Water-Data Report 2011

04172000 HURON RIVER NEAR HAMBURG, MI

St. Clair-Detroit Basin
Huron Subbasin

LOCATION.--Lat 42°27′55″, long 83°48′00″ referenced to North American Datum of 1927, in SE ¼ NW ¼ sec.24, T.1 N., R.5 E., Livingston County, MI, Hydrologic Unit 04090005, on right bank at downstream side of bridge on Hamburg Road, 1.1 mi north of Hamburg, and 3 mi upstream from Strawberry Lake.

DRAINAGE AREA.--308 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1951 to current year.

REVISED RECORDS.--WSP 2112: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 850.00 ft above sea level (levels by Michigan Department of Natural Resources). Prior to Aug. 12, 1953, nonrecording gage at same site and datum.

REMARKS.--Records fair. Occasional regulation by Kent Lake (station 04170490) 11 mi upstream from station. Several measurements of water temperature were made during the year. Gage-height telemeter at station.

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 04172000, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/04172000.2011.pdf

04172000 HURON RIVER NEAR HAMBURG, MI—Continued

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

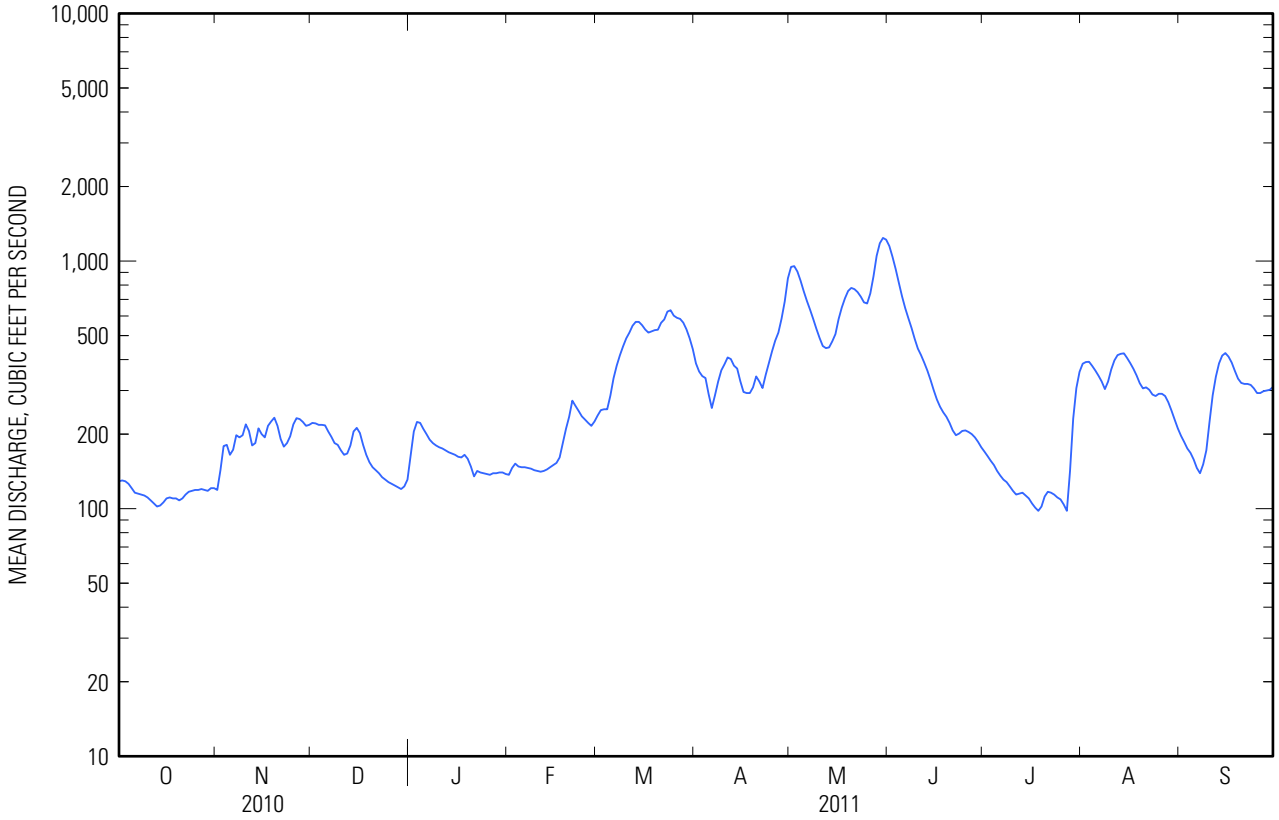
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	129	119	222	164	e137	238	386	947	1,150	170	385	197
2	130	143	221	e205	e146	250	358	954	1,040	163	391	186
3	129	179	218	e224	e152	252	343	907	928	156	392	175
4	126	181	218	e222	e148	252	337	833	817	150	377	168
5	121	165	217	e210	e147	286	290	755	721	142	361	158
6	116	173	205	200	e147	336	255	690	646	136	344	146
7	115	198	195	190	e146	378	287	636	588	131	326	139
8	114	194	184	e184	e145	416	326	583	537	128	304	151
9	113	198	e181	e180	e143	452	362	532	485	123	326	172
10	111	219	e172	e177	e142	487	383	489	443	118	365	224
11	108	206	165	e175	e141	514	408	454	417	114	397	287
12	105	180	167	e172	e142	548	402	445	389	115	417	341
13	102	184	e180	e169	e144	568	378	448	361	116	422	386
14	103	211	e205	e167	e147	568	368	474	331	113	424	415
15	106	200	e212	e165	e150	551	327	507	301	110	406	425
16	110	194	e202	e162	e153	529	296	583	276	105	387	411
17	111	216	e181	e161	e161	514	293	649	258	101	367	389
18	110	225	e165	e165	184	520	293	707	245	98	345	360
19	110	233	e154	e159	210	526	309	757	235	102	321	335
