Water-Data Report 2013

03262700 GREAT MIAMI RIVER AT TROY OH

Great Miami Basin
Upper Great Miami Subbasin

LOCATION.--Lat 40°02′25″, long 84°11′52″ referenced to North American Datum of 1927, Miami County, OH, Hydrologic Unit 05080001, 400 ft downstream from B & O Railroad bridge, 1,300 ft downstream from bridge on State Highway 55 at Troy, 1.2 mi upstream from small left bank tributary, 2.3 mi downstream from Spring Creek, and at mile 105.

DRAINAGE AREA.--926 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Water years 1961, 1962 (occasional low-flow measurements, published as Miami River at Troy). October 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 810.67 ft NGVD 1929.

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

REMARKS.--Records fair except for estimated records, which are poor. Flood flow regulated by retarding basin on Loramie Creek, 18 mi upstream. Low and medium flow slightly regulated by Indian Lake; capacity, 45,900 acre-ft, 54 mi upstream. Water supply for City of Troy averaged 6.17 ft^3/s in 2013 and is returned as treated waste water 1 mi downstream from the station. Water-quality and sediment data formerly collected at this site.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 11, 1958, reached a stage of 16.4 ft; discharge, 21,000 ft^3/s.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 03262700, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/03262700.2013.pdf

03262700 GREAT MIAMI RIVER AT TROY OH—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

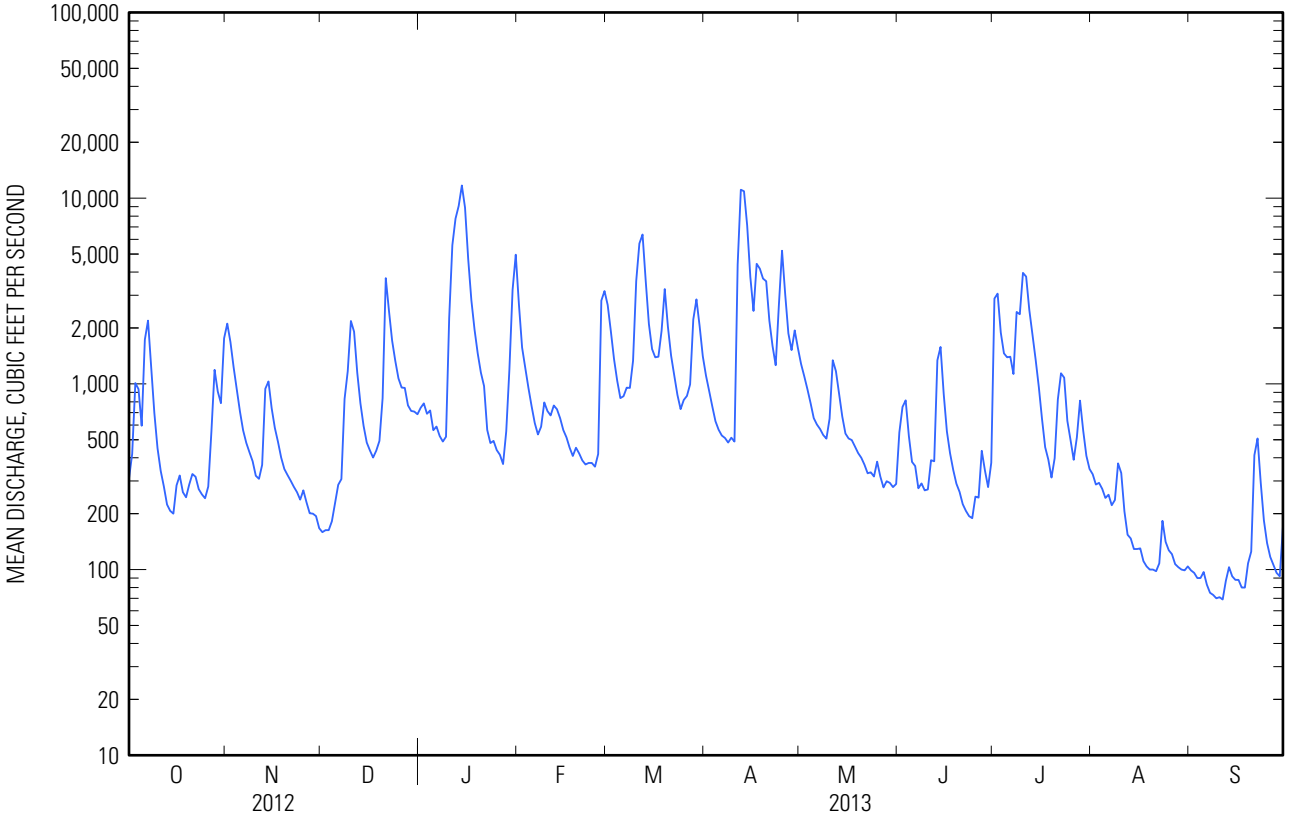
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	309	2,110	159	743	2,680	2,660	1,110	1,280	547	2,880	326	99
2	419	1,680	163	785	1,570	1,920	917	1,100	751	3,060	e287	96
3	1,010	1,230	163	690	1,220	1,360	756	937	815	1,890	e293	90
4	937	933	182	719	951	1,040	629	788	525	1,460	e272	90
5	595	710	228	563	758	838	566	654	380	1,390	e243	97
6	1,730	562	286	589	615	858	527	604	361	1,400	e253	83
7	2,190	481	307	524	534	954	511	571	274	1,130	e222	75
8	1,230	428	829	489	588	951	483	530	291	2,440	e237	73
9	696	383	1,170	519	794	1,330	513	507	267	2,370	e373	70
10	450	320	2,180	2,260	714	3,580	489	650	270	3,960	331	71
11	340	308	1,910	5,580	676	5,700	4,390	1,340	388	3,780	206	69
12	280	366	1,150	7,760	765	6,370	11,100	1,170	383	2,500	154	87
13	224	941	786	9,080	730	3,580	10,900	883	1,340	1,840	147	103
14	207	1,030	594	11,700	653	2,100	7,130	667	1,580	1,350	129	92
15	200	740	483	8,890	564	1,540	3,760	540	882	e962	129	88
16	284	580	438	4,700	515	1,390	2,470	508	555	e649	130	88
17	321	487	401	2,820	453	1,400	4,430	498	423	456	111	80
18	261	401	437	1,960	409	1,930	4,170	460	344	391	104	80
19	245	348	493	1,460	453	3,240	3,690	424	290	313	100	108
20	287	323	837	1,150	422	2,030	3,570	400	262	398	100	125
21	327	301	3,710	973	387	1,420	2,190	367	225	824	98	413
22	316	279	2,480	e565	368	1,110	1,600	330	207	1,140	108	508
23	271	261	1,710	e480	375	872	1,260	334	194	1,080	183	294
24	254	238	1,330	e493	375	731	2,650	317	189	632	141	184
25	242	267	1,070	e440	358	819	5,210	381	247	499	127	139
26	280	230	955	e415	419	861	3,030	317	244	390	121	117
27	555	201	951	e370	2,810	994	1,870	277	436	515	107	106
28	1,190	200	766	e555	3,160	2,220	1,520	299	342	812	103	96
29	910	194	715	1,200	---	2,850	1,940	293	278	560	100	92
30	787	167	709	3,210	---	2,050	1,560	278	376	410	99	169
31	1,760	---	686	4,960	---	1,410	---	289	---	348	104	---
Total	19,107	16,699	28,278	76,642	24,316	60,108	84,941	17,993	13,666	41,829	5,438	3,882
Mean	616	557	912	2,472	868	1,939	2,831	580	456	1,349	175	129
Max	2,190	2,110	3,710	11,700	3,160	6,370	11,100	1,340	1,580	3,960	373	508
Min	200	167	159	370	358	731	483	277	189	313	98	69

