Water-Data Report 2012

05356500 CHIPPEWA RIVER NEAR BRUCE, WI

Chippewa Basin
Upper Chippewa Subbasin

LOCATION.--Lat 45°27′06″, long 91°15′40″ referenced to North American Datum of 1927, in SW ¼ SE ¼ sec.5, T.34 N., R.7 W., Rusk County, WI, Hydrologic Unit 07050001, on right bank 1.0 mi east of Bruce and 1.0 mi downstream from Thornapple River.

DRAINAGE AREA.--1,650 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--December 1913 to current year.

REVISED RECORDS.--WSP 875: 1936-38. WSP 1308: 1922, 1937(M). WSP 1508: 1914-26(M), 1927, 1928-31(M), 1932, 1933(M), 1934-36, 1938. WDR WI-81-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,059.62 ft above NAVD of 1988. Prior to May 28, 1935, nonrecording gage at railroad bridge 0.8 mi upstream at datum 2.30 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow from 48 percent of the drainage area regulated by Moose Lake and Lake Chippewa. Gage-height telemeter at station.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	630	627	e554	e900	e873	e1,190	1,320	1,350	2,800	2,540	806	469
2	612	603	e580	e900	e846	e1,270	1,260	1,490	1,830	1,790	820	421
3	595	596	e580	e873	e873	e1,140	1,250	1,880	1,360	1,580	793	420
4	582	584	e713	e873	e846	e1,060	1,280	2,160	1,250	1,480	819	421
5	573	579	e687	e846	e846	e1,090	1,360	1,830	1,300	1,320	846	428
6	566	580	e713	e820	e793	e1,170	1,390	2,310	1,440	1,240	827	457
7	560	580	e740	e846	e767	e1,170	1,320	4,410	1,330	1,310	819	408
8	548	578	e740	e846	e807	e1,490	1,340	4,200	1,280	1,340	723	509
9	544	573	e527	e846	e793	e1,700	1,320	3,740	1,080	1,260	670	418
10	543	573	e447	e873	e820	e1,720	1,300	3,490	962	1,180	691	427
11	540	552	e474	e846	e793	1,820	1,280	3,310	924	1,110	653	503
12	549	549	e447	e820	e767	2,020	1,280	3,090	907	1,050	637	402
13	705	543	e660	e900	e767	3,150	1,110	2,880	898	1,050	630	422
14	951	543	e633	e873	e740	4,090	1,000	2,770	1,050	1,060	578	459
15	918	554	e660	e873	e713	5,790	974	2,650	2,420	1,050	624	402
16	811	537	e660	e873	e767	7,000	1,200	2,060	2,160	1,030	621	418
17	704	515	e660	e820	e740	6,750	1,320	1,800	1,700	852	620	495
18	672	508	e713	e793	e793	5,950	1,630	1,280	1,700	917	565	417
19	655	516	e767	e740	e846	4,630	3,450	987	1,870	1,390	523	456
20	640	509	e740	e740	e820	3,650	2,900	912	1,930	1,300	511	426
21	633	507	e778	e713	e873	2,850	2,130	947	4,880	1,010	483	420
22	616	593	e793	e846	e953	2,550	1,690	939	7,160	941	440	443
23	607	613	e767	e846	e1,060	2,450	1,520	916	6,330	968	406	501
24	602	596	e740	e846	e1,060	2,250	1,370	1,060	6,290	890	454	441
25	601	581	e767	e873	e1,110	2,090	1,290	1,760	6,120	851	487	445
26	621	672	e793	e873	e1,140	1,840	1,240	1,970	5,860	912	484	503
27	641	758	e846	e820	e1,110	1,640	1,360	2,770	5,620	904	440	412
28	661	816	e820	e820	e980	1,480	1,360	4,480	4,670	882	406	426
29	650	768	e873	e900	e980	1,390	1,290	3,800	4,040	851	480	422
30	633	596	e820	e873	---	1,380	1,330	2,910	3,230	871	427	466
31	645	---	e900	e873	---	1,370	---	3,210	---	835	381	---
Total	19,808	17,699	21,592	26,184	25,276	79,140	43,864	73,361	84,391	35,764	18,664	13,257
Mean	639	590	697	845	872	2,553	1,462	2,366	2,813	1,154	602	442
Max	951	816	900	900	1,140	7,000	3,450	4,480	7,160	2,540	846	509
Min	540	507	447	713	713	1,060	974	912	898	835	381	402
In.	0.45	0.40	0.49	0.59	0.57	1.78	0.99	1.65	1.90	0.81	0.42	0.30

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,283	1,367	1,316	1,152	1,041	1,470	2,743	1,976	1,730	1,234	1,061	1,307
Max	5,666	3,662	2,842	2,200	2,100	3,964	8,007	5,971	7,483	3,990	3,237	7,423
(WY)	(1986)	(1992)	(1992)	(1942)	(1971)	(1973)	(1916)	(1954)	(1943)	(1968)	(2010)	(1941)
Min	296	459	442	356	338	404	590	390	411	317	364	338
(WY)	(1934)	(1990)	(1990)	(1922)	(1918)	(1923)	(1987)	(1925)	(1949)	(1925)	(1964)	(1976)

