Water-Data Report 2012

03270500 GREAT MIAMI RIVER AT DAYTON OH

Great Miami Basin
Lower Great Miami Subbasin

LOCATION.--Lat 39°45′55″, long 84°11′51″ referenced to North American Datum of 1927, Montgomery County, OH, Hydrologic Unit 05080002, on left bank 1,000 ft downstream from Main Street bridge in Dayton, 0.7 mi upstream from Wolf Creek, 0.8 mi downstream from Mad River, at river mile 80.

DRAINAGE AREA.--2,511 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April to September 1905, January to September 1906, January 1907 to December 1909 (gage heights only), April 1913 to current year. Monthly discharge only for October 1919 to September 1921, published in WSP 1305. Gage-height records collected at Main Street bridge since January 1892 are contained in reports of National Weather Service. Prior to October 1962, published as Miami River at Dayton.

REVISED RECORDS.--WSP 1385: 1917. WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 700 ft, National Geodetic Vertical Datum of 1912 (as requested by cooperator, 699.71 ft adjustment of 1929). Prior to Oct. 1, 1921, nonrecording gage at Main Street bridge at datum 23.73 ft higher; Oct. 1, 1921-July 24, 1931, nonrecording gage at Main Street bridge at datum 21.00 ft higher.

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

REMARKS.--Records good. Flood flow regulated by four retarding basins upstream from station beginning in 1920 on Mad River 6.4 mi upstream, on Stillwater River 10.5 mi upstream, on Great Miami River 11.5 mi upstream, and on Loramie Creek 40 mi upstream. Also see REMARKS for stations 03261500, 03262000, and 03269500. Much of the flow is diverted to the Little Miami River Basin through the Dayton waste water treatment system. Sediment data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 60,900 ft^3/s, Jan. 22, 1959, gage height, 36 ft, Jan. 22, 1959; minimum discharge, 109 ft^3/s, Aug. 8, 1934.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 26, 1913, reached a stage of 29.0 ft, site and datum then in use; discharge, 250,000 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 03270500, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/03270500.2012.pdf

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3,570	1,710	21,500	5,200	5,680	3,460	1,660	1,320	1,370	594	410	265
2	2,890	1,560	17,300	4,410	4,680	3,620	1,540	3,290	1,320	827	402	511
3	2,260	1,440	11,600	3,780	4,040	8,480	1,420	4,080	1,470	736	381	295
4	1,750	1,440	7,310	3,310	3,590	7,840	1,390	3,080	1,270	607	533	259
5	1,460	1,420	14,900	3,010	3,540	4,950	1,290	6,550	1,030	514	639	275
6	1,250	1,450	30,100	2,860	3,770	3,710	1,270	4,210	913	498	1,160	268
7	1,110	1,270	27,400	2,750	3,410	2,970	1,250	2,870	852	461	1,000	284
8	973	1,170	19,300	2,550	3,100	2,960	1,210	6,220	801	441	670	1,180
9	1,040	1,180	12,700	2,380	2,910	3,260	1,120	8,350	753	443	568	2,220
10	1,010	1,150	7,970	2,290	2,670	3,020	1,090	5,200	707	430	476	1,290
11	857	1,130	5,990	2,370	2,520	2,650	1,070	3,580	745	382	443	747
12	808	1,170	4,860	2,700	2,360	2,380	1,060	2,620	779	363	455	536
13	791	1,150	4,200	2,830	2,220	2,380	1,030	2,140	736	344	414	445
14	810	2,050	3,910	2,510	2,150	2,210	1,260	1,860	677	345	363	386
15	766	9,390	11,300	2,120	2,140	2,090	1,330	1,690	633	347	345	389
16	744	11,100	16,900	2,100	2,210	2,000	1,150	1,550	640	427	311	414
17	706	8,520	12,500	6,010	2,860	1,990	1,050	1,420	697	370	297	374
18	660	5,630	7,410	13,000	3,080	1,900	982	1,360	1,860	363	279	409
19	1,300	4,100	5,270	8,260	2,610	1,830	945	1,240	1,110	461	273	359
20	7,130	3,200	4,840	4,910	2,340	1,970	948	1,160	827	552	265	326
21	11,000	2,750	14,200	3,810	2,220	1,800	1,040	1,100	674	467	254	319
22	8,140	4,320	18,700	3,220	2,140	1,640	956	1,050	598	498	266	1,340
23	5,840	12,200	14,300	8,340	2,060	1,860	926	1,040	565	469	265	970
24	4,360	10,000	9,070	16,000	2,020	3,080	849	1,050	537	576	250	970
25	3,510	5,790	6,260	11,500	1,980	3,950	910	1,030	502	615	234	664
26	2,940	4,190	5,050	10,900	1,920	3,120	937	987	483	763	225	566
27	3,010	3,660	5,110	23,000	1,770	2,460	965	947	475	699	223	562
28	3,000	10,700	8,810	22,900	1,640	2,080	1,020	913	466	678	217	1,210
29	2,870	19,600	7,110	16,400	2,280	1,800	1,040	952	491	524	208	1,890
30	2,370	23,100	5,380	9,740	---	1,850	919	935	517	437	215	1,350
31	2,000	---	5,440	6,850	---	1,870	---	907	---	392	219	---
Total	80,925	157,540	346,690	212,010	79,910	91,180	33,627	74,701	24,498	15,623	12,260	21,073
Mean	2,610	5,251	11,180	6,839	2,756	2,941	1,121	2,410	817	504	395	702
Max	11,000	23,100	30,100	23,000	5,680	8,480	1,660	8,350	1,860	827	1,160	2,220
Min	660	1,130	3,910	2,100	1,640	1,640	849	907	466	344	208	259

