Water-Data Report 2006

04174500 HURON RIVER AT ANN ARBOR, MI

St. Clair-Detroit Basin
Huron Subbasin

LOCATION.--Lat 42°17′13″, long 83°44′02″ referenced to North American Datum of 1927, in NW ¼ sec.28, T.2 S., R.6 E., Washtenaw County, MI, Hydrologic Unit 04090005, on left bank 100 ft upstream from bridge on Maiden Lane in Ann Arbor, 0.7 mi downstream from Argo Dam, and 4.2 mi upstream from Geddes Dam.

DRAINAGE AREA.--729 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--February 1904 to current year. Monthly discharge only for February 1904 to September 1914 and October 1947 to July 1948, published in WSP 1307. Published as "at Geddes" February 1904 to December 1914 and as "at Barton" January 1914 to September 1940.

REVISED RECORDS.--WSP 874: 1938. WSP 2112: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 744.81 ft above sea level (levels by Michigan Department of Natural Resources). February 1904 to December 1914 at Geddes Dam, 4.2 mi downstream, and January 1914 to September 1947 at Barton Dam, 2.6 mi upstream, flow computed from records of operation of powerplants and records of depth of flow over dam and/or flow through undersluices.

REMARKS.--Records good. Prior to 1955 diversion upstream from station for Ann Arbor municipal supply had negligible effect on natural flow; annual mean discharge and runoff figures adjusted for diversion from 1955 to 1991. Flow regulated by powerplants prior to May 1962. From June 1962 to 1975 occasional regulation for lake level control operations upstream from station. Since 1975 extensive regulation of flow exists due to automation of gates at dams upstream from station. Several measurements of water temperature were made during the year. Gage-height telemeter at station.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	249	151	446	511	921	612	625	368	748	359	90	243
2	238	152	402	556	871	594	621	459	500	350	122	225
3	227	151	391	620	881	583	674	524	506	299	164	217
4	156	165	403	614	928	581	674	548	533	321	256	200
5	145	189	411	673	1,010	570	656	500	535	334	238	201
6	152	243	378	674	981	526	656	474	495	287	101	222
7	153	331	384	707	903	505	936	460	497	268	117	186
8	157	299	389	672	857	512	1,020	439	438	145	117	172
9	150	305	412	658	810	625	931	410	404	133	130	166
10	146	270	385	555	794	877	879	480	389	150	123	161
11	138	269	380	571	771	962	872	915	369	178	124	166
12	143	264	376	565	542	1,000	1,070	1,230	352	210	117	209
13	136	304	361	594	543	1,430	1,110	1,110	338	203	113	412
14	132	266	361	631	592	1,730	890	1,290	255	198	104	375
15	131	422	350	624	595	1,650	839	1,400	249	202	104	609
16	123	452	318	592	884	1,530	844	1,810	226	228	95	217
17	119	433	315	668	1,290	1,490	853	1,810	184	286	86	333
18	116	407	296	719	1,330	1,410	927	1,680	193	330	60	555
19	119	386	298	692	1,060	1,310	932	1,630	220	261	171	491
20	116	380	308	717	986	1,180	813	1,470	225	255	156	398
21	117	377	291	1,030	907	1,120	705	1,430	310	117	124	280
22	121	376	214	1,090	957	1,060	694	1,380	468	124	122	290
23	120	397	203	980	949	896	674	1,190	507	136	153	324
24	123	397	217	977	908	730	662	919	425	143	118	326
25	121	408	248	900	889	717	642	1,080	376	145	199	311
26	121	406	270	844	856	723	598	1,110	350	326	171	310
27	117	434	273	816	710	713	499	1,100	347	224	190	316
28	119	513	345	797	680	707	514	897	352	281	248	307
29	115	540	558	926	---	689	498	724	363	264	360	293
30	115	481	551	1,020	---	668	402	907	349	270	307	317
31	123	---	534	991	---	630	---	838	---	135	268	---
Total	4,358	10,168	11,068	22,984	24,405	28,330	22,710	30,582	11,503	7,162	4,848	8,832
Mean	141	339	357	741	872	914	757	987	383	231	156	294
Max	249	540	558	1,090	1,330	1,730	1,110	1,810	748	359	360	609
Min	115	151	203	511	542	505	402	368	184	117	60	161

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	271	390	427	458	558	857	842	610	404	242	188	215
Max	904	1,018	1,080	1,257	1,431	2,308	2,647	2,085	1,341	1,130	689	919
(WY)	(1982)	(1993)	(1951)	(1950)	(1976)	(1918)	(1947)	(1943)	(1943)	(1968)	(2000)	(1975)
Min	71.6	109	123	131	145	189	274	187	72.0	31.5	21.1	55.8
(WY)	(1935)	(1935)	(1935)	(1925)	(1934)	(1934)	(1931)	(1925)	(1934)	(1934)	(1934)	(1934)

