Water-Data Report 2012

03274000 GREAT MIAMI RIVER AT HAMILTON OH

Great Miami Basin
Lower Great Miami Subbasin

LOCATION.--Lat 39°23′28″, long 84°34′20″ referenced to North American Datum of 1927, Butler County, OH, Hydrologic Unit 05080002, on right bank 1,000 ft downstream from Columbia Bridge at Hamilton, Ohio, 3 mi downstream from Four Mile Creek, 4.3 mi upstream from Pleasant Run, and at mile 34.8.

DRAINAGE AREA.--3,630 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1907 to June 1909 (fragmentary), January 1910 to September 1918, April 1927 to current year. Monthly discharge only for some periods, published in WSP 1305. Gage-height records collected at site 0.7 mi upstream since 1911 are contained in reports of National Weather Service. Prior to October 1962 published as Miami River at Hamilton.

REVISED RECORDS.--WSP 803: 1936. WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 499.98 ft, COE of 1912. Prior to Apr. 12, 1927, nonrecording gage at site 0.7 mi upstream at datum 64.65 ft higher.

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

REMARKS.--Records fair except for estimated periods, which are poor. Some regulation and diversion at low flow by industrial plants upstream from station. Flood flow regulated by five retarding basins upstream from station beginning in 1920 (see REMARKS for station numbers 03271500 and 03272000). The Miami and Erie Canal diverted water from the basin 1.7 mi upstream from station until Nov. 1, 1930, when the canal was abandoned; amount of diversion not known. Water-temperature data formerly collected at this site.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 26, 1913, reached a stage of 38.5 ft, site and datum then in use; discharge, 352,000 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 03274000, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/03274000.2012.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	4,060	2,330	26,700	7,960	8,800	4,010	2,790	4,260	2,960	969	687	491
2	3,450	2,090	21,900	6,930	7,500	4,880	2,860	12,900	2,390	e1,050	673	695
3	2,830	2,030	16,100	5,880	6,420	7,060	2,520	7,520	1,870	e1,110	658	1,070
4	2,290	3,640	11,100	5,130	5,820	10,500	2,360	5,520	1,910	1,040	628	945
5	1,900	2,460	31,800	4,670	5,670	7,060	2,270	9,020	1,650	946	802	670
6	1,660	2,200	46,800	4,350	5,570	5,300	2,110	8,180	1,390	851	942	619
7	1,470	2,030	38,400	4,160	5,340	4,310	2,060	5,140	1,300	807	1,310	604
8	1,350	1,820	26,100	3,900	4,870	4,910	1,990	7,950	1,270	780	1,190	1,820
9	1,240	1,740	17,900	3,640	4,520	6,280	1,870	12,100	1,200	756	1,340	1,940
10	1,280	1,780	12,400	3,460	4,240	4,990	1,820	8,260	1,140	739	1,040	2,210
11	1,250	1,680	9,120	3,650	4,020	4,320	1,790	5,730	1,150	727	857	1,370
12	1,120	1,620	7,700	4,720	3,720	3,950	1,750	4,310	1,230	681	783	1,010
13	1,110	1,610	6,450	4,740	3,560	3,910	1,740	3,540	1,180	659	766	831
14	1,090	2,200	5,850	4,150	3,400	3,610	2,280	3,290	1,140	651	739	740
15	1,070	12,400	11,900	3,540	3,410	3,390	3,970	2,770	1,100	648	687	681
16	1,040	14,600	21,300	3,260	3,520	3,310	2,690	2,510	1,070	694	661	647
17	1,020	11,400	16,900	12,500	3,710	3,150	2,260	2,260	1,190	748	649	671
18	976	8,170	11,500	20,900	4,410	3,050	2,010	2,130	1,520	726	620	655
19	1,590	5,810	8,110	13,600	3,990	2,910	1,870	2,040	2,130	720	599	673
20	8,910	4,740	6,990	8,550	3,580	2,800	1,800	1,850	1,460	786	589	626
21	13,700	5,090	21,000	6,340	3,400	2,820	1,990	1,730	1,280	831	583	595
22	10,600	9,090	25,700	5,160	3,320	2,570	1,870	1,710	1,100	757	573	1,180
23	7,700	17,100	21,200	12,500	3,200	2,760	1,720	1,570	1,020	781	572	1,390
24	5,660	14,400	14,400	20,800	3,100	6,190	1,690	1,530	946	883	567	1,190
25	4,380	9,330	9,940	16,500	2,980	5,920	1,590	1,500	948	1,150	550	1,110
26	3,700	6,490	8,040	23,100	2,870	5,160	2,600	1,410	920	987	534	929
27	3,710	5,740	8,770	40,400	2,740	4,000	1,930	1,370	915	1,160	528	892
28	3,570	18,500	12,000	32,700	2,600	3,430	1,800	1,320	947	987	542	854
29	3,550	30,800	11,100	22,900	2,880	3,040	2,090	1,350	e918	944	531	1,590
30	3,080	31,900	8,550	15,100	---	2,800	2,050	1,390	e973	791	502	1,790
31	2,650	---	8,210	10,500	---	3,080	---	1,340	---	748	460	---
Total	103,006	234,790	503,930	335,690	123,160	135,470	64,140	127,500	40,217	26,107	22,162	30,488
Mean	3,323	7,826	16,260	10,830	4,247	4,370	2,138	4,113	1,341	842	715	1,016
Max	13,700	31,900	46,800	40,400	8,800	10,500	3,970	12,900	2,960	1,160	1,340	2,210
Min	976	1,610	5,850	3,260	2,600	2,570	1,590	1,320	915	648	460	491
Cfsm	0.92	2.16	4.48	2.98	1.17	1.20	0.59	1.13	0.37	0.23	0.20	0.28
In.	1.06	2.41	5.16	3.44	1.26	1.39	0.66	1.31	0.41	0.27	0.23	0.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,222	2,075	3,617	5,280	5,236	6,471	5,958	4,515	3,404	2,255	1,381	1,070
Max	6,728	10,060	16,260	29,460	14,410	20,800	18,820	17,390	14,860	10,100	7,613	6,861
(WY)	(1987)	(1973)	(2012)	(1937)	(1950)	(2008)	(2011)	(1996)	(1958)	(2003)	(1979)	(2003)
Min	279	286	323	434	502	826	1,219	602	445	335	391	319
(WY)	(1964)	(1935)	(1935)	(1977)	(1964)	(1941)	(1941)	(1934)	(1934)	(1936)	(1936)	(1963)

