03375500 PATOKA RIVER AT JASPER, IN

Patoka River Basin

LOCATION.--Lat 38°24′49″, long 86°52′36″ referenced to North American Datum of 1927, in NW ¼ SE ¼ sec.20, T.1 S., R.4 W., Dubois County, IN, Hydrologic Unit 05120209, on left bank 0.3 mi upstream from unnamed outlet of Idlewild Lake, 1.2 mi downstream from county road bridge, 1.2 mi downstream from Beaver Creek, 3.3 mi northeast of Jasper, and at mile 91.5.

DRAINAGE AREA.--262 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--November 1947 to current year.

REVISED RECORDS.--WSP 1909: 1958. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 446.00 ft above National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Nonrecording gage at bridge 5.6 mi downstream, used for high-water periods when flow exceeds about 2,500 ft^3/s, at datum 0.15 ft lower. Prior to Sept. 18, 1956, nonrecording gage at bridge 5.6 mi downstream at datum 0.15 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Beaver Creek Reservoir beginning Oct. 11, 1955, and by Patoka Lake beginning Feb. 13, 1978.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 15.9 ft at downstream site, from floodmark furnished by local residents, discharge 16,000 ft^3/s.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 03375500, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/03375500.2011.pdf

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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	23	31	1,120	412	128	779	674	864	209	136	416	320
2	24	32	411	501	485	404	671	2,160	190	170	417	321
3	24	33	160	288	295	268	668	4,330	175	173	416	321
4	24	32	153	389	163	225	674	3,470	161	251	251	324
5	24	32	179	457	139	786	569	3,340	150	195	153	350
6	24	32	166	577	130	1,170	457	3,520	215	174	254	365
7	25	33	216	635	153	686	431	3,440	261	167	383	353
8	24	34	252	375	165	334	421	3,350	243	262	295	335
9	24	34	248	169	126	1,030	493	3,290	251	203	271	333
10	23	34	246	172	e115	1,280	665	3,240	262	136	272	332
11	23	34	249	714	e133	879	777	2,950	266	122	269	331
12	23	33	286	906	e142	376	1,300	2,480	252	116	267	379
13	23	34	276	929	144	259	1,380	2,900	225	129	279	408
14	25	36	260	936	145	246	906	3,050	206	117	254	410
15	24	32	263	938	141	460	341	3,080	263	110	157	375
16	23	32	265	939	140	515	615	3,090	302	107	146	339
17	24	39	263	938	140	345	545	3,020	286	105	209	337
18	24	38	326	956	139	308	339	2,920	336	104	263	343
19	21	34	378	1,010	115	307	255	2,430	467	103	265	373
20	19	31	355	1,010	68	285	758	1,780	321	103	265	352
21	20	30	360	981	65	268	837	1,220	120	119	264	344
22	23	29	406	949	82	255	399	587	94	149	264	342
23	24	34	428	931	88	297	1,160	362	82	197	264	346
24	24	53	422	924	125	475	2,600	493	73	233	264	281
25	25	493	423	783	1,230	544	3,820	396	67	236	264	210
26	28	1,210	420	410	1,360	546	3,250	558	667	236	260	809
27	35	893	415	163	1,070	545	2,500	473	901	236	240	371
28	33	228	264	114	719	542	1,990	354	296	238	303	150
29	30	121	163	108	---	621	1,650	296	152	312	317	131
30	30	1,040	180	109	---	669	1,040	260	121	412	318	124
31	31	---	205	108	---	674	---	232	---	416	319	---
Total	771	4,801	9,758	18,831	7,945	16,378	32,185	63,935	7,614	5,767	8,579	10,109
Mean	24.9	160	315	607	284	528	1,073	2,062	254	186	277	337
Max	35	1,210	1,120	1,010	1,360	1,280	3,820	4,330	901	416	417	809
Min	19	29	153	108	65	225	255	232	67	103	146	124
Cfsm	0.09	0.61	1.20	2.32	1.08	2.02	4.09	7.87	0.97	0.71	1.06	1.29
In.	0.11	0.68	1.39	2.67	1.13	2.33	4.57	9.08	1.08	0.82	1.22	1.44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	109	229	441	647	672	760	598	450	206	132	110	103
Max	494	800	1,506	2,742	1,898	2,543	1,574	2,062	1,044	787	530	484
(WY)	(1980)	(1975)	(1952)	(1950)	(1950)	(1964)	(1972)	(2011)	(1996)	(1958)	(1977)	(1979)
Min	0.00	0.00	0.17	17.5	27.7	144	54.1	29.8	8.66	0.07	0.00	0.00
(WY)	(1949)	(1954)	(1954)	(1964)	(1964)	(1992)	(2001)	(2001)	(1953)	(1954)	(1952)	(1953)

