Water-Data Report 2013

04208460 MILL CREEK AT GARFIELD HEIGHTS, OH

Southern Lake Erie Basin
Cuyahoga Subbasin

LOCATION.--Lat 41°25′26″, long 81°38′16″ referenced to North American Datum of 1927, Cuyahoga County, OH, Hydrologic Unit 04110002, on left bank 1,000 ft downstream from General Chemical Company plant railroad bridge, 0.6 mi upstream from mouth at Cuyahoga River.

DRAINAGE AREA.--17.9 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 2001 to current year.

GAGE.--Water-stage recorder. Datum of gage is 600.51 ft. NAVD 1988. Prior to October 1, 2010 elevation of gage was 600 ft above sea level (from topographic map).

REMARKS.--Records fair except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge; 4,410 ft/3 gage height; 8.01 ft, Feb. 28, 2011

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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	7.2	172	11	e21	27	25	9.6	9.7	34	16	8.8	22
2	19	51	25	e19	20	21	8.5	7.9	91	12	22	9.6
3	11	32	19	e17	16	16	7.9	7.4	16	8.7	30	6.5
4	9.7	25	46	e16	15	16	7.6	7.0	13	11	12	6.1
5	13	21	36	16	15	16	7.7	6.8	9.9	18	11	5.7
6	60	19	19	16	15	15	8.1	6.8	15	12	10	4.8
7	18	18	19	18	16	14	8.0	6.6	13	84	13	4.4
8	13	17	25	18	36	13	7.8	6.5	9.9	108	11	4.3
9	11	16	20	25	26	12	13	6.7	8.3	62	14	4.2
10	9.8	16	50	24	23	12	56	86	17	565	10	4.1
11	8.5	14	35	141	35	79	87	32	14	58	8.6	4.3
12	6.6	29	20	40	25	57	59	15	10	23	8.3	4.5
13	6.2	25	18	43	20	16	17	13	40	16	8.2	7.2
14	12	18	17	47	16	14	13	12	14	13	8.1	6.1
15	10	e17	16	21	15	12	12	10	12	12	8.1	5.8
16	8.4	e16	14	18	14	23	12	8.9	12	10	8.0	5.9
17	6.9	15	13	17	14	15	11	8.3	9.0	9.4	8.0	5.5
18	8.6	15	122	15	15	19	8.8	8.0	8.2	9.1	8.0	4.7
19	8.2	14	32	13	23	24	13	7.7	7.6	8.8	8.3	4.5
20	9.6	13	49	12	18	14	11	8.4	7.6	78	8.5	9.5
21	7.2	13	47	11	14	13	9.3	8.5	7.6	15	8.6	167
22	6.2	12	29	e11	14	13	7.8	8.9	7.5	13	22	12
23	79	12	25	e11	14	12	7.5	19	7.5	56	11	8.0
24	22	12	22	e12	13	12	31	12	7.4	18	11	7.2
25	12	12	22	e12	13	16	19	9.5	30	12	8.9	6.9
26	10	12	21	e12	54	16	13	8.7	31	11	8.4	6.7
27	67	11	21	e12	77	16	11	8.6	21	12	82	6.1
28	81	11	21	32	35	14	13	26	13	11	44	5.9
29	515	11	22	68	---	14	13	14	16	9.1	7.3	5.6
30	1,020	11	21	83	---	12	11	12	9.3	8.6	6.4	6.7
31	902	---	21	40	---	9.9	---	36	---	8.3	5.9	---
Total	2,978.1	680	878	861	638	580.9	513.6	437.9	511.8	1,308.0	439.4	361.8
Mean	96.1	22.7	28.3	27.8	22.8	18.7	17.1	14.1	17.1	42.2	14.2	12.1
Max	1,020	172	122	141	77	79	87	86	91	565	82	167
Min	6.2	11	11	11	13	9.9	7.5	6.5	7.4	8.3	5.9	4.1

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	27.3	24.0	31.5	29.3	32.5	31.0	27.7	29.3	17.4	21.6	17.7	22.2
Max	96.1	35.2	62.5	81.9	86.1	41.4	67.3	64.2	31.3	42.2	34.1	42.7
(WY)	(2013)	(2008)	(2008)	(2007)	(2011)	(2008)	(2005)	(2003)	(2006)	(2013)	(2001)	(2003)
Min	7.56	8.67	11.1	13.3	15.2	10.9	11.3	9.13	5.99	7.55	6.87	11.3
(WY)	(2003)	(2010)	(2006)	(2009)	(2010)	(2006)	(2010)	(2007)	(2012)	(2007)	(2012)	(2007)