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,162	1,810	3,054	3,575	3,644	4,711	4,061	3,350	2,757	1,991	1,081	937
Max	5,792	6,233	11,180	17,140	8,926	12,890	11,000	11,030	7,357	8,483	5,727	5,692
(WY)	(1987)	(1994)	(2012)	(2005)	(1975)	(2007)	(2011)	(1996)	(1981)	(2003)	(1979)	(2003)
Min	232	236	296	270	636	890	1,069	583	259	299	196	175
(WY)	(2000)	(2000)	(1977)	(1977)	(1992)	(1992)	(1976)	(1988)	(1988)	(1977)	(1988)	(1999)

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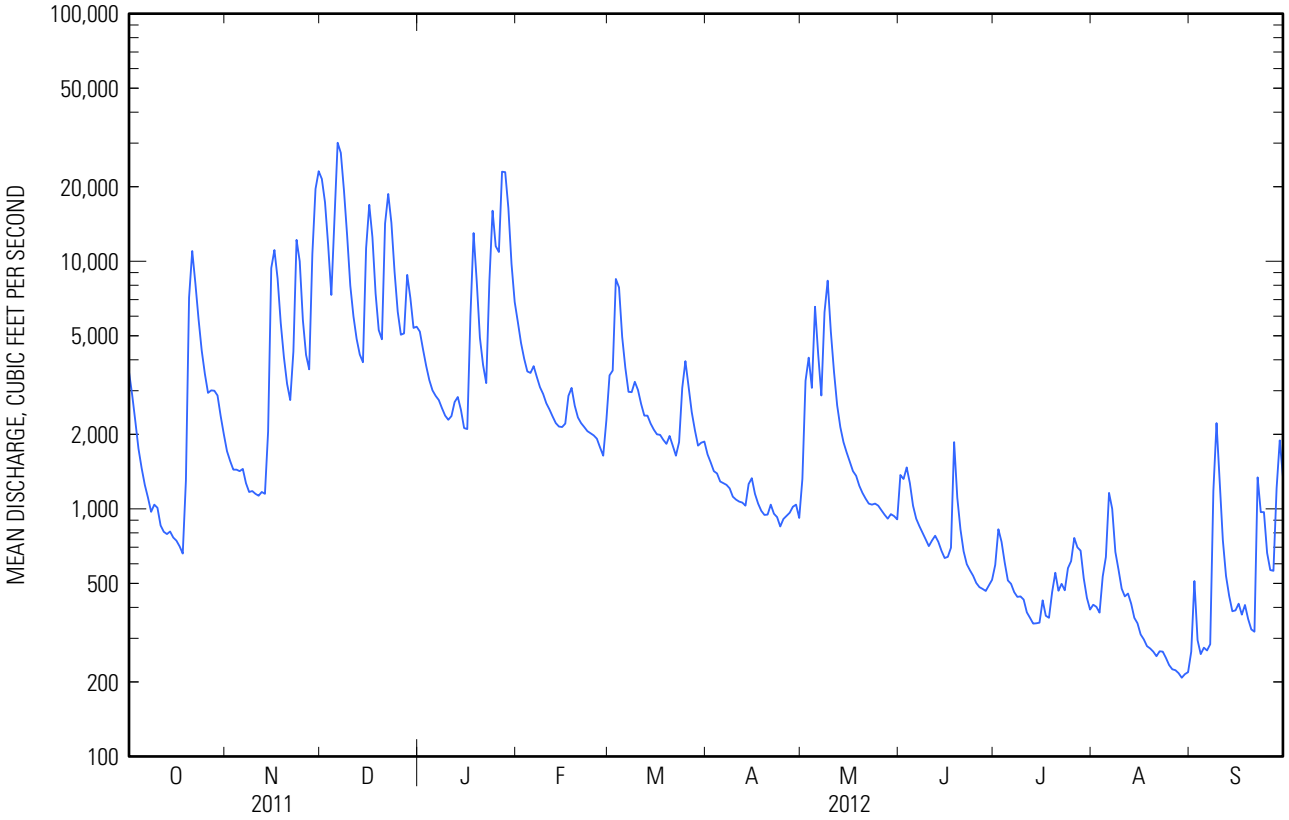
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1974 - 2012	
Annual total	1,961,798		1,150,037			
Annual mean	5,375		3,142		2,674	
Highest annual mean					4,226	2008
Lowest annual mean					881	1977
Highest daily mean	32,400	Mar 6	30,100	Dec 6	42,000	Jan 6, 2005
Lowest daily mean	384	Sep 3	208	Aug 29	111	Jul 17, 1988
Annual seven-day minimum	444	Aug 28	220	Aug 25	125	Jul 11, 1988
Maximum peak flow			33,400	Dec 6	45,800	Jan 7, 2005
Maximum peak stage			32.07	Dec 6	34.33	Jan 7, 2005
Instantaneous low flow			176	Aug 29	111	Jul 17, 1988
10 percent exceeds	14,500		8,280		6,290	
50 percent exceeds	2,750		1,420		1,360	
90 percent exceeds	575		385		403