

WABASH RIVER BASIN

03322900 WABASH RIVER AT LINN GROVE, IN

LOCATION.--Lat 40°39'22", long 85°01'58", in SE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> 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 mi<sup>2</sup>.

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 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	196	1840	e186	2750	267	3950	1360	278	57	15	9.3
2	25	176	1710	e175	4250	400	2730	686	244	48	13	9.1
3	20	168	815	e170	4340	1430	1970	499	231	41	13	9.1
4	17	149	437	e164	3160	1420	1900	401	234	36	11	8.8
5	115	132	309	e160	1900	680	1830	350	197	31	11	9.1
6	1060	122	240	e160	1030	439	1240	292	186	31	12	8.8
7	756	116	209	e157	651	353	831	293	195	31	11	7.8
8	325	108	187	e153	474	304	682	629	170	27	14	6.1
9	163	101	173	e150	377	474	1140	1020	153	28	12	5.5
10	108	97	149	e152	341	1170	1620	801	144	112	10	7.1
11	136	92	138	e156	402	837	1720	450	136	63	7.9	6.5
12	1460	82	129	e152	479	481	1200	500	125	43	7.0	5.9
13	1700	80	142	145	387	402	926	1650	118	37	8.4	8.0
14	1680	75	e520	139	327	346	1540	3060	117	28	12	7.4
15	1900	73	e2040	141	298	310	2130	3970	113	24	8.6	5.4
16	2380	72	e2020	142	267	431	2210	3210	105	22	6.5	4.1
17	2340	66	e2900	134	238	436	1740	2190	98	28	6.2	4.6
18	2050	65	e3100	123	219	374	1030	1260	87	37	5.2	8.4
19	1200	67	3410	117	219	298	697	648	80	20	12	7.9
20	467	66	2970	119	278	284	575	447	76	22	26	13
21	270	58	1740	110	551	275	565	384	73	22	35	26
22	246	55	849	108	373	243	836	322	67	25	19	29
23	382	52	595	104	293	204	622	288	63	100	16	21
24	1450	52	442	111	256	195	436	248	59	45	49	14
25	2530	68	323	122	239	200	382	246	56	30	47	11
26	2910	111	e270	130	253	243	264	284	56	22	33	11
27	2690	82	e250	124	351	250	269	288	70	19	22	17
28	1530	88	e230	117	298	274	1520	407	63	16	15	42
29	590	301	e215	115	---	895	2340	651	96	19	14	57
30	301	1460	e204	257	---	2720	2380	477	72	22	13	29
31	232	---	e196	1290	---	4580	---	349	---	16	11	---
TOTAL	31059	4430	28752	5583	25001	21215	41275	27660	3762	1102	495.8	408.9
MEAN	1002	147.7	927.5	180.1	892.9	684.4	1376	892.3	125.4	35.55	15.99	13.63
MAX	2910	1460	3410	1290	4340	4580	3950	3970	278	112	49	57
MIN	17	52	129	104	219	195	264	246	56	16	5.2	4.1
CFSM	2.21	0.33	2.05	0.40	1.97	1.51	3.04	1.97	0.28	0.08	0.04	0.03
IN.	2.55	0.36	2.36	0.46	2.05	1.74	3.39	2.27	0.31	0.09	0.04	0.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2002, BY WATER YEAR (WY)

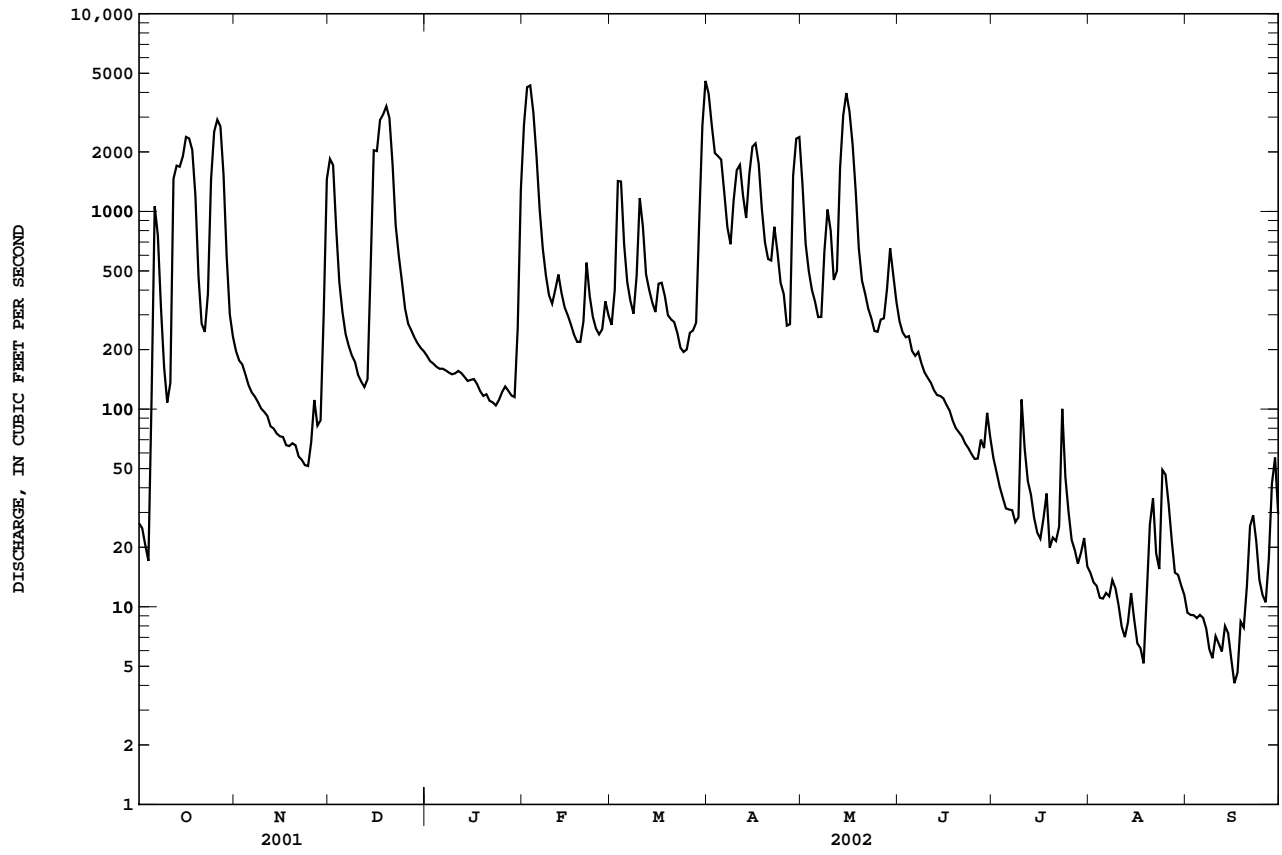
	MEAN	110.2	271.9	489.1	493.0	673.7	769.0	667.3	376.7	362.3	280.7	167.9	94.09
MAX	1002	1853	1514	1563	1717	2397	2085	1584	1914	1877	1513	753	
(WY)	2002	1973	1991	1974	1976	1978	1972	1996	1981	1993	1995	1972	
MIN	6.84	7.52	9.25	6.19	86.0	80.5	68.2	25.9	8.92	11.7	8.20	7.64	
(WY)	1965	1966	1977	1977	1978	1981	1971	1988	1988	1965	1966	1967	

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1965 - 2002

ANNUAL TOTAL	135752	190743.7	
ANNUAL MEAN	371.9	522.6	394.7
HIGHEST ANNUAL MEAN			710
LOWEST ANNUAL MEAN			76.8
HIGHEST DAILY MEAN	3430	Apr 13	4580 Mar 31
LOWEST DAILY MEAN	15	Sep 6	4.1 Sep 16
ANNUAL SEVEN-DAY MINIMUM	21	Sep 3	6.0 Sep 11
MAXIMUM PEAK FLOW			4820 Mar 31
MAXIMUM PEAK STAGE			11.95 Mar 31
ANNUAL RUNOFF (CFSM)	0.82		1.15
ANNUAL RUNOFF (INCHES)	11.15		15.66
10 PERCENT EXCEEDS	1270		1730
50 PERCENT EXCEEDS	119		176
90 PERCENT EXCEEDS	29		12

e Estimated

03322900 WABASH RIVER AT LINN GROVE, IN--Continued



WABASH RIVER BASIN

03322985 WABASH RIVER NEAR BLUFFTON, IN

LOCATION.--Lat 40°43'41", long 85°08'12", in NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> 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 mi<sup>2</sup>.

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 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	239	1960	e194	3100	333	4410	1840	360	64	22	16
2	35	208	1860	e182	3520	501	3480	942	301	55	19	14
3	33	198	1100	e176	4300	1860	2480	667	266	46	18	13
4	27	177	570	e170	3750	1690	1980	523	256	41	18	13
5	81	150	403	e165	2440	952	1950	464	420	37	17	13
6	1130	132	302	e165	1280	586	1480	385	229	34	15	13
7	984	125	248	e163	809	472	999	372	212	34	16	14
8	482	116	215	e160	587	398	853	604	191	32	16	13
9	232	108	192	e156	463	547	1320	1090	164	41	18	12
10	138	99	164	e156	403	1290	1660	1010	148	102	17	10
11	208	99	145	e162	437	1090	1800	617	168	88	14	11
12	1870	86	134	e160	556	639	1470	658	167	52	13	11
13	1970	82	143	e152	480	515	1110	1860	126	43	12	10
14	1970	79	555	146	391	441	1510	2620	118	37	14	12
15	2080	76	1750	149	353	392	2050	3620	119	29	18	12
16	2690	74	1740	148	323	476	2240	3680	121	26	16	11
17	2920	69	2590	139	276	560	1980	2760	99	24	16	9.9
18	2320	65	2840	128	242	479	1280	1640	90	39	15	8.9
19	1570	67	3100	118	267	387	859	890	81	30	18	12
20	688	67	3210	113	446	354	691	582	76	27	27	17
21	378	62	2270	113	728	343	654	489	72	28	36	28
22	348	58	1100	110	537	308	882	417	66	26	33	27
23	589	56	735	106	392	253	795	364	62	97	28	33
24	1580	55	572	109	332	229	541	316	59	73	34	22
25	2770	76	414	118	297	230	467	323	58	43	58	16
26	2690	106	e300	131	319	e248	347	368	55	33	44	14
27	2750	96	e265	129	420	e290	322	362	65	26	33	18
28	2000	82	e245	120	402	325	1840	703	64	24	23	28
29	835	259	e228	120	---	958	2280	1040	80	24	19	56
30	408	1790	e216	298	---	3100	2530	690	84	28	18	43
31	293	---	e204	1660	---	4370	---	475	---	25	16	---
TOTAL	36107	4956	29770	6116	27850	24616	46260	32371	4377	1308	681	530.8
MEAN	1165	165.2	960.3	197.3	994.6	794.1	1542	1044	145.9	42.19	21.97	17.69
MAX	2920	1790	3210	1660	4300	4370	4410	3680	420	102	58	56
MIN	27	55	134	106	242	229	322	316	55	24	12	8.9
CFSM	2.29	0.33	1.89	0.39	1.96	1.56	3.04	2.06	0.29	0.08	0.04	0.03
IN.	2.64	0.36	2.18	0.45	2.04	1.80	3.39	2.37	0.32	0.10	0.05	0.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2002, BY WATER YEAR (WY)

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
MEAN	1165	165.2	960.3	197.3	994.6	794.5	1542	1044	146.0	42.13	22.03	17.66
MAX	1165	165	960	197	995	794	1542	1044	146	42.1	22.0	17.7
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002
MIN	1165	165	960	197	995	794	1542	1044	146	42.1	22.0	17.7
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002

SUMMARY STATISTICS

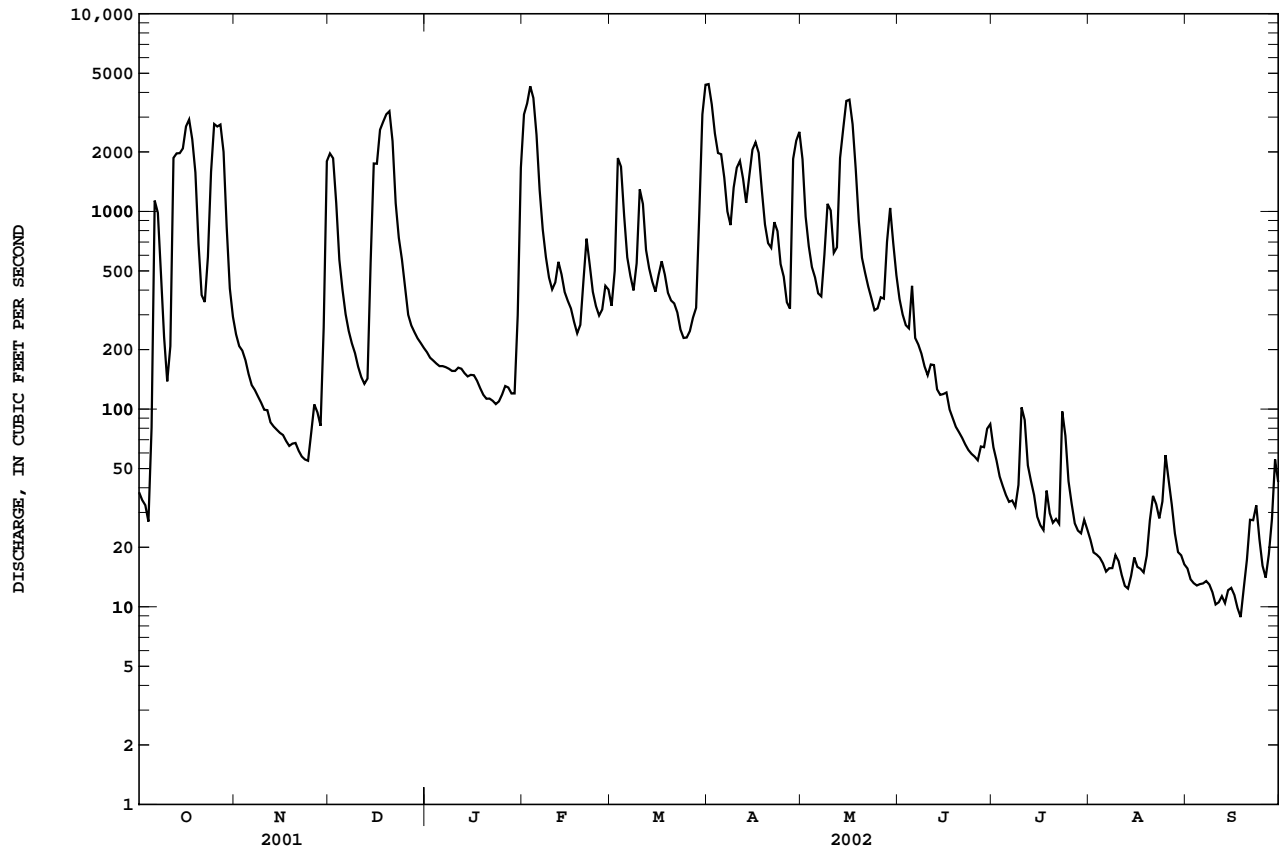
FOR 2002 WATER YEAR

WATER YEARS 1994 - 2002

ANNUAL TOTAL	214942.8	
ANNUAL MEAN	588.9	588.9
HIGHEST ANNUAL MEAN		589
LOWEST ANNUAL MEAN		589
HIGHEST DAILY MEAN	4410	4410
LOWEST DAILY MEAN	8.9	2.9
ANNUAL SEVEN-DAY MINIMUM	11	3.4
MAXIMUM PEAK FLOW	4640	4640
MAXIMUM PEAK STAGE	12.88	12.88
ANNUAL RUNOFF (CFSM)	1.16	1.16
ANNUAL RUNOFF (INCHES)	15.74	15.75
10 PERCENT EXCEEDS	1950	1860
50 PERCENT EXCEEDS	208	176
90 PERCENT EXCEEDS	18	15

e Estimated

03322985 WABASH RIVER NEAR BLUFFTON, IN--Continued



## 03323500 WABASH RIVER AT HUNTINGTON, IN

LOCATION.--Lat 40°51'20", long 85°29'53", in SW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.27, T.28 N., R.9 E., Huntington County, Hydrologic Unit 05120101, (MAJENICA, IN quadrangle), on right bank at the Huntington Water and Light Plant, 2 mi south of Huntington, 2.4 mi downstream from Huntington Lake, 3.2 mi upstream from Little River, and at mile 409.0.