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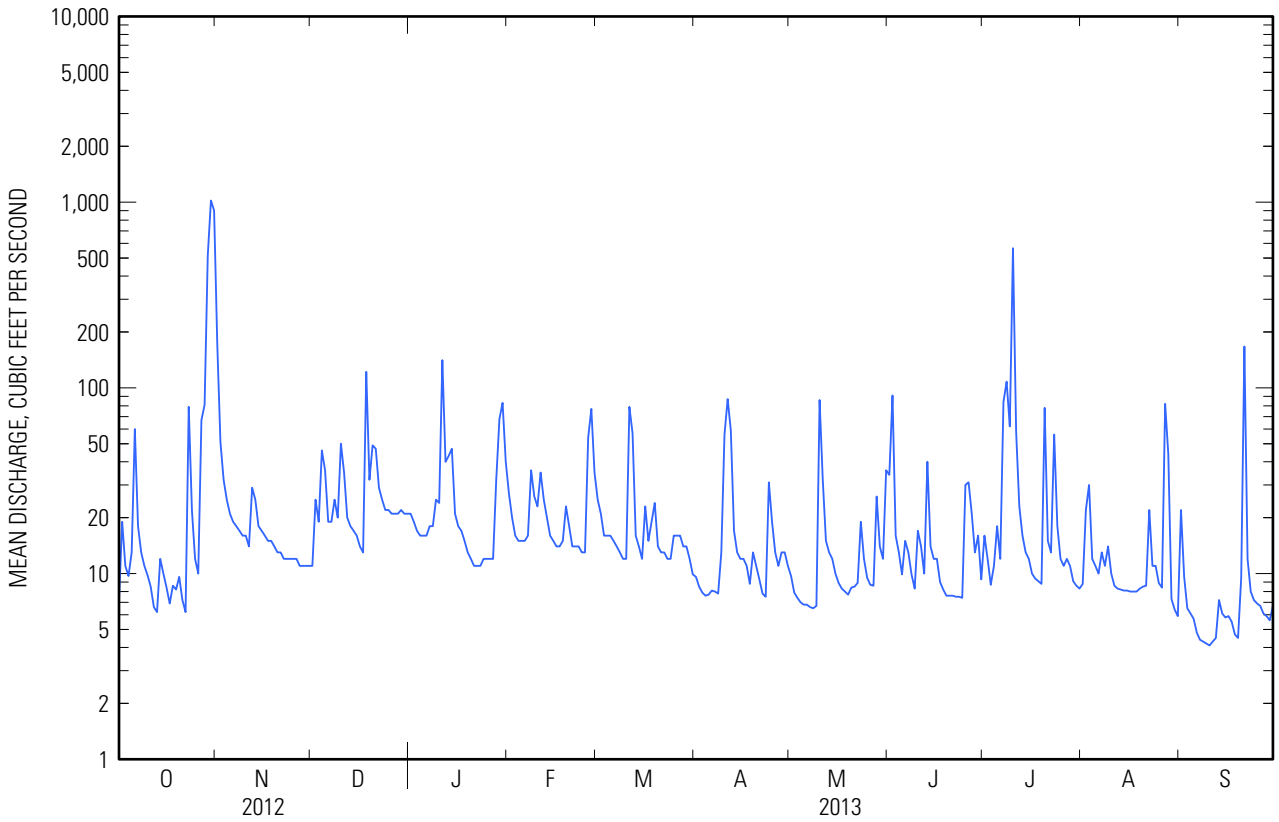
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 2001 - 2013	
Annual total	8,895.5		10,188.5			
Annual mean	24.3		27.9		25.8	
Highest annual mean					31.8	2011
Lowest annual mean					17.9	2010
Highest daily mean	1,020	Oct 30	1,020	Oct 30	1,060	Feb 28, 2011
Lowest daily mean	3.2	Aug 24	4.1	Sep 10	0.00	Oct 3, 2001
Annual seven-day minimum	3.8	Jul 8	4.4	Sep 6	3.3	Sep 8, 2002
Maximum peak flow			2,300	Oct 30	4,410	Feb 28, 2011
Maximum peak stage			6.24	Oct 30	8.01	Feb 28, 2011
Instantaneous low flow			4.0	Sep 9[a]	0.00	Oct 3, 2001
10 percent exceeds	33		45		51	
50 percent exceeds	12		13		12	
90 percent exceeds	4.1		7.2		5.3	

[a] Also Sept 10,11 and 12.