

Water-Data Report 2013

**03376500 PATOKA RIVER NEAR PRINCETON, IN**

Patoka River Basin

LOCATION.--Lat 38°23'25", long 87°32'56" referenced to North American Datum of 1927, in sec.107, T.1 S., R.10 W., Gibson County, IN, Hydrologic Unit 05120209, on right downstream side of bridge on State Highway 65, 0.5 mi downstream from Indian Creek, 2 mi northeast of Princeton, and at mile 21.4.

DRAINAGE AREA.-- 822 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.-- August 1934 to current year. Published as "at Patoka" August 1934 to September 1940. Records published for both names October 1939 to September 1940 (monthly discharge only under "near Princeton" name, for October, November 1939, published in WSP 1305).

REVISED RECORDS.-- WSP 1275: 1952. WSP 1335: 1935-36, 1938-39, 1949(M), 1940-50. WSP 1385: 1951-52. WSP 2109: Drainage area.

GAGE.-- Water-stage recorder. Datum of gage is 390.00 ft above National Geodetic Vertical Datum of 1929. Jan. 21, 1941 to Oct. 23, 1986, water-stage recorder at dam 0.1 mi downstream and at datum 4.14 ft higher. See WSP 1725 for history of changes prior to Jan. 21, 1941.

REMARKS.-- Records good except for estimated daily discharges, which are poor. Flow regulated by Patoka Lake.

## 03376500 PATOKA RIVER NEAR PRINCETON, IN—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	450	120	74	702	2,260	1,950	2,140	e1,160	1,700	1,600	195	432
2	354	115	76	805	2,330	1,970	1,920	e1,050	2,040	2,150	183	1,240
3	339	99	76	909	2,350	1,960	1,710	e966	2,090	2,000	173	1,300
4	319	87	80	794	2,340	1,950	1,520	871	2,110	1,790	168	985
5	278	80	e92	635	2,320	1,930	1,400	1,560	1,960	1,360	164	485
6	710	80	e97	517	2,290	1,890	1,340	1,930	1,520	857	161	243
7	663	78	101	462	2,240	1,840	1,310	1,990	1,000	483	162	165
8	604	78	126	449	2,140	1,760	1,300	2,010	629	324	162	132
9	437	82	161	662	2,000	1,660	1,310	2,000	412	257	166	119
10	284	76	1,320	1,270	1,880	1,560	1,310	1,980	347	216	159	114
11	187	75	1,720	2,310	1,830	1,480	1,510	1,970	312	204	169	110
12	138	143	1,720	2,410	1,750	1,350	1,800	1,940	276	251	143	106
13	113	251	1,680	3,470	1,690	1,190	1,840	1,800	250	280	143	104
14	97	324	1,610	3,560	1,630	1,040	1,840	1,440	222	289	177	98
15	93	293	1,420	4,040	1,570	989	1,770	1,020	204	269	202	96
16	95	226	1,040	4,500	1,490	984	1,620	721	187	220	175	95
17	90	180	703	4,700	1,390	1,320	1,410	666	229	194	138	91
18	274	149	501	4,800	1,290	3,170	1,250	706	453	187	123	88
19	281	130	392	4,890	1,370	2,810	2,470	587	585	183	114	87
20	266	117	342	4,830	1,460	2,820	2,320	463	669	175	109	91
21	221	109	344	4,620	1,440	2,920	2,350	684	530	174	110	106
22	171	103	509	4,290	1,490	3,000	2,360	941	317	208	107	118
23	146	99	522	4,020	1,550	3,040	2,320	897	226	308	105	135
24	134	93	408	3,580	1,540	3,070	e2,190	692	731	351	102	126
25	113	85	317	3,130	1,490	3,100	e2,060	501	1,580	308	100	113
26	103	82	272	2,690	1,620	3,090	e1,890	394	1,170	231	98	103
27	106	80	288	2,290	1,840	3,020	e1,740	342	2,060	200	97	96
28	113	76	470	1,970	1,900	2,890	e1,600	353	1,730	197	92	90
29	145	74	591	1,700	---	2,720	e1,450	320	1,600	197	90	92
30	157	75	604	2,250	---	2,540	e1,310	289	1,490	191	91	105
31	135	---	654	2,240	---	2,350	---	381	---	194	91	---
<b>Total</b>	7,616	3,659	18,310	79,495	50,490	67,363	52,360	32,624	28,629	15,848	4,269	7,265
<b>Mean</b>	246	122	591	2,564	1,803	2,173	1,745	1,052	954	511	138	242
<b>Max</b>	710	324	1,720	4,890	2,350	3,170	2,470	2,010	2,110	2,150	202	1,300
<b>Min</b>	90	74	74	449	1,290	984	1,250	289	187	174	90	87
<b>Cfsm</b>	0.30	0.15	0.72	3.12	2.19	2.64	2.12	1.28	1.16	0.62	0.17	0.29
<b>In.</b>	0.34	0.17	0.83	3.60	2.28	3.05	2.37	1.48	1.30	0.72	0.19	0.33

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2013, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	290	555	1,057	1,590	1,785	2,215	1,933	1,566	810	451	312	254
<b>Max</b>	2,573	2,978	4,232	8,365	5,570	8,531	4,664	6,810	4,322	3,075	3,915	1,348
<b>(WY)</b>	(1946)	(1994)	(2002)	(1937)	(1950)	(1945)	(1989)	(1961)	(1996)	(1958)	(1979)	(2006)
<b>Min</b>	1.53	9.83	10.2	44.3	64.2	61.5	240	117	7.93	15.0	4.60	8.12
<b>(WY)</b>	(1943)	(1944)	(1944)	(1944)	(1964)	(1941)	(2001)	(1941)	(1936)	(1944)	(1936)	(1942)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1935 - 2013	
<b>Annual total</b>	268,408		367,928			
<b>Annual mean</b>	733		1,008		1,065	
<b>Highest annual mean</b>					2,080	1950
<b>Lowest annual mean</b>					151	1954
<b>Highest daily mean</b>	2,790	Jan 28	4,890	Jan 19	18,500	Jan 26, 1937
<b>Lowest daily mean</b>	17	Jun 30	74	Nov 29	0.00	Aug 29, 1936
<b>Annual seven-day minimum</b>	19	Jun 27	76	Nov 27	0.00	Aug 29, 1936
<b>Maximum peak flow</b>			4,910	Jan 19	18,700	Jan 26, 1937
<b>Maximum peak stage</b>			19.79	Jan 19	26.80	Jan 26, 1937
<b>Annual runoff (cfsm)</b>	0.892		1.23		1.30	
<b>Annual runoff (inches)</b>	12.15		16.65		17.60	
<b>10 percent exceeds</b>	2,170		2,320		2,820	
<b>50 percent exceeds</b>	204		517		418	
<b>90 percent exceeds</b>	44		97		34	