DRAINAGE AREA.--721 mi<sup>2</sup>.

PERIOD OF RECORD.--January 1951 to September 2001 (discharge). October 2001 to September 2002 (stage only).

REVISED RECORDS.--WSP 1909: 1959. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 700.04 ft above National Geodetic Vertical Datum of 1929, (levels by State of Indiana, Department of Natural Resources). Prior to July 5, 1951, nonrecording gage at same site and datum.

REMARKS.--Flow regulated by Huntington Lake since January 1969.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 14.59 ft, April 2, 2002; minimum gage height 9.08 ft, Aug. 7-12, 31, and Sept. 1-2, 2002.

EXTREMES FOR OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 22.7 ft, from high-water mark by U.S. Army Corps. of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 14.59 ft, Apr. 2; minimum gage height 9.08 ft, Aug. 7-12, 31 and Sept. 1-2.

## GAGE HEIGHT, in FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

## DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.18	10.96	11.60	9.75	10.21	10.16	14.57	12.29	10.62	9.40	9.37	9.08
2	9.17	10.91	13.02	9.85	12.18	10.08	14.57	11.65	10.40	9.39	9.30	9.09
3	9.77	10.58	12.75	9.74	13.77	11.61	14.43	10.69	9.74	9.38	9.20	9.11
4	9.70	10.54	10.87	9.67	14.19	12.82	13.45	10.36	9.91	9.21	9.13	9.11
5	9.60	10.51	10.76	9.66	14.09	11.54	12.11	9.91	10.07	9.26	9.13	9.11
6	10.83	10.16	9.44	9.68	13.86	10.28	12.05	10.07	11.07	9.25	9.13	9.11
7	10.83	9.86	9.86	9.65	13.51	10.28	11.57	9.95	11.86	9.25	9.08	9.11
8	10.35	9.57	9.88	9.53	11.80	10.18	10.57	10.07	10.40	9.25	9.08	9.11
9	9.72	9.62	9.83	9.68	11.12	10.21	10.83	10.60	10.08	9.26	9.08	9.30
10	9.83	9.71	9.70	9.68	10.34	10.79	11.80	10.70	9.71	9.48	9.08	9.30
11	10.07	9.75	9.70	9.68	10.32	11.06	11.78	10.71	9.71	9.57	9.08	9.11
12	9.91	9.74	9.63	9.56	10.30	10.98	11.76	9.54	9.71	9.59	9.13	9.11
13	9.95	9.68	9.67	9.66	10.29	10.19	11.70	---	9.76	9.59	9.13	9.11
14	10.00	9.57	9.79	9.66	10.00	10.10	11.31	---	9.74	9.49	9.20	9.12
15	11.09	9.56	11.34	9.65	10.00	10.06	11.29	12.52	9.50	9.14	9.20	9.31
16	10.47	9.56	11.87	9.56	9.87	9.98	11.70	13.01	9.65	9.14	9.13	9.31
17	10.48	9.56	10.18	9.64	9.88	10.24	11.95	13.01	9.69	9.17	9.13	9.31
18	12.30	9.56	12.81	9.52	9.74	10.23	11.28	12.91	9.58	9.20	9.14	9.31
19	13.36	9.55	13.83	9.53	9.86	9.96	10.36	12.74	9.50	9.20	9.14	9.31
20	13.56	9.55	14.24	9.55	10.57	9.95	10.23	11.75	9.49	9.20	9.25	9.32
21	13.69	9.55	14.05	9.65	10.86	9.86	10.23	10.47	9.48	9.20	9.25	9.35
22	12.75	9.54	13.10	9.51	10.84	9.87	9.42	9.99	9.39	9.20	9.26	9.46
23	10.92	9.50	10.72	9.51	10.54	9.80	10.51	10.00	9.39	9.26	9.26	9.46
24	10.63	9.50	10.97	9.53	10.32	9.79	10.50	9.98	9.38	9.30	9.37	9.44
25	10.62	9.53	10.80	9.55	10.20	9.79	10.25	9.80	9.38	9.38	9.36	9.46
26	12.37	9.72	10.26	9.55	9.96	9.79	10.10	10.80	9.42	9.38	9.36	9.39
27	13.48	9.75	9.98	9.55	10.01	9.81	9.91	10.09	9.41	9.36	9.35	9.39
28	13.86	9.83	9.91	9.55	10.16	9.89	11.07	10.10	9.41	9.34	9.30	9.38
29	13.69	9.74	9.89	9.63	---	10.48	11.89	10.86	9.41	9.34	9.25	9.39
30	13.46	10.55	9.52	9.83	---	10.63	12.30	10.86	9.40	9.39	9.19	9.38
31	12.12	---	9.74	10.95	---	12.92	---	10.64	---	9.44	9.08	---
MEAN	11.22	9.86	10.96	9.67	11.03	10.43	11.52	---	9.81	9.32	9.20	9.26
MAX	13.86	10.96	14.24	10.95	14.19	12.92	14.57	---	11.86	9.59	9.37	9.46
MIN	9.17	9.50	9.44	9.51	9.74	9.79	9.42	---	9.38	9.14	9.08	9.08

## 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, -0.0°C, Jan. 21, Feb. 19, 1988; Feb. 19, 1991; Jan. 30, 1993; Jan. 25, 27-30, and Feb. 1, 1996;

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 26.9°C, July 31 and Aug. 3-4, minimum, 0.4°C, Mar. 4.

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.7	14.5	15.7	10.3	9.8	10	9.3	8.4	9.0	4.0	3.1	3.4
2	17.6	15.5	16.6	10.5	10.0	10.2	8.7	8.0	8.6	3.9	2.9	3.3
3	19.3	15.6	16.8	10.8	9.9	10.2	8.6	8.3	8.4	4.3	2.8	3.4
4	16.6	15.5	15.9	11.1	10.2	10.5	9.2	8.2	8.7	4.6	3.0	3.7
5	15.7	14.3	14.9	11.3	10.3	10.7	11.0	9.2	10.1	4.6	3.5	4.0
6	15.7	13.7	14.8	11.7	10.1	10.8	11.8	11.0	11.4	4.3	3.9	4.1
7	14.9	13.6	14.4	12.7	10.6	11.3	11.2	9.7	10.6	4.2	3.2	3.7
8	14.0	13.4	13.6	12.3	10.8	11.3	9.9	9.2	9.7	5.2	3.2	4.0
9	15.3	13.1	13.9	12.1	9.8	10.8	9.5	8.1	8.8	5.1	3.7	4.4
10	14.1	13.1	13.6	11.8	9.7	10.5	9.2	7.5	8.2	5.0	4.0	4.4
11	14.4	13.7	13.8	11.3	9.6	10.2	8.8	7.0	7.7	4.7	3.9	4.2
12	15.1	14.0	14.6	11.1	9.0	9.8	8.1	7.1	7.6	5.1	3.8	4.4
13	15.1	13.8	14.5	11.3	9.1	9.9	8.7	8.1	8.4	5.4	4.0	4.5
14	15.3	14.0	14.8	11.4	9.8	10.5	8.5	8.2	8.3	6.0	4.3	4.8
15	15.1	13.7	14.4	12.0	10.1	10.9	8.5	6.3	7.5	4.7	4.2	4.4
16	14.5	13.3	13.8	12.6	10.7	11.5	7.2	6.9	7.1	5.1	4.1	4.6
17	14.1	13.5	13.7	12.1	10.8	11.4	8.7	7.2	8.0	4.9	4.1	4.5
18	13.7	13.1	13.4	12.9	11.4	12.0	8.4	6.7	7.5	6.0	4.0	4.7
19	13.2	12.4	12.8	12.2	10.8	11.8	7.4	6.7	7.2	6.2	4.6	5.1
20	12.5	12.1	12.3	11.5	10.3	10.7	7.1	6.3	6.7	6.0	4.8	5.2
21	12.2	11.9	12.1	11.2	9.4	10.2	6.3	5.4	5.8	5.9	4.7	5.2
22	12.8	12.2	12.5	11.1	9.2	10.0	5.4	4.9	5.0	7.7	4.6	5.9
23	12.8	12.1	12.5	11.2	9.2	10.2	5.3	4.7	4.9	7.3	5.9	6.6
24	13.3	12.1	12.8	11.7	10.4	11.0	4.7	3.5	4.1	6.7	5.5	6.2
25	12.6	12.0	12.2	11.4	10.4	10.8	3.5	2.3	2.8	7.5	5.2	6.1
26	12.0	11.5	11.9	10.6	9.3	10.1	2.8	1.8	2.4	8.2	5.9	6.7
27	11.8	11.5	11.8	11.0	9.9	10.5	3.4	2.3	2.8	8.5	6.2	7.1
28	11.7	11.1	11.5	9.9	9.5	9.7	3.6	2.8	3.1	9.0	6.6	7.6
29	11.1	10.2	10.7	9.8	9.4	9.6	3.3	2.4	2.7	8.4	7.4	7.9
30	10.5	10.1	10.3	10.5	8.0	9.4	4.3	2.5	3.3	8.3	6.7	7.4
31	10.2	9.8	10.0	---	---	---	3.7	2.5	3.3	6.8	3.5	5.5
MONTH	19.3	9.8	13.4	12.9	8.0	10.6	11.8	1.8	6.8	9.0	2.8	5.1

## WABASH RIVER BASIN

03323500 WABASH RIVER AT HUNTINGTON, IN--Continued

WATER TEMPERATURE, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	6.3	5.1	5.7	5.2	3.0	4.0	5.9	4.8	5.5	11.7	10.8	11.2
2	5.6	3.1	4.5	5.1	4.2	4.7	6.5	5.9	6.2	11.5	11.3	11.4
3	4.2	3.1	4.0	4.9	2.4	3.5	7.1	6.4	6.7	12.6	11.2	11.7
4	3.9	3.3	3.5	2.6	0.4	1.6	7.5	7.0	7.3	13.5	11.6	12.5
5	3.3	2.7	3.0	1.9	1.3	1.6	7.6	7.3	7.5	14.1	12.2	13.0
6	2.7	2.4	2.6	4.9	1.9	3.6	7.7	7.0	7.3	14.0	12.3	13.0
7	2.6	2.1	2.3	6.9	4.5	5.9	7.7	7.0	7.3	14.4	12.9	13.4
8	3.0	2.3	2.6	7.8	6.4	7.1	8.3	7.4	7.9	15.1	13.5	14.5
9	4.1	2.9	3.5	9.6	7.1	8.3	8.6	7.9	8.3	15.9	14.6	15.2
10	5.4	4.0	4.8	7.1	4.4	5.3	9.5	7.7	8.7	---	---	---
11	5.8	4.8	5.2	4.7	3.5	4.4	10.9	9.3	10.0	---	---	---
12	5.5	4.4	4.8	5.8	4.5	5.3	11.8	10.4	11.1	---	---	---
13	5.4	4.1	4.5	8.5	5.6	7.2	12.9	11.5	12.1	---	---	---
14	5.7	3.9	4.5	10.0	7.9	9.1	13.9	12.9	13.3	---	---	---
15	6.7	4.2	5.2	10.5	9.3	9.9	14.8	13.6	14.2	14.0	13.3	13.6
16	6.3	5.0	5.4	10.8	8.6	9.6	16.9	14.6	15.8	14.0	13.4	13.7
17	6.6	4.7	5.4	8.7	7.5	8.1	17.7	16.6	17.0	14.4	13.8	14.1
18	7.2	4.4	5.5	8.2	7.5	7.8	19.3	17.7	18.6	14.3	14.0	14.1
19	6.8	5.5	5.9	8.0	7.3	7.7	19.6	18.5	19.1	14.3	14.0	14.1
20	7.1	6.1	6.5	8.0	7.2	7.6	19.0	18.2	18.6	14.2	13.6	13.9
21	6.5	5.6	6.2	7.4	5.5	6.9	18.2	16.5	17.4	14.4	13.0	13.6
22	6.0	5.1	5.6	6.1	4.0	5.0	16.5	13.8	15.8	15.2	12.8	13.7
23	6.1	4.8	5.4	7.4	3.9	5.2	17.9	13.0	14.6	14.8	12.6	13.6
24	6.9	5.3	6.0	6.2	5.1	5.6	16.0	14.1	15.0	14.9	13.2	13.9
25	7.5	5.9	6.6	5.8	4.0	4.7	15.1	13.8	14.4	15.8	13.4	14.6
26	7.2	5.0	6.3	4.0	2.4	3.2	15.2	12.9	13.9	16.2	12.9	14.7
27	5.2	3.3	4.5	6.4	3.1	4.4	13.1	11.8	12.7	16.1	14.6	15.5
28	4.4	3.0	3.5	5.9	3.6	4.8	13.4	11.7	12.6	16.6	14.6	15.3
29	---	---	---	6.4	3.9	5.5	12.4	11.4	12.0	17.1	14.8	16.1
30	---	---	---	6.8	5.3	6.1	11.4	10.9	11.1	17.9	16.8	17.3
31	---	---	---	5.3	4.0	5.1	---	---	---	18.0	17.2	17.6
MONTH	7.5	2.1	4.8	10.8	0.4	5.8	19.6	4.8	12.1	---	---	---

WATER TEMPERATURE, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	19.3	17.9	18.6	23.5	19.6	21.5	26.6	22.8	24.5	24.1	20.8	22.4
2	20.3	18.6	19.3	23.8	19.6	21.5	25.1	22.4	23.8	24.1	21.3	22.6
3	19.4	18.5	19.0	24.3	19.8	21.9	26.9	22.1	24.2	23.4	21.3	22.3
4	21.2	17.9	19.3	24.0	20.1	22.0	26.9	22.8	24.5	22.6	19.5	21.0
5	20.0	18.2	19.4	23.7	19.7	21.7	25.7	23.9	24.7	22.7	19.5	21.0
6	21.3	19.2	20.2	24.2	18.7	21.3	24.4	22.1	23.0	22.8	19.4	21.0
7	21.0	19.9	20.5	25.0	19.2	21.9	23.7	20.2	21.6	23.4	19.9	21.6
8	22.5	18.2	19.8	24.8	19.7	22.4	23.8	20.0	21.6	23.3	20.7	22.0
9	19.4	17.6	18.4	24.0	21.0	22.7	24.1	19.8	21.7	24.4	21.1	22.6
10	19.9	17.3	18.3	25.8	20.9	22.7	24.3	20.3	22.1	24.1	20.9	22.4
11	19.4	17.0	18.1	25.2	20.9	22.7	24.5	21.2	22.6	22.4	19.7	21.0
12	18.7	17.5	18.1	25.3	21.7	23.2	25.1	22.0	23.4	21.4	18.4	19.8
13	18.7	17.3	18.0	25.4	21.6	23.2	24.2	22.2	23.1	20.9	18.2	19.6
14	20.1	18.0	18.8	25.3	21.8	23.3	22.3	21.1	21.5	21.4	19.0	20.1
15	21.3	18.4	19.5	25.7	21.4	23.1	23.7	20.6	22.1	22.2	20.3	21.1
16	21.3	18.2	19.5	24.4	21.2	22.9	23.4	21.4	22.3	23.2	20.0	21.3
17	21.8	18.7	19.9	24.0	21.6	22.8	24.0	21.6	22.7	22.4	18.8	20.7
18	22.1	18.9	20.2	25.0	21.5	23.1	23.5	21.9	22.7	22.7	19.9	21.2
19	22.4	18.6	20.2	24.8	21.7	23.1	22.5	20.9	21.4	23.1	20.4	21.7
20	22.2	18.5	20.1	25.3	20.9	23.1	23.4	19.4	21.3	21.5	20.0	20.6
21	21.3	18.5	19.8	25.9	21.6	23.7	24.8	19.9	22.4	22.8	19.5	20.9
22	22.3	18.6	20.2	25.8	22.6	24.2	23.8	21.5	22.8	20.8	19.1	19.7
23	22.8	18.5	20.5	24.2	21.6	22.7	23.3	21.5	22.6	21.9	18.4	19.7
24	23.3	18.1	20.4	24.9	20.3	22.5	24.3	21.3	22.7	22.3	17.7	19.1
25	21.8	18.4	20.0	25.7	20.5	22.8	24.2	21.0	22.5	20.3	17.7	18.8
26	21.3	18.5	19.9	24.8	21.6	23.1	24.3	21.3	22.7	20.2	17.9	18.9
27	20.6	19.2	19.8	24.2	22.1	23.1	25.3	20.7	22.6	20.6	18.0	19.1
28	22.9	18.7	20.5	25.5	22.4	23.7	25.0	20.9	22.7	20.1	17.7	18.8
29	23.2	18.7	20.7	24.7	21.9	23.1	24.7	20.8	22.6	21.3	17.7	19.1
30	22.9	19.1	20.8	25.9	21.8	23.5	23.9	20.4	22.3	21.6	18.1	19.5
31	---	---	---	26.9	21.9	24.0	23.8	20.2	21.9	---	---	---
MONTH	23.3	17.0	19.6	26.9	18.7	22.8	26.9	19.4	22.7	24.4	17.7	20.7

WABASH RIVER BASIN

107

03324000 LITTLE RIVER NEAR HUNTINGTON, IN

LOCATION.--Lat 40°54'14", long 85°24'22", in NE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> 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 mi<sup>2</sup>.

