Water-Data Report 2012

03271601 GREAT MIAMI RIVER BELOW MIAMISBURG OH

Great Miami Basin
Lower Great Miami Subbasin

LOCATION.--Lat 39°36′24″, long 84°17′13″ referenced to North American Datum of 1927, Montgomery County, OH, Hydrologic Unit 05080002, on right bank 50 ft below outflow and dam of Hutchings Power station, 0.3 mi upstream of Crains Run at south edge of Miamisburg corporate boundary, and at mile 63.4.

DRAINAGE AREA.--2,715 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1991 to current year.

REVISED RECORDS.--WDR OH-04-1: 2003.

GAGE.--Water-stage recorder. Datum of gage is 670.00 ft NGVD 1929.

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

REMARKS.--Records fair. Diurnal fluctuation caused by powerplant at gage. Flood flow regulated by retarding dams on Mad River 22 mi upstream, Stillwater River 26 mi upstream, Great Miami River 26 mi upstream, and Loramie Creek 55 mi upstream.

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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	3,860	2,140	22,300	5,610	6,210	3,440	2,050	2,020	1,860	695	507	348
2	3,200	1,940	18,200	4,890	5,220	3,920	1,920	4,490	1,590	802	472	781
3	2,620	1,820	12,400	4,230	4,550	7,400	1,790	4,750	1,570	876	431	627
4	2,130	1,960	7,950	3,750	4,090	8,360	1,740	3,730	1,520	839	460	456
5	1,820	1,780	18,300	3,420	3,940	5,430	1,670	7,250	1,250	664	808	382
6	1,620	1,810	32,500	3,210	4,130	4,190	1,630	5,280	1,110	635	1,050	384
7	1,440	1,680	31,200	3,110	3,850	3,480	1,610	3,580	1,030	621	1,180	368
8	1,320	1,540	21,700	2,940	3,510	3,740	1,580	5,900	974	578	925	1,470
9	1,290	1,530	13,700	2,750	3,280	3,920	1,510	8,990	922	551	897	2,050
10	1,310	1,540	8,760	2,660	3,050	3,560	1,440	5,880	881	544	728	1,610
11	1,220	1,460	6,420	2,740	2,900	3,190	1,450	4,140	901	475	620	956
12	1,100	1,480	5,340	3,170	2,710	2,930	1,430	3,090	978	444	602	677
13	1,100	1,490	4,540	3,240	2,600	2,910	1,410	2,540	888	428	599	558
14	1,090	2,500	4,210	2,960	2,490	2,710	1,750	2,240	860	457	540	486
15	1,050	8,120	10,500	2,550	2,490	2,580	2,210	2,020	816	460	508	438
16	1,020	10,900	17,800	2,440	2,550	2,490	1,680	1,870	824	519	486	476
17	1,000	8,590	13,400	7,110	2,940	2,470	1,530	1,730	860	479	463	464
18	950	6,100	8,200	13,700	3,430	2,360	1,440	1,620	1,830	418	435	452
19	1,590	4,560	5,750	9,190	2,950	2,270	1,380	1,520	1,460	518	426	457
20	7,320	3,710	5,090	5,560	2,670	2,330	1,370	1,410	1,020	639	416	411
21	11,100	3,340	15,500	4,330	2,550	2,250	1,530	1,350	834	648	409	364
22	8,410	5,390	20,400	3,650	2,460	2,040	1,390	1,310	790	607	405	1,540
23	6,230	11,600	15,800	8,350	2,390	2,300	1,340	1,260	734	610	429	1,000
24	4,800	10,600	10,000	16,600	2,330	3,870	1,250	1,270	695	732	422	1,090
25	3,910	6,410	6,800	12,500	2,260	4,210	1,280	1,240	651	766	402	820
26	3,330	4,720	5,550	13,500	2,220	3,620	1,430	1,190	615	844	385	679
27	3,390	4,270	5,710	26,500	2,090	2,890	1,390	1,140	599	876	386	655
28	3,280	11,400	8,760	25,900	1,940	2,530	1,450	1,100	547	863	354	802
29	3,250	20,700	7,720	18,400	2,500	2,210	1,540	1,140	580	719	293	1,930
30	2,790	24,600	5,890	10,800	---	2,140	1,390	1,110	693	615	273	1,490
31	2,420	---	5,790	7,390	---	2,420	---	1,070	---	533	320	---
Total	90,960	169,680	376,180	237,150	90,300	104,160	46,580	87,230	29,882	19,455	16,631	24,221
Mean	2,934	5,656	12,130	7,650	3,114	3,360	1,553	2,814	996	628	536	807
Max	11,100	24,600	32,500	26,500	6,210	8,360	2,210	8,990	1,860	876	1,180	2,050
Min	950	1,460	4,210	2,440	1,940	2,040	1,250	1,070	547	418	273	348
Cfsm	1.08	2.08	4.47	2.82	1.15	1.24	0.57	1.04	0.37	0.23	0.20	0.30
In.	1.25	2.32	5.15	3.25	1.24	1.43	0.64	1.20	0.41	0.27	0.23	0.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,477	2,253	3,464	4,776	3,624	5,470	4,734	4,308	3,490	2,549	1,300	1,228
Max	5,359	6,603	12,130	19,850	7,703	14,520	12,290	11,920	6,908	10,720	5,404	5,953
(WY)	(2002)	(1994)	(2012)	(2005)	(2008)	(2008)	(2011)	(1996)	(2008)	(2003)	(1995)	(2003)
Min	402	403	553	867	842	1,143	1,553	1,239	978	628	464	298
(WY)	(2000)	(2000)	(2000)	(1992)	(1992)	(1992)	(2012)	(1992)	(1999)	(2012)	(1999)	(1999)