20	108	216	e147	e148	235	528	342	779	222	112	306	322
21	110	191	e143	e135	e273	563	e326	770	207	117	309	319
22	114	178	e139	e142	e260	581	307	749	198	116	302	319
23	117	184	e134	e140	e248	625	347	718	201	114	289	316
24	118	196	e131	e139	e236	633	387	681	206	111	285	306
25	119	219	e128	e138	e229	602	432	674	207	109	291	293
26	119	232	e126	e137	222	590	477	740	204	104	291	293
27	120	230	e124	e139	216	584	514	867	200	98	285	298
28	119	224	e122	e139	225	564	585	1,050	194	142	269	300
29	118	216	e120	e140	---	530	686	1,180	186	231	249	302
30	121	218	e123	e140	---	488	851	1,240	177	307	229	310
31	121	---	e131	e138	---	441	---	1,220	---	357	211	---
Total	3,573	5,922	5,232	5,126	5,029	14,914	11,655	23,018	12,370	4,309	10,373	8,443
Mean	115	197	169	165	180	481	388	743	412	139	335	281
Max	130	233	222	224	273	633	851	1,240	1,150	357	424	425
Min	102	119	120	135	137	238	255	445	177	98	211	139
Cfsm	0.37	0.64	0.55	0.54	0.58	1.56	1.26	2.41	1.34	0.45	1.09	0.91
In.	0.43	0.72	0.63	0.62	0.61	1.80	1.41	2.78	1.49	0.52	1.25	1.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	161	242	234	238	251	355	324	284	216	151	133	138
Max	490	425	406	528	500	705	626	895	412	534	343	424
(WY)	(1982)	(1993)	(2007)	(2007)	(2001)	(1974)	(1974)	(1956)	(2011)	(1968)	(2000)	(1975)
Min	52.0	100	102	84.5	89.5	122	136	92.3	82.0	41.9	49.4	50.5
(WY)	(1965)	(1964)	(1961)	(1961)	(1964)	(1964)	(2004)	(1958)	(1965)	(1965)	(2003)	(2002)

04172000 HURON RIVER NEAR HAMBURG, MI—Continued

SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1952 - 2011	
Annual total	76,740		109,964			
Annual mean	210		301		227	
Highest annual mean					347	2009
Lowest annual mean					97.2	1964
Highest daily mean	688	Jun 10	1,240	May 30	1,560	May 15, 1956
Lowest daily mean	55	Sep 9	98	Jul 18	27	Jul 15, 1988
Annual seven-day minimum	58	Sep 5	106	Jul 14	28	Jul 10, 1988
Maximum peak flow			1,250	May 30	[a]1,560	May 15, 1956
Maximum peak stage			7.66	May 30	8.46	Jun 30, 1968
Instantaneous low flow					26	Jul 15, 1988[b]
Annual runoff (cfsm)	0.683		0.978		0.737	
Annual runoff (inches)	9.27		13.28		10.01	
10 percent exceeds	403		584		406	
50 percent exceeds	180		221		198	
90 percent exceeds	103		118		85	

[a] Gage height 8.35 ft.
[b] Also occurred July 16, 1988.