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 those for Oct. 4 to Apr. 17 and 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 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	151	1720	e100	3230	154	1080	201	154	207	41	23
2	30	147	765	e96	2680	219	615	853	128	160	33	24
3	29	184	428	e94	1660	1710	903	514	100	130	27	23
4	28	149	306	e92	765	792	500	267	98	112	26	22
5	132	127	232	e92	440	370	349	184	709	92	23	21
6	772	112	189	e93	315	270	261	155	808	67	20	22
7	366	102	160	e90	242	295	209	154	321	55	21	20
8	174	96	137	e86	197	254	440	243	169	48	22	20
9	110	92	123	86	165	789	1570	623	122	113	20	20
10	93	85	109	77	154	1150	819	442	101	263	20	19
11	391	78	100	73	156	480	433	284	89	80	22	18
12	2850	71	94	70	150	344	314	2160	89	54	22	18
13	2390	67	160	69	132	277	1110	2370	83	42	22	18
14	2170	66	884	67	110	227	758	1590	75	38	29	19
15	1900	69	1870	69	109	190	433	679	76	34	37	20
16	2290	67	861	64	104	170	293	402	74	31	32	20
17	2480	62	2240	61	96	151	213	443	68	30	27	18
18	1730	60	2300	58	83	139	171	443	61	28	26	18
19	867	61	1250	56	108	121	148	317	64	28	39	18
20	513	60	610	54	922	119	209	227	52	26	72	27
21	359	58	404	55	947	113	183	178	47	26	40	88
22	1140	56	306	54	468	98	216	148	46	24	30	49
23	1540	54	282	54	303	93	152	131	45	32	226	30
24	1550	53	241	58	225	92	123	119	44	34	171	29
25	1820	259	186	60	188	99	112	394	41	30	81	24
26	885	192	160	57	191	e103	97	1210	46	26	49	21
27	477	122	149	56	216	e114	105	413	897	25	36	33
28	333	111	132	53	169	151	1060	433	1160	25	32	63
29	255	401	e120	77	---	724	566	853	575	32	27	36
30	200	2080	e110	1320	---	2510	291	407	314	102	25	25
31	169	---	e105	2670	---	2120	---	217	---	57	24	---
TOTAL	28076	5292	16733	6061	14525	14438	13733	17054	6656	2051	1322	806
MEAN	905.7	176.4	539.8	195.5	518.8	465.7	457.8	550.1	221.9	66.16	42.65	26.87
MAX	2850	2080	2300	2670	3230	2510	1570	2370	1160	263	226	88
MIN	28	53	94	53	83	92	97	119	41	24	20	18
CFSM	3.44	0.67	2.05	0.74	1.97	1.77	1.74	2.09	0.84	0.25	0.16	0.10
IN.	3.97	0.75	2.37	0.86	2.05	2.04	1.94	2.41	0.94	0.29	0.19	0.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2002, BY WATER YEAR (WY)

MEAN	96.56	158.5	275.0	323.6	400.1	475.3	420.2	244.0	241.7	117.0	64.67	58.49
MAX	906	1137	1010	1693	1164	1765	1396	748	968	661	501	414
(WY)	2002	1993	1967	1950	1959	1982	1957	1996	2000	1996	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

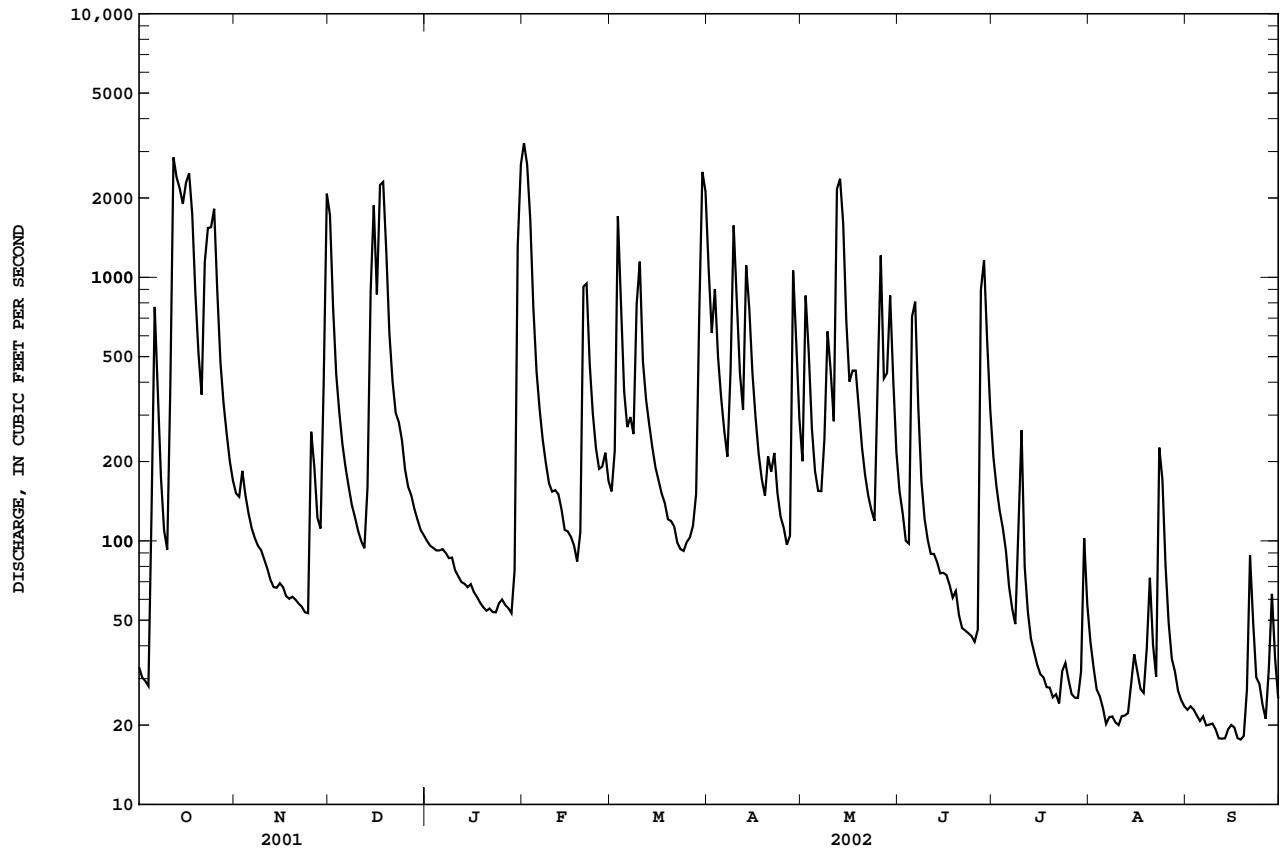
SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1945 - 2002

ANNUAL TOTAL	111926	126747	
ANNUAL MEAN	306.6	347.3	
HIGHEST ANNUAL MEAN			238.6
LOWEST ANNUAL MEAN			450
HIGHEST DAILY MEAN	3040	Feb 10	67.0
LOWEST DAILY MEAN	17	Aug 16	1954
ANNUAL SEVEN-DAY MINIMUM	20	Aug 12	5610
MAXIMUM PEAK FLOW			Mar 14 1982
MAXIMUM PEAK STAGE			1.1
ANNUAL RUNOFF (CFSM)	1.17		1.8
ANNUAL RUNOFF (INCHES)	15.83		1.1
10 PERCENT EXCEEDS	817		Oct 8 1946
50 PERCENT EXCEEDS	103		19
90 PERCENT EXCEEDS	33		Sep 11
			19
			Feb 1
			5990
			Jan 4 1950
			14.53
			Feb 1
			19.50
			Feb 25 1985
			0.91
			1.32
			17.93
			12.33
			597
			69
			26
			15

e Estimated



03324000 LITTLE RIVER NEAR HUNTINGTON, IN--Continued



03324300 SALAMONIE RIVER NEAR WARREN, IN

LOCATION.--Lat 40°42'45", long 85°27'13", in SE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> 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 mi<sup>2</sup>.

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 those for July 2 - Sept. 30 and estimated daily discharges, which are poor.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	205	3450	e95	5400	256	3910	609	258	41	20	21
2	44	188	1210	e90	4900	514	1150	471	174	36	19	20
3	41	191	529	e85	4160	3510	1830	391	125	34	20	22
4	44	171	353	e81	1140	1960	1490	265	99	32	19	21
5	133	152	267	e79	500	519	592	208	891	31	20	19
6	2000	138	222	e78	330	364	403	179	255	29	19	17
7	1140	131	190	e77	261	359	311	174	133	27	19	19
8	361	123	165	e77	226	301	441	558	95	26	22	22
9	195	117	149	77	197	628	1740	837	77	34	21	27
10	134	108	132	82	186	1800	1740	566	66	45	17	e22
11	527	105	121	82	239	690	634	278	63	84	16	e18
12	4260	97	112	82	371	375	408	439	119	40	18	e17
13	3800	90	129	82	261	320	974	3270	73	26	23	e16
14	2440	90	1070	81	193	273	949	4450	59	24	28	e18
15	3270	90	3390	79	167	240	1690	4560	56	22	27	e19
16	3450	87	1610	78	157	408	727	1410	53	21	23	e18
17	3950	86	3750	75	146	502	385	497	43	19	22	e19
18	1680	84	4550	72	127	314	273	356	38	19	22	e17
19	721	82	3520	70	226	240	226	265	36	20	40	34
20	456	82	1020	69	946	217	198	211	36	24	50	56
21	326	80	508	67	1160	214	235	174	36	29	50	67
22	515	79	351	67	598	196	610	151	36	24	37	74
23	1170	76	313	65	352	168	407	138	36	33	e90	34
24	3260	79	293	70	261	155	246	131	36	41	e140	21
25	4480	319	229	73	218	155	203	149	36	40	e150	15
26	4050	251	179	86	228	144	168	166	36	37	e100	15
27	2030	166	156	88	345	159	218	302	39	32	e60	23
28	604	130	e120	82	330	227	3650	2160	43	32	41	36
29	392	569	e110	86	---	1470	3930	3850	39	49	32	61
30	295	3600	e100	278	---	5300	1720	1130	51	35	26	25
31	241	---	e99	2890	---	6290	---	489	---	24	22	---
TOTAL	46056	7766	28397	5443	23625	28268	31458	28834	3137	1010	1213	813
MEAN	1486	258.9	916.0	175.6	843.8	911.9	1049	930.1	104.6	32.58	39.13	27.10
MAX	4480	3600	4550	2890	5400	6290	3930	4560	891	84	150	74
MIN	41	76	99	65	127	144	168	131	36	19	16	15
CFSM	3.50	0.61	2.16	0.41	1.99	2.15	2.47	2.19	0.25	0.08	0.09	0.06
IN.	4.03	0.68	2.49	0.48	2.07	2.47	2.75	2.52	0.27	0.09	0.11	0.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2002, BY WATER YEAR (WY)

MEAN	114.0	299.9	475.6	486.6	637.2	835.7	709.6	382.1	366.3	236.0	140.4	92.28
MAX	1486	1794	1685	1724	1906	2616	2214	1371	2312	1477	1363	894
(WY)	2002	1993	1991	1974	1976	1978	1964	1996	1958	1998	1998	1972
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 2001 CALENDAR YEAR