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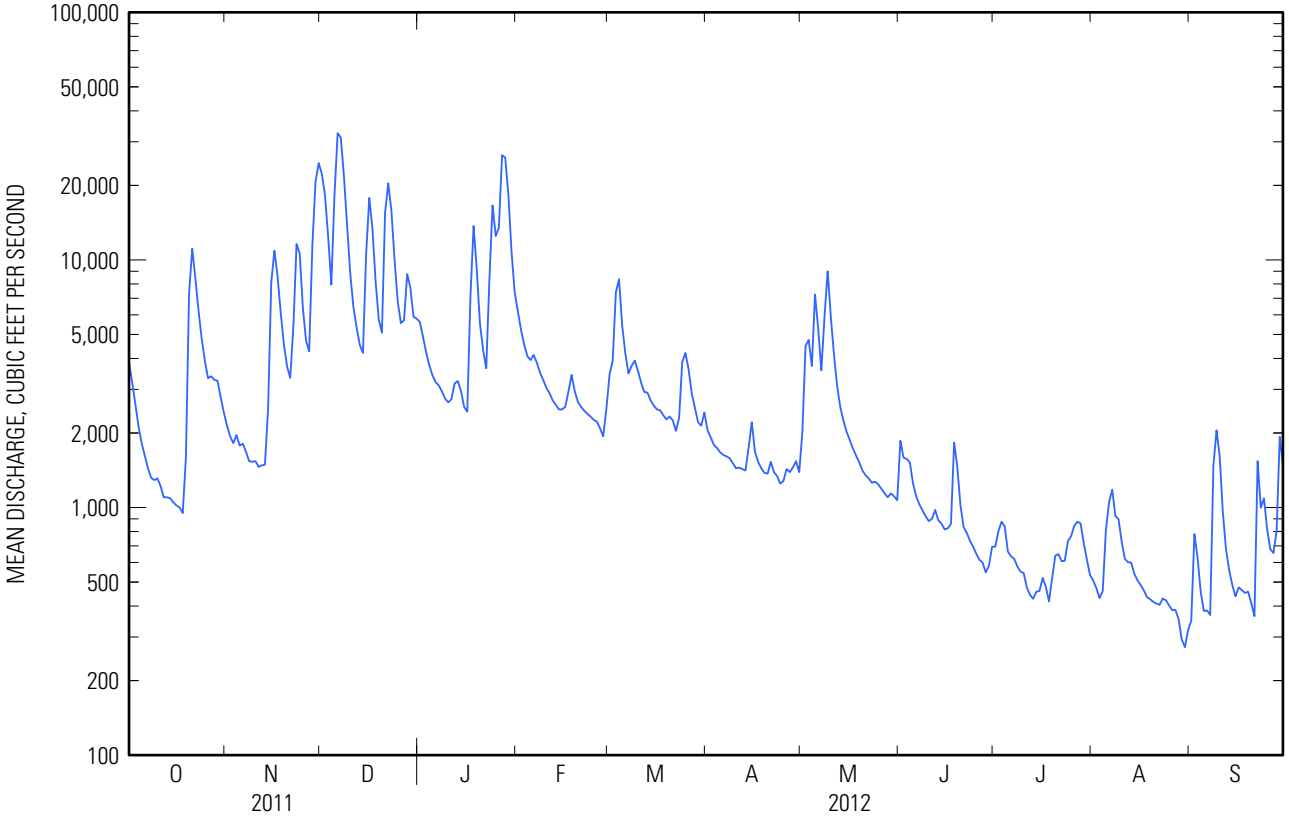
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1992 - 2012	
Annual total	2,135,244		1,292,429			
Annual mean	5,850		3,531		3,223	
Highest annual mean					4,803	2008
Lowest annual mean					1,742	2000
Highest daily mean	35,000	Mar 6	32,500	Dec 6	48,800	Jan 7, 2005
Lowest daily mean	440	Sep 3	273	Aug 30	250	Sep 27, 1999
Annual seven-day minimum	494	Aug 28	337	Aug 26	265	Sep 23, 1999
Maximum peak flow			35,400	Dec 7	50,900	Jan 7, 2005
Maximum peak stage			17.23	Dec 7	21.47	Jan 7, 2005
Instantaneous low flow			249	Aug 30	122	Aug 25, 2000
Annual runoff (cfsm)	2.15		1.30		1.19	
Annual runoff (inches)	29.26		17.71		16.13	
10 percent exceeds	16,200		8,380		7,530	
50 percent exceeds	2,950		1,820		1,660	
90 percent exceeds	710		478		569