

03276000 EAST FORK WHITEWATER RIVER AT BROOKVILLE, IN

Great Miami Basin

LOCATION.--Lat 39°26'02", long 85°00'12" referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.20, T.9 N., R.2 W., Franklin County, IN, Hydrologic Unit 05080003, on right bank 100 ft upstream from bridge on State Highway 101, at Brookville, 0.4 mi downstream from Brookville Lake, and 1.8 mi upstream from mouth.

DRAINAGE AREA.--380.00 mi².

SURFACE-WATER RECORDS

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

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

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

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

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

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

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 7.17 ft, May 11; minimum gage height, 2.11 ft, Aug. 08.

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GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY OBSERVATION AT 2400 HOURS

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3.37	3.73	4.81	4.53	2.91	5.22	4.21	5.22	2.22	2.77	2.75	2.50
2	3.37	3.85	4.81	4.29	2.89	5.90	4.22	3.19	2.22	2.79	2.76	2.51
3	3.37	3.84	4.14	3.77	3.75	5.90	4.23	3.11	2.84	2.79	2.75	2.50
4	3.37	3.84	3.90	2.78	3.75	4.51	3.62	6.48	2.85	2.79	2.60	2.52
5	3.37	3.83	3.09	3.23	3.31	3.30	4.87	6.92	4.91	3.03	2.49	2.53
6	3.37	3.83	3.08	3.23	3.40	3.28	5.74	6.92	3.78	3.02	2.49	2.53
7	3.37	3.82	3.07	3.23	3.41	6.02	5.67	6.91	3.78	3.02	2.49	2.54
8	3.37	3.82	2.82	3.24	3.40	6.03	5.67	6.91	3.47	3.02	2.72	2.55
9	3.37	3.82	2.82	3.01	3.40	5.62	5.67	6.91	3.47	3.02	2.71	2.55
10	3.37	3.81	2.82	3.01	3.40	3.08	5.66	7.12	3.20	2.90	2.71	2.56
11	3.35	3.81	2.82	3.01	2.90	3.32	5.68	7.12	3.52	2.89	2.71	2.56
12	3.35	3.94	3.40	3.01	3.43	3.32	5.67	7.10	2.97	2.89	2.71	2.57
13	3.34	3.93	3.15	3.01	3.27	3.33	6.36	7.11	2.97	2.89	2.70	2.58
14	3.34	3.93	3.14	3.00	3.28	3.36	5.62	7.09	2.95	2.82	2.70	2.58
15	3.33	3.93	3.15	3.00	3.54	4.15	4.89	7.06	3.28	2.83	2.70	2.59
16	3.33	3.93	3.14	3.00	3.95	5.51	4.90	7.04	3.41	2.83	2.70	2.60
17	3.33	4.22	3.14	3.00	4.69	5.50	4.31	7.06	3.40	2.81	2.22	2.60
18	3.32	4.20	3.14	3.00	5.06	5.51	4.31	7.05	3.40	2.81	2.21	2.61
19	3.32	4.19	2.80	3.22	4.59	5.17	3.64	5.81	---	2.81	2.21	2.62
20	3.20	4.18	2.80	3.45	3.93	5.18	3.65	5.12	3.40	2.81	2.48	2.63
21	3.20	4.18	2.80	3.45	4.41	5.20	6.41	4.76	3.46	2.80	2.48	2.64
22	3.19	4.18	2.80	3.44	5.15	5.21	3.65	3.79	3.37	2.80	2.47	2.64
23	3.19	4.18	2.79	3.44	5.15	5.22	3.67	4.43	3.36	2.80	2.48	2.65
24	3.18	4.18	3.04	2.77	5.25	5.23	3.66	4.43	3.14	2.79	2.48	2.65
25	3.18	3.25	3.04	2.76	6.12	4.80	3.72	4.43	3.14	2.79	2.48	2.67
26	3.10	4.10	3.03	2.76	6.14	4.81	3.09	3.09	3.38	2.78	2.48	2.67
27	3.10	4.66	3.03	2.76	5.53	4.81	3.11	5.22	3.38	2.78	2.48	2.67
28	3.63	4.65	2.78	3.29	3.19	4.16	4.41	5.53	3.38	2.77	2.48	2.68
29	3.61	4.65	2.78	3.29	---	4.18	3.09	5.53	2.78	2.77	2.48	2.70
30	3.59	4.65	2.79	2.88	---	4.19	5.21	3.79	2.78	2.75	2.45	2.69
31	3.60	---	3.80	2.88	---	4.20	---	3.79	---	2.76	2.50	---
Mean	3.34	4.04	3.18	3.19	4.04	4.68	4.62	5.68	---	2.84	2.55	2.60
Max	3.63	4.66	4.81	4.53	6.14	6.03	6.41	7.12	---	3.03	2.76	2.70
Min	3.10	3.25	2.78	2.76	2.89	3.08	3.09	3.09	---	2.75	2.21	2.50

