Water-Data Report 2013

04086000 SHEBOYGAN RIVER AT SHEBOYGAN, WI

Northwestern Lake Michigan Basin
Manitowoc-Sheboygan Subbasin

LOCATION.--Lat 43°44'29.0", long 87°45'07.6" referenced to North American Datum of 1983, in NW ¼ SE ¼ NW ¼ sec.28, T.15 N., R.23 E., Sheboygan County, WI, Hydrologic Unit 04030101, on left bank 0.3 mi upstream from County Road PP bridge and 0.2 mi downstream from Interstate 43 bridge, near west city limits of Sheboygan, and 3.9 mi upstream from mouth.

DRAINAGE AREA.--418 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1916 to September 1924 (published as "near Sheboygan"), October 1950 to current year. Monthly discharge for some periods published in WSP 1307, 1727.

REVISED RECORDS.--WSP 1307: 1917(M), 1919(M), 1921(M), 1923(M). WSP 1727: 1951. WDR WI-79-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 580.41 ft, above NAVD of 1988. June 1916 to June 1924, nonrecording gage 0.4 mi downstream at different datum. November 1950 to June 1951, nonrecording gage near present site at different datum. July 1951 to September 1998, water-stage recorder at site 0.3 mi upstream at different datum.

REMARKS.--Records good except periods of estimated record, which are poor. Diurnal fluctuation caused by numerous powerplants above station. Gage-height telemeter at station.

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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	42	168	102	e240	e400	e364	e1,130	512	643	223	134	64
2	43	166	106	e243	e388	e349	e1,490	429	814	213	125	59
3	45	162	109	e252	e377	e329	e1,730	576	630	220	113	57
4	45	160	111	e244	e348	e328	1,810	722	493	228	105	55
5	43	158	112	e238	e337	e330	2,080	739	400	221	100	55
6	41	156	107	e229	e326	e333	2,100	681	344	212	103	54
7	41	159	104	e229	e317	e335	2,130	685	333	204	156	56
8	42	163	103	e227	e310	e337	2,250	670	293	221	143	59
9	43	166	106	e232	e312	e347	3,170	619	250	247	117	73
10	46	179	115	e243	e334	e382	5,180	1,190	245	241	97	71
11	47	168	115	e259	e372	e458	5,040	1,330	244	238	84	78
12	49	147	110	e284	e354	e435	4,680	1,160	245	182	83	72
13	92	163	108	e320	e332	e405	3,600	952	363	156	84	64
14	241	144	105	e371	e333	e380	2,910	769	368	152	83	59
15	306	137	125	e388	e334	e347	2,680	680	312	170	78	64
16	212	133	188	e419	e327	e340	2,470	638	357	168	74	68
17	175	134	216	e374	e331	e336	2,300	607	347	167	72	65
18	265	131	198	e327	e352	e327	3,060	528	305	157	68	66
19	239	129	175	e355	e369	e319	3,010	407	263	139	68	70
20	205	135	e176	e399	e355	e310	2,510	443	237	125	67	93
21	186	130	e195	e433	e344	e302	2,050	484	226	122	66	93
22	205	129	e212	e426	e343	e299	1,750	554	230	147	68	86
23	278	125	e194	e426	e339	e297	1,570	984	223	128	66	75
24	372	124	e183	e432	e338	e295	1,430	849	213	119	66	69
25	306	111	e177	e429	e338	e293	1,320	651	211	111	64	66
26	289	110	e173	e398	e339	e290	1,210	506	214	109	61	65
27	250	90	e169	e383	e334	e296	1,080	429	225	118	60	64
28	223	130	e168	e397	e346	e322	957	470	247	125	69	63
29	201	121	e188	e454	---	e415	839	563	250	131	68	71
30	187	109	e217	e515	---	e594	732	513	238	126	60	67
31	175	---	e231	e449	---	e794	---	476	---	130	56	---
Total	4,934	4,237	4,698	10,615	9,629	11,288	68,268	20,816	9,763	5,250	2,658	2,021
Mean	159	141	152	342	344	364	2,276	671	325	169	85.7	67.4
Max	372	179	231	515	400	794	5,180	1,330	814	247	156	93
Min	41	90	102	227	310	290	732	407	211	109	56	54
Cfsm	0.38	0.34	0.36	0.82	0.82	0.87	5.44	1.61	0.78	0.41	0.21	0.16
In.	0.44	0.38	0.42	0.94	0.86	1.00	6.08	1.85	0.87	0.47	0.24	0.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	145	194	170	138	196	687	740	346	273	128	113	129
Max	741	1,372	514	521	887	2,052	2,276	1,765	1,898	653	1,433	1,143
(WY)	(1987)	(1986)	(2007)	(2005)	(1984)	(1918)	(2013)	(2004)	(2004)	(2010)	(1924)	(1986)
Min	29.6	31.7	19.7	17.1	20.9	110	141	41.5	25.2	19.8	11.1	20.4
(WY)	(1958)	(1951)	(1959)	(1959)	(1958)	(1968)	(1970)	(1958)	(1958)	(1958)	(1958)	(1958)

