

ST. CROIX RIVER BASIN--Continued
05340500 ST. CROIX RIVER AT ST. CROIX FALLS, WI

LOCATION.--Lat 45°24'25", long 92°38'49", in SW¹/₄NW¹/₄ 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 power plant 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 sea level. Prior to July 1905, gage heights and discharge measurements were used by Loweth and Wolff, consulting engineers of St. Paul, MN, to determine the flow. July 1905 to February 1940, records were computed from power generation at the St. Croix Falls power plant. 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. Diurnal fluctuation caused by St. Croix Falls Powerplant 1,500 ft upstream.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,550	3,120	2,910	2,540	2,050	2,660	14,000	7,220	16,900	3,220	3,570	3,010
2	2,370	3,420	2,860	2,840	2,090	2,790	13,400	6,850	20,400	2,960	3,680	2,800
3	2,400	3,300	2,470	2,510	2,200	2,990	12,700	6,460	21,400	2,980	3,760	2,620
4	2,470	3,170	2,710	2,570	2,020	2,870	11,700	6,360	19,900	2,980	3,560	2,300
5	2,430	3,330	3,080	2,690	2,270	3,170	10,900	4,930	17,500	2,910	3,200	2,610
6	2,220	3,140	3,070	2,220	2,240	3,100	10,100	4,930	16,000	3,230	2,710	3,450
7	2,320	2,970	2,950	1,970	2,230	3,090	9,280	4,810	15,200	3,170	2,490	3,840
8	2,330	2,160	2,960	1,880	2,130	3,010	8,350	4,750	14,500	3,260	3,040	4,320
9	2,310	1,920	3,100	1,890	2,320	3,030	8,030	4,170	13,500	3,170	2,990	4,340
10	2,290	3,210	2,370	1,920	2,350	3,030	7,530	4,490	12,100	2,990	3,660	4,390
11	2,610	3,990	2,100	2,130	2,310	3,060	6,860	4,200	10,900	3,280	4,080	4,220
12	2,430	3,270	1,780	2,130	2,240	3,030	6,380	4,260	10,100	3,410	4,220	3,790
13	2,610	2,900	1,770	2,240	2,310	3,010	5,940	4,280	9,560	4,410	4,140	3,520
14	2,870	3,110	2,020	2,300	2,300	3,040	5,740	4,210	9,080	4,780	3,990	4,040
15	2,620	2,880	2,170	2,170	e2,200	2,890	5,460	4,170	8,320	4,750	3,560	3,950
16	2,310	3,000	2,680	2,410	2,050	2,670	5,240	4,030	7,820	4,480	3,550	4,260
17	2,720	2,830	2,700	2,210	2,360	2,920	4,910	5,080	7,450	4,010	3,440	4,340
18	2,360	3,410	2,690	2,220	2,180	2,970	4,790	6,420	6,960	3,650	3,040	4,510
19	2,280	3,040	2,870	2,160	2,330	2,980	6,290	7,640	6,450	3,150	2,880	4,550
20	2,830	3,240	2,510	2,090	2,430	3,340	8,060	8,170	5,800	2,790	2,830	4,190
21	2,200	3,170	2,500	2,020	2,350	3,540	9,410	7,600	5,540	3,770	2,820	4,240
22	2,400	3,080	2,710	2,070	2,280	3,500	10,700	7,530	4,720	3,740	2,400	4,210
23	2,420	3,100	2,610	2,090	2,450	3,530	12,300	7,360	4,390	3,410	2,200	4,440
24	2,530	1,880	2,570	2,070	2,410	4,060	12,200	7,660	4,390	2,970	2,330	4,620
25	2,620	1,830	2,540	1,820	2,400	4,690	11,400	7,570	4,100	2,620	2,330	4,790
26	2,510	2,220	2,550	2,090	2,330	5,140	10,600	7,610	3,840	2,740	2,890	4,870
27	2,500	2,680	2,610	2,070	2,350	5,820	10,000	9,220	3,850	2,580	2,850	4,810
28	3,080	3,270	3,130	2,200	2,470	8,710	9,550	10,300	3,770	2,570	2,760	4,590
29	2,760	3,180	2,730	e2,200	2,460	10,000	8,480	10,800	3,580	2,400	3,000	4,340
30	2,740	3,040	2,780	e2,000	---	12,400	7,800	10,200	3,450	2,770	2,940	3,920
31	3,180	---	2,850	2,090	---	14,100	---	12,600	---	3,460	2,790	---
TOTAL	78,270	88,860	81,350	67,810	66,110	135,140	268,100	205,880	291,470	102,610	97,700	119,880
MEAN	2,525	2,962	2,624	2,187	2,280	4,359	8,937	6,641	9,716	3,310	3,152	3,996
MAX	3,180	3,990	3,130	2,840	2,470	14,100	14,000	12,600	21,400	4,780	4,220	4,870
MIN	2,200	1,830	1,770	1,820	2,020	2,660	4,790	4,030	3,450	2,400	2,200	2,300
AC-FT	155,200	176,300	161,400	134,500	131,100	268,100	531,800	408,400	578,100	203,500	193,800	237,800
CFSM	0.40	0.47	0.42	0.35	0.37	0.70	1.43	1.06	1.56	0.53	0.51	0.64
IN.	0.47	0.53	0.48	0.40	0.39	0.81	1.60	1.23	1.74	0.61	0.58	0.71

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1902 - 2004, BY WATER YEAR (WY)

MEAN	3,687	3,503	2,569	2,163	2,146	4,234	10,470	7,482	5,701	4,193	2,926	3,384
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	1,287	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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1902 - 2004	
ANNUAL TOTAL	1,767,880		1,603,180			
ANNUAL MEAN	4,844		4,380		4,382	
HIGHEST ANNUAL MEAN					8,569 1986	
LOWEST ANNUAL MEAN					1,754 1934	
HIGHEST DAILY MEAN	22,200	May 13	21,400	Jun 3	59,500	Apr 26, 2001
LOWEST DAILY MEAN	1,690	Sep 11	1,770	Dec 13	75	Jul 17, 1910
ANNUAL SEVEN-DAY MINIMUM	1,760	Sep 5	2,020	Jan 6	754	Jul 29, 1934
MAXIMUM PEAK FLOW			21,700		60,900	
MAXIMUM PEAK STAGE			10.79		25.88	
ANNUAL RUNOFF (AC-FT)	3,507,000		3,180,000		3,174,000	
ANNUAL RUNOFF (CFSM)	0.776		0.702		0.702	
ANNUAL RUNOFF (INCHES)	10.54		9.56		9.54	
10 PERCENT EXCEEDS	11,400		9,120		8,990	
50 PERCENT EXCEEDS	2,930		3,080		2,810	
90 PERCENT EXCEEDS	2,100		2,200		1,580	

e Estimated.

