



Water-Data Report 2009

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, Hydrologic Unit 07030005.

DRAINAGE AREA.--7,650 mi².

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 good to 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.

05344490 ST. CROIX RIVER AT PRESCOTT, WI—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	5,820	9,280	2,270	3,110	e1,950	1,910	4,350	21,400	6,110	5,860	3,320	1,590
2	4,580	8,510	e2,360	3,300	e1,960	e2,340	4,500	20,200	6,420	5,500	2,580	2,170
3	3,360	8,480	e2,460	2,900	e1,940	e2,440	5,030	18,800	6,440	4,720	2,120	e2,170
4	5,700	7,140	2,600	2,940	e1,920	2,180	5,500	19,000	6,550	5,330	1,990	e2,160
5	4,390	7,050	2,670	2,500	e2,010	e2,450	5,390	19,800	6,850	4,890	3,880	e2,170
6	5,320	6,610	3,200	2,960	e2,060	2,380	6,150	20,700	5,430	3,700	4,650	e2,080
7	5,800	6,390	3,680	3,930	e2,090	2,300	7,070	21,300	6,500	4,310	2,180	e2,090
8	6,100	5,590	3,420	2,990	e2,130	2,500	9,750	20,100	7,960	4,830	1,470	e2,020
9	7,500	5,070	3,140	2,990	e2,140	2,460	11,700	18,300	9,450	3,340	2,620	e1,980
10	7,420	5,600	2,850	2,950	e2,140	2,350	12,900	16,700	10,500	3,790	2,800	e2,020
11	8,230	5,030	3,170	3,450	e2,130	2,380	12,700	15,000	11,100	1,610	2,040	e1,890
12	9,300	4,040	3,050	2,570	e2,120	2,300	14,400	14,500	8,450	3,740	1,950	e2,050
13	8,310	e4,270	3,070	3,090	e2,120	2,560	12,800	13,900	10,300	5,330	1,720	e2,280
14	9,600	e4,210	2,830	2,960	e2,110	2,600	10,200	14,400	12,300	3,460	2,360	2,560
15	8,480	e4,180	3,000	2,460	e2,110	2,600	11,200	12,800	14,400	3,030	3,230	2,990
16	8,040	4,190	2,800	2,630	e2,090	2,800	11,900	12,900	16,100	3,550	2,390	4,450
17	7,810	4,090	2,730	2,800	e2,100	2,890	11,900	12,500	15,200	3,470	2,020	3,490
18	6,600	e3,980	2,630	2,720	e2,080	3,120	13,100	12,100	14,500	3,300	2,060	3,180
19	6,800	3,950	2,740	2,770	e2,080	3,070	13,800	11,400	12,900	4,050	1,860	3,220
20	8,360	e3,900	2,820	2,870	e2,090	2,940	15,400	10,500	12,000	3,260	1,760	3,850
21	9,460	e3,800	e2,770	2,490	e2,090	2,510	15,200	10,000	11,600	4,490	1,410	3,800
22	12,500	3,710	e2,820	2,110	e2,100	3,250	14,500	9,140	10,500	4,490	1,360	3,300
23	14,300	3,220	3,070	e2,040	e2,090	3,750	15,200	8,640	9,660	3,430	2,460	2,690
24	14,800	e3,160	2,450	1,920	e2,090	3,540	15,600	8,020	9,960	3,300	2,550	2,190
25	14,100	e3,190	2,840	e1,880	e2,100	3,770	16,600	7,630	9,720	3,440	2,430	3,800
26	13,100	e3,190	3,080	e1,860	e2,110	3,640	18,400	7,760	9,040	3,400	2,190	3,570
27	13,200	3,560	2,780	e1,840	e2,130	3,060	18,400	7,260	8,530	3,530	1,990	3,780
28	12,800	3,360	2,580	e1,830	e2,140	3,260	20,300	7,200	6,410	3,090	1,600	3,420
29	12,000	2,730	3,060	e1,880	e2,280	3,930	21,700	7,560	7,420	2,360	3,020	4,180
30	11,200	2,470	3,060	e1,920	---	4,280	22,300	5,560	5,720	2,300	2,640	3,740
31	9,380	---	3,330	e1,960	---	4,750	---	6,570	---	3,260	2,240	---
Total	274,360	143,950	89,330	80,620	60,500	90,310	377,940	411,640	288,020	118,160	72,890	84,880
Mean	8,850	4,798	2,882	2,601	2,086	2,913	12,600	13,280	9,601	3,812	2,351	2,829
Max	14,800	9,280	3,680	3,930	2,280	4,750	22,300	21,400	16,100	5,860	4,650	4,450
Min	3,360	2,470	2,270	1,830	1,920	1,910	4,350	5,560	5,430	1,610	1,360	1,590
Ac-ft	544,200	285,500	177,200	159,900	120,000	179,100	749,600	816,500	571,300	234,400	144,600	168,400
Cfsm	1.16	0.63	0.38	0.34	0.27	0.38	1.65	1.74	1.25	0.50	0.31	0.37
In.	1.33	0.70	0.43	0.39	0.29	0.44	1.84	2.00	1.40	0.57	0.35	0.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2007 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	8,850	4,798	2,882	2,601	2,086	2,913	12,600	13,280	9,601	3,812	2,351	3,218
Max	8,850	4,798	2,882	2,601	2,086	2,913	12,600	13,280	9,601	3,812	2,351	3,607
(WY)	(2008)	(2008)	(2008)	(2008)	(2008)	(2008)	(2008)	(2008)	(2008)	(2008)	(2008)	(2007)
Min	8,850	4,798	2,882	2,601	2,086	2,913	12,600	13,280	9,601	3,812	2,351	2,829
(WY)	(2008)	(2008)	(2008)	(2008)	(2008)	(2008)	(2008)	(2008)	(2008)	(2008)	(2008)	(2008)