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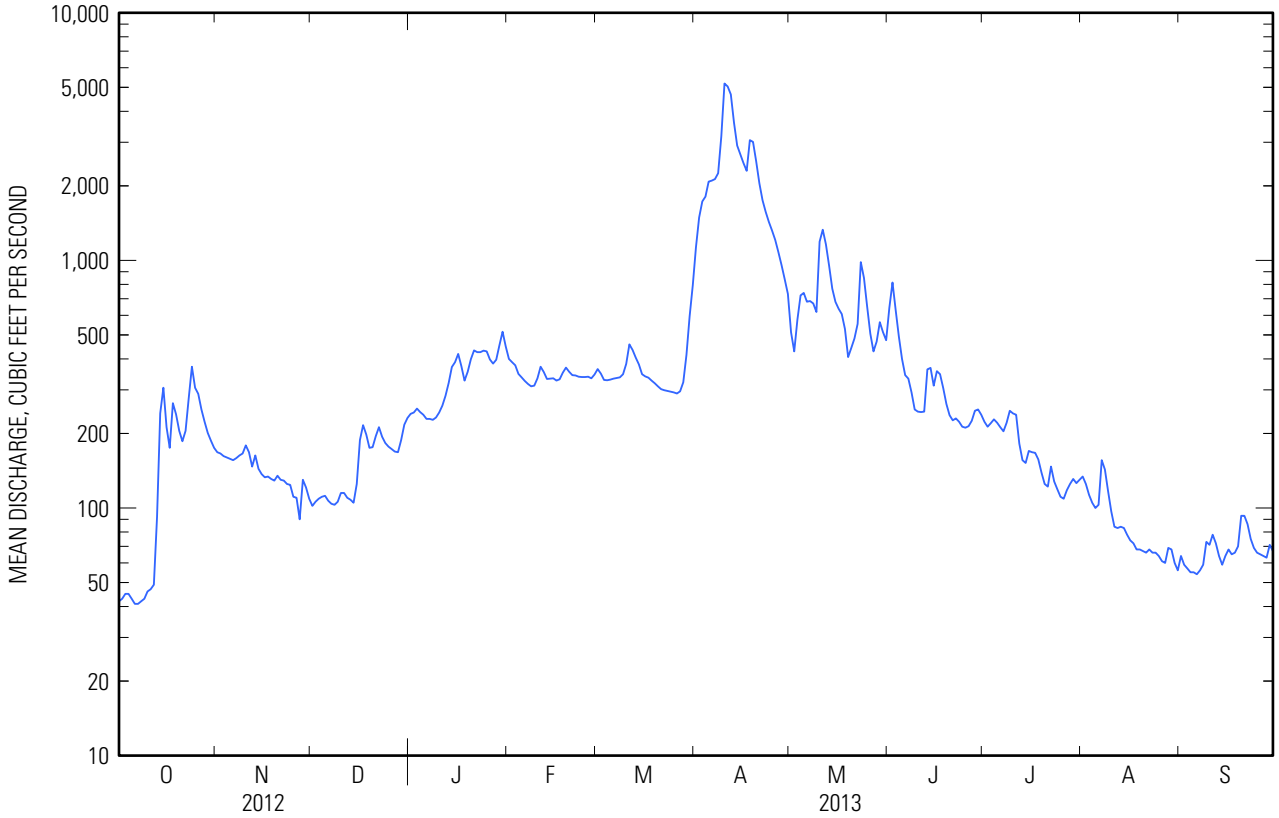
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1916 - 2013	
Annual total	83,361		154,177			
Annual mean	228		422		272	
Highest annual mean					542	2004
Lowest annual mean					47.1	1958
Highest daily mean	1,390	Mar 8	5,180	Apr 10	7,000	Aug 6, 1924
Lowest daily mean	41	Oct 6[a]	41	Oct 6[a]	[b]1.0	Aug 27, 1922
Annual seven-day minimum	43	Oct 1	43	Oct 1	[b]8.9	Aug 14, 1958
Maximum peak flow			[c]5,790	Apr 10	7,820	Aug 6, 1998
Maximum peak stage			[d]11.54	Mar 11	[e]12.02	Aug 6, 1998
Instantaneous low flow			39	Oct 6[a]	[b]1.0	Aug 27, 1922
Annual runoff (cfsm)	0.545		1.01		0.650	
Annual runoff (inches)	7.42		13.72		8.83	
10 percent exceeds	632		802		640	
50 percent exceeds	118		232		122	
90 percent exceeds	53		66		40	

[a] Also occurred Oct. 7.
[b] Result of regulation.
[c] Gage height, 10.23 ft.
[d] Ice jam.
[e] Datum then in use.