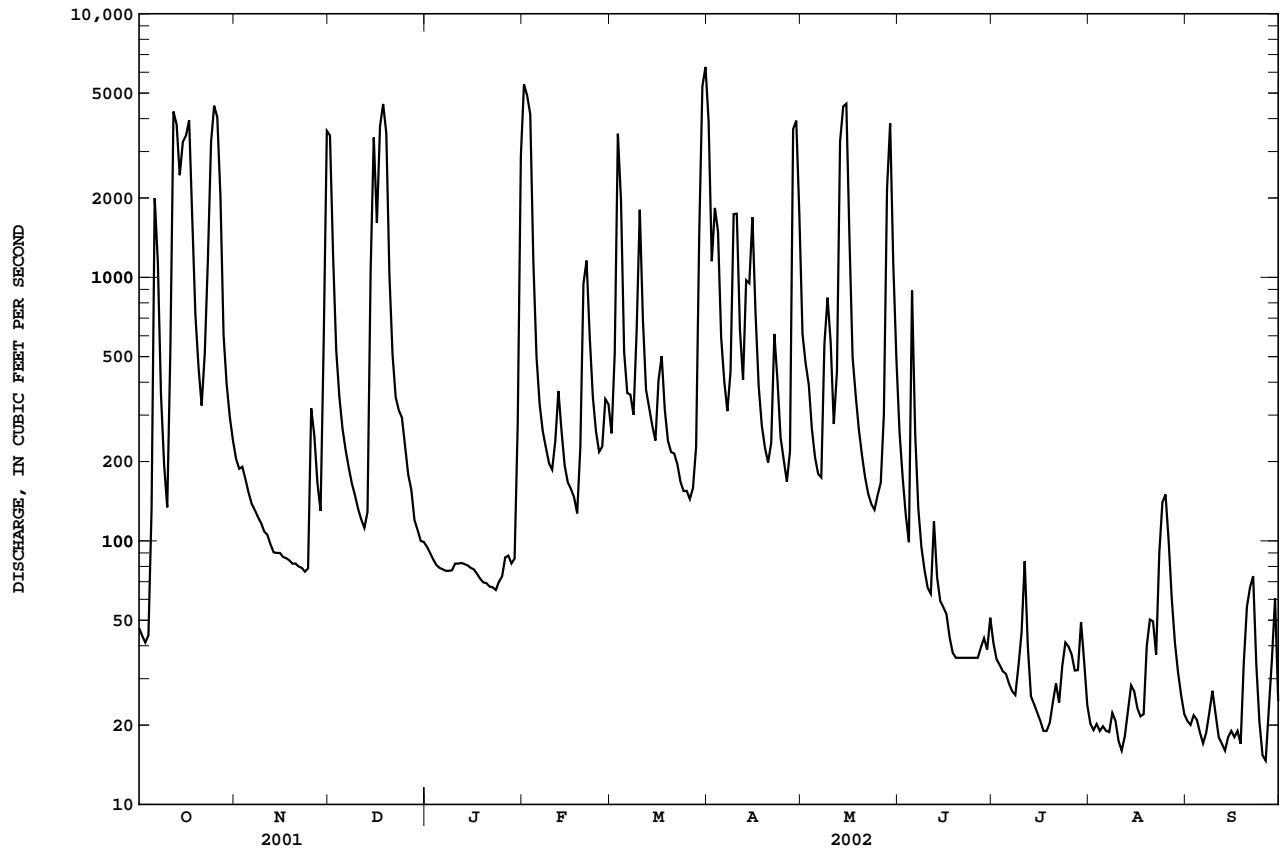
FOR 2002 WATER YEAR

WATER YEARS 1958 - 2002

ANNUAL TOTAL	188257	206020										
ANNUAL MEAN	515.8	564.4								396.5		
HIGHEST ANNUAL MEAN										665		1993
LOWEST ANNUAL MEAN										109		1966
HIGHEST DAILY MEAN	5920	Apr 12				6290	Mar 31		10900	Jan 23		1999
LOWEST DAILY MEAN	22	Aug 7				15	Sep 25		5.1	Jan 2		1977
ANNUAL SEVEN-DAY MINIMUM	25	Aug 3				e18	Sep 12		5.9	Dec 29		1976
MAXIMUM PEAK FLOW						6550	Mar 31		13500	Aug 5		1998
MAXIMUM PEAK STAGE						12.35	Mar 31			17.05		1959
ANNUAL RUNOFF (CFSM)	1.21					1.33				0.93		
ANNUAL RUNOFF (INCHES)	16.48					18.03				12.68		
10 PERCENT EXCEEDS	1470					1740				974		
50 PERCENT EXCEEDS	131					140				92		
90 PERCENT EXCEEDS	40					22				17		

e Estimated

03324300 SALAMONIE RIVER NEAR WARREN, IN--Continued



## 03324500 SALAMONIE RIVER AT DORA, IN

LOCATION.--Lat 40°48'42", long 85°41'02", in NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.12, T.27 N., R.7 E., Wabash County, Hydrologic Unit 05120102, (LAGRO, IN quadrangle), on right bank, 0.4 mi downstream from Salamonie Lake, 1.5 mi northwest of Dora, and 3.0 mi upstream from mouth.

DRAINAGE AREA.--557 mi<sup>2</sup>.

PERIOD OF RECORD.--November 1923 to September 2001 (discharge). October 2001 to September 2002 (stage only). Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 1275: 1931(M), 1932, 1933(M), 1935-36(M), 1938-40(M), 1941-42, 1945, 1952. WSP 1335: 1934(M). WSP 1555: 1952, 1955-56(M), 1957. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 673.96 ft above National Geodetic Vertical Datum of 1929, (levels by State of Indiana, Department of Natural Resources). Prior to Oct. 1, 1951, non-recording gage at site 1.5 mi upstream at datum 688.59 ft above National Geodetic Vertical Datum of 1929, (levels by U.S. Army Corps of Engineers) and Oct. 1, 1951, to Oct. 8, 1961, water-stage recorder located on left bank 2,000 ft upstream at datum 679.77 ft above National Geodetic Vertical Datum of 1929, (levels by U.S. Army Corps of Engineers). Oct. 9, 1961, to Sept. 30, 1974, water-stage recorder at site described in "LOCATION" paragraph.

REMARKS.--Flow regulated by Salamonie Lake since April 1967.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 8.87 ft, Nov. 10, 2001; minimum gage height, 2.14 ft, Sept. 3, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 8.87 ft, Nov. 10; minimum gage height, 2.14 Sept. 3.

## GAGE HEIGHT, in FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

## DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.19	7.44	6.11	2.84	2.85	3.41	3.93	5.71	4.23	2.58	2.76	2.76
2	2.20	7.39	6.10	3.48	2.87	3.76	3.95	3.98	3.62	2.58	2.68	2.76
3	4.44	7.55	6.72	3.09	3.88	3.79	3.95	5.71	3.42	2.58	2.68	2.57
4	4.42	7.88	6.62	2.60	5.10	5.64	3.96	6.91	2.97	2.50	2.50	2.57
5	4.41	7.90	5.09	3.09	6.43	7.00	3.04	5.19	5.61	2.50	2.50	2.49
6	4.41	8.20	3.56	3.09	7.08	5.58	3.04	3.72	4.48	2.49	2.51	2.49
7	5.68	8.36	3.56	3.09	7.36	4.75	3.04	3.72	3.42	2.49	2.51	2.49
8	6.11	8.53	3.24	3.09	7.68	4.21	2.90	4.40	3.44	2.49	2.51	2.49
9	6.09	8.72	3.32	2.60	7.80	4.24	5.14	4.85	3.28	2.49	2.51	2.49
10	6.08	8.78	3.32	2.84	7.65	5.19	6.04	3.72	2.97	2.49	2.51	2.49
11	3.88	8.68	3.32	3.12	6.92	5.17	5.14	3.73	2.97	2.49	2.51	2.49
12	2.41	4.44	3.15	3.13	4.18	5.14	3.72	2.61	3.32	2.49	2.51	2.49
13	2.43	4.42	3.24	3.13	4.17	4.01	3.70	2.60	3.10	2.49	2.51	2.49
14	2.46	4.41	3.42	3.02	3.48	3.62	5.08	3.36	3.10	2.49	2.51	2.50
15	2.45	4.41	5.36	3.02	3.47	3.62	6.40	4.24	2.58	2.49	2.50	2.50
16	2.49	4.40	6.89	2.86	3.22	3.61	4.51	4.24	2.83	2.49	2.50	2.50
17	2.47	4.40	2.71	2.86	3.28	3.63	3.47	4.24	2.83	2.49	2.50	2.50
18	2.46	4.40	2.71	2.86	3.26	4.21	3.47	4.24	2.83	2.49	2.50	2.50
19	2.46	5.94	3.72	2.86	3.19	3.57	3.31	4.56	2.76	2.49	2.50	2.51
20	2.46	5.95	6.01	2.86	4.16	3.38	3.13	5.78	2.76	2.50	2.50	2.52
21	2.46	5.91	6.73	2.86	5.92	3.01	3.45	7.02	2.76	2.50	2.50	2.51
22	2.48	5.87	6.64	2.86	5.88	3.01	2.58	8.01	2.58	2.50	2.51	2.51
23	2.49	5.83	7.24	2.86	4.67	3.39	3.88	7.27	2.50	2.50	2.51	3.54
24	2.54	5.79	7.74	2.87	3.73	3.46	3.88	3.80	2.50	2.50	2.78	3.54
25	2.49	5.76	7.59	2.86	3.39	3.45	3.46	3.60	2.50	2.50	2.92	3.59
26	2.49	5.70	6.85	2.87	3.13	3.17	3.32	4.49	2.58	2.50	3.07	3.59
27	2.49	5.65	4.09	3.00	3.99	3.44	3.07	4.49	2.58	2.50	2.99	3.68
28	2.49	4.64	3.48	3.00	3.88	3.40	3.06	4.50	2.58	2.50	2.59	3.68
29	3.79	4.63	3.47	2.88	---	3.77	5.23	6.12	2.58	2.52	2.59	3.68
30	4.06	4.74	3.40	3.69	---	3.84	5.73	6.92	2.58	3.36	2.59	3.68
31	5.97	---	2.60	3.81	---	3.87	---	6.89	---	3.14	2.76	---
MEAN	3.41	6.22	4.77	3.00	4.74	4.04	3.95	4.86	3.08	2.55	2.60	2.82
MAX	6.11	8.78	7.74	3.81	7.80	7.00	6.40	8.01	5.61	3.36	3.07	3.68
MIN	2.19	4.40	2.60	2.60	2.85	3.01	2.58	2.60	2.50	2.49	2.50	2.49

WTR YR 2002 MEAN 3.83 MAX 8.78 MIN 2.19

03324500 SALAMONIE RIVER AT DORA, 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, 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, 22.9°C, Aug. 28, minimum, 0.8°C, Jan. 1.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	20.0	15.2	17.6	11.9	11.8	11.8	8.9	8.4	8.6	1.3	0.8	1.0
2	21.0	16.0	18.3	11.9	11.7	11.9	8.4	8.2	8.3	1.2	1.0	1.1
3	20.3	16.2	17.5	11.8	11.7	11.7	8.3	8.2	8.2	1.3	1.1	1.2
4	17.4	17.2	17.3	11.7	11.6	11.7	8.4	8.2	8.3	1.6	1.1	1.3
5	17.3	17.1	17.2	11.6	11.5	11.5	8.9	8.4	8.6	1.6	1.2	1.4
6	17.1	16.9	17.0	11.5	11.4	11.4	8.9	8.7	8.8	1.6	1.4	1.5
7	16.9	16.5	16.7	11.4	11.3	11.4	8.8	8.7	8.8	1.7	1.5	1.6
8	16.8	16.4	16.6	11.4	11.0	11.2	8.7	8.6	8.7	1.8	1.5	1.7
9	16.6	16.3	16.4	11.0	10.9	11.0	8.6	8.3	8.5	2.2	1.7	1.8
10	16.4	16.0	16.1	10.9	10.6	10.7	8.3	8.1	8.2	2.0	1.7	1.8
11	16.0	15.2	15.5	10.6	10.4	10.5	8.2	7.9	8.0	1.8	1.7	1.8
12	16.5	15.2	15.8	10.5	10.3	10.4	8.1	8.0	8.1	1.9	1.7	1.8
13	16.6	15.1	15.9	10.5	10.3	10.4	8.1	7.9	8.0	1.9	1.7	1.8
14	16.3	14.6	15.6	10.4	10.3	10.4	7.9	7.4	7.6	2.0	1.8	1.8
15	16.3	14.2	14.8	10.4	10.3	10.3	7.5	7.3	7.5	1.8	1.8	1.8
16	14.4	12.6	13.8	10.4	10.2	10.3	7.3	6.7	7.0	2.0	1.8	1.9
17	15.0	13.4	14.0	10.4	10.2	10.3	6.7	6.5	6.6	2.0	1.7	1.9
18	15.3	13.2	13.9	10.4	10.3	10.4	6.7	6.4	6.5	2.1	1.8	1.9
19	15.0	13.5	14.0	10.5	10.1	10.3	6.4	6.3	6.4	2.3	1.9	2.0
20	15.2	13.0	13.8	10.3	10.1	10.2	6.4	5.9	6.1	2.3	2.0	2.1
21	14.1	12.9	13.4	10.1	9.8	10.0	5.9	5.7	5.8	2.3	2.1	2.2
22	13.9	12.6	13.0	9.8	9.6	9.7	5.8	5.7	5.7	2.6	2.1	2.3
23	13.5	12.6	12.9	9.6	9.5	9.6	5.8	5.5	5.7	2.7	2.4	2.5
24	13.8	12.2	12.9	9.9	9.6	9.7	5.5	4.7	5.1	2.5	2.3	2.4
25	12.2	10.8	11.5	9.9	9.6	9.8	4.7	3.9	4.3	2.7	2.3	2.4
26	11.7	10.7	11.0	9.6	9.5	9.5	3.9	2.9	3.3	2.9	2.4	2.6
27	11.5	11.0	11.2	9.5	9.4	9.5	2.9	2.4	2.6	2.9	2.6	2.7
28	12.4	10.7	11.3	9.4	9.2	9.3	2.4	2.0	2.2	3.1	2.7	2.9
29	11.9	11.0	11.6	9.2	9.1	9.1	2.0	1.5	1.8	3.2	3.0	3.1
30	11.9	11.7	11.8	9.1	8.9	9.0	1.5	1.2	1.3	3.1	2.8	2.9
31	11.9	11.8	11.8	---	---	---	1.3	0.9	1.1	3.3	3.0	3.2
MONTH	21.0	10.7	14.5	11.9	8.9	10.4	8.9	0.9	6.3	3.3	0.8	2.0



## WABASH RIVER BASIN

03325000 WABASH RIVER AT WABASH, IN

LOCATION.--Lat 40°47'25", long 85°49'13", in SE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> 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 mi<sup>2</sup>.

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 good 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 ft<sup>3</sup>/s, from rating curve extended above 49,000 ft<sup>3</sup>/s.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	351	5020	5750	553	7400	1370	6110	4990	3560	e440	355	157
2	200	4920	5820	706	5490	1400	6360	5050	1920	e360	243	140
3	187	4970	6130	820	5900	4220	6660	4060	1370	e320	199	122
4	1040	4910	5640	592	6280	5150	5980	3950	825	311	163	e96
5	1130	5010	3950	507	6690	5710	4530	3500	2360	249	118	e99
6	2110	5010	2300	612	7010	4380	3230	1960	3640	216	101	e89
7	3200	4990	894	618	7040	2720	2990	1320	3040	198	94	e87
8	3360	4970	1040	e560	6700	2140	2660	1340	2380	184	91	e88
9	2820	4970	931	e450	5930	2840	4740	2420	1370	186	86	e87
10	2350	5110	886	e460	5380	4280	5170	2760	978	681	84	e108
11	1940	5130	801	e500	4460	e3830	4900	2160	e660	434	86	e132
12	5890	3700	762	e560	3080	3560	3770	5090	e700	383	85	120
13	4320	1290	802	e520	1760	2800	4750	4620	e720	357	91	91
14	4720	1230	1890	e540	1500	1650	4580	3940	e680	e330	99	92
15	4150	1170	4990	e520	1100	1420	4650	4250	e580	e290	109	100
16	5560	1170	5700	512	1020	1300	4550	4640	e460	e200	125	118
17	5290	1150	7270	437	868	1240	3380	4980	e500	e160	118	149
18	4210	1140	5640	482	854	1550	2930	4990	e520	e155	102	149
19	4620	1620	6060	407	884	1450	2190	4780	e440	e150	124	150
20	4640	2130	6350	416	2780	1090	1400	4680	e400	e154	134	185
21	4560	2120	7020	435	4460	947	1330	4430	e390	e152	172	211
22	5440	2090	6950	477	4220	e773	1370	4400	e350	e143	161	235
23	5330	2050	6190	394	3340	831	766	4440	e310	146	185	332
24	4600	2010	5200	397	2130	861	1750	2760	e280	146	382	500
25	5050	2100	e5440	410	1530	906	1630	1760	e270	163	334	478
26	3390	2230	e4880	418	1300	861	1250	3270	267	179	318	515
27	4030	2160	e2870	427	1280	847	1080	3220	509	190	306	541
28	4590	1950	1320	452	1450	1000	3080	2080	1500	182	244	550
29	4880	1800	980	473	---	2360	3650	3440	978	186	175	564
30	4930	5360	875	2330	---	6080	4720	4580	601	328	154	547
31	4800	---	590	6530	---	6040	---	4560	---	464	151	---
TOTAL	113688	93480	115921	23515	101836	75606	106156	114420	32558	8037	5189	6832
MEAN	3667	3116	3739	758.5	3637	2439	3539	3691	1085	259.3	167.4	227.7
MAX	5890	5360	7270	6530	7400	6080	6660	5090	3640	681	382	564
MIN	187	1140	590	394	854	773	766	1320	267	143	84	87
CFSM	2.07	1.76	2.12	0.43	2.06	1.38	2.00	2.09	0.61	0.15	0.09	0.13
IN.	2.39	1.97	2.44	0.49	2.14	1.59	2.23	2.41	0.69	0.17	0.11	0.14

