Water-Data Report 2012

03276500 WHITEWATER RIVER AT BROOKVILLE, IN

Great Miami River Basin

LOCATION.--Lat 39°24′24″, long 85°00′46″ referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.32, T.9 N., R.2 W., Franklin County, IN, Hydrologic Unit 05080003, on right bank at downstream side of highway bridge, 0.3 mi downstream from East Fork Whitewater River, 1.1 mi south of Brookville, and at mile 29.3.

DRAINAGE AREA.-- 1,224 mi^2.

SURFACE-WATER RECORDS

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

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

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

REMARKS.--Records fair. Flow partially regulated by Brookville Lake since January 1974. (Former National stream-quality accounting network station).

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

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	234	754	6,540	3,540	3,860	1,190	813	1,560	490	225	170	143
2	224	435	5,290	3,240	3,240	1,280	793	9,970	529	222	167	153
3	215	579	4,820	2,800	1,890	2,990	757	2,960	454	215	165	171
4	208	2,940	4,280	2,430	1,990	2,590	706	2,010	347	210	168	179
5	202	1,890	11,400	2,360	2,850	1,940	684	1,570	325	206	171	179
6	197	1,650	13,800	1,970	2,070	1,320	641	1,490	307	201	179	178
7	194	1,540	5,930	1,840	1,530	1,530	600	1,360	295	197	172	173
8	189	1,470	5,880	1,930	1,650	2,060	571	3,520	284	193	162	313
9	187	1,440	5,640	1,610	1,390	2,990	546	3,000	274	189	183	459
10	186	1,470	5,060	1,410	1,200	2,650	523	1,960	263	185	204	323
11	183	1,440	4,440	1,510	1,160	2,130	496	1,490	257	182	190	258
12	251	999	4,260	2,480	1,160	1,860	476	1,200	254	182	179	228
13	326	607	4,140	2,280	1,250	1,820	461	1,030	246	183	172	213
14	435	1,320	4,080	1,630	879	1,460	844	944	238	183	151	191
15	499	3,920	5,400	1,480	974	1,110	1,870	846	231	180	162	193
16	499	2,740	6,350	1,450	1,160	1,120	980	744	225	183	162	188
17	528	2,120	4,470	6,060	1,230	1,050	775	708	225	178	165	183
18	558	1,870	3,970	6,630	1,090	1,000	653	689	220	186	160	187
19	645	1,740	3,310	5,110	925	911	587	645	214	186	157	183
20	2,010	1,660	2,500	4,080	870	824	550	643	208	202	153	183
21	1,870	1,720	5,780	3,020	849	778	552	662	202	195	154	183
22	1,300	3,040	5,480	2,430	973	733	515	607	197	188	150	215
23	1,230	4,350	4,210	3,950	1,050	776	479	562	193	182	143	227
24	936	3,290	3,730	4,840	803	2,430	446	470	189	178	148	235
25	875	2,800	3,390	3,850	555	1,880	439	402	183	178	148	224
26	832	2,770	2,960	8,030	600	1,390	1,030	382	178	188	146	216
27	1,100	2,780	2,930	11,200	793	1,120	670	358	176	192	131	214
28	1,280	4,720	3,980	6,530	895	988	608	336	174	195	143	216
29	1,260	6,650	3,570	5,380	1,010	899	792	344	171	179	147	241
30	998	7,740	3,030	4,590	---	834	631	527	255	176	140	248
31	767	---	3,320	4,010	---	856	---	504	---	175	141	---
Total	20,418	72,444	153,940	113,670	39,896	46,509	20,488	43,493	7,804	5,914	4,983	6,497
Mean	659	2,415	4,966	3,667	1,376	1,500	683	1,403	260	191	161	217
Max	2,010	7,740	13,800	11,200	3,860	2,990	1,870	9,970	529	225	204	459
Min	183	435	2,500	1,410	555	733	439	336	171	175	131	143
Cfsm	0.54	1.97	4.06	3.00	1.12	1.23	0.56	1.15	0.21	0.16	0.13	0.18
In.	0.62	2.20	4.68	3.45	1.21	1.41	0.62	1.32	0.24	0.18	0.15	0.20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	523	974	1,405	2,072	2,021	2,352	2,213	1,882	1,346	781	500	412
Max	2,796	4,160	5,468	9,401	6,290	6,583	6,397	8,618	5,273	3,390	4,271	4,239
(WY)	(1927)	(1994)	(1991)	(1937)	(1950)	(2008)	(2011)	(1996)	(1998)	(1958)	(1979)	(1926)
Min	95.5	98.1	95.1	102	122	294	275	186	161	138	102	85.7
(WY)	(1935)	(1935)	(1935)	(1977)	(1935)	(1941)	(1941)	(1941)	(1934)	(1934)	(1930)	(1999)

