Water-Data Report 2011

03275000 WHITEWATER RIVER NEAR ALPINE, IN

Great Miami River Basin

LOCATION.--Lat 39°34′46″, long 85°09′29″ referenced to North American Datum of 1927, in SW ¼ NE ¼ sec.14, T.13 N., R.12 E., Fayette County, IN, Hydrologic Unit 05080003, on right bank 1117 ft. upstream from Wilson Creek, 5.1 mi. upstream from Bear Creek, 0.4 mi. upstream from bridge on County Road 480 South, 2.0 mi. northeast of Alpine. and at mile 54.8.

DRAINAGE AREA.--522.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1928 to current year. Prior to October 1936, published as West Fork Whitewater River near Alpine.

REVISED RECORDS.--WSP 1143: 1943-44(M), 1947 (M). WSP 1335: 1929-30, 1932(M), 1938, 1946-47(m), 1949-50. WSP 1505: 1942(P). WSP 1908: 1937(M), 1944, 1949(M), drainage area. WDR IN-79-1: 1975 (P).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 750.19 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 9, 1928, non-recording gage at site 0.5 mi downstream and same datum. Nov. 9, 1928 to Sept. 30, 1982 recording gage 0.5 mi downstream at same datum. Oct. 1, 1982 to June 29, 1993 at same site and datum. June 30, 1993 to Oct. 27, 1998 at site 0.5 mi downstream at same datum.

REMARKS.--Records poor. (Former National stream-quality accounting network station).

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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	e70	e85	832	576	e198	4,930	313	1,550	945	339	167	113
2	e71	e83	551	713	e220	1,290	319	5,610	835	330	165	110
3	e84	e97	425	503	e215	1,000	285	7,250	763	319	188	108
4	e82	e85	360	409	e195	1,010	3,980	3,930	698	314	168	125
5	e78	e88	319	352	e197	8,490	6,650	2,270	662	306	160	117
6	e74	e82	282	320	e186	11,100	2,240	1,760	624	292	156	115
7	e70	e84	255	e280	e179	2,970	1,410	1,460	581	282	157	118
8	e68	e88	233	e251	e176	2,040	1,070	1,380	543	296	182	129
9	e66	e92	218	e225	e172	2,560	1,090	1,200	508	274	198	128
10	e68	e88	218	e213	e168	2,720	1,590	1,050	500	260	194	125
11	e70	82	213	e206	e185	1,760	1,200	958	645	253	171	122
12	e73	83	233	e198	202	1,340	1,380	878	667	251	158	126
13	e76	82	304	e194	203	1,070	995	842	539	241	153	115
14	e112	92	e249	e189	297	903	805	1,120	485	230	156	110
15	e84	88	e220	e185	624	848	697	2,140	491	223	154	111
16	e80	107	e211	e183	661	834	730	1,340	502	218	150	109
17	e82	155	e203	e182	1,480	781	683	1,090	456	214	145	107
18	e83	145	e195	209	1,560	721	602	1,030	510	209	143	106
19	e94	126	e193	235	934	649	5,610	1,050	685	204	140	118
20	e88	114	e190	261	716	584	12,500	900	606	199	138	131
21	e83	106	192	e220	1,290	562	4,560	803	625	209	139	167
22	e85	101	186	e188	2,650	529	2,340	746	558	196	134	159
23	e87	111	179	e186	1,040	532	2,310	765	491	188	130	159
24	e90	121	174	e182	865	493	1,960	786	455	185	126	155
25	e95	236	171	e181	1,350	443	3,850	725	428	228	131	141
26	e114	485	168	e180	907	415	5,790	7,630	436	212	124	208
27	e118	405	161	e179	825	388	6,350	5,900	409	196	122	193
28	e100	291	161	e178	4,540	361	4,520	2,370	390	185	119	174
29	e92	241	157	e177	---	340	2,320	1,770	363	177	115	170
30	e88	636	200	e176	---	327	1,680	1,370	350	177	113	165
31	e84	---	481	e175	---	320	---	1,110	---	175	114	---
Total	2,609	4,679	8,134	7,906	22,235	52,310	79,829	62,783	16,750	7,382	4,610	4,034
Mean	84.2	156	262	255	794	1,687	2,661	2,025	558	238	149	134
Max	118	636	832	713	4,540	11,100	12,500	7,630	945	339	198	208
Min	66	82	157	175	168	320	285	725	350	175	113	106
Cfsm	0.16	0.30	0.50	0.49	1.52	3.23	5.10	3.88	1.07	0.46	0.28	0.26
In.	0.19	0.33	0.58	0.56	1.58	3.73	5.69	4.47	1.19	0.53	0.33	0.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	210	357	568	862	853	1,030	1,012	808	583	381	242	188
Max	1,685	1,978	2,531	4,409	2,639	2,574	2,665	3,763	2,609	1,777	2,342	1,362
(WY)	(1987)	(1994)	(1991)	(1937)	(1950)	(2007)	(2002)	(1996)	(1998)	(1979)	(1979)	(2003)
Min	47.1	49.8	50.6	58.9	56.9	120	122	70.0	68.9	61.1	61.3	50.3
(WY)	(1935)	(1935)	(1935)	(1935)	(1935)	(1935)	(1941)	(1941)	(1934)	(1934)	(1988)	(1934)