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	338	656	1,112	1,152	1,255	1,780	1,552	1,053	838	654	328	236
Max	2,268	3,824	4,258	6,280	3,403	4,857	4,193	3,709	2,858	4,440	2,246	1,694
(WY)	(1987)	(1973)	(2012)	(2005)	(1975)	(2011)	(2011)	(2011)	(1981)	(2003)	(1995)	(2003)
Min	24.9	49.4	49.2	34.6	58.7	308	270	140	65.9	65.2	41.0	24.1
(WY)	(1964)	(1964)	(1977)	(1977)	(1964)	(1981)	(1971)	(1988)	(1988)	(1965)	(1965)	(1963)

03262700 GREAT MIAMI RIVER AT TROY OH—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1963 - 2013	
Annual total	259,259		392,899			
Annual mean	708		1,076		911	
Highest annual mean					1,662	1973
Lowest annual mean					300	1988
Highest daily mean	10,500	Jan 27	11,700	Jan 14	18,900	Aug 9, 1995
Lowest daily mean	56	Aug 31	69	Sep 11	4.3	Jul 17, 1977
Annual seven-day minimum	61	Jul 9	75	Sep 6	19	Oct 6, 1963
Maximum peak flow			12,300	Jan 14[a]	21,700	Aug 8, 1995
Maximum peak stage			12.15	Apr 12	16.08	Jul 9, 2003
Instantaneous low flow			65	Sep 9	4.3	Jul 17, 1977
10 percent exceeds	1,470		2,560		2,320	
50 percent exceeds	348		524		338	
90 percent exceeds	89		126		77	

[a] Also Apr 12.