

Water-Data Report 2011

03373508 BEAVER CREEK NEAR SHOALS, IN

East Fork White River Basin

LOCATION.--Lat 38°40'23", long 86°44'42" referenced to North American Datum of 1927, in SW ¼ SE ¼ sec.21, T.3 N., R.3 W., Martin County, IN, Hydrologic Unit 05120208, on right bank inside National Gypsum Property, 70 ft upstream of confluence with small tributary on right, 3.8 mi east of Shoals and at river mile 7.08.

DRAINAGE AREA.--62.1 mi² of which 21.5 mi² probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 2007 to current year.

GAGE.--Water-stage recorder. Datum of the gage is 466.54 above National Geodetic Vertical Datum of 1929.

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

03373508 BEAVER CREEK NEAR SHOALS, IN—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.01	0.03	47	111	19	140	9.9	277	10	5.3	0.36	0.09
2	0.00	0.04	15	79	142	64	9.6	1,580	8.1	3.8	0.37	0.08
3	0.00	0.05	10	24	43	36	8.9	1,310	7.1	4.0	0.39	0.07
4	0.00	0.08	8.9	15	24	31	72	361	6.0	8.2	0.41	0.09
5	0.00	0.08	7.8	11	20	447	151	198	5.4	3.8	0.35	0.09
6	0.00	0.07	6.5	9.7	17	285	54	211	5.1	2.6	0.38	0.06
7	0.01	0.06	5.4	8.9	19	117	32	213	4.8	1.9	0.33	0.05
8	0.01	0.06	4.8	7.5	19	58	24	247	4.1	4.5	0.29	0.05
9	0.02	0.06	4.5	5.7	13	520	153	116	3.7	2.9	0.30	0.06
10	0.02	0.06	4.4	5.3	10	234	183	49	3.5	1.8	0.42	0.09
11	0.02	0.05	4.7	5.4	9.3	115	201	32	3.9	1.4	0.39	0.11
12	0.01	0.05	8.1	5.5	8.7	58	450	21	4.2	1.4	0.33	0.11
13	0.01	0.06	7.9	5.0	8.7	36	145	16	3.6	3.8	0.31	0.11
14	0.01	0.10	5.9	5.0	9.2	28	75	71	3.2	1.7	0.31	0.11
15	0.01	0.11	5.2	5.0	8.3	62	46	84	4.5	1.2	0.28	0.13
16	0.01	0.21	5.3	5.0	8.1	86	147	60	6.2	0.98	0.21	0.11
17	0.01	0.47	5.1	5.1	7.9	48	111	31	4.8	0.89	0.18	0.12
18	0.01	0.50	4.8	7.4	6.8	43	63	22	37	0.84	0.18	0.22
19	0.00	0.48	4.4	15	7.2	129	103	19	25	0.89	0.21	0.36
20	0.00	0.43	4.4	13	6.9	62	615	15	24	0.84	0.21	0.31
21	0.00	0.41	4.9	10	7.9	41	201	12	12	0.83	0.20	0.23
22	0.00	0.37	5.4	7.9	22	31	154	10	8.3	0.70	0.17	0.19
23	e0.00	0.97	5.5	7.4	17	27	722	15	6.4	0.74	0.14	0.26
24	e0.00	1.9	5.3	7.1	22	23	1,400	65	5.3	0.68	0.13	0.24
25	e0.00	62	5.3	7.7	730	18	963	62	4.4	0.56	0.13	0.49
26	0.02	80	5.1	9.4	178	16	823	688	1,960	0.57	0.12	2.2
27	0.05	7.2	4.7	9.5	82	15	611	171	1,100	0.62	0.12	0.92
28	0.05	3.4	4.5	9.0	159	14	523	81	478	0.55	0.15	0.46
29	0.05	3.0	4.6	8.4	---	13	341	37	30	0.52	0.14	0.29
30	0.04	217	7.0	8.7	---	11	294	20	10	0.46	0.12	0.18
31	0.04	---	10	9.3	---	10	---	13	---	0.45	0.10	---
Total	0.41	379.30	232.4	442.9	1,625.0	2,818	8,685.4	6,107	3,788.6	59.42	7.73	7.88
Mean	0.01	12.6	7.50	14.3	58.0	90.9	290	197	126	1.92	0.25	0.26
Max	0.05	217	47	111	730	520	1,400	1,580	1,960	8.2	0.42	2.2
Min	0.00	0.03	4.4	5.0	6.8	10	8.9	10	3.2	0.45	0.10	0.05
In.	0.00	0.35	0.21	0.41	1.49	2.58	7.96	5.60	3.47	0.05	0.01	0.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2007 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	19.6	8.45	28.5	34.9	65.5	126	142	123	37.5	4.43	1.40	3.36
Max	78.0	19.0	42.7	71.8	91.0	307	290	197	126	11.0	4.16	13.0
(WY)	(2010)	(2010)	(2009)	(2008)	(2008)	(2008)	(2011)	(2011)	(2011)	(2009)	(2009)	(2009)
Min	0.01	0.75	7.50	14.3	44.4	41.4	42.3	49.9	5.59	1.92	0.25	0.04
(WY)	(2011)	(2008)	(2011)	(2011)	(2010)	(2009)	(2010)	(2010)	(2009)	(2011)	(2010)	(2007)

03373508 BEAVER CREEK NEAR SHOALS, IN—Continued

SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 2007 - 2011	
Annual total	8,204.69		24,154.04			
Annual mean	22.5		66.2		49.6	
Highest annual mean					66.2 2011	
Lowest annual mean					32.3 2010	
Highest daily mean	617	Mar 26	1,960	Jun 26	2,640	Mar 19, 2008
Lowest daily mean	0.00	Oct 2	0.00	Oct 2	0.00	Sep 19, 2007
Annual seven-day minimum	0.00	Oct 19	0.00	Oct 19	0.00	Sep 19, 2007
Maximum peak flow			2,960	Jun 26	3,350	Mar 19, 2008
Maximum peak stage			9.79	Jun 26	10.13	Mar 19, 2008
Annual runoff (inches)	7.52		22.13		16.61	
10 percent exceeds	58		152		115	
50 percent exceeds	5.1		5.3		7.4	
90 percent exceeds	0.04		0.05		0.10	

