

05340500 ST. CROIX RIVER AT ST. CROIX FALLS, WI

LOCATION.--Lat 45°24'25", long 92°38'49", in SW ¼ NW ¼ sec.30, T.34 N., R.18 W., Polk County, Hydrologic Unit 07030005, St. Croix National Scenic Riverway, on left bank, 1,500 ft downstream from powerplant of Northern States Power Co., in St. Croix Falls, and at mile 52.2.

DRAINAGE AREA.--6,240 mi².

PERIOD OF RECORD.--January 1902 to current year. Prior to January 1910, monthly discharge only, published in WSP 1308. Prior to October 1939, published as "near St. Croix Falls."

REVISED RECORDS.--WSP 1115: 1929. WDR WI-82-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 689.94 ft above NGVD of 1929. Prior to July 1905, gage heights and discharge measurements were used by Loweth and Wolff, consulting engineers of St. Paul, Minn., to determine the flow. July 1905 to February 1940, records were computed from power generation at the St. Croix Falls Powerplant. February 1940 to Sept. 30, 1979, water-stage recorder at site 300 ft downstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair (see page 11). Diurnal fluctuation caused by St. Croix Falls Powerplant 1,500 ft upstream. Gage-height telemeter and data-collection platform at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5,020	6,070	2,610	2,840	2,090	2,270	4,520	7,610	6,560	16,200	3,380	1,830
2	4,820	5,280	2,610	2,500	2,110	e2,100	4,550	7,110	6,190	13,600	3,450	1,830
3	4,760	5,390	2,000	e2,600	e2,200	2,150	4,420	6,500	5,960	13,300	3,520	1,930
4	5,490	5,300	2,260	2,410	e2,200	2,230	4,460	6,300	5,700	15,200	3,380	1,750
5	7,090	5,130	2,840	2,610	e2,300	e2,200	4,120	6,360	5,240	14,400	3,050	1,740
6	9,600	5,070	2,280	2,840	e2,300	e2,200	4,270	7,170	4,960	12,900	3,310	1,770
7	11,300	4,890	2,760	2,900	e2,200	2,220	4,170	9,820	5,010	11,400	3,150	1,800
8	12,100	4,670	3,260	2,970	e2,300	2,280	3,890	10,900	5,240	10,300	2,930	1,840
9	12,200	5,120	2,900	3,060	e2,200	e2,000	3,710	11,500	5,180	10,200	2,920	1,780
10	11,900	4,820	3,440	3,030	e2,100	e2,100	3,750	13,900	5,390	9,420	2,640	1,720
11	11,400	4,840	3,270	2,480	e2,300	2,180	3,750	17,200	6,040	8,990	2,660	1,690
12	10,700	4,840	3,330	2,220	2,480	2,180	3,760	21,800	8,480	9,100	2,630	2,340
13	10,100	4,430	3,260	2,220	2,220	2,220	3,830	22,200	8,910	8,760	2,720	2,940
14	9,610	4,690	3,360	2,150	2,310	2,320	3,730	21,200	8,440	8,320	2,420	2,560
15	9,070	4,410	3,390	2,040	2,440	2,340	3,760	19,600	7,830	8,150	2,360	2,800
16	8,200	4,340	3,240	2,180	2,100	3,220	5,170	17,600	7,140	7,600	2,350	2,410
17	7,770	4,260	3,180	2,090	2,090	3,170	6,370	15,400	6,700	7,170	2,110	2,430
18	7,600	4,130	3,240	2,090	2,260	3,800	8,010	13,600	5,540	6,760	2,470	2,640
19	7,290	4,120	3,340	2,190	2,080	3,820	9,290	12,700	5,520	6,080	2,220	2,710
20	7,020	4,110	3,420	2,280	2,460	4,250	11,400	13,400	5,200	5,980	2,250	3,080
21	6,930	4,030	3,520	2,190	2,160	4,550	14,200	14,900	4,360	5,450	1,960	3,340
22	6,870	3,990	3,280	2,080	2,260	4,980	16,100	16,100	4,470	5,240	2,130	3,460
23	6,710	3,950	3,240	2,150	2,340	5,050	17,000	15,700	4,200	4,890	1,990	3,260
24	6,240	3,950	2,970	2,080	e2,300	5,730	16,100	13,900	8,710	4,500	2,100	2,850
25	6,230	3,650	2,860	2,020	e2,200	6,070	14,600	12,400	18,000	4,020	2,040	2,640
26	6,210	2,970	2,910	1,900	2,110	5,880	12,600	11,000	19,500	4,130	2,100	2,810
27	6,220	3,390	2,580	2,020	2,340	6,220	11,100	9,290	19,300	3,740	2,110	2,630
28	6,210	2,820	2,800	1,890	2,190	5,250	10,000	8,540	18,600	3,890	2,100	2,770
29	6,140	3,570	2,850	2,020	---	4,990	8,910	7,820	17,500	3,670	1,940	2,530
30	5,540	3,660	3,090	2,110	---	4,430	8,240	7,300	17,100	3,250	1,930	2,440
31	5,730	---	3,110	2,120	---	4,710	---	6,880	---	3,410	1,750	---
TOTAL	242,070	131,890	93,200	72,280	62,640	109,110	229,780	385,700	256,970	250,020	78,070	72,320
MEAN	7,809	4,396	3,006	2,332	2,237	3,520	7,659	12,440	8,566	8,065	2,518	2,411
MAX	12,200	6,070	3,520	3,060	2,480	6,220	17,000	22,200	19,500	16,200	3,520	3,460
MIN	4,760	2,820	2,000	1,890	2,080	2,000	3,710	6,300	4,200	3,250	1,750	1,690
CFSM	1.25	0.70	0.48	0.37	0.36	0.56	1.23	1.99	1.37	1.29	0.40	0.39
IN.	1.44	0.79	0.56	0.43	0.37	0.65	1.37	2.30	1.53	1.49	0.47	0.43