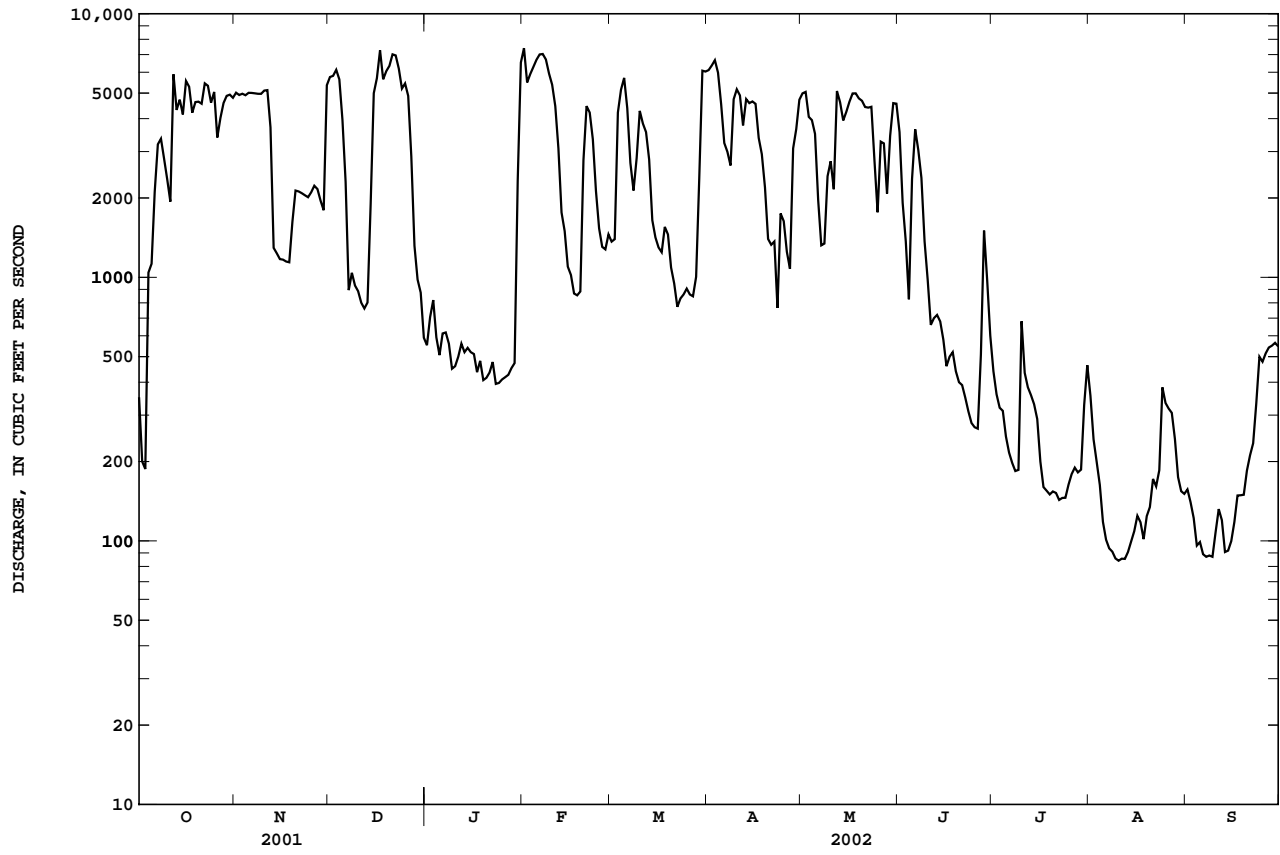
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 2002, BY WATER YEAR (WY)

MEAN	632.8	980.8	1738	2186	2452	3044	2672	1620	1410	836.0	519.2	501.7
MAX	3667	5044	5829	13260	7764	8144	11060	10410	8260	4776	4887	5676
(WY)	2002	1993	1968	1950	1959	1982	1957	1943	1958	1993	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

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1924 - 2002	
ANNUAL TOTAL	705410		797238			
ANNUAL MEAN	1933		2184		1546	
HIGHEST ANNUAL MEAN					2994	
LOWEST ANNUAL MEAN					276	
HIGHEST DAILY MEAN	7360	Feb 15	7400	Feb 1	47800	May 18 1943
LOWEST DAILY MEAN	100	Aug 15	84	Aug 10	17	Aug 3 1934
ANNUAL SEVEN-DAY MINIMUM	108	Aug 12	88	Aug 7	18	Aug 3 1934
MAXIMUM PEAK FLOW			8310		49600	
MAXIMUM PEAK STAGE			13.13		24.44	
ANNUAL RUNOFF (CFSM)	1.09		1.24	Feb 1	0.87	
ANNUAL RUNOFF (INCHES)	14.84		16.77		11.88	
10 PERCENT EXCEEDS	5100		5310		4600	
50 PERCENT EXCEEDS	1040		1300		530	
90 PERCENT EXCEEDS	258		150		88	

e Estimated

03325000 WABASH RIVER AT WABASH, IN--Continued





WABASH RIVER BASIN

03325500 MISSISSINewa RIVER NEAR RIDGEVILLE, IN

LOCATION.--Lat 40°16'48", long 84°59'33", in NW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> 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 mi<sup>2</sup>.

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 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	61	432	e28	3230	56	330	143	47	15	e6.0	2.1
2	5.0	54	197	e25	809	98	432	212	42	14	e5.2	2.0
3	5.5	52	129	e22	356	604	1380	120	36	12	e4.8	1.9
4	5.8	45	95	e21	212	160	367	89	35	11	e4.5	1.6
5	19	41	77	e21	123	94	206	76	44	9.9	e6.0	1.4
6	154	37	68	e22	96	78	146	75	78	9.1	21	1.4
7	60	36	60	e23	82	72	116	938	50	8.2	5.9	1.4
8	26	33	52	e22	71	67	104	610	39	8.1	3.6	1.3
9	17	31	45	e22	64	435	1140	389	34	8.1	2.7	1.3
10	15	30	40	e21	70	468	470	182	31	9.1	2.4	1.7
11	32	29	37	e21	197	160	222	117	30	8.4	2.3	e1.5
12	560	24	36	20	134	124	157	1010	30	7.3	2.3	e1.4
13	227	23	69	21	e100	110	1190	3750	29	6.9	4.1	e1.3
14	967	24	653	20	e77	89	1370	1930	28	6.8	3.1	e1.3
15	582	24	605	21	e66	79	811	441	26	6.7	3.2	e1.3
16	684	22	265	18	e52	178	311	233	26	6.4	2.9	e1.4
17	500	21	2180	19	e41	132	177	158	22	6.2	2.6	e1.4
18	195	20	1850	17	e33	98	126	116	19	6.4	2.7	e1.3
19	122	22	518	17	e37	80	112	89	17	6.6	3.8	e2.0
20	84	22	256	17	e50	89	98	74	15	6.9	7.2	e5.0
21	63	20	156	18	64	96	260	64	15	6.5	4.3	14
22	50	20	116	16	50	74	271	57	15	6.1	3.1	7.2
23	170	19	106	17	43	67	161	55	15	6.1	4.1	4.8
24	2200	20	86	26	41	60	119	51	14	6.2	24	4.5
25	1900	41	68	39	41	61	93	68	13	5.8	9.1	4.1
26	469	28	61	30	70	66	73	68	27	6.8	4.6	4.1
27	227	31	55	27	91	82	166	50	29	11	3.2	19
28	142	47	e49	26	66	229	2290	105	33	11	2.8	13
29	102	632	e42	28	---	1530	501	103	21	9.3	2.6	4.5
30	82	1310	e36	140	---	2820	227	65	16	10	2.4	2.3
31	69	---	e31	917	---	644	---	55	---	e8.0	2.2	---
TOTAL	9739.4	2819	8470	1702	6366	9000	13426	11493	876	259.9	158.7	111.5
MEAN	314.2	93.97	273.2	54.90	227.4	290.3	447.5	370.7	29.20	8.384	5.119	3.717
MAX	2200	1310	2180	917	3230	2820	2290	3750	78	15	24	19
MIN	5.0	19	31	16	33	56	73	50	13	5.8	2.2	1.3
CFSM	2.36	0.71	2.05	0.41	1.71	2.18	3.36	2.79	0.22	0.06	0.04	0.03
IN.	2.72	0.79	2.37	0.48	1.78	2.52	3.76	3.21	0.25	0.07	0.04	0.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2002, BY WATER YEAR (WY)

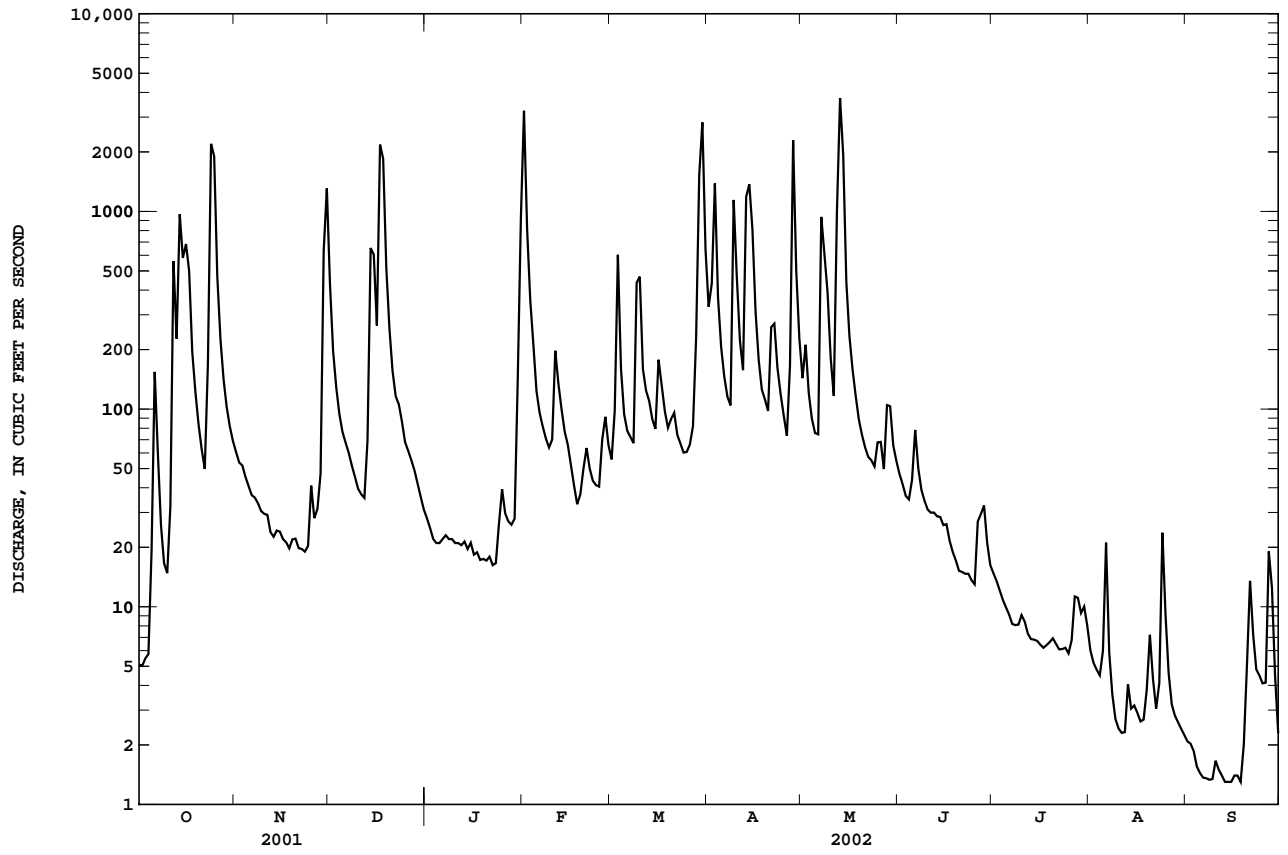
	34.74	91.82	146.6	178.6	205.5	244.9	224.3	127.5	145.1	94.82	37.14	29.65
MEAN	34.74	91.82	146.6	178.6	205.5	244.9	224.3	127.5	145.1	94.82	37.14	29.65
MAX	314	729	872	865	548	714	810	371	1417	709	454	337
(WY)	2002	1994	1991	1950	1950	1978	1964	2002	1958	1979	1979	1972
MIN	1.25	1.82	2.62	3.25	5.00	46.1	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 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1947 - 2002	
ANNUAL TOTAL	45471.7		64421.5			
ANNUAL MEAN	124.6		176.5		129.6	
HIGHEST ANNUAL MEAN					223 1958	
LOWEST ANNUAL MEAN					29.8 1954	
HIGHEST DAILY MEAN	2200	Oct 24	3750	May 13	11300	Jun 10 1958
LOWEST DAILY MEAN	2.7	Sep 7	1.3	Sep 8	0.10	Oct 24 1946
ANNUAL SEVEN-DAY MINIMUM	3.5	Aug 4	1.3	Sep 12	0.23	Oct 5 1946
MAXIMUM PEAK FLOW			4030	May 13	13900	Jun 10 1958
MAXIMUM PEAK STAGE			13.95	May 13	16.25	Jun 10 1958
ANNUAL RUNOFF (CFSM)	0.94		1.33		0.97	
ANNUAL RUNOFF (INCHES)	12.72		18.02		13.24	
10 PERCENT EXCEEDS	270		452		273	
50 PERCENT EXCEEDS	31		40		28	
90 PERCENT EXCEEDS	5.6		3.7		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<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> 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 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1971 to current year.

