Water-Data Report 2013

05344490 ST. CROIX RIVER AT PRESCOTT, WI

St. Croix Basin
Lower St. Croix Subbasin

LOCATION.--Lat 44°44′57″, long 92°48′16″ referenced to North American Datum of 1927, in SE ¼ SE ¼ sec.9, T.26 N., R.20 W., Pierce County, WI, Hydrologic Unit 07030005.

DRAINAGE AREA.--7,650 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August, 2007 to current year.

GAGE.--Water stage and velocity recorder. Datum of gage is 649.50 ft above sea level (NGVD 1929).

REMARKS.--Records fair except for estimated discharges, which are fair to poor, discharges under 3,000 which are fair and those under 2,000 which are poor. Backwater from Mississippi River at all times. Reverse flow at times from seiche and navigation traffic. Routed flows affected by attenuation and storage between St. Croix Falls and Prescott.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 05344490, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/05344490.2013.pdf

05344490 ST. CROIX RIVER AT PRESCOTT, WI—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

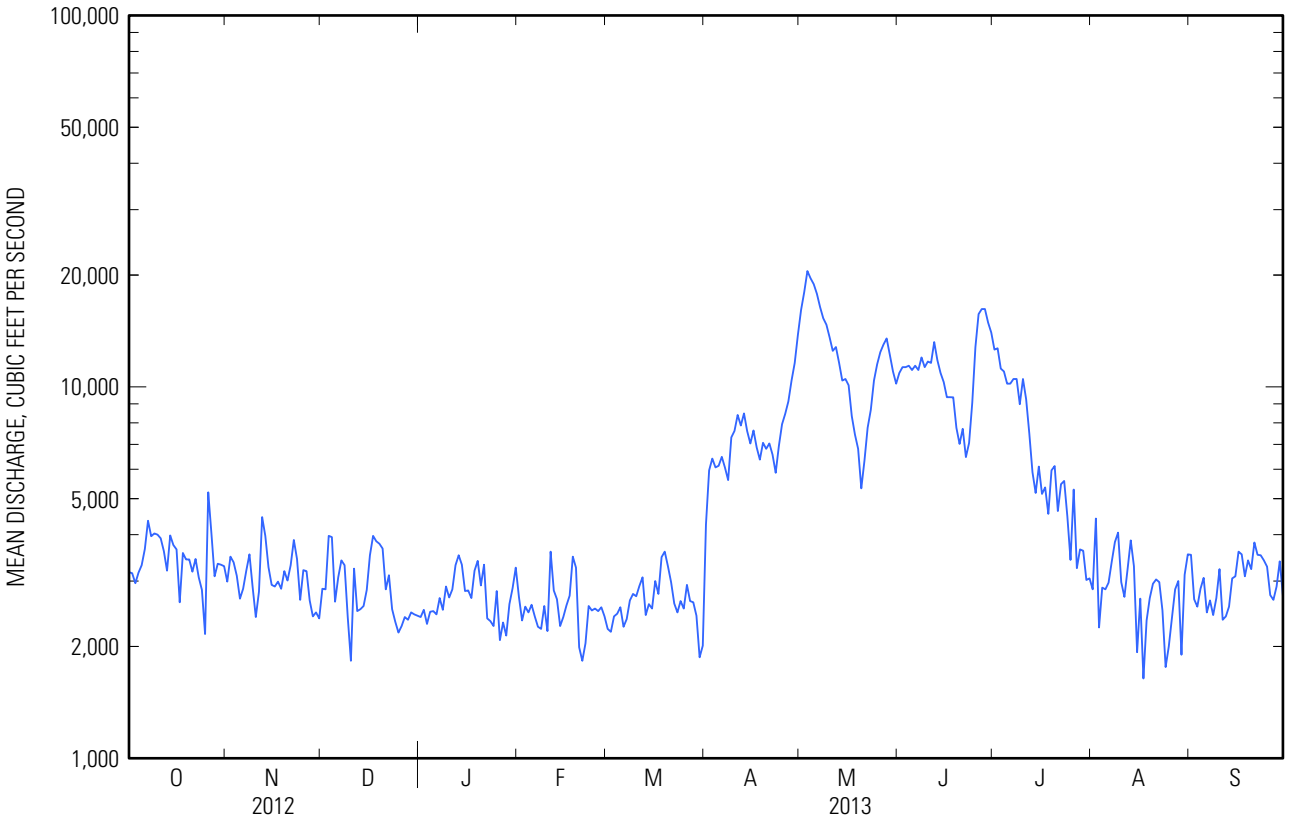
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3,170	2,990	2,860	2,400	2,720	2,230	4,260	16,100	10,900	12,600	2,850	3,530
2	3,150	3,490	2,850	2,510	2,350	2,190	5,960	e18,000	11,300	12,700	4,420	2,680
3	2,960	3,370	3,970	2,300	2,560	2,410	6,410	e20,500	11,300	11,200	2,250	2,560
4	3,160	3,100	3,940	2,480	2,470	2,450	6,070	e19,600	11,400	11,000	2,880	2,860
5	3,310	2,690	2,640	2,490	2,590	2,550	6,130	18,900	11,100	10,200	2,850	3,060
6	3,660	2,860	3,070	2,440	2,410	2,260	6,480	17,800	11,400	10,200	2,970	2,470
7	4,360	3,200	3,410	2,700	2,260	2,370	6,060	16,400	11,100	10,500	3,380	2,660
8	3,960	3,540	3,310	2,510	2,230	2,660	5,610	15,300	12,000	10,500	3,820	2,430
9	4,030	2,890	2,400	2,900	2,570	2,770	7,310	14,700	11,300	8,980	4,050	2,700
10	4,000	2,400	1,830	2,710	2,200	2,730	7,610	13,600	11,700	10,500	2,980	3,230
11	3,910	2,810	3,240	2,850	3,600	2,910	8,400	12,500	11,600	9,260	2,720	2,360
12	3,610	4,460	2,490	3,310	2,830	3,070	7,870	12,800	13,200	7,490	3,230	2,410
13	3,200	3,970	2,520	3,520	2,680	2,430	8,480	11,600	11,800	5,890	3,860	2,560
14	3,980	3,270	2,570	3,320	2,270	2,600	7,600	10,400	10,900	5,180	3,290	3,050
15	3,750	2,930	2,840	2,820	2,400	2,530	7,040	10,500	10,300	6,100	1,930	3,090
16	3,650	2,900	3,520	2,830	2,580	3,000	7,630	10,100	9,380	5,150	2,690	3,600
17	2,630	2,990	3,970	2,700	2,740	2,770	6,870	8,340	9,380	5,360	1,640	3,540
18	3,570	2,860	3,840	3,200	3,490	3,480	6,370	7,440	9,370	4,550	2,350	3,090
19	3,430	3,190	3,780	3,400	3,260	3,600	7,070	6,810	7,760	5,960	2,700	3,410
20	3,430	3,010	3,670	2,920	1,990	3,290	6,810	5,330	7,020	6,120	2,950	3,230
21	3,180	3,310	2,850	3,320	1,830	2,980	7,040	6,330	7,710	4,630	3,030	3,810
22	3,440	3,870	3,110	2,380	2,040	2,610	6,570	7,760	6,470	5,470	2,980	3,530
23	3,070	3,440	2,520	2,340	2,570	2,470	5,870	8,670	7,060	5,580	2,500	3,520
24	2,840	2,670	2,330	2,270	2,500	2,650	6,930	10,400	9,050	4,480	1,760	3,410
25	2,160	3,210	2,180	2,820	2,530	2,530	7,930	11,500	12,800	3,420	2,000	3,280
26	5,200	3,190	2,270	2,080	2,490	2,930	8,460	12,400	15,700	5,290	2,390	2,750
27	4,030	2,660	2,400	2,320	2,550	2,650	9,140	13,000	16,200	3,250	2,850	2,670
28	3,090	2,410	2,360	2,140	2,410	2,630	10,400	13,500	16,200	3,650	3,000	2,900
29	3,340	2,470	2,470	2,600	---	2,420	11,600	12,200	14,900	3,620	1,900	3,390
30	3,320	2,380	2,440	2,870	---	1,870	13,800	11,000	14,000	3,020	3,120	2,740
31	3,290	---	2,420	3,260	---	2,010	---	10,200	---	3,050	3,540	---
Total	107,880	92,530	90,070	84,710	71,120	82,050	223,780	383,680	334,300	214,900	88,880	90,520
Mean	3,480	3,084	2,905	2,733	2,540	2,647	7,459	12,380	11,140	6,932	2,867	3,017
Max	5,200	4,460	3,970	3,520	3,600	3,600	13,800	20,500	16,200	12,700	4,420	3,810
Min	2,160	2,380	1,830	2,080	1,830	1,870	4,260	5,330	6,470	3,020	1,640	2,360
Ac-ft	214,000	183,500	178,700	168,000	141,100	162,700	443,900	761,000	663,100	426,300	176,300	179,500
Cfsm	0.45	0.40	0.38	0.36	0.33	0.35	0.98	1.62	1.46	0.91	0.37	0.39
In.	0.52	0.45	0.44	0.41	0.35	0.40	1.09	1.87	1.63	1.05	0.43	0.44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2007 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	5,415	5,158	3,140	2,925	2,719	4,999	9,534	10,140	9,040	4,825	4,814	3,125
Max	8,850	9,578	3,939	4,051	3,590	6,441	16,140	13,280	17,490	6,932	9,461	4,735
(WY)	(2008)	(2011)	(2011)	(2011)	(2011)	(2009)	(2011)	(2008)	(2012)	(2013)	(2011)	(2010)
Min	3,288	3,084	2,882	2,550	2,086	2,647	5,951	5,167	2,485	1,890	2,351	2,099
(WY)	(2012)	(2013)	(2008)	(2012)	(2008)	(2013)	(2012)	(2009)	(2009)	(2009)	(2008)	(2009)

