Water-Data Report 2012

03373500 EAST FORK WHITE RIVER AT SHOALS, IN

East Fork White River Basin

LOCATION -- Lat 38°40′01″, long 86°47′31″ referenced to North American Datum of 1927, in SW ¼ NW ¼ sec.30, T.3 N., R.3 W., Martin County, IN, Hydrologic Unit 05120208, on upstream left bank, 30 ft upstream of Highway 50 bridge at Shoals, 1.0 mi upstream from Beaver Creek, 6.5 mi downstream from Indian Creek, and at mile 105.4.

DRAINAGE AREA – 4,927.00 mi^2, drainage area derived from the "Drainage Areas of Indiana Streams" publication also known as the Hogget maps

SURFACE-WATER RECORDS

PERIOD OF RECORD -- June 1903 to July 1906, October 1908 to September 1916, June 1923 to current year. Monthly discharge only for some periods, published in WSP 1305. Published as East Branch White River at Shoals, 1903-06, 1908-16. Gage-height records collected at same site since May 1908 are contained in reports of the National Weather Service.

REVISED RECORDS -- WSP 353: 1912. WSP 1335: 1903-6. WSP 2109: Drainage area. WDR IN-91-1: Location.

GAGE -- Water-stage recorder. Datum of gage is 442.25 ft above National Geodetic Vertical Datum of 1929. Oct. 26, 1932 to Dec. 12, 1989 and Aug. 9, 1999 to present, at current site. Water-stage recorder, located 440 ft downstream of U.S. Highway bridge, Dec. 13, 1989 to Aug. 9, 1999. See WSP 1725 for history of changes prior to Oct. 26, 1932.

REMARKS -- Records good except for estimated daily discharges, which are poor. Flow partially regulated by upstream reservoirs.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,340	1,060	17,700	13,900	24,200	4,860	8,550	2,900	1,510	636	459	379
2	1,180	1,020	16,800	12,300	21,900	5,390	9,680	3,120	1,540	627	441	430
3	1,040	998	17,600	10,600	17,600	6,290	10,800	3,600	1,720	637	438	475
4	932	999	19,100	9,650	13,600	6,610	10,500	5,490	1,870	651	432	520
5	853	1,030	23,000	8,820	11,600	7,220	9,410	9,900	1,910	712	425	524
6	802	1,110	28,800	8,050	10,500	8,110	8,870	13,500	1,740	769	417	581
7	758	1,390	28,800	7,420	9,970	7,820	9,230	14,300	1,570	730	403	e677
8	721	1,830	25,800	6,940	9,680	6,790	8,580	13,800	1,450	688	393	e747
9	689	1,800	27,800	6,550	9,020	7,820	7,160	12,200	1,360	787	385	e771
10	667	1,630	32,100	6,230	8,240	7,980	6,050	11,400	1,290	1,070	397	e855
11	637	1,510	33,900	6,300	7,600	9,020	5,340	11,900	1,230	875	403	e1,080
12	615	1,390	32,100	9,560	7,080	9,660	4,900	12,100	1,170	662	406	1,330
13	618	1,300	26,500	10,600	6,700	8,960	4,580	10,800	1,120	577	419	1,350
14	617	1,250	19,300	9,920	6,410	7,370	4,110	8,360	1,070	550	423	1,160
15	597	1,580	14,600	9,420	6,150	6,280	5,800	6,720	1,030	545	441	967
16	588	3,270	13,800	8,400	6,080	7,070	7,160	5,820	981	526	493	832
17	570	4,250	11,500	7,950	6,190	7,530	9,230	4,920	958	514	698	752
18	564	5,620	e13,500	13,100	6,260	6,160	9,430	4,140	975	504	1,200	695
19	570	5,550	e15,400	14,500	6,360	6,190	7,910	3,720	1,020	506	888	638
20	637	4,600	e15,600	15,000	6,370	5,670	6,400	3,420	937	545	700	614
21	809	3,560	e13,500	18,300	6,150	5,050	5,480	3,040	877	572	647	573
22	982	3,160	e14,000	20,100	5,910	4,490	4,930	2,680	840	577	603	542
23	957	4,720	e15,700	20,600	5,710	4,130	4,550	2,470	807	559	537	514
24	1,040	5,810	e17,800	20,000	5,560	4,660	4,150	2,220	779	551	486	547
25	1,370	7,280	e18,600	16,700	5,460	8,740	3,690	2,060	755	553	447	571
26	1,450	8,160	e18,300	16,400	5,320	11,400	3,340	1,940	721	538	419	743
27	1,370	7,440	e16,600	19,100	5,140	13,700	2,990	1,840	692	515	407	865
28	1,280	7,790	15,400	19,300	4,950	15,400	2,690	1,750	672	499	407	1,040
29	1,230	14,300	14,500	19,400	4,820	15,800	2,740	1,680	660	503	394	1,030
30	1,150	18,600	14,000	21,200	---	14,000	2,900	1,600	653	507	392	898
31	1,110	---	14,200	23,600	---	10,900	---	1,540	---	482	381	---
Total	27,743	124,007	606,300	409,910	250,530	251,070	191,150	184,930	33,907	18,967	15,381	22,700
Mean	895	4,134	19,560	13,220	8,639	8,099	6,372	5,965	1,130	612	496	757
Max	1,450	18,600	33,900	23,600	24,200	15,800	10,800	14,300	1,910	1,070	1,200	1,350
Min	564	998	11,500	6,230	4,820	4,130	2,690	1,540	653	482	381	379
Cfsm	0.18	0.84	3.97	2.68	1.75	1.64	1.29	1.21	0.23	0.12	0.10	0.15
In.	0.21	0.94	4.58	3.09	1.89	1.90	1.44	1.40	0.26	0.14	0.12	0.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,775	3,080	5,719	8,979	8,690	11,190	10,300	8,228	5,002	3,063	2,006	1,427
Max	12,520	18,370	21,600	47,640	30,880	34,300	26,470	35,120	19,290	13,520	15,220	9,154
(WY)	(1911)	(1994)	(2002)	(1937)	(1950)	(1945)	(2011)	(1996)	(1997)	(1958)	(1979)	(1926)
Min	262	293	305	432	589	562	1,029	529	696	365	265	233
(WY)	(1941)	(1955)	(1964)	(1931)	(1931)	(1941)	(1915)	(1941)	(1936)	(1954)	(1936)	(1954)