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 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	9.5	e210	e6.8	521	15	59	23	16	2.6	1.4	0.78
2	3.0	8.9	e60	e6.5	83	89	66	20	13	2.4	1.2	0.72
3	2.9	9.3	e34	e6.3	42	231	132	15	11	2.2	1.2	0.66
4	2.7	8.1	e25	e6.1	28	34	37	13	10	2.1	1.1	0.61
5	119	7.2	e19	e6.0	18	18	25	12	12	2.1	1.7	0.56
6	153	6.7	e15	e6.3	16	19	20	12	10	1.9	4.9	0.55
7	31	6.3	e12	e6.2	14	18	18	37	8.5	1.8	1.9	0.55
8	13	6.1	e10	e5.8	13	15	40	39	7.2	1.8	1.3	0.51
9	8.8	5.9	e9.0	e5.5	12	110	120	50	6.3	2.8	1.1	0.51
10	8.1	5.8	e8.0	e5.2	13	66	37	21	5.9	13	1.0	0.55
11	44	5.6	e7.4	e5.0	27	23	22	14	5.5	4.4	0.93	0.59
12	367	5.2	e7.0	e4.9	17	19	18	199	5.4	2.3	0.95	0.51
13	79	5.1	e7.8	e4.7	13	17	20	789	5.3	2.0	1.2	0.52
14	289	5.1	e30	e4.5	11	14	112	154	5.5	1.8	1.2	0.57
15	118	4.9	e280	e4.6	11	13	66	55	5.7	1.6	1.2	0.58
16	363	4.9	e64	3.9	11	78	25	35	5.7	1.5	1.1	0.68
17	128	4.7	e500	4.0	9.5	26	18	32	4.8	1.6	1.2	0.70
18	45	4.5	e340	3.8	8.8	17	15	26	4.1	1.6	1.0	0.83
19	25	4.6	e130	3.7	9.1	14	13	22	3.7	2.0	5.8	1.1
20	16	4.7	e50	3.6	38	14	15	20	3.5	3.7	4.5	9.3
21	13	4.5	e33	3.7	55	14	54	18	3.4	1.8	1.9	16
22	19	4.5	e28	3.5	23	11	33	17	3.4	1.5	1.7	3.6
23	85	4.3	e25	3.9	16	10	19	14	3.4	2.3	31	2.0
24	546	4.9	e20	5.1	13	9.7	15	12	3.3	2.2	53	1.5
25	383	14	e17	5.0	12	9.9	14	14	3.2	1.5	20	1.2
26	73	e13	e14	4.6	17	e10	12	21	3.4	16	5.6	1.1
27	32	e7.8	e12	4.5	19	e11	79	13	3.9	16	2.7	13
28	19	e7.2	e10	4.5	15	18	467	193	3.6	4.4	1.8	11
29	14	e20	e9.0	5.2	---	237	75	109	3.0	2.6	1.4	3.0
30	12	e290	e8.0	32	---	554	34	33	2.7	1.9	1.2	1.8
31	10	---	e7.4	229	---	130	---	21	---	1.6	0.92	---
TOTAL	3024.5	493.3	2001.6	404.4	1085.4	1864.6	1680	2053	182.4	107.0	157.10	75.58
MEAN	97.56	16.44	64.57	13.05	38.76	60.15	56.00	66.23	6.080	3.452	5.068	2.519
MAX	546	290	500	229	521	554	467	789	16	16	53	16
MIN	2.7	4.3	7.0	3.5	8.8	9.7	12	12	2.7	1.5	0.92	0.51
CFSM	3.34	0.56	2.21	0.45	1.33	2.06	1.92	2.27	0.21	0.12	0.17	0.09
IN.	3.85	0.63	2.55	0.52	1.38	2.38	2.14	2.62	0.23	0.14	0.20	0.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2002, BY WATER YEAR (WY)

	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	
MEAN	9.780	24.96	35.93	33.74	44.65	54.74	42.96	28.11	28.38	20.05	9.902	7.055													
MAX	97.5	135	157	114	124	152	112	114	148	99.4	84.3	55.0													
(WY)	2002	1986	1991	1999	1990	1978	1972	1981	1981	1992	1998	1972													
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 2001 CALENDAR YEAR

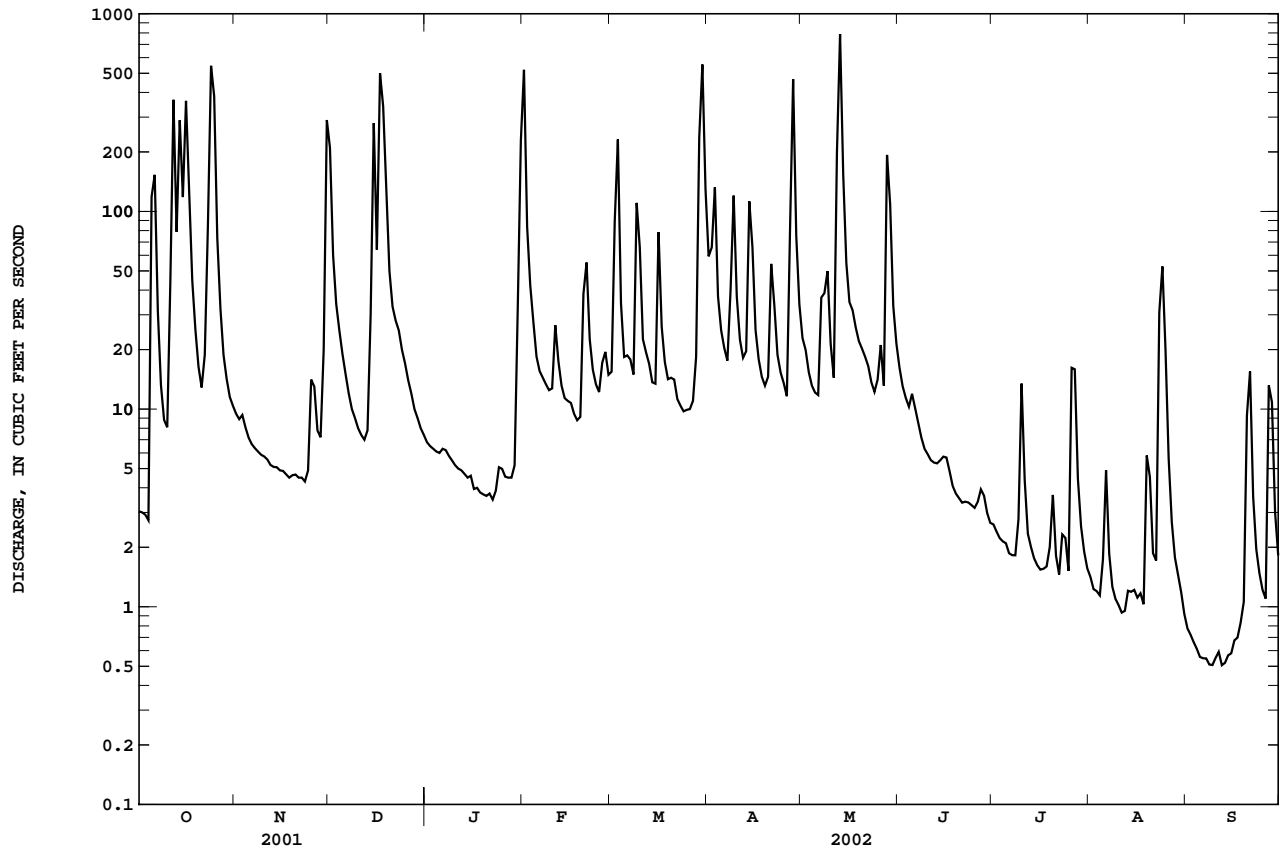
FOR 2002 WATER YEAR

WATER YEARS 1972 - 2002

ANNUAL TOTAL	11687.6	13128.88	
ANNUAL MEAN	32.02	35.97	28.26
HIGHEST ANNUAL MEAN			43.3
LOWEST ANNUAL MEAN			9.21
HIGHEST DAILY MEAN	570	Apr 11	789
LOWEST DAILY MEAN	1.5	Jul 28	0.51
ANNUAL SEVEN-DAY MINIMUM	1.6	Aug 2	0.53
MAXIMUM PEAK FLOW			1070
MAXIMUM PEAK STAGE			12.32
ANNUAL RUNOFF (CFSM)	1.10		1.23
ANNUAL RUNOFF (INCHES)	14.89		16.73
10 PERCENT EXCEEDS	65		78
50 PERCENT EXCEEDS	8.3		10
90 PERCENT EXCEEDS	2.5		1.3

e Estimated

03326070 BIG LICK CREEK NEAR HARTFORD CITY, IN--Continued



WABASH RIVER BASIN

03326500 MISSISSINEWA RIVER AT MARION, IN

LOCATION.--Lat 40°34'34", long 85°39'34", in SE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> 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 mi<sup>2</sup>.

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 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	158	494	4300	e220	8130	475	3720	1230	447	160	67	42
2	144	464	2130	e214	8680	680	1660	966	376	135	64	41
3	132	431	1020	e209	4870	4070	2670	921	323	118	61	38
4	116	382	730	e204	1550	2480	3170	671	296	110	55	37
5	246	348	584	e202	978	1020	1440	538	442	105	56	33
6	1930	319	501	e196	695	711	924	483	352	97	56	39
7	1620	296	447	e200	567	654	724	524	301	92	72	44
8	771	285	400	e190	496	577	779	1980	306	87	69	46
9	495	270	355	203	449	899	1660	2300	268	95	63	74
10	376	252	314	203	422	2150	2540	1350	235	127	64	48
11	776	240	287	203	489	1580	1630	788	225	230	57	41
12	5830	224	271	195	661	822	948	1180	218	154	70	38
13	4450	213	296	192	580	675	1310	10200	208	110	66	37
14	3550	205	1250	185	464	593	2200	12200	214	95	80	35
15	5020	198	4080	186	405	537	3170	7360	216	87	57	35
16	5740	193	2550	176	375	746	2370	2140	202	81	51	38
17	5570	188	5260	170	345	823	1050	1240	185	75	51	38
18	2870	183	7170	163	305	683	729	940	177	72	51	36
19	1460	182	5490	155	358	548	597	730	166	92	133	35
20	997	179	2270	154	718	497	528	603	157	149	92	205
21	753	172	1160	151	1060	475	557	520	150	87	76	150
22	671	169	830	152	778	455	950	462	148	76	72	135
23	1180	164	718	148	559	417	889	423	144	85	128	92
24	4090	169	652	156	462	376	630	394	139	76	384	67
25	7990	415	551	159	410	375	549	398	136	74	485	59
26	7000	402	475	168	445	374	470	604	174	120	213	53
27	2840	308	424	187	511	390	652	638	177	183	100	117
28	1190	275	396	179	513	440	6460	1600	249	148	76	92
29	840	541	352	188	---	1760	6250	1910	305	106	61	124
30	662	4530	e230	297	---	8440	2870	824	209	88	51	85
31	556	---	e225	2550	---	9710	---	575	---	74	45	---
TOTAL	70023	12691	45718	8155	36275	44432	54096	56692	7145	3388	3026	1954
MEAN	2259	423.0	1475	263.1	1296	1433	1803	1829	238.2	109.3	97.61	65.13
MAX	7990	4530	7170	2550	8680	9710	6460	12200	447	230	485	205
MIN	116	164	225	148	305	374	470	394	136	72	45	33
CFSM	3.31	0.62	2.16	0.39	1.90	2.10	2.64	2.68	0.35	0.16	0.14	0.10
IN.	3.82	0.69	2.49	0.44	1.98	2.42	2.95	3.09	0.39	0.18	0.17	0.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 2002, BY WATER YEAR (WY)

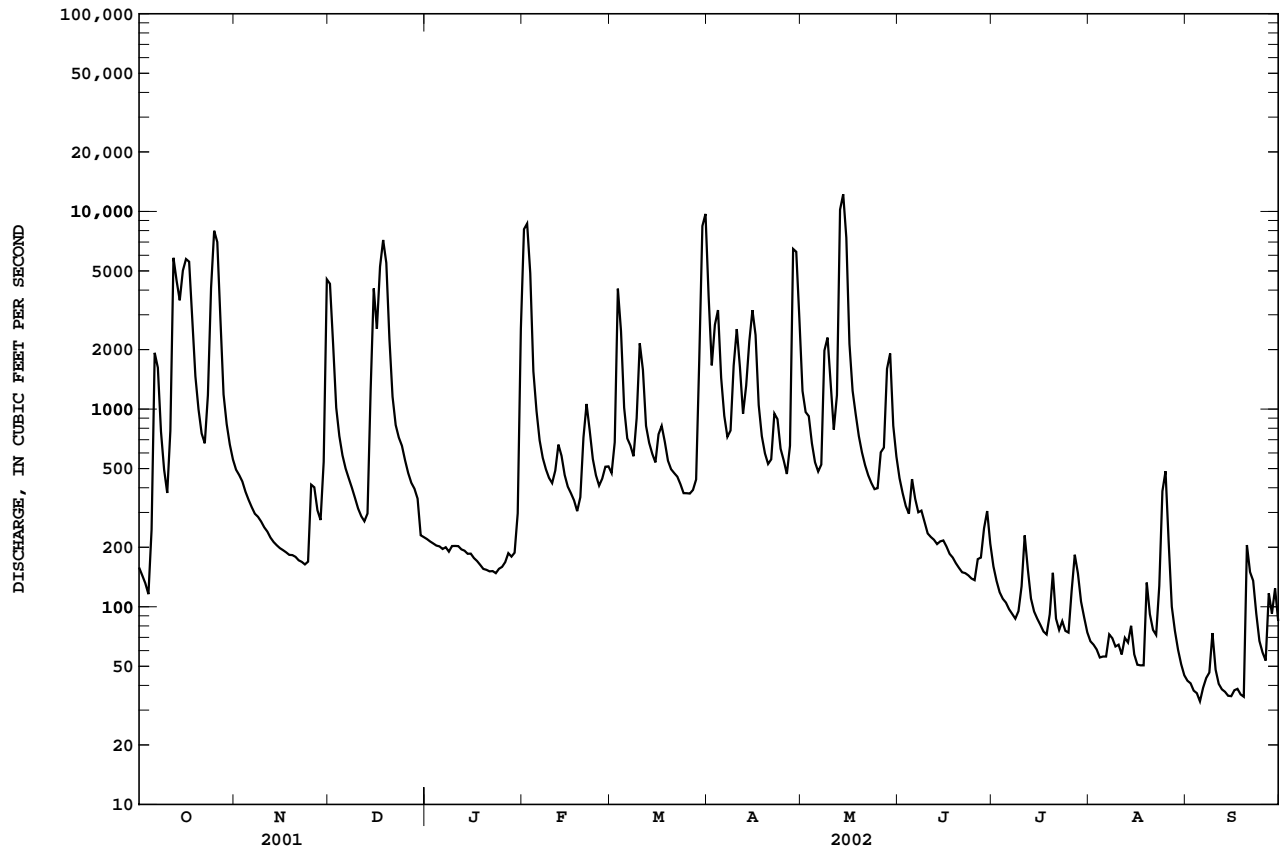
MEAN	197.3	403.3	689.9	893.0	953.5	1235	1141	728.1	636.2	397.0	203.5	224.6
MAX	2259	2626	2947	5129	2707	3181	3699	3776	4765	2831	1522	4223
(WY)	2002	1993	1991	1930	1990	1982	1964	1933	1958	1992	1998	1926
MIN	22.8	28.0	36.9	36.1	52.5	65.3	123	40.5	49.3	32.6	25.4	24.1
(WY)	1929	1929	1964	1945	1964	1941	1941	1941	1988	1936	1940	1940

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1924 - 2002

ANNUAL TOTAL	295275	343595	
ANNUAL MEAN	809.0	941.4	632.5
HIGHEST ANNUAL MEAN			1167
LOWEST ANNUAL MEAN			106
HIGHEST DAILY MEAN	7990	Oct 25	12200
LOWEST DAILY MEAN	64	Aug 8	33
ANNUAL SEVEN-DAY MINIMUM	84	Aug 2	36
MAXIMUM PEAK FLOW			12800
MAXIMUM PEAK STAGE			11.78
ANNUAL RUNOFF (CFSM)	1.19		1.38
ANNUAL RUNOFF (INCHES)	16.11		18.74
10 PERCENT EXCEEDS	2000		2500
50 PERCENT EXCEEDS	327		352
90 PERCENT EXCEEDS	116		67

e Estimated

03326500 MISSISSINEWA RIVER AT MARION, IN--Continued



## 03327000 MISSISSINEWA RIVER AT PEORIA, IN

LOCATION.--Lat 40°43'24", long 85°57'27", in SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> 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 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1952 to September 2001 (discharge). October 2001 to September 2002 (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 a 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 8.28 ft, Dec. 19, 2001; minimum gage height, 0.09 ft, Jan. 9, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 8.28 ft, Dec. 19; minimum gage height, 0.09 ft, Jan. 9.