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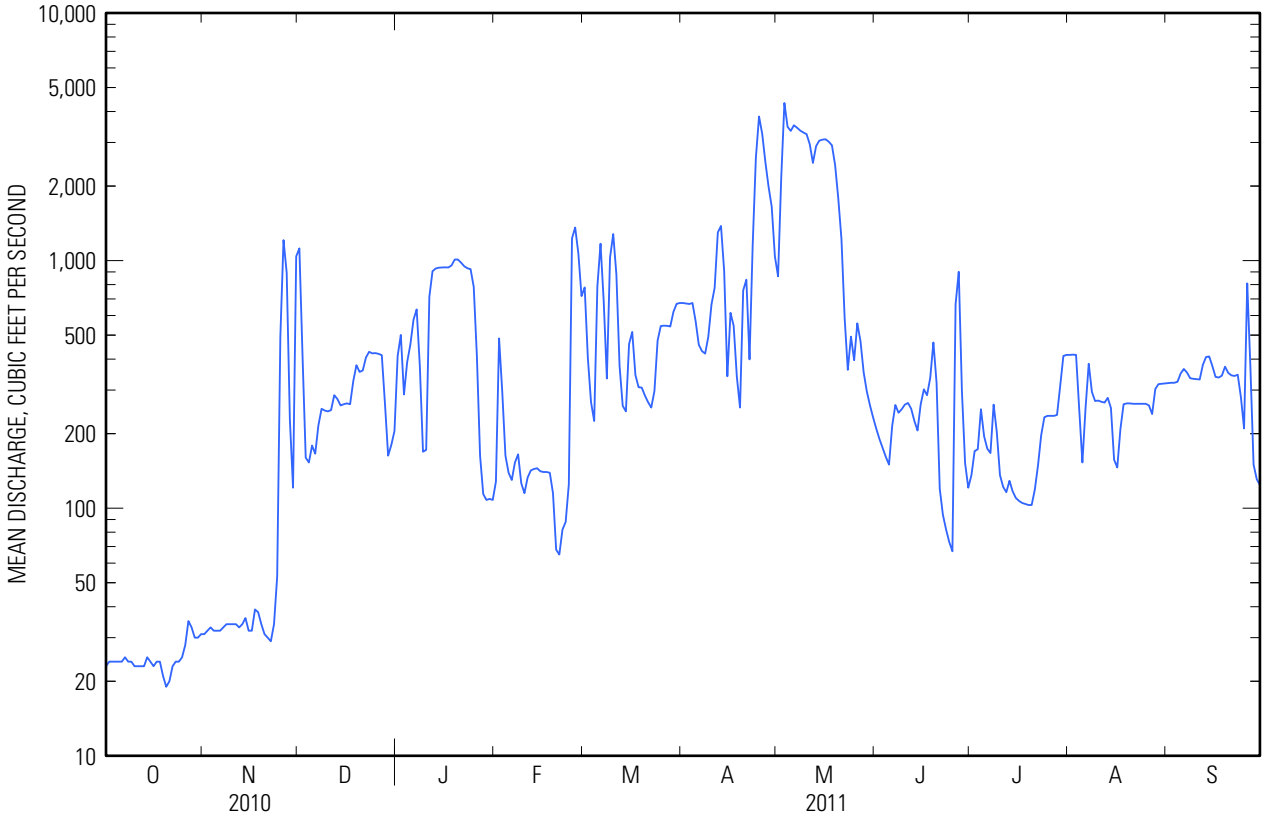
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1949 - 2011	
Annual total	115,305		186,673			
Annual mean	316		511		370	
Highest annual mean					673	1950
Lowest annual mean					63.6	1954
Highest daily mean	1,690	Mar 27	4,330	May 3	13,500	Mar 11, 1964
Lowest daily mean	15	Aug 29	19	Oct 20	0.00	Oct 1, 1948
Annual seven-day minimum	16	Aug 29	22	Oct 16	0.00	Oct 1, 1948
Maximum peak flow			4,550	May 3	14,100	Mar 11, 1964
Maximum peak stage			16.68	May 3	21.20	Mar 11, 1964
Annual runoff (cfsm)	1.21		1.95		1.41	
Annual runoff (inches)	16.37		26.50		19.19	
10 percent exceeds	844		1,050		1,050	
50 percent exceeds	172		268		152	
90 percent exceeds	24		32		10