Water-Data Report 2011

03360000 EEL RIVER AT BOWLING GREEN, IN

White River Basin

LOCATION.--Lat 39°22′58″, long 87°01′14″ referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.24, T.11 N., R.6 W., Clay County, IN, Hydrologic Unit 05120203, on left bank 500 ft downstream from bridge on State Highway 46 at Bowling Green, 0.2 mi downstream from Jordan Creek, 15 mi northwest of Spencer, and at mile 38.4.

DRAINAGE AREA.--830.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1931 to current year. Prior to October 1934, published as "near Centerpoint".

REVISED RECORDS.--WSP 893: 1935, 1937-39. WSP 973: 1937-38, 1939(M). WSP 1335: 1931(M). WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 548.02 ft above National Geodetic Vertical Datum of 1929, (levels by U.S. Army Corps of Engineers). See WSP 1725 for history of changes prior to Dec. 1, 1949.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by Cagles Mill Lake.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage, about 30.0 ft in 1875, present datum, from information by U.S. Army Corps of Engineers.

03360000 EEL RIVER AT BOWLING GREEN, IN—Continued

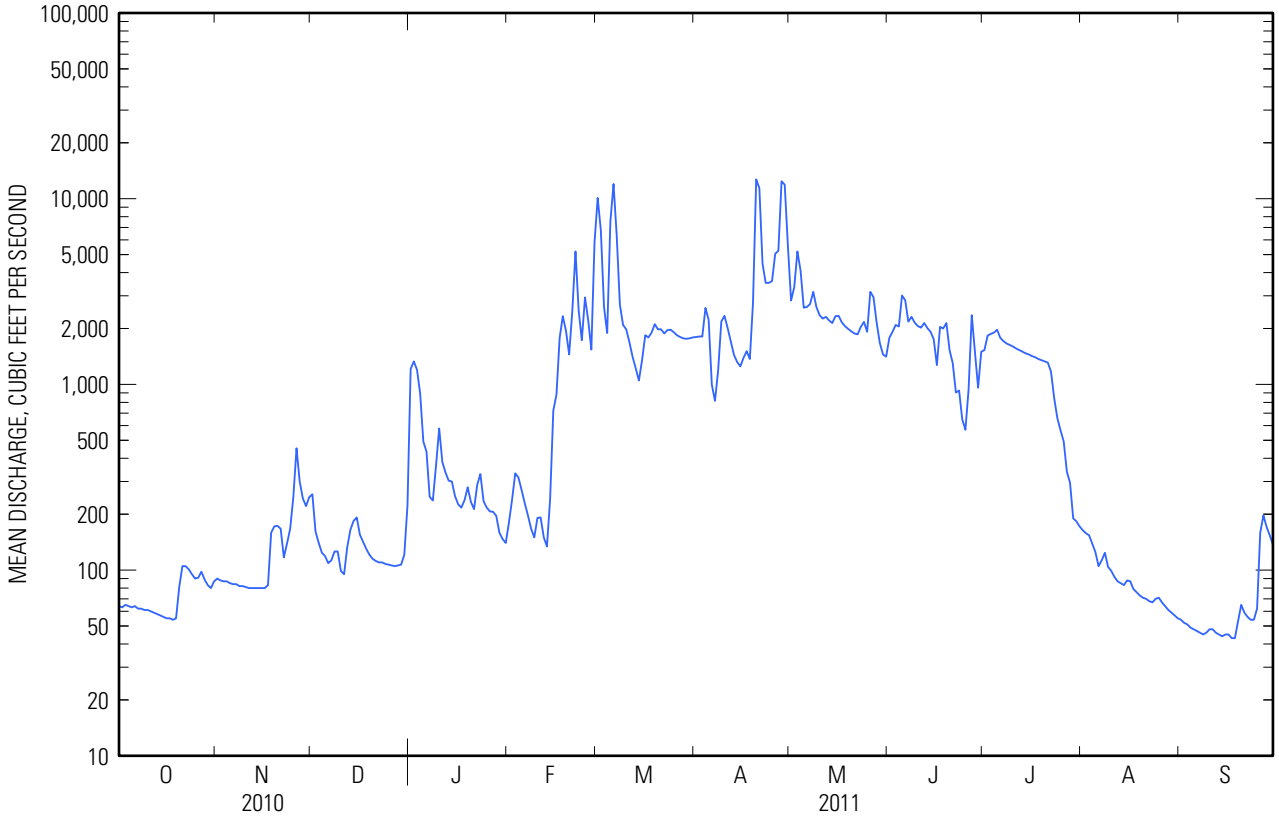
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	64	90	256	1,210	e180	10,100	1,800	2,830	1,780	1,530	164	54
2	63	88	161	1,330	240	6,740	1,810	3,330	1,920	1,830	158	52
3	65	87	140	1,200	332	2,610	1,810	5,200	2,090	1,870	154	51
4	64	87	124	894	315	1,890	2,580	4,100	2,050	1,900	139	49
5	63	85	119	492	270	7,520	2,230	2,590	3,010	1,970	125	48
6	64	84	109	435	e229	12,000	998	2,610	2,840	1,780	105	47
7	62	84	113	248	e197	6,340	815	2,710	2,180	1,710	113	46
8	62	82	126	e237	e167	2,690	1,190	3,150	2,310	1,660	124	45
9	61	82	126	e365	e150	2,090	2,180	2,610	2,150	1,630	104	46
10	61	81	99	e579	e191	1,980	2,340	2,360	2,060	1,600	99	48
11	60	80	95	e382	e192	1,690	2,010	2,260	2,020	1,560	92	48
12	59	80	133	e335	e150	1,410	1,700	2,310	2,140	1,530	87	46
13	58	80	165	e303	e134	1,220	1,440	2,210	2,010	1,500	85	45
14	57	80	e184	e300	242	1,050	1,320	2,140	1,920	1,470	83	44
15	56	80	e192	e250	722	1,350	1,250	2,330	1,750	1,450	88	45
16	55	80	e155	e226	882	1,840	1,390	2,340	1,270	1,420	87	45
17	55	83	e142	e217	1,780	1,790	1,510	2,160	2,040	1,400	79	43
18	54	159	e130	e238	2,330	1,900	1,370	2,060	2,000	1,370	76	43