## GAGE HEIGHT, in FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

## DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.52	2.10	7.70	1.78	6.74	2.43	7.86	5.80	2.50	1.88	1.34	0.87
2	0.99	2.08	8.07	1.78	7.78	2.16	7.70	3.54	1.42	1.28	1.02	0.87
3	1.40	2.11	6.19	1.78	8.10	7.02	7.07	3.05	1.80	1.02	0.56	0.87
4	1.02	1.97	0.15	1.76	7.99	6.43	7.00	2.50	1.80	1.03	0.56	0.87
5	1.36	1.94	0.13	1.76	7.75	2.98	4.50	2.50	2.48	1.03	1.97	0.87
6	4.40	1.93	3.50	1.76	3.46	2.98	2.44	2.50	2.78	1.03	0.56	0.72
7	4.40	1.92	3.76	1.76	3.42	2.72	2.76	2.50	2.76	1.03	0.56	0.72
8	3.54	1.92	1.90	0.11	2.44	2.72	3.03	2.52	1.97	1.03	0.91	0.72
9	3.52	1.66	2.01	1.76	2.26	2.73	5.36	5.80	1.97	1.03	0.71	0.72
10	3.74	1.66	2.01	1.76	1.79	4.65	5.35	4.40	1.97	1.03	0.71	0.72
11	3.47	1.66	2.38	1.76	2.23	4.64	4.33	3.04	1.71	1.03	0.71	0.73
12	5.80	1.66	2.80	1.75	2.43	3.48	2.78	3.05	1.71	1.26	0.71	0.72
13	6.51	1.23	2.14	1.75	2.59	3.46	4.33	7.70	1.71	1.36	0.72	0.72
14	7.07	1.50	2.97	1.58	2.58	2.44	4.34	8.00	1.71	1.34	0.88	0.73
15	7.11	1.66	7.08	1.38	2.37	2.45	6.30	8.12	1.28	1.11	0.88	0.73
16	6.87	1.35	7.00	1.38	1.80	2.45	5.69	8.03	1.28	0.58	0.88	0.73
17	8.13	1.35	5.70	1.38	2.11	2.96	3.51	7.87	1.54	0.58	0.88	0.73
18	8.02	1.66	7.98	1.38	1.79	2.96	2.45	7.70	1.54	0.58	0.88	2.34
19	7.80	1.66	8.25	1.38	1.81	2.45	2.77	5.79	1.54	0.58	0.88	1.69
20	5.30	1.44	8.09	1.38	2.72	2.44	2.18	2.50	1.28	0.62	1.33	2.33
21	2.97	1.42	4.30	1.38	3.86	2.15	2.75	2.50	1.28	1.02	1.32	2.32
22	2.97	1.42	4.26	1.38	3.85	2.15	2.75	2.31	1.28	1.02	1.34	2.30
23	2.98	1.42	2.98	1.38	2.97	2.15	3.28	1.78	1.28	1.02	1.34	1.91
24	6.28	1.42	2.98	1.38	2.43	1.75	3.02	1.78	1.28	1.07	1.55	1.66
25	7.12	1.42	2.39	1.38	2.15	1.75	1.78	2.19	0.78	1.08	2.42	1.66
26	8.10	2.42	2.39	1.38	2.15	1.76	1.78	2.19	1.05	1.08	2.42	1.18
27	8.00	0.13	1.78	1.38	2.43	2.14	2.20	3.04	1.11	1.08	1.15	1.18
28	6.70	0.14	1.78	1.38	2.43	2.14	7.63	3.97	1.10	1.14	1.15	2.20
29	6.50	0.19	2.12	1.39	---	2.98	8.02	5.80	1.66	1.12	0.87	1.20
30	2.43	2.48	1.27	1.78	---	7.76	7.92	3.05	1.93	1.12	0.87	0.69
31	2.74	---	1.27	6.50	---	8.02	---	2.50	---	1.12	0.87	---
MEAN	4.80	1.56	3.78	1.67	3.44	3.27	4.43	4.13	1.65	1.04	1.06	1.19
MAX	8.13	2.48	8.25	6.50	8.10	8.02	8.02	8.12	2.78	1.88	2.42	2.34
MIN	0.99	0.13	0.13	0.11	1.79	1.75	1.78	1.78	0.78	0.58	0.56	0.69

WTR YR 2002 MEAN 2.67 MAX 8.25 MIN 0.11

## 03327000 MISSISSINAWA 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, 29.1°C, Aug. 4, minimum, 0.6°C, Jan. 1.

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

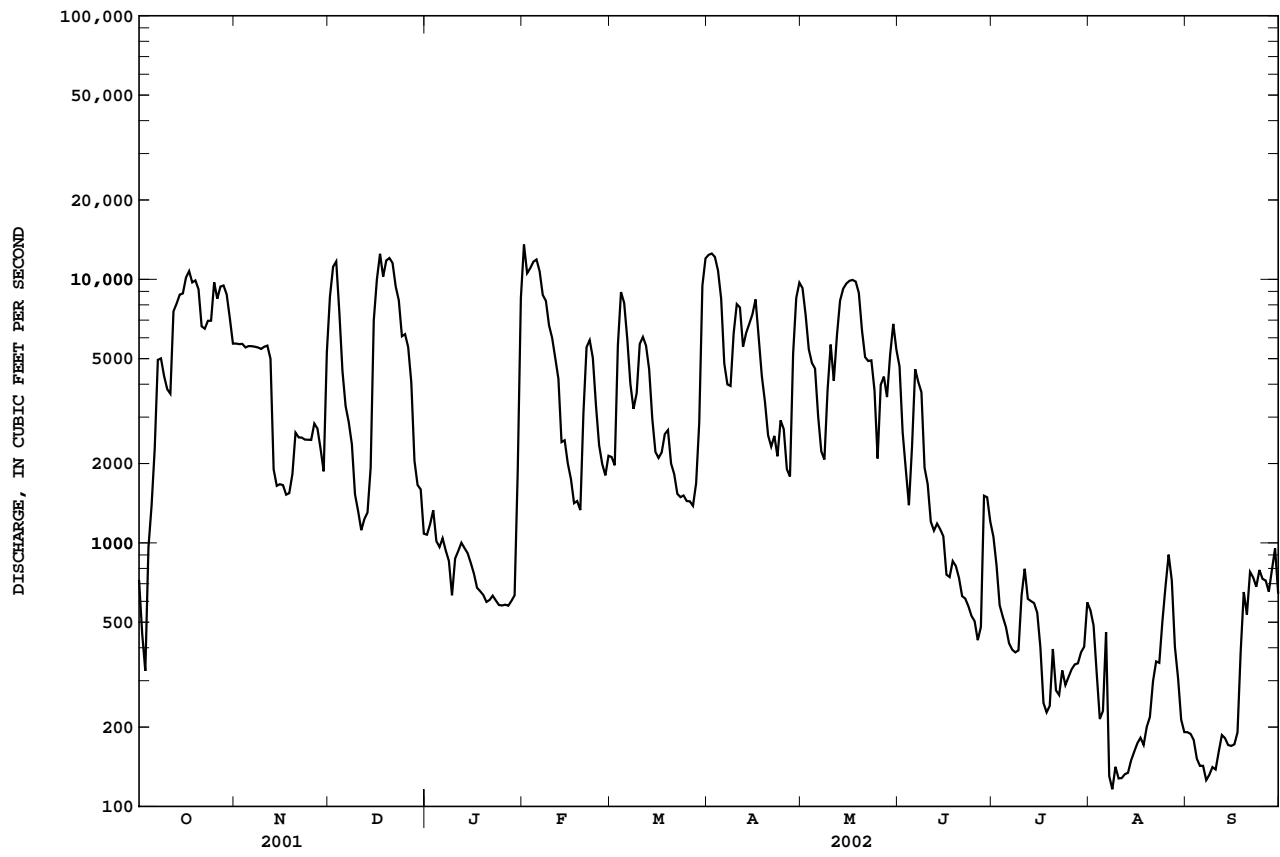
DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.9	15.4	15.6	10.6	9.3	9.8	8.2	7.9	8.1	3.8	0.6	1.6
2	15.9	14.9	15.4	10.3	9.4	9.9	7.9	7.7	7.8	1.3	1.0	1.1
3	15.6	14.7	15.2	10.4	9.1	9.7	8.6	7.8	7.9	1.3	1.0	1.1
4	15.8	15.1	15.6	9.9	9.4	9.6	9.7	8.6	9.2	4.1	0.9	2.2
5	15.7	15.1	15.4	10.0	9.5	9.7	10.8	9.7	10.2	1.3	1.1	1.2
6	15.2	14.7	14.9	9.8	9.4	9.6	10.8	8.7	9.8	1.4	1.1	1.2
7	14.8	14.5	14.6	9.8	9.3	9.5	9.2	8.4	8.6	4.3	1.1	2.3
8	14.5	14.1	14.3	9.7	9.5	9.6	9.1	8.2	8.5	4.0	1.1	2.4
9	14.3	14.1	14.2	10.2	9.4	9.6	8.3	7.8	8.1	3.6	1.6	2.6
10	14.2	13.8	14.0	9.8	9.3	9.5	8.9	7.7	8.3	1.6	1.3	1.4
11	14.1	13.7	13.9	9.7	9.2	9.4	8.7	7.5	8.1	1.4	1.2	1.3
12	14.1	13.5	13.7	9.7	9.1	9.3	8.5	7.4	7.9	1.4	1.1	1.2
13	14.2	13.4	13.7	10.0	9.1	9.5	8.6	7.4	8.0	1.5	1.1	1.2
14	14.2	14.0	14.1	9.5	9.1	9.4	8.5	6.9	7.3	3.2	1.2	1.5
15	14.1	14.0	14.0	9.3	8.9	9.1	7.0	6.8	6.9	3.4	1.2	1.5
16	14.1	13.5	13.8	10.0	8.8	9.1	6.8	6.4	6.6	1.4	1.2	1.3
17	13.5	12.2	12.9	9.2	8.7	9.0	7.5	6.3	6.7	1.6	1.1	1.3
18	12.2	11.8	11.9	9.4	9.0	9.2	7.0	6.4	6.6	1.8	1.1	1.4
19	11.8	10.7	11.1	9.3	8.6	9.0	6.6	6.4	6.5	2.1	1.4	1.6
20	11.3	10.5	10.8	9.5	8.5	8.8	6.4	6.0	6.2	1.9	1.5	1.6
21	11.6	10.5	10.8	9.5	8.3	8.8	7.5	5.8	6.5	2.4	1.6	1.9
22	11.3	10.6	10.9	8.8	8.2	8.5	6.8	6.2	6.5	2.6	1.7	2.0
23	11.6	11.1	11.3	8.8	8.2	8.5	7.0	4.9	5.8	2.6	2.0	2.2
24	12.2	11.6	11.8	9.3	8.7	9.0	4.9	4.0	4.4	2.4	1.9	2.2
25	12.3	11.9	12.2	9.2	8.8	8.9	5.4	3.4	3.8	2.7	1.8	2.1
26	12.1	11.2	11.7	8.8	8.4	8.7	3.4	2.8	3.1	2.9	1.9	2.2
27	11.2	10.3	10.7	9.8	8.7	9.3	4.8	2.5	3.0	3.0	2.1	2.4
28	10.7	9.8	10.1	9.1	7.8	8.4	2.9	2.5	2.7	3.3	2.2	2.6
29	9.8	9.1	9.4	8.1	7.7	7.9	2.5	1.8	2.1	3.0	2.7	2.9
30	10.9	9.0	10.2	8.6	8.1	8.4	4.4	1.8	2.3	3.0	2.8	2.9
31	10.6	9.1	10.0	---	---	---	1.9	1.5	1.6	2.9	2.7	2.8
MONTH	15.9	9.0	12.8	10.6	7.7	9.2	10.8	1.5	6.4	4.3	0.6	1.8







03327500 WABASH RIVER AT PERU, IN--Continued



03327520 PIPE CREEK NEAR BUNKER HILL, IN

LOCATION.--Lat 40°40'06", long 86°05'44", in NE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> 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 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1968 to current year. 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 good except for estimated daily discharges, which are poor.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	135	544	e58	1760	117	623	339	109	34	16	7.8
2	29	121	289	e55	1130	145	424	285	93	32	14	7.3
3	28	115	201	e53	574	716	437	213	81	30	14	7.3
4	26	103	156	e51	387	439	312	167	75	27	12	7.9
5	31	94	130	e50	250	244	237	143	1020	26	11	7.1
6	192	87	114	e49	185	194	193	131	717	24	10	6.8
7	207	80	101	e48	153	185	167	127	302	22	9.1	7.0
8	122	76	90	47	128	165	225	154	201	20	8.9	7.9
9	86	70	80	49	111	401	630	180	146	22	8.9	8.3
10	70	66	70	49	106	599	464	171	116	24	8.9	7.7
11	73	63	64	45	105	298	297	140	110	23	8.9	7.5
12	1020	57	62	43	112	226	252	211	114	20	8.9	7.1
13	1170	53	73	43	101	197	1070	782	110	20	9.3	7.4
14	1060	53	251	42	87	171	718	816	105	19	13	8.4
15	1110	53	743	39	86	154	419	427	93	17	14	9.5
16	1110	51	441	35	80	158	284	278	80	16	14	11
17	1380	47	1280	35	71	177	219	232	66	14	12	9.5
18	790	46	1420	34	61	154	179	207	60	14	10	9.5
19	443	46	719	33	128	129	157	168	55	15	18	10
20	313	45	415	33	744	124	136	142	51	15	25	18
21	236	42	280	33	681	110	131	121	48	14	14	24
22	226	43	213	34	383	94	150	108	46	13	14	14
23	404	41	187	34	253	90	124	103	45	18	23	9.3
24	983	41	158	36	197	87	111	97	43	16	25	8.3
25	1680	48	129	35	167	86	111	247	41	14	22	7.0
26	955	43	112	32	156	77	96	215	48	13	18	6.7
27	444	40	106	30	140	82	125	126	52	20	14	12
28	292	39	98	29	120	92	1200	232	49	19	11	15
29	222	53	83	35	---	396	952	339	41	20	10	9.8
30	176	554	70	119	---	1600	495	184	37	32	9.6	7.0
31	152	---	e63	960	---	1200	---	136	---	21	8.9	---
TOTAL	15061	2405	8742	2268	8456	8907	10938	7221	4154	634	415.4	286.1
MEAN	485.8	80.17	282.0	73.16	302.0	287.3	364.6	232.9	138.5	20.45	13.40	9.537
MAX	1680	554	1420	960	1760	1600	1200	816	1020	34	25	24
MIN	26	39	62	29	61	77	96	97	37	13	8.9	6.7
CFSM	3.06	0.50	1.77	0.46	1.90	1.81	2.29	1.47	0.87	0.13	0.08	0.06
IN.	3.52	0.56	2.05	0.53	1.98	2.08	2.56	1.69	0.97	0.15	0.10	0.07