05344490 ST. CROIX RIVER AT PRESCOTT, WI—Continued

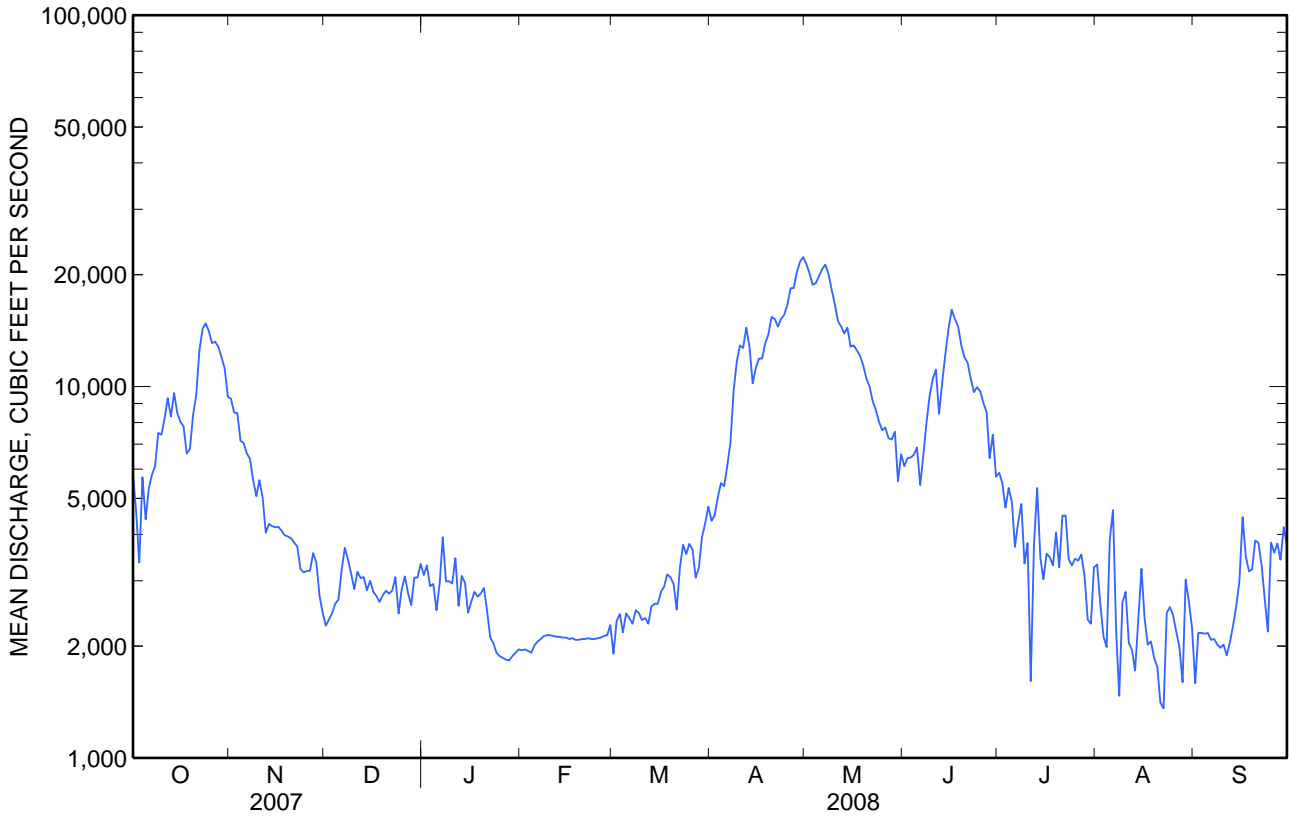
SUMMARY STATISTICS

	Water Year 2008		Water Years 2007 - 2008	
Annual total	2,092,600			
Annual mean	5,717		5,717	
Highest annual mean			5,717	2008
Lowest annual mean			5,717	2008
Highest daily mean	22,300	Apr 30	22,300	Apr 30, 2008
Lowest daily mean	^a 1,360	Aug 22	^a 1,360	Aug 22, 2008
Annual seven-day minimum	1,840	Aug 16	1,840	Aug 16, 2008
Maximum peak flow	^b 23,400	Apr 29	^b 23,400	Apr 29, 2008
Maximum peak stage	^c 33.10	May 7	^c 33.10	May 7, 2008
Instantaneous low flow	^a 2,990	Jul 11	^a 2,990	Jul 11, 2008
Annual runoff (ac-ft)	4,151,000		4,142,000	
Annual runoff (cfsm)	0.747		0.747	
Annual runoff (inches)	10.18		10.15	
10 percent exceeds	13,100		13,100	
50 percent exceeds	3,440		3,440	
90 percent exceeds	2,070		2,070	

^a Due in part to Mississippi River backflow from Lock and Dam 2 gate opening.

^b Gage height, 32.31 ft.

^c Variable backwater conditions.



