

ST. CROIX RIVER BASIN--Continued

05340500 ST. CROIX RIVER AT ST. CROIX FALLS, WI
(National Water-Quality Assessment Program)

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 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2360	2920	4300	2700	2510	2600	5210	9910	4190	5110	5110	4050
2	2200	2790	4130	2700	2400	2600	5540	8090	3920	4610	4960	5290
3	2100	2960	4110	2660	2300	2500	5190	7720	3840	4250	4600	6900
4	2180	2660	4070	2690	2400	2460	5450	7500	3700	3820	6080	7110
5	2410	2690	4240	2820	2400	2370	4890	7220	3720	3460	7150	6790
6	2140	2520	4680	2860	2230	2590	4860	7010	3430	3220	6590	7870
7	2090	2470	5430	2700	1940	2690	5180	6820	3620	3240	5930	7490
8	2150	2730	5490	2770	2220	2510	6150	7210	3570	4080	5500	7440
9	2220	2720	4950	2650	2410	2500	7040	9570	3630	7490	5190	7170
10	2420	2820	5050	2820	2240	2200	9310	12900	3550	11000	4990	7210
11	2380	2620	4840	2940	2450	2670	15100	15900	3700	13700	4880	7320
12	2600	2590	4760	2530	2300	2660	22900	17100	3800	16400	4330	7150
13	3000	2560	4510	3020	2440	2930	28300	17200	3610	17100	4540	6680
14	2500	2580	4130	2710	2510	2800	31500	17200	3470	15500	4320	6370
15	3120	2630	3920	2610	2530	2800	32300	16800	3250	13300	4340	6260
16	2900	2820	4190	2610	2290	2700	32300	15800	3260	11700	4240	5940
17	3010	2560	4180	2600	2400	2840	31300	14400	3180	10100	4140	5310
18	3100	2590	4100	2500	2530	3070	29100	13000	3100	8940	4810	5060
19	3070	3040	3840	2300	2620	3050	26200	11400	3340	8210	6230	4690
20	3000	2390	2900	2500	2920	3040	23800	9840	3400	7460	6790	4460
21	2780	2700	2410	2290	2850	3130	21700	8850	4100	6910	6670	4710
22	2630	2740	2880	2510	3070	2880	19500	8120	4830	6460	7010	4560
23	2780	2790	3210	2480	3040	3100	17200	7570	4850	6280	6770	4530
24	3070	3010	2650	2460	3210	2610	15100	7030	5240	5300	6810	4390
25	2740	3250	2010	2460	2970	2930	13200	6650	6280	5540	6470	4460
26	3030	3610	1870	2510	2990	2820	11700	5890	6900	5570	6070	4870
27	2950	3990	2450	2640	2730	2800	10500	5500	7130	5090	5380	5140
28	2940	3970	2560	2690	2900	3170	10100	5230	6920	5370	4880	5320
29	2790	4020	2560	2430	---	4050	9540	5100	6730	5780	4630	5210
30	2850	4330	2790	2300	---	4970	9430	4730	5930	5900	4320	5130
31	2810	---	2800	2470	---	5560	---	4320	---	5220	4210	---
TOTAL	82320	88070	116010	80930	71800	91600	469590	301580	130190	236110	167940	174880
MEAN	2655	2936	3742	2611	2564	2955	15650	9728	4340	7616	5417	5829
MAX	3120	4330	5490	3020	3210	5560	32300	17200	7130	17100	7150	7870
MIN	2090	2390	1870	2290	1940	2200	4860	4320	3100	3220	4140	4050
AC-FT	163300	174700	230100	160500	142400	181700	931400	598200	258200	468300	333100	346900
CFSM	0.43	0.47	0.60	0.42	0.41	0.47	2.51	1.56	0.70	1.22	0.87	0.93
IN.	0.49	0.53	0.69	0.48	0.43	0.55	2.80	1.80	0.78	1.41	1.00	1.04

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1902 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	3655	3499	2564	2161	2143	4240	10520	7439	5630	4162	2928	3388
MAX (WY)	14270	11910	5821	4279	6021	14420	29600	21840	19510	17260	9777	14590
MIN (WY)	1969	1972	1984	1984	1984	1945	2001	1950	1944	1952	1955	1941
MIN (WY)	1380	1342	1287	1157	1257	1538	2212	2430	1481	1014	839	1152
MIN (WY)	1933	1911	1911	1911	1913	1912	1902	1934	1934	1934	1934	1933

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1902 - 2002
ANNUAL TOTAL	2227060	2011020	
ANNUAL MEAN	6102	5510	4370
HIGHEST ANNUAL MEAN			8569
LOWEST ANNUAL MEAN			1754
HIGHEST DAILY MEAN	59500	Apr 26	59500
LOWEST DAILY MEAN	1770	Aug 29	75
ANNUAL SEVEN-DAY MINIMUM	2070	Feb 26	754
MAXIMUM PEAK FLOW			60900
MAXIMUM PEAK STAGE			25.88
ANNUAL RUNOFF (AC-FT)	4417000	3989000	3166000
ANNUAL RUNOFF (CFSM)	0.98	0.88	0.70
ANNUAL RUNOFF (INCHES)	13.28	11.99	9.52
10 PERCENT EXCEEDS	12000	9990	8960
50 PERCENT EXCEEDS	2760	3990	2790
90 PERCENT EXCEEDS	2170	2460	1580

e Estimated.

