Water-Data Report 2011

04197100 Honey Creek at Melmore OH

Western Lake Erie Basin
Sandusky Subbasin

LOCATION.--Lat 41°01′20″, long 83°06′35″ referenced to North American Datum of 1927, Seneca County, OH, Hydrologic Unit 04100011, on left bank at downstream side of bridge on State Highways 67 and 100 at Melmore, and 1.5 mi upstream from Buckeye Creek.

DRAINAGE AREA.--149 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Annual maximum, water years 1961-75, February 1976 to current year.

GAGE.--Water-stage recorder. Datum of gage is 816.21 ft. NAVD of 1988. Previously described as: "Elevation of gage is 818 ft NGVD 1929 (from topographic map)."

REMARKS.--Records good except for periods of estimated record, which are poor. Water-quality data also collected at this site in previous years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb 18	1700	2,290	8.32
Feb 28	2100	*5,460	*12.06
Mar 6	1030	2,530	8.71
Mar 10	1600	1,570	7.03
Apr 5	2100	1,540	6.98
Apr 26	1030	3,390	9.86
May 3	2130	1,610	7.12
May 27	0130	2,870	9.20
Jul 25	1007	2,540	8.72

Minimum discharge, 2.3 ft^3/s, Nov. 7, 8, gage height, 1.74 ft.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 04197100, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/04197100.2011.pdf