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1902 - 2003, BY WATER YEAR (WY)

MEAN	3,775	3,506	2,604	2,198	2,170	4,232	10,330	7,547	5,732	4,214	2,942	3,501
MAX	14,270	11,910	5,821	4,279	6,021	14,420	29,600	21,840	19,510	17,260	9,777	14,590
(WY)	(1969)	(1972)	(1984)	(1984)	(1984)	(1945)	(2001)	(1950)	(1944)	(1952)	(1955)	(1941)
MIN	1,380	1,342	1,288	1,157	1,257	1,538	2,212	2,430	1,481	1,014	839	1,152
(WY)	(1933)	(1911)	(1911)	(1911)	(1913)	(1912)	(1902)	(1934)	(1934)	(1934)	(1934)	(1933)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1902 - 2003	
ANNUAL TOTAL	2,191,780		1,984,050			
ANNUAL MEAN	6,005		5,436		4,409	
HIGHEST ANNUAL MEAN					8,569 1986	
LOWEST ANNUAL MEAN					1,754 1934	
HIGHEST DAILY MEAN	32,300	Apr 15,16	22,200	May 13	59,500	Apr 26, 2001
LOWEST DAILY MEAN	1,940	Feb 7	1,690	Sep 11	75	Jul 17, 1910
ANNUAL SEVEN-DAY MINIMUM	2,260	Feb 6	1,760	Sep 5	754	Jul 29, 1934
MAXIMUM PEAK FLOW			22,600	May 12	60,900	Apr 25, 2001
MAXIMUM PEAK STAGE			11.15	May 12	25.88	Apr 25, 2001
ANNUAL RUNOFF (CFSM)	0.96		0.87		0.71	
ANNUAL RUNOFF (INCHES)	13.07		11.83		9.60	
10 PERCENT EXCEEDS	11,300		12,000		8,990	
50 PERCENT EXCEEDS	4,690		3,760		2,800	
90 PERCENT EXCEEDS	2,510		2,100		1,580	

(e) Estimated due to ice effect or missing record