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WATER-QUALITY RECORDS

PERIOD OF RECORD.-- WATER TEMPERATURE:September 1987 to current year.

INSTRUMENTATION.--Temperature recorder.

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 18.7°C, July 15, 17 and 28, minimum, unknown.

**TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	---	---	---
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03276000 EAST FORK WHITEWATER RIVER AT BROOKVILLE, IN—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	---	---	---	---	---	---	18.5	15.6	16.7	16.3	12.1	13.6
2	---	---	---	---	---	---	17.9	15.9	16.6	16.5	12.5	13.8
3	---	---	---	---	---	---	17.6	12.9	15.5	16.6	12.6	14.0
4	---	---	---	---	---	---	15.4	12.7	13.7	14.3	12.8	13.3
5	---	---	---	---	---	---	16.0	12.7	14.1	13.5	12.0	12.8
6	---	---	---	---	---	---	17.7	13.5	15.1	14.1	11.6	12.6
7	---	---	---	---	---	---	16.9	13.6	14.7	13.2	12.4	12.7
8	---	---	---	---	---	---	---	---	---	13.5	12.2	12.7
9	---	---	---	---	---	---	15.5	13.3	14.0	13.5	12.3	12.7
10	---	---	---	---	---	---	15.7	13.1	13.9	14.2	12.2	13.0
11	---	---	---	---	---	---	15.7	13.0	13.8	15.7	12.4	13.4
12	---	---	---	---	---	---	15.8	13.1	13.8	15.9	12.3	13.5
13	---	---	---	---	---	---	15.7	13.1	13.9	16.0	12.2	13.7
14	---	---	---	---	---	---	14.3	13.0	13.6	14.2	12.6	13.3
15	---	---	---	18.7	15.6	16.8	15.1	13.1	13.8	15.6	11.3	12.6
16	---	---	---	18.3	16.0	16.7	15.9	12.8	13.7	14.6	11.0	12.3
17	---	---	---	18.7	15.8	16.8	---	---	---	15.7	11.8	13.1
18	---	---	---	18.5	15.8	16.7	---	---	---	13.6	11.6	12.6
19	---	---	---	18.2	16.0	16.8	---	---	---	13.7	12.7	13.1
20	---	---	---	17.8	15.9	16.7	---	---	---	14.6	12.7	13.3
21	---	---	---	18.6	15.9	16.9	16.5	12.6	13.9	14.4	12.7	13.4
22	---	---	---	18.2	16.0	16.8	16.6	12.0	13.5	14.6	12.4	13.1
23	---	---	---	18.0	16.0	16.8	16.4	12.1	13.6	14.0	11.6	12.8
24	---	---	---	18.4	16.1	16.7	16.8	12.4	14.1	14.3	11.6	12.7
25	---	---	---	17.7	15.9	16.7	16.5	12.3	14.0	14.4	12.1	13.0
26	---	---	---	18.4	15.9	16.7	16.0	12.1	13.5	15.9	12.0	14.0
27	---	---	---	18.4	16.0	16.8	16.5	12.2	13.5	14.0	11.8	12.7
28	---	---	---	18.7	16.0	16.8	16.3	12.0	13.3	14.1	11.9	12.8
29	---	---	---	18.4	15.9	16.8	15.9	11.8	13.1	15.9	12.0	13.4
30	---	---	---	18.0	16.0	16.7	15.9	11.3	13.1	13.2	11.2	12.4
31	---	---	---	18.2	15.7	16.6	14.9	11.9	13.0	---	---	---
Month	---	---	---	---	---	---	---	---	---	16.6	11.0	13.1