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

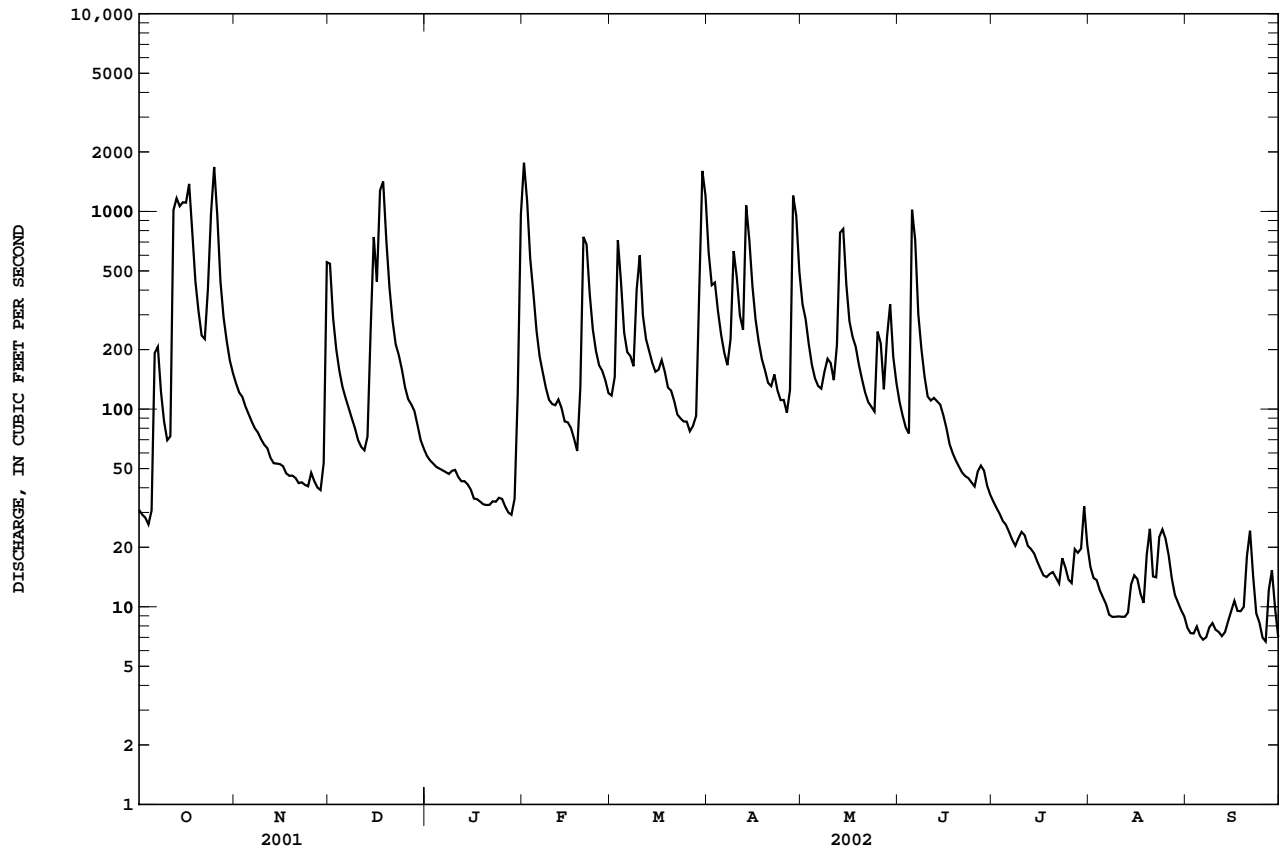
MEAN	61.90	128.7	168.1	169.5	226.1	285.7	243.9	174.7	153.0	103.5	52.21	40.08
MAX	486	797	563	731	648	902	637	525	429	726	321	226
(WY)	2002	1993	1991	1974	1990	1982	1972	1996	1980	1998	1998	1972
MIN	6.66	6.67	6.57	3.70	25.1	49.7	44.1	28.5	12.4	8.17	7.63	5.16
(WY)	1989	2000	1977	1977	1978	1981	2000	1976	1988	1988	1971	1991

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1968 - 2002

ANNUAL TOTAL	67445	69487.5	
ANNUAL MEAN	184.8	190.4	150.7
HIGHEST ANNUAL MEAN			266
LOWEST ANNUAL MEAN			67.6
HIGHEST DAILY MEAN	1910	Apr 11	1760 Feb 1
LOWEST DAILY MEAN	15	Jul 23	6.7 Sep 26
ANNUAL SEVEN-DAY MINIMUM	16	Jul 22	7.3 Sep 1
MAXIMUM PEAK FLOW			1810 Feb 1
MAXIMUM PEAK STAGE			9.74 Feb 1
ANNUAL RUNOFF (CFSM)	1.16		1.20
ANNUAL RUNOFF (INCHES)	15.78		16.26
10 PERCENT EXCEEDS	502		515
50 PERCENT EXCEEDS	74		86
90 PERCENT EXCEEDS	25		11

e Estimated

03327520 PIPE CREEK NEAR BUNKER HILL, IN--Continued



03328000 EEL RIVER AT NORTH MANCHESTER, IN

LOCATION.--Lat 40°59'38", long 85°46'53", in NE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> 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 mi<sup>2</sup>.

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 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	101	528	2200	e250	3820	332	1660	482	284	205	114	69
2	99	504	1410	e230	3020	359	1290	1420	266	176	110	69
3	98	510	894	e220	2040	1430	1850	1050	251	153	100	69
4	98	450	680	e215	1280	985	1280	653	277	141	92	68
5	145	409	559	212	875	625	877	509	339	132	90	67
6	537	376	484	209	687	507	689	448	325	123	87	67
7	372	350	431	205	578	550	588	439	281	121	83	66
8	253	328	384	197	510	534	806	464	252	117	81	64
9	200	310	353	195	462	1370	2210	977	235	123	78	65
10	175	295	322	199	435	2180	1680	978	228	122	76	63
11	216	282	299	197	414	1350	1060	726	227	112	73	62
12	2500	262	289	193	389	873	1050	3200	220	106	74	62
13	2760	251	370	192	360	715	3060	3580	206	102	76	62
14	2790	246	786	189	328	609	1850	2500	202	98	85	61
15	2670	248	1860	198	319	538	1190	1490	201	95	91	63
16	2460	242	1220	205	309	485	842	1010	198	96	89	65
17	2650	232	2090	201	298	437	669	871	187	97	93	64
18	2030	228	2500	196	279	411	573	909	190	105	85	73
19	1420	226	1750	191	293	381	508	714	180	103	106	86
20	1030	225	1070	187	600	370	489	596	170	98	115	95
21	837	216	778	186	891	350	516	522	163	92	94	117
22	2160	211	629	185	627	320	619	466	165	98	87	92
23	2830	202	571	188	483	306	513	425	174	102	142	79
24	2620	197	510	205	421	300	450	394	179	94	124	74
25	2880	465	439	201	391	314	415	375	186	88	102	72
26	2190	423	388	195	386	311	378	372	171	89	91	71
27	1400	330	360	195	380	318	372	345	377	95	84	88
28	1000	296	337	196	342	361	1070	339	e480	98	79	100
29	806	670	308	209	---	640	822	330	e330	127	76	82
30	676	2250	288	840	---	2440	573	316	253	222	74	74
31	588	---	e270	2500	---	2500	---	309	---	145	71	---
TOTAL	40591	11762	24829	9181	21217	23201	29949	27209	7197	3675	2822	2209
MEAN	1309	392.1	800.9	296.2	757.8	748.4	998.3	877.7	239.9	118.5	91.03	73.63
MAX	2880	2250	2500	2500	3820	2500	3060	3580	480	222	142	117
MIN	98	197	270	185	279	300	372	309	163	88	71	61
CFSM	3.14	0.94	1.92	0.71	1.82	1.79	2.39	2.10	0.58	0.28	0.22	0.18
IN.	3.62	1.05	2.21	0.82	1.89	2.07	2.67	2.43	0.64	0.33	0.25	0.20

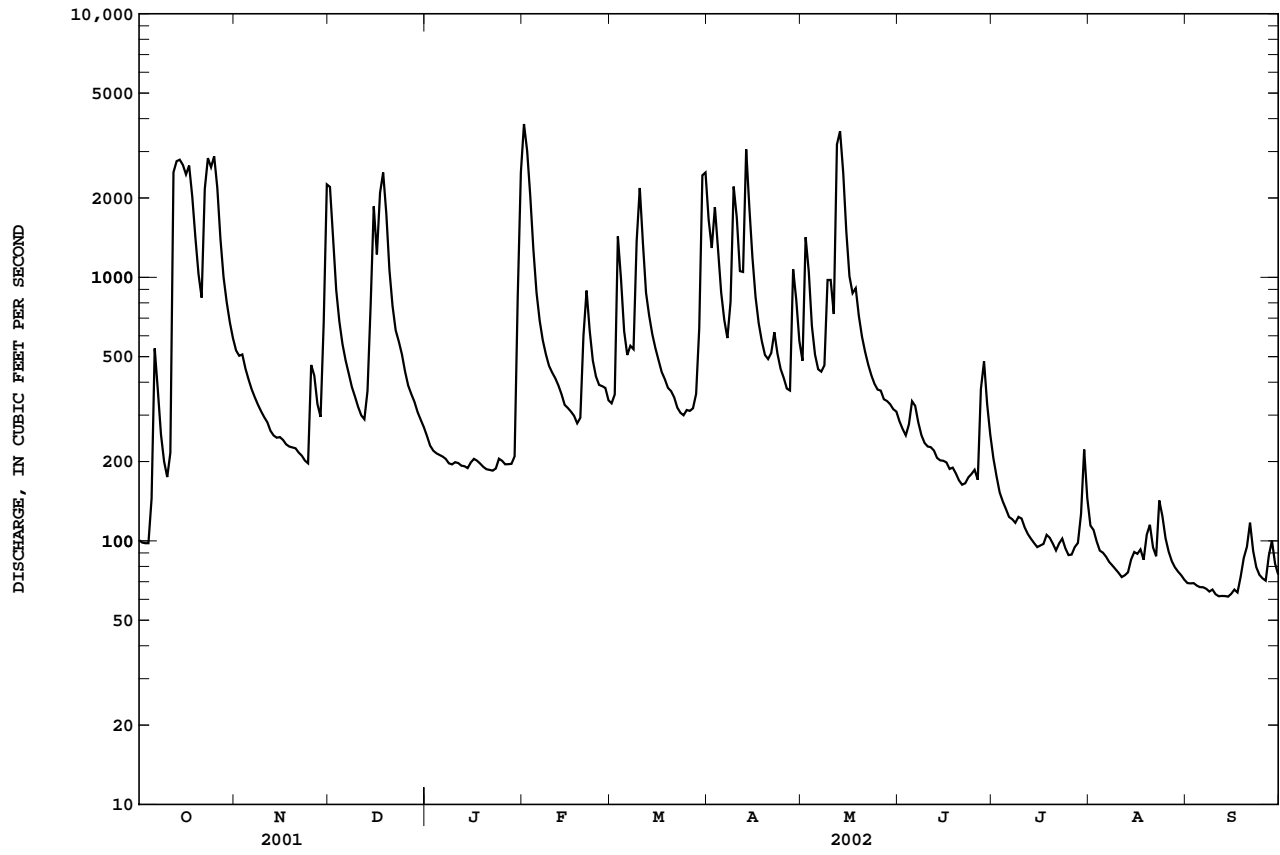
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2002, BY WATER YEAR (WY)

	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	181.2	272.1	399.0	479.7	583.3	711.0	679.2	431.8	347.0	217.1	157.2	131.7																																																													
MAX	1309	1416	1717	2258	1772	2425	1768	2021	1376	767	1031	566																																																													
(WY)	2002	1993	1967	1950	1959	1982	1957	1943	1981	1951	1990	1992																																																													
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																																																													

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1930 - 2002
ANNUAL TOTAL	191343	203842	
ANNUAL MEAN	524.2	558.5	382.5
HIGHEST ANNUAL MEAN			783
LOWEST ANNUAL MEAN			103
HIGHEST DAILY MEAN	4550	3820	7770
LOWEST DAILY MEAN	71	61	16
ANNUAL SEVEN-DAY MINIMUM	77	63	23
MAXIMUM PEAK FLOW		4150	8740
MAXIMUM PEAK STAGE		10.05	14.81
ANNUAL RUNOFF (CFSM)	1.26	1.34	0.92
ANNUAL RUNOFF (INCHES)	17.07	18.18	12.46
10 PERCENT EXCEEDS	1400	1420	900
50 PERCENT EXCEEDS	256	309	176
90 PERCENT EXCEEDS	108	85	66

e Estimated

03328000 EEL RIVER AT NORTH MANCHESTER, IN--Continued



03328430 WEESAU CREEK NEAR DEEDSVILLE, IN

LOCATION.--Lat 40°54'34", long 86°07'36", in NW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.6, T.28 N., R.4 E., Miami County, Hydrologic Unit 05120104, (MACY, IN quadrangle), on left bank 100 ft downstream from bridge on County Road 1000 North, and 1.5 mi west of Deedsville.

DRAINAGE AREA.--8.87 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1970 to December 2001 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 785.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	12	28	---	---	---	---	---	---	---	---	---
2	1.7	13	17	---	---	---	---	---	---	---	---	---
3	1.6	12	13	---	---	---	---	---	---	---	---	---
4	1.7	11	11	---	---	---	---	---	---	---	---	---
5	11	9.4	9.5	---	---	---	---	---	---	---	---	---
6	22	8.5	8.9	---	---	---	---	---	---	---	---	---
7	11	8.0	8.0	---	---	---	---	---	---	---	---	---
8	7.2	7.7	7.3	---	---	---	---	---	---	---	---	---
9	5.7	7.3	6.5	---	---	---	---	---	---	---	---	---
10	5.4	7.2	6.1	---	---	---	---	---	---	---	---	---
11	23	6.5	5.6	---	---	---	---	---	---	---	---	---
12	102	6.1	5.6	---	---	---	---	---	---	---	---	---
13	53	6.0	9.0	---	---	---	---	---	---	---	---	---
14	82	5.9	29	---	---	---	---	---	---	---	---	---
15	49	5.7	36	---	---	---	---	---	---	---	---	---
16	80	5.5	23	---	---	---	---	---	---	---	---	---
17	60	5.3	64	---	---	---	---	---	---	---	---	---
18	39	5.3	41	---	---	---	---	---	---	---	---	---
19	31	5.3	27	---	---	---	---	---	---	---	---	---
20	24	5.0	19	---	---	---	---	---	---	---	---	---
21	21	4.9	14	---	---	---	---	---	---	---	---	---
22	85	4.6	13	---	---	---	---	---	---	---	---	---
23	65	4.6	13	---	---	---	---	---	---	---	---	---
24	54	4.9	11	---	---	---	---	---	---	---	---	---
25	51	5.1	9.4	---	---	---	---	---	---	---	---	---
26	35	4.7	8.5	---	---	---	---	---	---	---	---	---
27	26	4.6	7.9	---	---	---	---	---	---	---	---	---
28	20	4.7	7.5	---	---	---	---	---	---	---	---	---
29	17	7.8	6.8	---	---	---	---	---	---	---	---	---
30	15	44	6.1	---	---	---	---	---	---	---	---	---
31	13	---	5.9	---	---	---	---	---	---	---	---	---
TOTAL	1014.1	242.6	477.6	---	---	---	---	---	---	---	---	---
MEAN	32.71	8.087	15.41	---	---	---	---	---	---	---	---	---
MAX	102	44	64	---	---	---	---	---	---	---	---	---
MIN	1.6	4.6	5.6	---	---	---	---	---	---	---	---	---
CFSM	3.69	0.91	1.74	---	---	---	---	---	---	---	---	---
IN.	4.25	1.02	2.00	---	---	---	---	---	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2002, BY WATER YEAR (WY)

	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002			
MEAN	5.346	8.793	12.49	12.30	16.29	19.84	15.81	10.55	9.322	7.291	4.670	4.061																							
MAX	32.7	34.5	35.9	55.6	47.6	53.7	34.5	24.6	31.6	31.8	47.0	21.6																							
(WY)	2002	1993	1991	1993	1985	1982	1983	1983	1986	1998	1990	1989																							
MIN	0.79	0.94	0.61	0.30	2.50	3.50	3.74	3.30	1.17	0.80	0.66	0.45																							
(WY)	1975	2000	1977	1977	1996	1981	1996	1977	1988	1988	1988	1988																							

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1971 - 2002

ANNUAL TOTAL	4361.4	1734.3		
ANNUAL MEAN	11.95	18.85	10.52	
HIGHEST ANNUAL MEAN			19.1	1993
LOWEST ANNUAL MEAN			4.22	2000
HIGHEST DAILY MEAN	118	Aug 23	102	Oct 12
LOWEST DAILY MEAN	1.0	Aug 14	1.6	Oct 3
ANNUAL SEVEN-DAY MINIMUM	1.1	Aug 9	4.7	Nov 22
MAXIMUM PEAK FLOW			138	Oct 12
MAXIMUM PEAK STAGE			5.24	Oct 12
ANNUAL RUNOFF (CFSM)	1.35		2.13	
ANNUAL RUNOFF (INCHES)	18.29		7.27	
10 PERCENT EXCEEDS	29		52	
50 PERCENT EXCEEDS	5.6		9.4	
90 PERCENT EXCEEDS	1.8		4.8	



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