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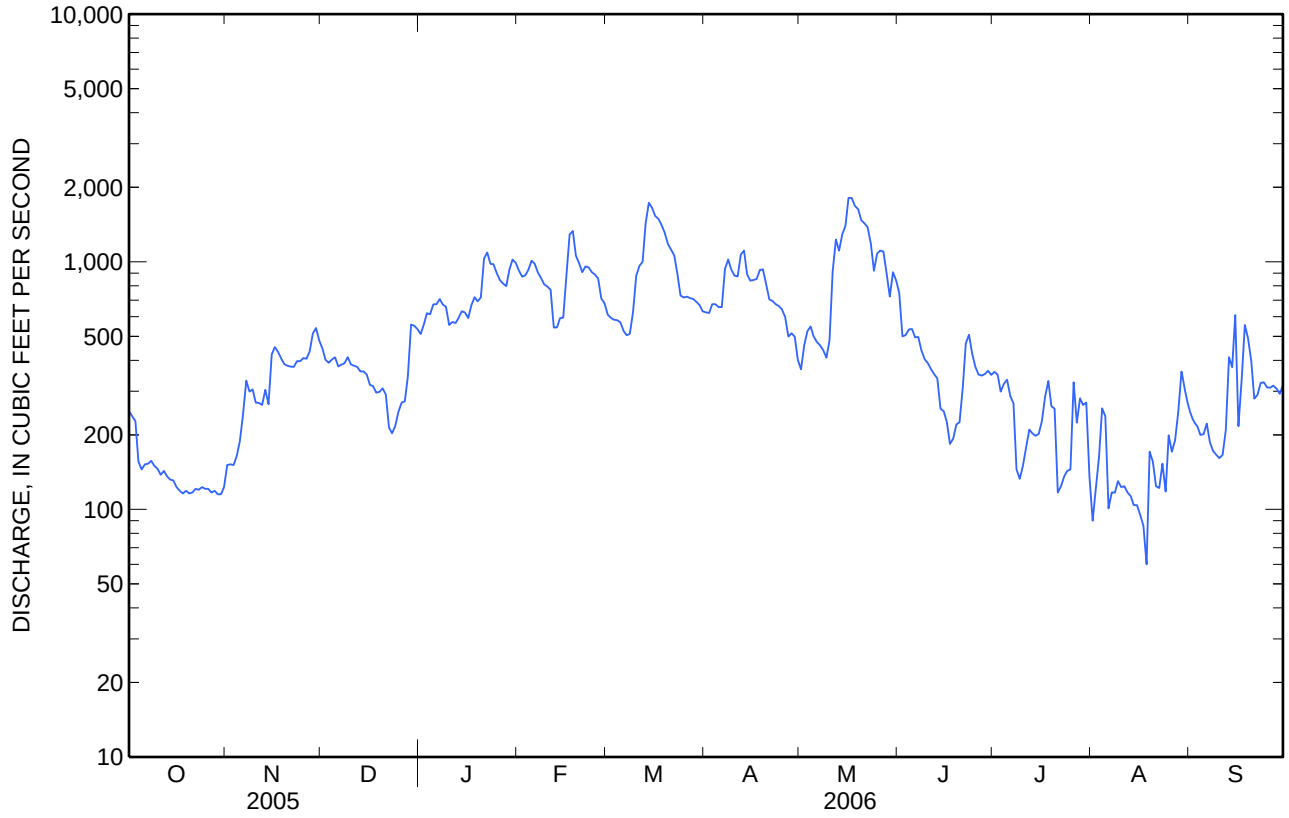
SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1915 - 2006	
Annual total	163,284		186,950			
Annual mean	447		512		[a]455	
Highest annual mean					824	1974
Lowest annual mean					171	1931
Highest daily mean	2,080	Jan 15	1,810	May 16	5,840	Mar 14, 1918
Lowest daily mean	72	Sep 13	60	Aug 18	[b]4.0	Aug 2, 1931[c]
Annual seven-day minimum	83	Sep 9	97	Aug 12	13	Jul 28, 1934
Maximum peak flow			2,330	Sep 13		
Maximum peak stage			15.32	Sep 13	[d]17.50	Jun 26, 1968
10 percent exceeds	984		995		930	
50 percent exceeds	302		402		336	
90 percent exceeds	119		131		120	

[a] Does not include water year 1948.
[b] Plant leakage, but doubtful due to possible change in leakage.
[c] Also occurred Sept. 11, 1931.
[d] Present site and datum.