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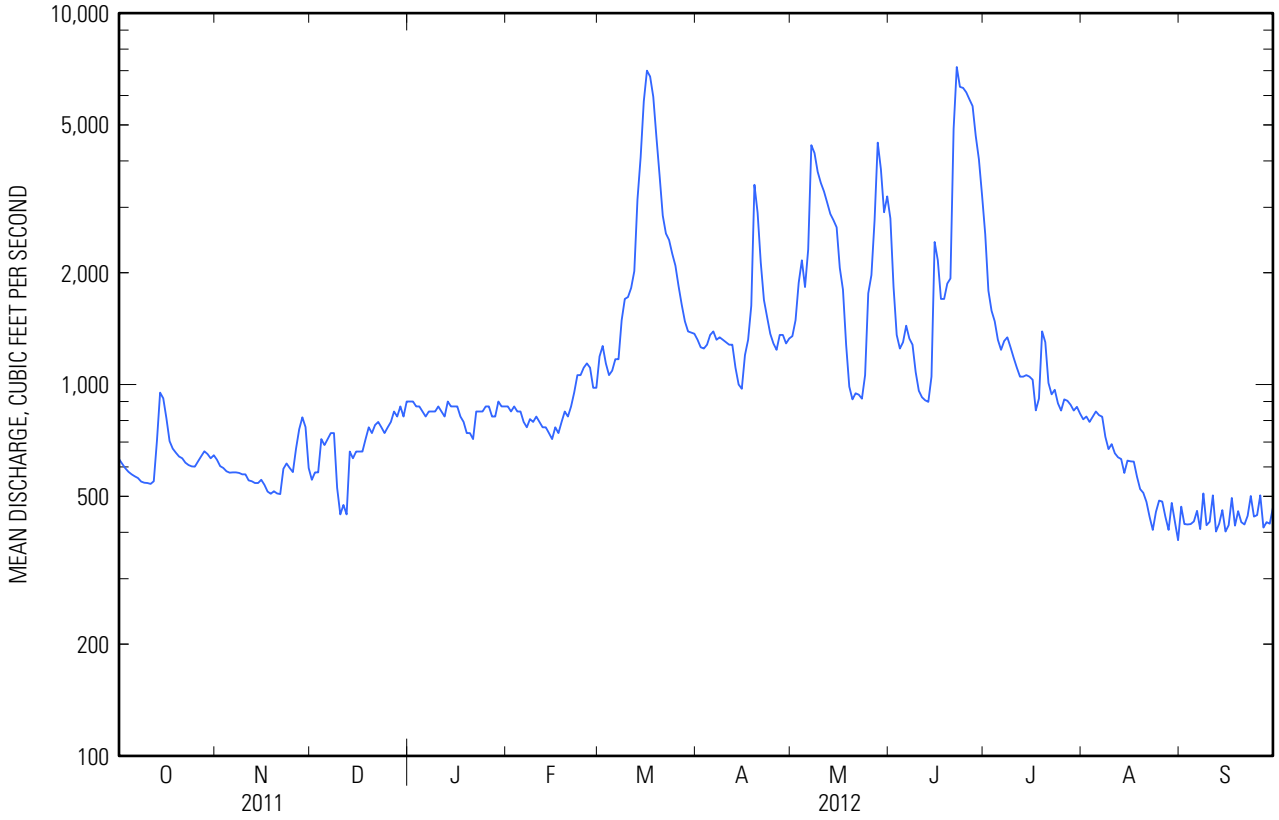
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1914 - 2012	
Annual total	566,378		459,000			
Annual mean	1,552		1,254		1,471	
Highest annual mean					2,290	1986
Lowest annual mean					666	1934
Highest daily mean	10,400	Aug 3	7,160	Jun 22	24,900	Sep 1, 1941
Lowest daily mean	[a]447	Dec 10[b]	381	Aug 31	155	Jun 10, 1932
Annual seven-day minimum	521	Nov 15	424	Aug 30	218	Aug 3, 1925
Maximum peak flow			7,400	Jun 22	[c]29,000	Sep 17, 1994
Maximum peak stage			8.27	Jun 22	[d]20.46	Sep 1, 1941
Instantaneous low flow			378	Aug 30[e]	155	Jun 10, 1932
Annual runoff (inches)	12.77		10.35		12.11	
10 percent exceeds	3,200		2,580		2,700	
50 percent exceeds	1,190		846		1,090	
90 percent exceeds	589		482		500	

[a] Ice affected.
[b] Also occurred Dec. 12.
[c] From rating curve extended above 25,100 ft³/s, gage height 18.12 ft.
[d] From floodmarks.
[e] Also occurred Aug. 31.