Water-Data Report 2011

03326500 MISSISSINEWA RIVER AT MARION, IN

Wabash River Basin

LOCATION.--Lat 40°34′35″, long 85°39′36″ referenced to North American Datum of 1927, in SE ¼ NE ¼ sec.31, T.25 N., R.8 E., Grant County, IN, Hydrologic Unit 05120103, on left bank 12 ft downstream from Highland Avenue bridge in Marion, 0.1 mi downstream from old mill dam, 1.0 mi upstream from Hummel Creek, 4.6 mi downstream from Lugar Creek, and at mile 35.8.

DRAINAGE AREA.--682.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1923 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 1335: 1927(M). WSP 1385: 1948. WSP 2109: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 774.56 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 9, 1933, non-recording gage at same site and datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow periodically regulated by dam 0.1 mile above station. 1930 water year not used in summary statistics.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 19.20 ft from information by State of Indiana, Department of Natural Resources.

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 03326500, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/03326500.2011.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	36	84	1,180	2,460	e88	17,700	292	1,390	667	e221	67	40
2	38	82	1,110	2,410	e86	13,400	300	1,090	530	e198	63	40
3	38	77	539	1,110	e85	4,530	280	3,680	451	e183	86	39
4	38	71	377	578	e83	1,680	320	4,890	478	e173	68	38
5	37	69	307	e363	e83	5,610	1,610	2,750	503	159	66	38
6	36	68	255	e245	e82	10,500	2,900	1,300	397	e152	64	38
7	36	67	e178	e188	e82	9,370	1,100	e985	347	e148	77	41
8	36	66	e152	e159	e79	3,810	863	1,140	313	e150	130	64
9	36	64	e143	e144	e76	1,900	1,320	1,200	276	e142	168	65
10	39	67	e144	e133	e75	2,970	3,240	873	322	e138	124	70
11	40	71	166	e125	e73	2,180	1,770	1,130	488	e123	104	61
12	42	72	174	e120	e72	1,280	1,570	804	780	e118	84	52
13	59	65	230	e114	e73	921	1,060	644	564	e102	78	47
14	75	76	254	e109	e87	708	700	e625	383	100	79	47
15	62	88	e182	e106	220	798	564	e1,210	e310	e95	67	48
16	62	84	e160	e103	627	1,740	530	1,740	e386	e95	66	47
17	66	94	e148	e101	3,580	1,300	e495	1,360	e328	e94	66	47
18	64	96	e138	e105	9,270	863	552	e900	e353	e88	64	44
19	65	118	e130	e114	7,450	651	933	e1,220	e283	e85	60	96
20	66	135	e123	e141	3,230	537	7,540	827	e3,090	e85	60	83
21	62	113	e115	e125	e2,400	488	7,150	616	e2,590	e83	58	81
22	61	115	e110	e111	3,970	450	3,810	526	e1,340	e74	53	62
23	62	202	e103	e105	2,690	433	2,140	461	e749	e73	51	105
24	67	228	e98	e102	1,410	476	e1,890	470	569	e338	54	73
25	69	1,780	e96	e99	1,890	507	e3,300	929	e448	e192	80	73
26	88	4,210	e94	e99	1,720	439	6,290	e2,930	e363	e142	53	260
27	88	2,190	e83	e97	1,280	385	5,930	e4,320	e321	e121	50	180
28	78	858	e78	e97	10,700	343	e7,310	3,980	e274	120	48	171
29	84	501	e75	e96	---	e321	6,290	3,440	e246	94	43	141
30	82	496	e86	e97	---	e307	2,280	1,650	e226	82	40	134
31	78	---	314	e92	---	300	---	951	---	72	40	---
Total	1,790	12,307	7,342	10,048	51,561	86,897	74,329	50,031	18,375	4,040	2,211	2,325
Mean	57.7	410	237	324	1,841	2,803	2,478	1,614	612	130	71.3	77.5
Max	88	4,210	1,180	2,460	10,700	17,700	7,540	4,890	3,090	338	168	260
Min	36	64	75	92	72	300	280	461	226	72	40	38
Cfsm	0.08	0.60	0.35	0.48	2.70	4.11	3.63	2.37	0.90	0.19	0.10	0.11
In.	0.10	0.67	0.40	0.55	2.81	4.74	4.05	2.73	1.00	0.22	0.12	0.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	203	412	725	951	970	1,300	1,137	755	646	409	203	234
Max	2,259	2,626	2,947	5,129	2,707	3,552	3,699	3,776	4,765	3,308	1,522	4,223
(WY)	(2002)	(1993)	(1991)	(1930)	(1990)	(2007)	(1964)	(1933)	(1958)	(2003)	(1998)	(1926)
Min	22.8	28.0	36.9	36.1	52.5	65.3	123	40.5	49.3	32.6	25.4	24.1
(WY)	(1929)	(1929)	(1964)	(1945)	(1964)	(1941)	(1941)	(1941)	(1988)	(1936)	(1940)	(1940)