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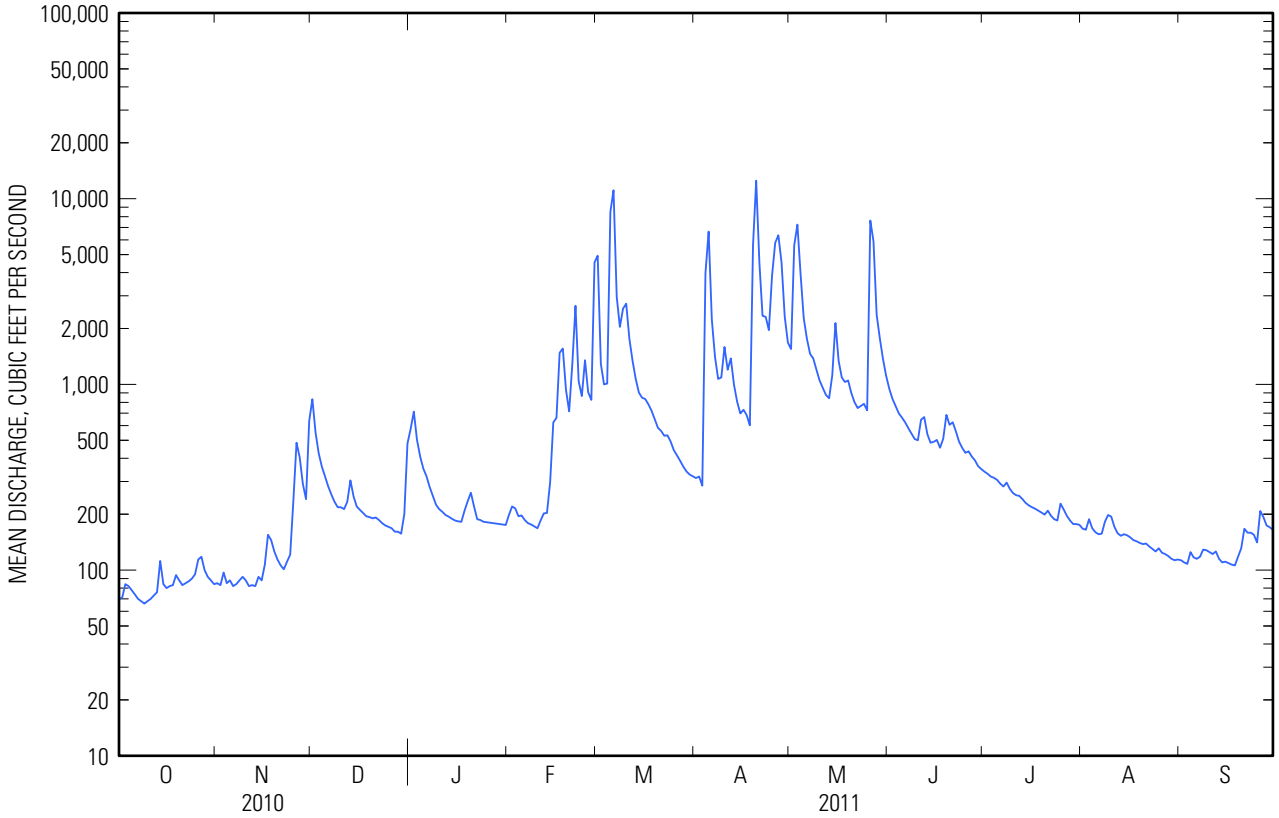
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1929 - 2011	
Annual total	178,330		273,261			
Annual mean	489		749		590	
Highest annual mean					1,066	2002
Lowest annual mean					117	1941
Highest daily mean	6,020	Mar 14	12,500	Apr 20	26,300	Mar 5, 1963
Lowest daily mean	66	Oct 9	66	Oct 9	30	Aug 6, 1934
Annual seven-day minimum	70	Oct 6	70	Oct 6	33	Aug 2, 1934
Maximum peak flow			18,000	Mar 6	37,100	Jan 14, 1937
Maximum peak stage			18.74	Mar 6	20.94	Jan 6, 2005
Annual runoff (cfsm)	0.936		1.43		1.13	
Annual runoff (inches)	12.71		19.47		15.35	
10 percent exceeds	967		1,570		1,170	
50 percent exceeds	342		220		290	
90 percent exceeds	84		91		90