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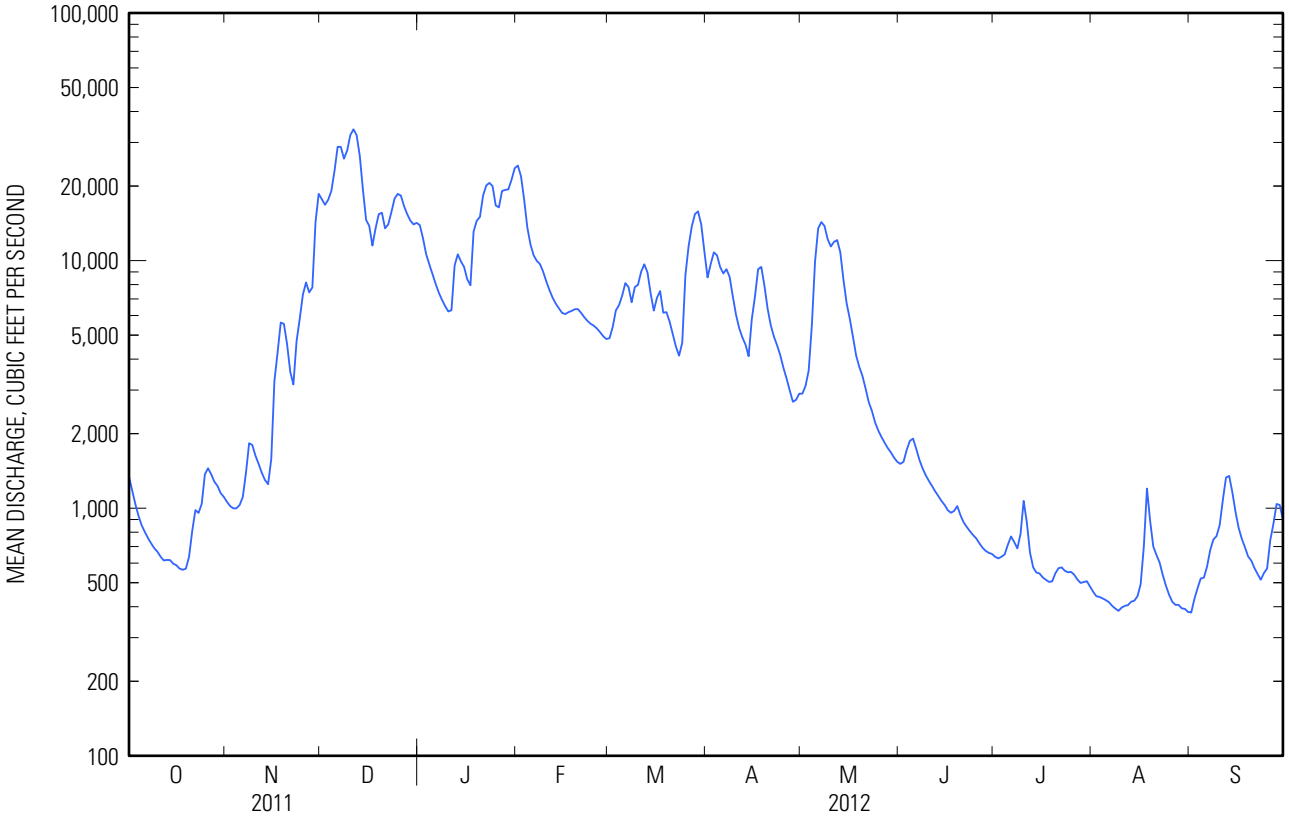
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1904 - 2012	
Annual total	3,758,342		2,136,595			
Annual mean	10,300		5,838		5,772	
Highest annual mean					10,370	1950
Lowest annual mean					855	1941
Highest daily mean	63,200	Apr 26	33,900	Dec 11	155,000	Mar 28, 1913
Lowest daily mean	555	Sep 17	379	Sep 1	64	Oct 6, 1935
Annual seven-day minimum	562	Sep 7	397	Aug 26	168	Oct 3, 1935
Maximum peak flow			34,100	Dec 11	160,000	Mar 28, 1913
Maximum peak stage			21.54	Dec 11	42.20	Mar 28, 1913
Annual runoff (cfsm)	2.09		1.18		1.17	
Annual runoff (inches)	28.38		16.13		15.92	
10 percent exceeds	25,500		15,500		14,900	
50 percent exceeds	5,070		3,020		2,840	
90 percent exceeds	660		518		541