

## 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 SW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> 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 mi<sup>2</sup>.

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 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3600	4730	3070	2480	1860	7980	5670	4080	2920	2500	3830	2740
2	3460	4680	3380	2290	e1800	7880	5400	3910	2910	2520	2970	1820
3	3040	4610	2940	2400	e1700	7820	5020	3890	3070	2560	3000	2010
4	3220	4470	2930	2290	e1800	8160	4920	3530	3080	2500	3070	1860
5	2940	4460	3100	2390	2070	7470	4620	3350	3440	2270	2460	1900
6	3050	3990	2830	2220	2010	6970	4870	3650	3000	2280	2910	2140
7	2800	4070	2570	e2200	2040	6180	4800	3320	2960	1730	2390	2330
8	2910	3690	2890	1970	1990	5600	4580	3390	3060	2360	2320	1980
9	2930	3590	2960	2610	1850	6370	4300	3780	3010	3900	2330	1750
10	3110	3550	2830	1970	2070	7190	4250	5340	2670	6530	2690	2130
11	3090	3360	2560	2390	e1900	7980	4020	5950	2190	7960	2590	2410
12	3030	3530	2720	2160	e1800	7710	4090	6100	2360	8230	2280	2210
13	2980	3300	2530	2090	1890	6890	4010	6160	2410	7620	2260	2180
14	3010	3210	2370	2010	2140	6440	3810	6060	2260	7420	2010	1990
15	2990	3280	2980	2140	e1800	6240	3740	5570	2460	7080	2080	1780
16	3060	2950	1840	2220	e1900	6060	3870	5110	2550	6320	3640	1790
17	2870	2950	1080	2130	e1900	5560	3810	5060	2670	5990	5690	1790
18	3170	3140	1460	e2000	2010	4610	4100	5150	3060	5130	5590	1790
19	2640	3150	1710	e2000	1910	4640	3880	4680	3490	4580	4890	1790
20	2910	3190	1940	e2000	2080	4160	4180	4090	3490	4440	4610	1780
21	3290	2840	1900	e1900	2080	4040	4330	3770	3760	3940	3920	1640
22	2530	3140	e1700	e1800	2080	4270	5410	3750	4110	3370	3920	1680
23	2710	3060	e1800	e1900	2120	4290	5850	3370	4600	3080	3850	1760
24	2720	3390	e1900	e1800	2450	4620	6030	3650	4290	2760	3670	1740
25	2660	3340	e2000	1860	3030	4880	5780	3240	4080	2860	3220	1750
26	2900	3100	e2100	e1800	4660	6490	5770	2800	3830	3050	3400	1730
27	2790	3600	e2100	e1800	6140	6760	5310	3320	3550	3440	2700	1680
28	2610	3320	2240	e1800	6320	6770	4930	3400	3590	4050	3040	1710
29	2680	3280	2520	2090	7140	6670	4620	2800	3230	3580	2850	1730
30	2870	3090	2370	1600	---	6570	4500	3020	2980	4110	2490	1750
31	3350	---	2180	2030	---	6010	---	3170	---	3590	2490	---
TOTAL	91920	106060	73500	64340	74540	193280	140470	128460	95080	131750	99160	57340
MEAN	2965	3535	2371	2075	2570	6235	4682	4144	3169	4250	3199	1911
MAX	3600	4730	3380	2610	7140	8160	6030	6160	4600	8230	5690	2740
MIN	2530	2840	1080	1600	1700	4040	3740	2800	2190	1730	2010	1640
AC-FT	182300	210400	145800	127600	147900	383400	278600	254800	188600	261300	196700	113700
CFSM	.48	.57	.38	.33	.41	1.00	.75	.66	.51	.68	.51	.31
IN.	.55	.63	.44	.38	.44	1.15	.84	.77	.57	.79	.59	.34

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1902 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	3685	3487	2552	2156	2139	4271	10260	7371	5621	4138	2904	3372
MAX	14270	11910	5821	4279	6021	14420	22320	21840	19510	17260	9777	14590
(WY)	1969	1972	1984	1984	1984	1945	1952	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 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1902 - 2000
ANNUAL TOTAL	1625940	1255900	
ANNUAL MEAN	4455	3431	4338
HIGHEST ANNUAL MEAN			8569
LOWEST ANNUAL MEAN			1754
HIGHEST DAILY MEAN	14300	Apr 9	53900
LOWEST DAILY MEAN	1080	Dec 17	75
ANNUAL SEVEN-DAY MINIMUM	1660	Dec 17	754
INSTANTANEOUS PEAK FLOW		13300	Mar 6
INSTANTANEOUS PEAK STAGE		7.37	Mar 6
ANNUAL RUNOFF (AC-FT)	3225000	2491000	3143000
ANNUAL RUNOFF (CFSM)	.71	.55	.70
ANNUAL RUNOFF (INCHES)	9.69	7.49	9.45
10 PERCENT EXCEEDS	8250	5960	8990
50 PERCENT EXCEEDS	3590	3040	2800
90 PERCENT EXCEEDS	2190	1850	1570

e Estimated.

