

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 fair to poor. Flow partly regulated by power plants and reservoirs.

DISCHARGE, in CFS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4080	5570	5560	e4440	e3750	e3670	7610	9790	5980	11300	8400	6190
2	e4000	5430	5960	e4520	e3720	e3590	7450	9050	5450	11000	7980	7270
3	e3970	5110	6440	e4600	e3680	e3540	7090	8430	5360	10500	8580	7160
4	3530	5420	5800	e4660	e3660	e3480	6780	8620	4760	9480	9340	6780
5	3630	5110	6380	e4770	e3640	e3420	6570	8300	4630	9640	8930	6660
6	3300	5260	6450	e4980	e3640	e3360	6370	7950	4520	8920	8660	9370
7	3270	5280	6560	e5100	e3620	e3310	6740	7860	4670	8460	8390	8290
8	3770	5060	6230	e5160	e3620	e3350	7290	8650	4090	9390	7780	7410
9	3720	4440	5600	e5150	e3610	e3390	7970	9910	4290	11400	7370	6790
10	3810	4820	6100	e5180	e3610	e3390	8840	10000	3810	15800	7010	7010
11	4040	4850	6290	e5170	e3600	e3400	10300	11100	3710	20000	6740	6830
12	4290	4920	6470	e5160	e3600	e3430	11700	11500	3520	21100	6540	6020
13	4140	5680	6150	e5190	e3600	e3440	12600	12000	3470	20000	6620	6190
14	4890	5370	5710	e5200	e3600	e3420	13400	12300	3350	19500	6370	5960
15	5070	4820	6030	e5210	e3600	e3370	13400	12800	3330	18700	6230	5530
16	5380	5100	6070	e5050	e3590	e3320	13500	12900	3050	17400	6270	5560
17	5350	4780	6730	e4340	e3590	e3300	13200	12500	2900	16500	6260	4970
18	5840	5170	7210	e4140	e3610	e3220	13100	12200	2610	15500	6480	5260
19	5530	4690	6020	e3970	e3690	e3300	13200	11500	3500	14500	6460	4890
20	5520	4360	5170	e4030	e3820	e3330	12700	11100	4400	13800	6520	4680
21	5540	4900	e4170	e4000	e3870	e3290	12900	9820	4220	12800	6980	4240
22	5350	4660	e4160	e4010	e3880	e3240	12200	9410	4450	12400	6730	4340
23	5670	4550	e4090	e4010	e3910	e3350	12100	8790	5190	11100	6310	3910
24	6190	5010	e3710	e4010	e3950	e3270	12100	7810	6900	10700	6270	3950
25	5910	5080	e3610	e4000	e4050	e3230	11400	7840	7180	10300	6900	4280
26	5160	5450	e3720	e3970	e3900	e3140	10400	7550	9030	9680	6300	4000
27	5130	5830	e3790	e3920	e3790	e3200	10400	7040	10900	9550	5920	3860
28	5690	5510	e3920	e3890	e3730	e3500	10100	6600	11500	9650	5440	4010
29	5570	5110	e4040	e3850	---	4630	9770	6430	12000	9060	6040	3940
30	6270	5260	e4200	e3810	---	6510	9340	5620	11600	9260	6140	4130
31	5540	---	e4360	e3790	---	7900	---	5820	---	8940	5950	---
TOTAL	149150	152600	166700	139280	103930	113290	310520	291190	164370	396330	215910	169480
MEAN	4811	5087	5377	4493	3712	3655	10350	9393	5479	12780	6965	5649
MAX	6270	5830	7210	5210	4050	7900	13500	12900	12000	21100	9340	9370
MIN	3270	4360	3610	3790	3590	3140	6370	5620	2610	8460	5440	3860
AC-FT	295800	302700	330600	276300	206100	224700	615900	577600	326000	786100	428300	336200
CFSM	0.36	0.38	0.40	0.34	0.28	0.27	0.78	0.71	0.41	0.96	0.52	0.42
IN.	0.42	0.43	0.47	0.39	0.29	0.32	0.87	0.81	0.46	1.11	0.60	0.47

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	5708	6026	4835	4118	4001	6389	14060	12050	8451	8489	5024	4835
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	3655	6134	5653	3743	3930	1535	2297
(WY)	1993	1989	1991	1991	1990	2002	2000	1998	1992	1989	1989	1990

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1988 - 2002
ANNUAL TOTAL	3540080	2372750	
ANNUAL MEAN	9699	6501	6992
HIGHEST ANNUAL MEAN			9947
LOWEST ANNUAL MEAN			4615
HIGHEST DAILY MEAN	44000	Apr 12	21100
LOWEST DAILY MEAN	3270	Oct 7	2610
ANNUAL SEVEN-DAY MINIMUM	3550	Sep 10	3170
MAXIMUM PEAK FLOW			22200a
MAXIMUM PEAK STAGE			8.06a
INSTANTANEOUS LOW FLOW			1600a
ANNUAL RUNOFF (AC-FT)	7022000	4706000	5066000
ANNUAL RUNOFF (CFSM)	0.73	0.49	0.52
ANNUAL RUNOFF (INCHES)	9.89	6.63	7.13
10 PERCENT EXCEEDS	26000	11500	12800
50 PERCENT EXCEEDS	5080	5450	5600
90 PERCENT EXCEEDS	3920	3540	2790

a Due to regulation.
e Estimated.

