

UPPER MISSISSIPPI RIVER MAIN STEM--Continued

05270700 MISSISSIPPI RIVER AT ST. CLOUD, MN

LOCATION.--Lat 45°32'50", long 94°08'44", in SE¹/₄SW¹/₄ sec. 1, T. 35 N., R. 31 W., Sherburne County, Hydrologic Unit 07010203, on left bank about 250 ft below the left downstream end of the City of St. Cloud hydropower dam and at mile 926.3 upstream from Ohio River.

DRAINAGE AREA.--13,320 mi² (approximately).

PERIOD OF RECORD.--October 1988 to current year.

GAGE.--Water-stage recorder. Datum of gage is 958.49 ft above sea level (NGVD of 1929).

REMARKS.--Records good except those for estimated daily discharge, which are poor. Flow partly regulated by power plants and reservoirs.

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	3250	6330	8100	e4940	e4520	e4350	e6080	32700	18900	12600	5390	3750
2	3030	6340	6660	e4940	e4510	e4350	e6330	31200	18500	11400	e5160	3840
3	2710	6930	6550	e4980	e4480	e4390	e7290	30100	17800	10800	4550	4020
4	3150	7180	6210	e5010	e4470	e4360	e7700	29000	17400	10300	4990	3620
5	3120	7730	5160	e5060	e4460	e4360	e8990	27700	16500	9360	4570	3550
6	3330	8880	4680	e5070	e4460	e4360	e10500	26800	16200	8900	4760	3460
7	3390	9280	4710	e5080	e4460	e4360	e12500	26200	15300	8640	4620	4250
8	3320	10300	5370	e5030	e4460	e4360	e18000	24800	14500	8570	4850	4280
9	3290	10800	4940	e4990	e4450	e4360	e27000	24500	13900	7870	4460	3650
10	3220	11500	e4690	e4980	e4450	e4400	e39000	23900	15100	6970	4360	3800
11	3350	11300	e3910	e4970	e4450	e4430	e42000	23200	14300	6000	4170	3600
12	3360	11600	e4420	e4980	e4450	e4420	e44000	22100	15200	6020	4350	3500
13	3400	11700	e4890	e5030	e4450	e4420	e43000	21400	15200	5790	4260	3680
14	3560	11700	e4960	e5070	e4470	e4440	e42000	20800	18400	5870	4210	3280
15	3490	12000	e5070	e5060	e4470	e4450	e40000	20100	23500	5420	4270	3380
16	3360	11900	e5140	e5030	e4470	e4640	e38000	19100	25900	5870	4670	3610
17	3340	11600	e5290	e4960	e4470	e4730	e37000	18300	28400	6460	4380	3810
18	3830	11300	e5340	e4910	e4470	e4830	e35500	17600	29300	5050	4500	3640
19	4030	11000	e5380	e4850	e4450	e4950	34400	16300	30500	4990	4160	3690
20	4380	10300	e5330	e4780	e4440	e5050	33100	16400	30300	5700	4300	4330
21	4260	7960	e5250	e4740	e4420	e5080	32200	17100	29200	5600	4420	3840
22	4280	7410	e5220	e4690	e4400	e5170	31700	17200	28200	5660	e4490	3980
23	4160	7100	e5120	e4670	e4400	e5210	35800	16000	26200	6060	4360	4260
24	4220	7710	e5050	e4650	e4390	e5280	39000	18100	24300	5480	4290	3690
25	4380	8370	e4990	e4640	e4370	e5350	39100	19200	22200	5670	4090	3670
26	4380	8320	e4970	e4620	e4370	e5410	38800	20600	20600	4900	3940	3750
27	4620	8110	e4920	e4610	e4370	e5570	37900	20600	18100	5140	3920	4250
28	4710	7750	e4910	e4590	e4350	e5630	36200	20900	16600	5820	3660	4130
29	4080	8370	e4920	e4570	---	e5720	34700	20700	15200	5510	3890	3680
30	5440	8490	e4920	e4550	---	e5850	33600	20300	13700	5220	4460	4110
31	5350	---	e4930	e4530	---	e5930	---	19800	---	5050	3680	---
TOTAL	117790	279260	162000	150580	124380	150210	891390	682700	609400	212690	136180	114100
MEAN	3800	9309	5226	4857	4442	4845	29710	22020	20310	6861	4393	3803
MAX	5440	12000	8100	5080	4520	5930	44000	32700	30500	12600	5390	4330
MIN	2710	6330	3910	4530	4350	4350	6080	16000	13700	4900	3660	3280
AC-FT	233600	553900	321300	298700	246700	297900	1768000	1354000	1209000	421900	270100	226300
CFSM	.29	.70	.39	.36	.33	.36	2.23	1.65	1.53	.52	.33	.29
IN.	.33	.78	.45	.42	.35	.42	2.49	1.91	1.70	.59	.38	.32

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	5777	6098	4793	4089	4023	6600	14350	12250	8679	8158	4875	4777
MAX	15680	9675	7434	5616	5796	10600	29710	22020	20310	16830	9687	9763
(WY)	1996	1996	1997	1997	1997	1995	2001	2001	2001	1993	1999	1999
MIN	3106	2953	2310	1927	1815	3860	6134	5653	3743	3930	1535	2297
(WY)	1993	1989	1991	1991	1990	1989	2000	1998	1992	1989	1989	1990

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1988 - 2001
ANNUAL TOTAL	2045920	3630680	
ANNUAL MEAN	5590	9947	7030
HIGHEST ANNUAL MEAN			9947
LOWEST ANNUAL MEAN			4615
HIGHEST DAILY MEAN	12000	Nov 15	44000
LOWEST DAILY MEAN	2150	Sep 12	2710
ANNUAL SEVEN-DAY MINIMUM	2580	Aug 10	3140
MAXIMUM PEAK FLOW			44300
MAXIMUM PEAK STAGE			10.99
INSTANTANEOUS LOW FLOW			1890a
ANNUAL RUNOFF (AC-FT)	4058000	7201000	5093000
ANNUAL RUNOFF (CFM)	.42	.75	.53
ANNUAL RUNOFF (INCHES)	5.71	10.14	7.17
10 PERCENT EXCEEDS	8890	26000	13000
50 PERCENT EXCEEDS	5110	5060	5600
90 PERCENT EXCEEDS	3100	3780	2770

a Due in part to regulation.
e Estimated.

