Water-Data Report 2012

03263000 GREAT MIAMI RIVER AT TAYLORSVILLE OH

Great Miami Basin
Upper Great Miami Subbasin

LOCATION.--Lat 39°52′22″, long 84°09′51″ referenced to North American Datum of 1927, Montgomery County, OH, Hydrologic Unit 05080001, on right upstream face of Taylorsville Dam, 0.8 mi north of Taylorsville, 2.1 mi east of Vandalia, 9.5 mi upstream from Stillwater River, and at mile 90.9.

DRAINAGE AREA.--1,149 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1914 to September 1917 (published as Miami River at Tadmor), October 1921 to current year. Monthly discharge only for some periods, published in WSP 1305. Gage-height records collected at site at Tadmor, January 1914 to July 1920, are contained in reports of the National Weather Service.

REVISED RECORDS.--WSP 743: 1924(M). WSP 853: 1930, 1937. WSP 923: 1922-24. WSP 1385: 1916. WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 760.11 ft NGVD 1912 (levels by Miami Conservancy District). Prior to October 1921, nonrecording gage at site 1.7 mi upstream at different datum; Jan. 1, 1922-Nov. 11, 1925, nonrecording gage at site 50 ft downstream at outlet works of Taylorsville Dam at datum 60.03 ft lower; Oct. 1921-Sept. 1978 at site 650 ft downstream at datum 60.03 ft lower.

COOPERATION.--Base data furnished by Miami Conservancy District.

REMARKS.--Records fair except for periods of estimated record, which are poor. Flood flow regulated by retarding basins on Great Miami River just downstream from station and on Loramie Creek 28 mi upstream from station beginning in 1921. Low and medium flow slightly regulated by Indian Lake, 64 mi upstream from station, and by Lake Loramie 47 mi upstream from station on Loramie Creek; combined capacity, 58,900 acre-ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in Mar. 1913, reached a stage of 25.4 ft at site at Tadmor; discharge, 127,000 ft^3/s computed by Miami Conservancy District.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 03263000, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/03263000.2012.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2,160	918	12,100	2,130	2,470	1,830	564	519	325	177	119	88
2	1,770	783	8,690	1,740	2,020	1,730	551	1,230	533	284	109	96
3	1,380	688	5,140	1,470	1,690	5,040	512	1,740	750	263	103	92
4	1,080	680	3,780	1,280	1,430	3,950	475	1,540	506	176	109	92
5	786	658	7,680	1,130	1,500	2,570	434	3,110	382	141	259	111
6	603	631	16,700	1,070	1,710	1,850	481	1,950	311	126	1,010	98
7	499	535	15,100	1,030	1,430	1,430	467	1,290	269	123	661	120
8	419	495	9,300	967	1,240	1,250	455	3,670	244	118	374	606
9	373	486	4,900	901	1,120	1,240	390	4,080	220	107	223	977
10	351	496	3,310	871	991	1,140	412	2,630	203	104	188	599
11	321	495	2,400	870	928	986	389	1,710	212	101	188	325
12	288	500	1,840	972	899	854	393	1,220	212	98	213	213
13	273	475	1,550	1,110	795	845	365	882	202	96	172	172
14	272	855	1,590	977	749	792	366	696	191	96	155	144
15	257	6,250	6,400	e790	738	763	424	615	187	97	137	130
16	255	7,450	9,030	e745	757	739	401	551	172	110	123	119
17	255	5,930	5,090	2,440	1,290	758	378	492	186	99	113	113
18	245	3,640	3,110	5,640	1,320	697	337	463	451	110	109	127
19	443	2,420	2,270	3,230	1,060	657	319	407	287	242	106	141
20	4,260	1,760	2,330	1,980	920	893	311	369	243	172	100	82
21	6,620	1,420	7,520	1,490	838	770	329	340	186	171	103	93
22	5,200	2,160	9,350	1,270	770	662	339	323	162	174	116	375
23	3,710	6,090	6,000	4,560	753	708	368	321	149	145	111	400
24	2,610	4,630	3,770	8,570	758	1,170	346	328	142	165	108	374
25	2,150	2,670	2,620	5,190	780	1,400	383	282	136	308	100	255
26	1,760	1,840	2,010	4,820	749	1,160	356	259	131	268	100	198
27	1,810	1,550	2,050	12,000	646	926	360	241	125	334	94	244
28	1,910	5,340	3,950	13,100	578	763	458	238	123	315	95	742
29	1,710	e10,400	2,990	7,900	801	633	437	251	123	186	88	956
30	1,350	13,100	2,210	4,540	---	632	344	290	148	143	86	596
31	1,100	---	2,190	3,210	---	609	---	281	---	129	84	---
Total	46,220	85,345	166,970	97,993	31,730	39,447	12,144	32,318	7,511	5,178	5,656	8,678
Mean	1,491	2,845	5,386	3,161	1,094	1,272	405	1,043	250	167	182	289
Max	6,620	13,100	16,700	13,100	2,470	5,040	564	4,080	750	334	1,010	977
Min	245	475	1,550	745	578	609	311	238	123	96	84	82
Cfsm	1.30	2.48	4.69	2.75	0.95	1.11	0.35	0.91	0.22	0.15	0.16	0.25
In.	1.50	2.76	5.41	3.17	1.03	1.28	0.39	1.05	0.24	0.17	0.18	0.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	358	651	1,130	1,626	1,595	2,070	1,836	1,232	1,021	667	376	298
Max	3,089	4,228	5,386	9,049	4,473	6,344	5,525	4,603	5,567	4,951	2,786	3,608
(WY)	(1927)	(1973)	(2012)	(2005)	(1950)	(2007)	(1922)	(1996)	(1958)	(2003)	(1995)	(1926)
Min	45.8	63.9	65.3	46.8	94.4	205	361	137	91.2	70.8	68.3	46.5
(WY)	(1964)	(1935)	(1977)	(1977)	(1964)	(1941)	(1971)	(1941)	(1988)	(1936)	(1965)	(1963)