05344490 ST. CROIX RIVER AT PRESCOTT, WI—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3,250	4,890	3,130	2,930	3,200	3,040	15,900	6,880	3,430	1,860	1,910	3,130
2	3,430	4,310	3,320	3,110	3,290	3,300	15,100	6,980	2,720	2,300	1,500	2,500
3	2,980	3,230	3,840	2,960	2,760	2,880	13,600	6,870	2,330	1,970	2,330	2,300
4	3,440	4,240	3,520	3,100	2,580	2,720	13,200	7,140	1,970	2,190	2,980	2,770
5	3,020	5,090	2,990	2,620	2,660	3,300	12,000	6,960	2,710	2,150	2,020	e2,370
6	3,260	4,910	3,180	2,680	2,910	3,490	11,200	6,650	2,580	1,950	2,060	2,470
7	3,080	4,650	2,570	2,730	3,490	2,970	10,400	7,010	1,670	1,610	1,290	1,890
8	4,430	5,280	2,720	2,590	2,840	3,630	9,430	6,730	2,270	1,430	235	1,770
9	6,420	4,770	2,550	3,060	2,570	3,220	9,190	6,490	2,570	-30	4,110	1,830
10	5,980	4,480	2,550	3,390	2,520	2,950	9,220	6,220	2,310	2,210	3,550	1,790
11	6,060	5,090	2,790	3,320	3,600	3,960	9,220	5,750	2,860	2,620	2,040	2,000
12	6,280	4,670	2,650	2,950	4,270	3,260	9,120	4,520	2,300	1,280	1,880	2,070
13	7,010	5,140	2,790	2,680	4,000	2,750	8,530	5,480	2,510	1,470	1,210	2,020
14	6,760	5,780	2,780	2,770	3,600	3,180	8,310	5,420	2,490	-5.5	1,440	e2,100
15	6,570	5,540	2,520	2,830	3,870	3,290	8,190	4,590	2,620	925	2,010	1,990
16	6,490	5,090	3,320	2,640	3,470	3,600	7,080	4,970	2,460	1,480	468	2,070
17	6,490	4,880	3,610	2,700	3,320	3,970	7,050	4,180	2,470	1,900	1,620	1,910
18	6,480	4,800	2,940	2,470	3,800	4,090	7,850	4,550	1,430	2,660	2,610	2,100
19	4,640	5,110	2,990	2,650	3,440	5,010	7,880	4,760	3,390	2,260	e2,100	2,090
20	5,360	4,170	2,770	2,690	3,250	6,220	7,310	4,330	3,040	1,710	1,580	1,640
21	5,010	3,940	2,720	2,830	3,320	6,970	7,590	5,310	2,320	1,640	4,670	1,370
22	4,220	4,000	3,200	3,250	3,370	7,380	7,470	5,200	1,370	1,870	5,650	1,510
23	3,820	3,710	3,430	3,140	3,160	7,610	6,420	5,000	3,470	2,380	6,470	1,550
24	3,890	2,040	2,820	2,500	2,880	6,630	7,470	4,670	2,490	2,310	6,390	1,990
25	4,840	4,110	2,640	2,810	3,510	5,790	6,830	3,800	2,690	2,660	e6,500	2,430
26	5,270	3,870	3,140	2,700	3,320	9,450	6,260	3,610	2,420	2,390	e7,300	1,820
27	4,400	2,420	3,190	2,790	3,200	14,000	6,860	4,100	2,820	2,650	6,860	1,730
28	4,240	3,100	2,900	2,370	2,850	17,400	6,400	3,970	2,560	2,340	e5,400	2,060
29	3,810	4,010	3,330	2,520	---	18,500	6,160	3,550	2,470	1,680	4,290	2,880
