	97	e89	256	134	179	98	1,800	2,950
4	73	74	e72	e110	284	e88	267	125	180	107	1,180	2,050
5	77	78	e71	e105	235	e88	1,400	610	167	411	1,370	1,260
6	72	87	71	e100	e140	e88	1,100	1,010	155	497	839	822
7	71	83	71	e93	e110	156	728	609	151	3,310	566	609
8	71	78	68	e93	e100	300	812	945	145	2,590	451	484
9	72	76	62	e97	e93	1,130	594	2,560	142	2,490	373	407
10	70	89	64	e100	e89	e450	462	3,410	136	1,710	310	356
11	69	136	67	e100	e86	e270	385	3,180	133	1,200	269	314
12	68	139	65	e93	e85	e250	330	2,410	286	717	241	282
13	70	113	66	e93	e84	721	285	1,810	789	507	223	254
14	69	96	66	e92	e83	1,220	251	1,260	1,030	392	204	237
15	70	90	66	e90	e87	748	229	1,200	494	324	190	233
16	70	84	66	e88	e90	595	214	1,050	331	283	178	220
17	69	82	65	e85	e82	541	197	789	256	246	166	201
18	79	80	70	e80	e80	471	183	631	251	220	156	191
19	82	83	88	e75	e78	403	173	523	237	199	147	187
20	80	87	125	e73	e78	367	165	460	192	181	141	178
21	74	84	142	e72	e80	454	167	417	168	996	134	165
22	72	90	118	e70	e105	461	159	358	152	1,890	339	365
23	70	92	98	e70	e140	348	149	316	141	1,490	227	e630
24	70	89	88	e69	e135	285	141	286	132	973	171	e425
25	74	87	81	e69	e100	255	140	262	124	653	148	e780
26	81	e86	e80	e70	e95	242	142	238	119	475	147	e830
27	78	e85	e79	e70	e94	220	133	219	118	388	262	e1,980
28	76	e83	78	e70	e92	203	126	205	119	591	220	e2,300
29	75	e82	78	e70	---	527	124	198	114	457	194	e1,270
30	77	e81	79	e72	---	634	122	186	115	345	242	e725
31	75	---	155	e72	---	420	---	200	---	279	208	---
TOTAL	2,265	2,627	2,525	2,863	2,966	12,203	10,066	25,867	6,918	24,233	11,714	25,375
MEAN	73.1	87.6	81.5	92.4	106	394	336	834	231	782	378	846
MAX	82	139	155	212	284	1,220	1,400	3,410	1,030	3,310	1,800	3,270
MIN	68	70	62	69	72	88	122	125	114	98	134	165
CFSM	0.18	0.21	0.20	0.22	0.25	0.94	0.80	2.00	0.55	1.87	0.91	2.03
IN.	0.20	0.23	0.23	0.26	0.26	1.09	0.90	2.31	0.62	2.16	1.04	2.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2003, BY WATER YEAR (WY)

MEAN	180	270	395	474	577	707	675	437	345	225	160	141
MAX	1,309	1,416	1,717	2,258	1,772	2,425	1,768	2,021	1,376	782	1,031	846
(WY)	(2002)	(1993)	(1967)	(1950)	(1959)	(1982)	(1957)	(1943)	(1981)	(2003)	(1990)	(2003)
MIN	46.2	53.4	49.4	43.2	62.0	200	141	86.1	68.1	44.2	30.7	27.6
(WY)	(1947)	(1940)	(1964)	(1977)	(1964)	(1941)	(1946)	(1931)	(1934)	(1941)	(1941)	(1941)

WABASH RIVER BASIN

03328000 EEL RIVER AT NORTH MANCHESTER, IN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1930 - 2003	
ANNUAL TOTAL	134,077		129,622		382	
ANNUAL MEAN	367		355		103	
HIGHEST ANNUAL MEAN					783	
LOWEST ANNUAL MEAN					1931	
HIGHEST DAILY MEAN	3,820	Feb 1	3,410	May 10	7,770	Dec 31, 1990
LOWEST DAILY MEAN	61	Sep 14	62	Dec 9	16	Oct 19, 1956
ANNUAL SEVEN-DAY MINIMUM	63	Sep 9	65	Dec 9	23	Sep 13, 1941
MAXIMUM PEAK FLOW			4,290	Jul 7	8,740	Dec 30, 1990
MAXIMUM PEAK STAGE			10.20	Jul 7	14.81	Dec 30, 1990
ANNUAL RUNOFF (CFSM)	0.88		0.85		0.92	
ANNUAL RUNOFF (INCHES)	11.96		11.56		12.45	
10 PERCENT EXCEEDS	876		834		900	
50 PERCENT EXCEEDS	165		147		176	
90 PERCENT EXCEEDS	70		71		66	

e Estimated

