

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1810	3000	3980	2340	2130	2060	3220	28900	7650	4940	2970	2250
2	1720	3450	3380	2180	e2100	1990	3700	25300	6920	4820	3240	2560
3	1650	3800	2330	2290	e2200	2460	4390	21900	6790	4100	3140	2400
4	1510	4020	2330	2390	2250	1930	4630	18700	6200	3700	3430	2180
5	1630	3920	2410	2170	2320	2230	5990	16100	5700	3930	3290	1960
6	1670	4810	2250	2260	2160	2250	6740	14300	5610	3610	3430	2110
7	1730	5230	2300	2260	2250	2290	11800	13700	5040	2940	2840	2410
8	1670	6270	2120	2330	2190	2300	18600	13400	5130	3280	2790	2620
9	1700	8190	2280	2280	2220	2340	28000	12400	4780	3030	2490	2360
10	1630	8690	2560	2230	2390	2240	35100	11600	4990	2760	2340	2710
11	1700	8060	e2500	2280	2420	2360	38300	11600	5230	2650	2360	2760
12	1680	7350	e2600	2360	2290	2370	39300	11100	5920	2490	2430	2670
13	1730	7070	2710	2270	1920	2220	41700	9930	5860	2670	2450	2340
14	1750	7170	2300	2360	2260	2230	44000	8960	6660	2580	2070	2540
15	1790	7330	2450	2300	2130	2290	43100	8660	6960	1850	2090	2380
16	1820	7110	2560	2400	2300	2420	39300	8270	8990	2120	2510	2370
17	1960	6640	2570	2100	e2100	2690	35200	7020	9380	2550	2420	2400
18	1990	6270	2640	2330	e2200	2300	31300	6680	10200	2710	2560	2240
19	1910	5760	2430	e2300	2290	2590	27500	6290	12400	2500	2900	2300
20	1950	4830	2310	e2200	2010	2500	24300	5840	12500	2680	3120	2510
21	1890	3560	2510	2180	2150	2670	21900	5770	13300	2790	2930	2310
22	1870	3090	2330	2490	2100	3080	21800	6600	12800	2600	2820	2380
23	1850	3410	2530	2060	2130	3030	29400	7780	11700	3050	2480	2810
24	1870	3430	2470	2000	2260	3210	44000	9480	10400	2930	2450	2420
25	2310	3650	2390	2300	2170	3080	56700	10300	9470	2400	2220	2320
26	2330	3820	2330	2190	2020	3060	59500	11000	8620	2380	2530	2350
27	2370	3920	e2200	2530	2030	3120	52700	10700	7420	2640	2690	2320
28	2810	3970	e2300	1990	1970	3050	44400	10600	6970	2640	2250	2620
29	2650	4320	e2200	2230	---	3040	38300	10100	6420	2790	1770	2150
30	2660	4170	e2100	2210	---	3170	33200	9200	5290	2740	3050	1960
31	2750	---	e2200	2230	---	3470	---	8210	---	2540	2680	---
TOTAL	60360	156310	76570	70040	60960	80040	888070	360390	235300	91410	82740	71710
MEAN	1947	5210	2470	2259	2177	2582	29600	11630	7843	2949	2669	2390
MAX	2810	8690	3980	2530	2420	3470	59500	28900	13300	4940	3430	2810
MIN	1510	3000	2100	1990	1920	1930	3220	5770	4780	1850	1770	1960
AC-FT	119700	310000	151900	138900	120900	158800	1761000	714800	466700	181300	164100	142200
CFSM	.31	.83	.40	.36	.35	.41	4.74	1.86	1.26	.47	.43	.38
IN.	.36	.93	.46	.42	.36	.48	5.29	2.15	1.40	.54	.49	.43

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1902 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	3666	3505	2552	2157	2139	4253	10460	7415	5644	4126	2901	3362
MAX	14270	11910	5821	4279	6021	14420	29600	21840	19510	17260	9777	14590
(WY)	1969	1972	1984	1984	1984	1945	2001	1950	1944	1952	1955	1941
MIN	1380	1342	1287	1157	1257	1538	2212	2430	1481	1014	839	1152
(WY)	1933	1911	1911	1911	1913	1912	1902	1934	1934	1934	1934	1933

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1902 - 2001
ANNUAL TOTAL	1277660	2233900	
ANNUAL MEAN	3491	6120	4358
HIGHEST ANNUAL MEAN			8569
LOWEST ANNUAL MEAN			1754
HIGHEST DAILY MEAN	8690	Nov 10	59500
LOWEST DAILY MEAN	1510	Oct 4	1510
ANNUAL SEVEN-DAY MINIMUM	1650	Oct 4	1650
MAXIMUM PEAK FLOW			60900
MAXIMUM PEAK STAGE			25.88
ANNUAL RUNOFF (AC-FT)	2534000	4431000	3157000
ANNUAL RUNOFF (CFSM)	.56		.98
ANNUAL RUNOFF (INCHES)	7.62		13.32
10 PERCENT EXCEEDS	6270		12000
50 PERCENT EXCEEDS	2960		2620
90 PERCENT EXCEEDS	1800		2800

e Estimated.