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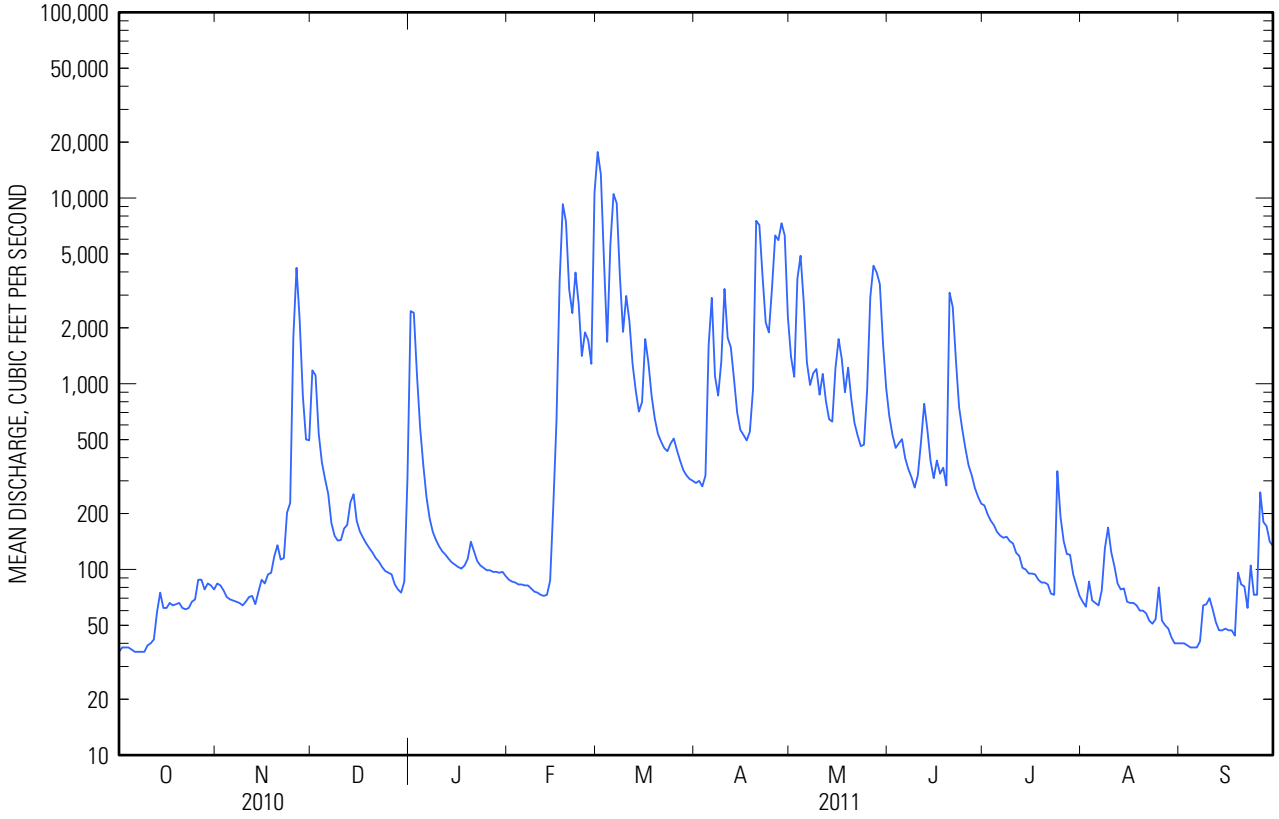
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1924 - 2011	
Annual total	233,324		321,256			
Annual mean	639		880		654	
Highest annual mean					1,167	1927
Lowest annual mean					106	1941
Highest daily mean	10,300	Mar 14	17,700	Mar 1	23,400	Jun 11, 1958
Lowest daily mean	33	Sep 8	36	Oct 1	3.4	Oct 25, 1968
Annual seven-day minimum	35	Sep 4	37	Oct 3	8.4	Oct 17, 1940
Maximum peak flow			18,700	Mar 1	25,000	Mar 21, 1927
Maximum peak stage			14.63	Mar 1	17.40	Mar 21, 1927
Instantaneous low flow					33	Sep 7, 2010
Annual runoff (cfsm)	0.937		1.29		0.959	
Annual runoff (inches)	12.73		17.52		13.03	
10 percent exceeds	1,620		2,430		1,540	
50 percent exceeds	217		144		207	
90 percent exceeds	40		59		49