05344490 ST. CROIX RIVER AT PRESCOTT, WI—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 2007 - 2013	
Annual total	2,026,320		1,864,420			
Annual mean	5,536		5,108		5,486	
Highest annual mean					7,503	2011
Lowest annual mean					4,042	2009
Highest daily mean	41,000	Jun 2	20,500	May 3	41,000	Jun 2, 2012
Lowest daily mean	1,830	Dec 10	1,640	Aug 17	[a]-30	Jul 9, 2009
Annual seven-day minimum	2,190	Jan 20	2,280	Feb 20	1,210	Jul 9, 2009
Maximum peak flow			[b]20,700	Jun 26	41,000	Jun 2, 2012
Maximum peak stage			[c]33.96	Jul 1	[c]36.81	Apr 13, 2011
Instantaneous low flow			514	Sep 30	[a]-3,780	Jul 16, 2011
Annual runoff (ac-ft)	4,019,000		3,698,000		3,974,000	
Annual runoff (cfsm)	0.724		0.668		0.717	
Annual runoff (inches)	9.85		9.07		9.74	
10 percent exceeds	10,200		11,300		11,300	
50 percent exceeds	3,310		3,280		3,750	
90 percent exceeds	2,390		2,390		2,310	

[a] Due in part to Mississippi River backflow from Lock and Dam 2 gate opening.
[b] Gage height, 33.01 ft.
[c] Variable backwater conditions.