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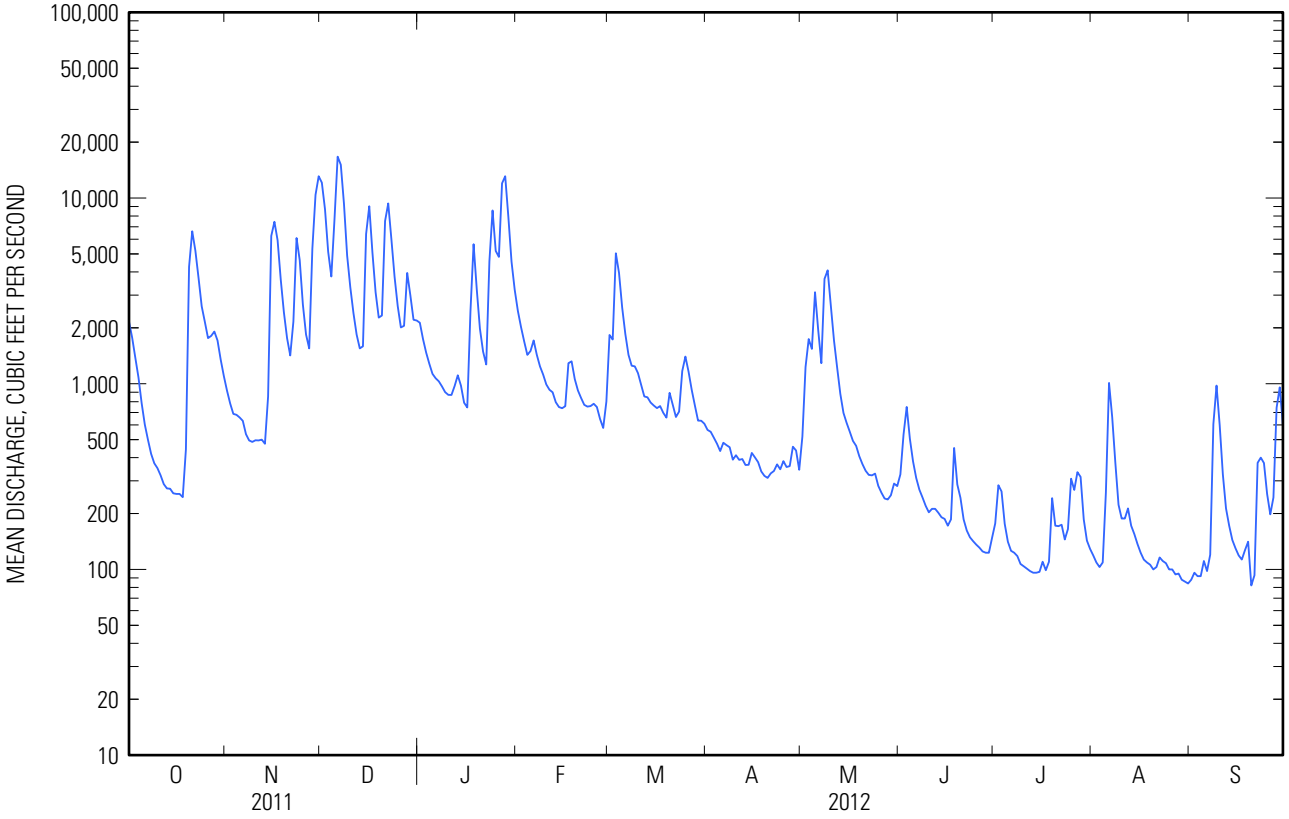
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1922 - 2012	
Annual total	919,723		539,190			
Annual mean	2,520		1,473		1,069	
Highest annual mean					2,005	1973
Lowest annual mean					292	1931
Highest daily mean	20,000	Mar 6	16,700	Dec 6	30,200	Jan 22, 1959
Lowest daily mean	119	Sep 3	82	Sep 20	25	Jul 18, 1977
Annual seven-day minimum	135	Aug 28	89	Aug 29	31	Feb 4, 1977
Maximum peak flow			18,000	Dec 6	31,400	Jan 22, 1959
Maximum peak stage			21.52	Dec 6	75.44	Jan 22, 1959
Instantaneous low flow			70	Sep 20	25	Jul 18, 1977
Annual runoff (cfsm)	2.19		1.28		0.930	
Annual runoff (inches)	29.78		17.46		12.64	
10 percent exceeds	7,440		3,990		2,570	
50 percent exceeds	1,030		601		418	
90 percent exceeds	195		115		100