19	55	172	e121	e279	1,940	2,110	2,770	1,990	2,140	1,350	73	53
20	81	173	e115	e233	1,450	1,980	12,700	1,930	1,530	1,330	71	65
21	105	167	e112	e213	2,490	1,980	11,400	1,880	1,300	1,310	70	59
22	105	117	e110	e288	5,200	1,880	4,470	1,860	904	1,170	68	56
23	101	139	e110	e329	2,500	1,960	3,520	2,040	927	844	67	54
24	95	167	e108	e235	1,730	1,970	3,520	2,170	648	658	70	54
25	90	248	e107	e217	2,940	1,910	3,600	1,920	570	566	71	62
26	91	453	e106	e207	2,220	1,840	5,050	3,150	938	493	67	159
27	98	300	e105	206	1,540	1,800	5,240	2,950	2,360	339	64	197
28	89	243	e106	196	5,820	1,770	12,400	2,150	1,500	295	61	171
29	83	221	e107	159	---	1,760	11,900	1,670	959	190	59	154
30	80	247	121	147	---	1,770	5,580	1,450	1,500	183	57	137
31	87	---	223	e140	---	1,790	---	1,410	---	172	55	---
Total	2,243	4,219	4,120	12,090	36,533	90,730	111,893	75,870	52,816	38,080	2,815	2,066
Mean	72.4	141	133	390	1,305	2,927	3,730	2,447	1,761	1,228	90.8	68.9
Max	105	453	256	1,330	5,820	12,000	12,700	5,200	3,010	1,970	164	197
Min	54	80	95	140	134	1,050	815	1,410	570	172	55	43
Cfsm	0.09	0.17	0.16	0.47	1.57	3.53	4.49	2.95	2.12	1.48	0.11	0.08
In.	0.10	0.19	0.18	0.54	1.64	4.07	5.01	3.40	2.37	1.71	0.13	0.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	313	602	916	1,268	1,337	1,585	1,631	1,280	980	637	330	319
Max	1,838	3,076	2,960	7,212	3,249	3,843	4,120	5,090	5,141	2,746	2,656	2,682
(WY)	(2002)	(1986)	(1991)	(1950)	(1950)	(1938)	(1944)	(1943)	(2008)	(1987)	(1979)	(2003)
Min	22.5	29.7	29.0	27.5	107	125	285	129	66.9	39.4	24.1	13.9
(WY)	(1941)	(1965)	(1964)	(1977)	(1934)	(1941)	(1971)	(1934)	(1988)	(1954)	(1936)	(1954)

03360000 EEL RIVER AT BOWLING GREEN, IN—Continued

SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1931 - 2011	
Annual total	263,964		433,475			
Annual mean	723		1,188		934	
Highest annual mean					1,730	2008
Lowest annual mean					161	1954
Highest daily mean	7,810	Jun 23	12,700	Apr 20	28,700	Jun 29, 1957
Lowest daily mean	54	Oct 18	43	Sep 17	11	Oct 7, 1954
Annual seven-day minimum	56	Oct 13	44	Sep 12	12	Oct 2, 1954
Maximum peak flow			17,400	Apr 20	34,000	Jan 4, 1950
Maximum peak stage			21.11	Apr 20	23.53	Jan 4, 1950
Annual runoff (cfsm)	0.871		1.43		1.12	
Annual runoff (inches)	11.83		19.43		15.28	
10 percent exceeds	1,700		2,530		2,210	
50 percent exceeds	435		279		396	
90 percent exceeds	75		61		60