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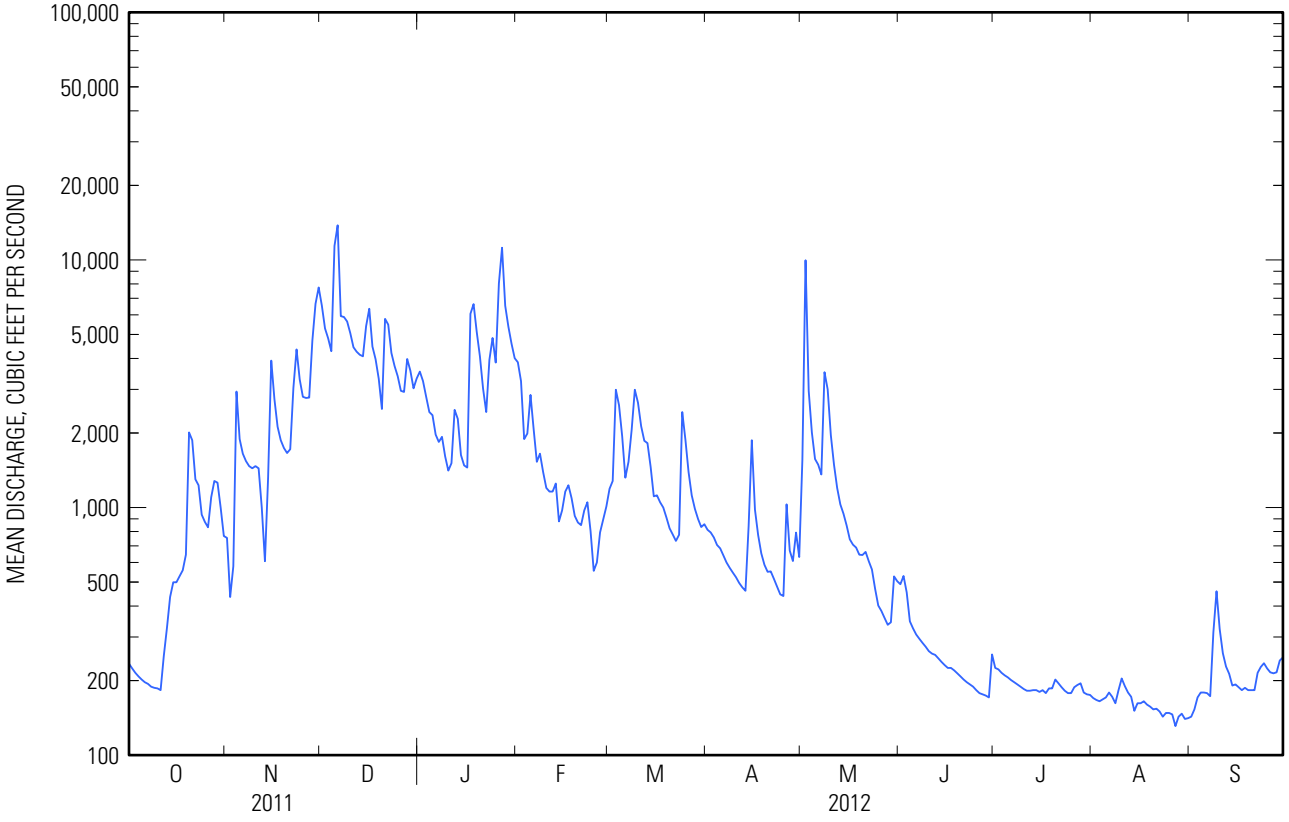
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1916 - 2012	
Annual total	942,478		536,056			
Annual mean	2,582		1,465		1,370	
Highest annual mean					2,398	1996
Lowest annual mean					271	1941
Highest daily mean	24,100	Apr 20	13,800	Dec 6	55,000	Jan 21, 1959
Lowest daily mean	158	Sep 18	131	Aug 27	60	Jul 27, 1934
Annual seven-day minimum	163	Aug 29	142	Aug 26	66	Sep 25, 1941
Maximum peak flow			20,900	Dec 6	81,800	Jan 21, 1959
Maximum peak stage			13.75	Dec 6	27.78	Jan 21, 1959
Instantaneous low flow					195	Oct 6, 2004
Annual runoff (cfsm)	2.11		1.20		1.12	
Annual runoff (inches)	28.64		16.29		15.21	
10 percent exceeds	6,370		3,990		3,120	
50 percent exceeds	1,250		738		664	
90 percent exceeds	194		178		172