30	4,320	3,660	3,010	2,610	---	17,700	6,630	2,620	1,800	2,540	3,650	2,830
31	4,970	---	2,590	2,640	---	17,400	---	1,860	---	2,200	3,500	---
Total	150,220	130,980	92,500	87,030	91,050	199,660	267,870	160,170	74,540	58,599.5	99,623	62,980
Mean	4,846	4,366	2,984	2,807	3,252	6,441	8,929	5,167	2,485	1,890	3,214	2,099
Max	7,010	5,780	3,840	3,390	4,270	18,500	15,900	7,140	3,470	2,660	7,300	3,130
Min	2,980	2,040	2,520	2,370	2,520	2,720	6,160	1,860	1,370	-30	235	1,370
Ac-ft	298,000	259,800	183,500	172,600	180,600	396,000	531,300	317,700	147,900	116,200	197,600	124,900
Cfsm	0.63	0.57	0.39	0.37	0.43	0.84	1.17	0.68	0.32	0.25	0.42	0.27
In.	0.73	0.64	0.45	0.42	0.44	0.97	1.30	0.78	0.36	0.28	0.48	0.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2007 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6,848	4,582	2,933	2,704	2,659	4,677	10,760	9,223	6,043	2,851	2,782	2,845
Max	8,850	4,798	2,984	2,807	3,252	6,441	12,600	13,280	9,601	3,812	3,214	3,607
(WY)	(2008)	(2008)	(2009)	(2009)	(2009)	(2009)	(2008)	(2008)	(2008)	(2008)	(2009)	(2007)
Min	4,846	4,366	2,882	2,601	2,086	2,913	8,929	5,167	2,485	1,890	2,351	2,099
(WY)	(2009)	(2009)	(2008)	(2008)	(2008)	(2008)	(2009)	(2009)	(2009)	(2009)	(2008)	(2009)

05344490 ST. CROIX RIVER AT PRESCOTT, WI—Continued

SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 2007 - 2009	
Annual total	1,958,660		1,475,222.5			
Annual mean	5,352		4,042		4,881	
Highest annual mean					5,717	2008
Lowest annual mean					4,042	2009
Highest daily mean	22,300	Apr 30	18,500	Mar 29	22,300	Apr 30, 2008
Lowest daily mean	1,360	Aug 22	^a 30	Jul 9	^a 30	Jul 9, 2009
Annual seven-day minimum	1,840	Aug 16	1,210	Jul 9	1,210	Jul 9, 2009
Maximum peak flow			^b 19,500	Mar 28	23,400	Apr 29, 2008
Maximum peak stage			^c 33.94	Mar 31	33.94	Mar 31, 2009
Instantaneous low flow			^a 4,040	Aug 8	^a 4,040	Aug 8, 2009
Annual runoff (ac-ft)	3,885,000		2,926,000		3,536,000	
Annual runoff (cfsm)	0.700		0.528		0.638	
Annual runoff (inches)	9.52		7.17		8.67	
10 percent exceeds	12,800		6,970		10,400	
50 percent exceeds	3,440		3,200		3,300	
90 percent exceeds	2,060		1,890		2,000	

^a Due in part to Mississippi River backflow from Lock and Dam 2 gate opening.

^b Gage height, 33.54 ft.

^c Variable backwater conditions.