04197100 Honey Creek at Melmore OH—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

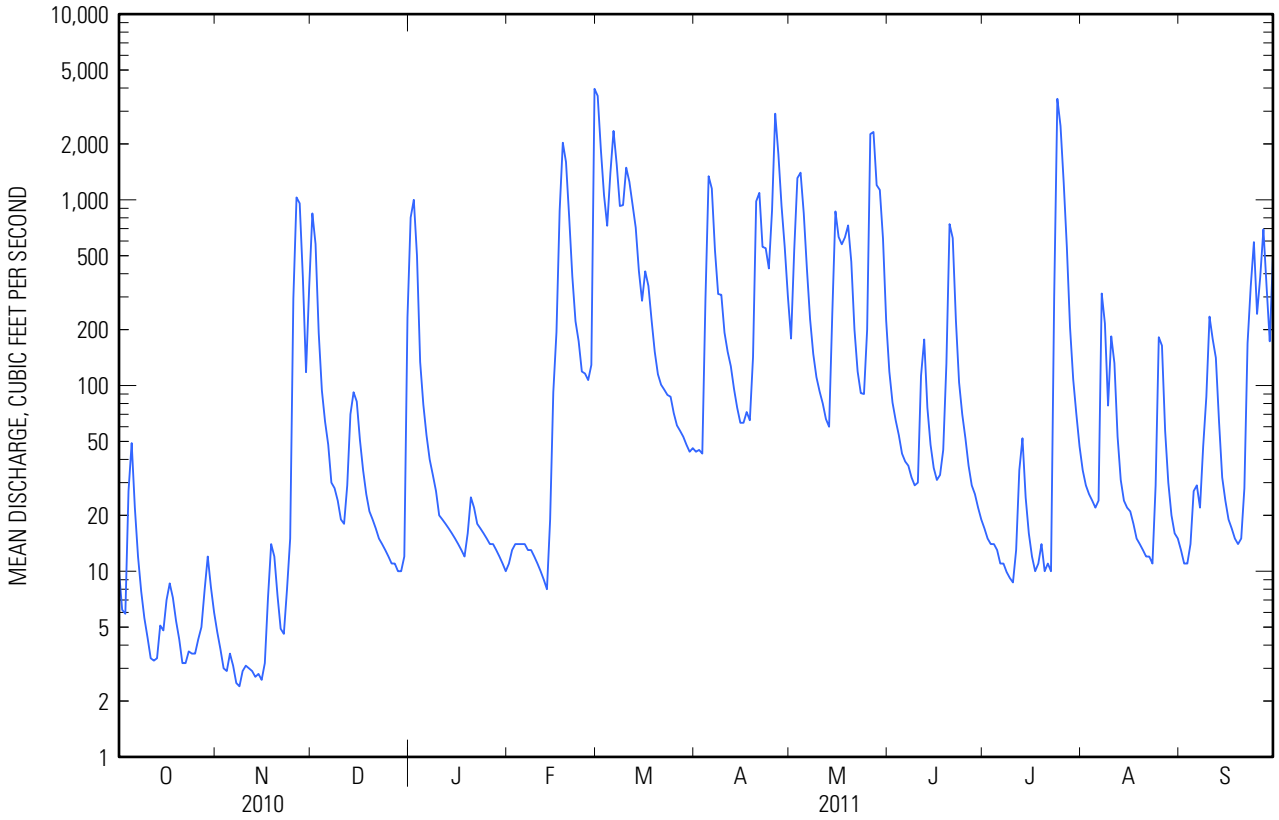
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	10	4.7	845	803	e11	3,630	44	179	119	17	35	13
2	6.2	3.8	578	1,000	e13	1,870	45	538	81	15	29	11
3	5.9	3.0	192	500	e14	1,060	43	1,310	65	14	26	11
4	27	2.9	94	e134	e14	725	294	1,400	54	14	24	14
5	49	3.6	64	e79	e14	1,390	1,340	848	43	13	22	27
6	22	3.1	48	e54	e14	2,350	1,150	425	39	11	24	29
7	12	2.5	e30	e40	e13	1,550	534	228	37	11	313	22
8	7.8	2.4	e28	e33	e13	926	311	148	32	9.9	216	47
9	5.6	2.9	e24	e27	e12	936	308	111	29	9.2	78	87
10	4.4	3.1	e19	e20	e11	1,490	193	93	30	8.7	184	235
11	3.4	3.0	e18	e19	e10	1,250	152	80	113	13	132	178
12	3.3	2.9	e29	e18	e9	942	127	66	177	35	53	141
13	3.4	2.7	e70	e17	e8	708	96	60	76	52	31	64
14	5.1	2.8	e92	e16	19	413	76	242	48	25	24	32
15	4.8	2.6	e82	e15	92	286	63	866	36	16	22	24
16	7.0	3.2	e51	e14	194	412	63	e631	31	12	21	19
17	8.6	7.2	e35	e13	873	344	72	576	33	10	18	17
18	7.2	14	e26	e12	2,030	225	65	628	45	11	15	15
19	5.4	12	e21	e16	1,600	152	142	728	131	14	14	14
20	4.3	7.4	e19	e25	811	115	982	464	740	10	13	15
21	3.2	4.9	e17	e22	387	101	1,090	200	622	11	12	28
22	3.2	4.6	e15	e18	222	95	e558	119	224	e10	12	169
23	3.7	8.0	e14	e17	173	89	549	91	104	e300	11	341
24	3.6	15	e13	e16	119	87	427	e90	70	e3,500	29	592
25	3.6	294	e12	e15	116	71	877	e200	52	e2,500	182	243
26	4.3	1,030	e11	e14	107	61	2,910	2,260	37	1,240	164	385
27	5.0	957	e11	e14	129	57	1,760	2,320	29	555	57	693
28	7.9	382	e10	e13	3,960	53	926	1,200	26	206	30	342
29	12	118	e10	e12	---	48	557	1,130	22	108	20	173
30	8.2	341	e12	e11	---	44	302	618	19	70	16	492
31	6.0	---	233	e10	---	46	---	224	---	47	15	---
Total	263.1	3,244.3	2,723	3,017	10,988	21,526	16,056	18,073	3,164	8,867.8	1,842	4,473
Mean	8.49	108	87.8	97.3	392	694	535	583	105	286	59.4	149
Max	49	1,030	845	1,000	3,960	3,630	2,910	2,320	740	3,500	313	693
Min	3.2	2.4	10	10	8.0	44	43	60	19	8.7	11	11
Cfsm	0.06	0.73	0.59	0.65	2.63	4.66	3.59	3.91	0.71	1.92	0.40	1.00
In.	0.07	0.81	0.68	0.75	2.74	5.37	4.01	4.51	0.79	2.21	0.46	1.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	32.7	92.8	178	197	245	303	240	138	124	73.9	45.2	34.2
Max	186	550	518	996	629	1,021	571	583	740	373	233	242
(WY)	(1991)	(1993)	(1978)	(2005)	(2008)	(2008)	(2005)	(2011)	(1981)	(1992)	(1998)	(1981)
Min	0.71	2.51	1.99	1.31	31.1	40.4	44.4	8.69	1.05	0.46	0.91	0.84
(WY)	(1989)	(1995)	(1977)	(1977)	(2003)	(1981)	(1976)	(1988)	(1988)	(1988)	(2002)	(1995)

04197100 Honey Creek at Melmore OH—Continued

SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1976 - 2011	
Annual total	39,232.9		94,237.2			
Annual mean	107		258		142	
Highest annual mean					270	2008
Lowest annual mean					48.1	1988
Highest daily mean	1,490	Mar 11	3,960	Feb 28	4,520	Feb 7, 2008
Lowest daily mean	1.5	Sep 7	2.4	Nov 8	0.07	Sep 28, 1988
Annual seven-day minimum	1.8	Sep 4	2.8	Nov 7	0.09	Sep 24, 1988
Maximum peak flow			5,460	Feb 28	5,460	Feb 28, 2011
Maximum peak stage			12.06	Feb 28	12.06	Feb 28, 2011
Instantaneous low flow			2.3	Nov 7[a]	0.07	Sep 28, 1988
Annual runoff (cfsm)	0.72		1.73		0.95	
Annual runoff (inches)	9.80		23.53		12.96	
10 percent exceeds	335		855		381	
50 percent exceeds	25		39		32	
90 percent exceeds	3.1		6.1		2.3	

[a] Also Nov 8.