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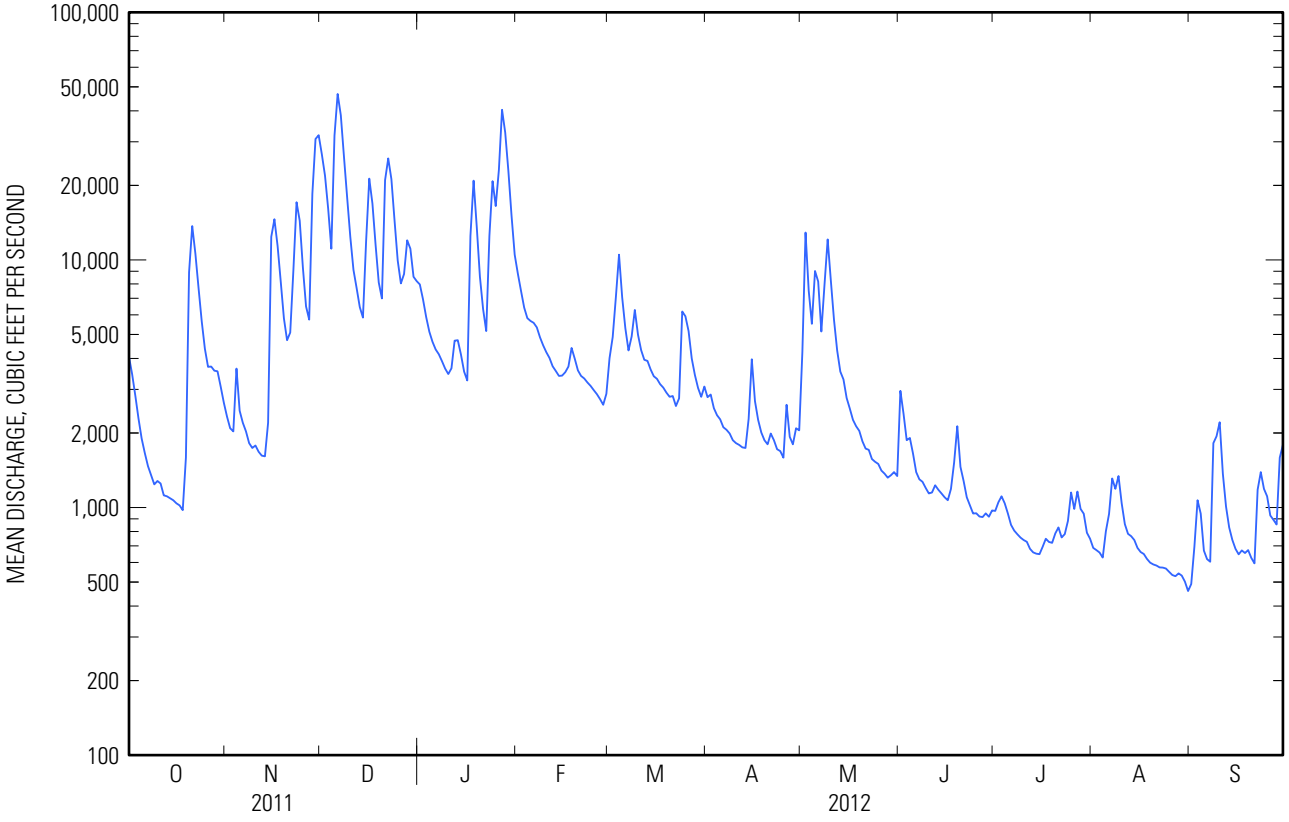
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1927 - 2012	
Annual total	2,898,877		1,746,660			
Annual mean	7,942		4,772		3,530	
Highest annual mean					6,347	2008
Lowest annual mean					931	1954
Highest daily mean	50,900	Apr 20	46,800	Dec 6	73,900	Jan 22, 1959
Lowest daily mean	647	Sep 3	460	Aug 31	155	Sep 27, 1941
Annual seven-day minimum	710	Aug 28	513	Aug 26	201	Sep 26, 1941
Maximum peak flow			56,500	Dec 6	108,000	Jan 21, 1959
Maximum peak stage			73.24	Dec 6	79.47	Jan 21, 1959
Instantaneous low flow			440	Aug 31	155	Sep 27, 1941
Annual runoff (cfsm)	2.19		1.31		0.97	
Annual runoff (inches)	29.71		17.90		13.21	
10 percent exceeds	23,800		12,000		8,150	
50 percent exceeds	3,570		2,280		1,720	
90 percent exceeds	1,020		692		523