

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. Flow partly regulated by power plants and reservoirs.

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	8790	7320	6220	e4750	e4200	8910	6670	5360	5570	6240	4110	2880
2	9490	7190	6650	e4800	e4200	9040	6890	5200	5560	6540	3870	2870
3	8820	7520	6790	e4800	e4100	9230	6540	5530	5290	6000	3450	2590
4	8670	7410	6690	e4750	e4000	9950	6340	5120	5490	5730	3370	3000
5	9250	7400	6540	e4750	e3900	9490	6490	5240	5400	5890	3270	2810
6	8830	6980	6440	e4800	e3800	9720	6050	5190	5050	5910	3460	2940
7	8350	7050	6280	e4800	e3700	9190	6260	5240	5200	5330	3120	3070
8	8690	7040	6210	e4850	e3700	9110	6530	5830	5100	5940	3070	3070
9	8560	7100	5860	e4850	e3700	10000	7110	6650	4670	7840	2980	2940
10	8730	7060	5890	e4850	e3700	10300	6620	7960	4250	8740	2790	3870
11	8430	6920	6350	e4800	e3700	10400	6450	9420	3670	8180	2510	3620
12	8390	6790	5700	e4800	e3700	10500	6420	10000	3790	8080	2700	2150
13	7880	6950	5390	e4800	e3600	9300	6600	10600	3700	8040	2580	3460
14	7940	6970	5650	e4800	e3600	8170	6680	10600	3810	7490	2620	2990
15	8200	6670	5700	e4800	e3600	8290	6520	10900	4680	7580	2540	3280
16	7930	6550	4770	e4800	e3600	7880	5750	10800	4830	7430	2300	3190
17	8100	6360	4520	e4700	e3600	7180	5970	10800	5350	6970	2880	2900
18	7940	6960	4200	e4600	e3600	6320	5340	9730	5890	6610	3170	2900
19	8440	6680	3530	e4500	e3600	6460	5840	9130	6260	6340	3480	3110
20	8100	6520	e3200	e4400	e3600	6600	5720	8740	7010	6060	3640	3180
21	7530	6790	e3000	e4200	e3700	6400	5800	8510	7070	5630	3800	2800
22	7740	6810	e2900	e4200	e3900	6160	5860	7850	7320	5220	3860	2510
23	7860	6980	e3300	e4200	e4200	6150	5860	7230	7340	4720	4160	3210
24	7560	6690	e4100	e4100	4310	6380	5930	6730	7370	4600	3810	2850
25	7770	6660	e4400	e4100	4890	6700	5820	6530	7380	4720	3260	2920
26	7370	6720	e4600	e4200	7310	7520	5860	6180	7390	4720	3780	2980
27	7480	6810	e4700	e4200	8290	7330	5900	5910	7750	4700	3160	3130
28	7500	6670	e4750	e4200	8060	7960	5690	6100	7690	4320	2740	3010
29	7560	6510	e4750	e4200	8800	7510	5030	5750	7140	4250	3060	2830
30	7830	6280	e4750	e4200	---	7330	5480	5810	6780	4080	2460	2890
31	7500	---	e4750	e4200	---	6580	---	5530	---	3950	3360	---
TOTAL	253230	206360	158580	141000	128660	252060	184020	230170	173800	187850	99360	89950
MEAN	8169	6879	5115	4548	4437	8131	6134	7425	5793	6060	3205	2998
MAX	9490	7520	6790	4850	8800	10500	7110	10900	7750	8740	4160	3870
MIN	7370	6280	2900	4100	3600	6150	5030	5120	3670	3950	2300	2150
AC-FT	502300	409300	314500	279700	255200	500000	365000	456500	344700	372600	197100	178400
CFSM	.61	.52	.38	.34	.33	.61	.46	.56	.43	.45	.24	.23
IN.	.71	.58	.44	.39	.36	.70	.51	.64	.49	.52	.28	.25

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	5941	5831	4757	4025	3988	6746	13070	11440	7710	8266	4915	4852
MAX	15680	9675	7434	5616	5796	10600	29600	19600	12730	16830	9687	9763
(WY)	1996	1996	1997	1997	1997	1995	1997	1999	1993	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 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1988 - 2000
ANNUAL TOTAL	3319620	2105040	
ANNUAL MEAN	9095	5751	6787
HIGHEST ANNUAL MEAN			9167
LOWEST ANNUAL MEAN			4615
HIGHEST DAILY MEAN	32700	May 17	45100
LOWEST DAILY MEAN	2900	Dec 22	1010
ANNUAL SEVEN-DAY MINIMUM	3460	Dec 18	1250
INSTANTANEOUS PEAK FLOW			46900
INSTANTANEOUS PEAK STAGE			11.44
INSTANTANEOUS LOW FLOW			484 ^b
ANNUAL RUNOFF (AC-FT)	6584000	4175000	4917000
ANNUAL RUNOFF (CFSM)	.68	.43	.51
ANNUAL RUNOFF (INCHES)	9.27	5.88	6.92
10 PERCENT EXCEEDS	15000	8430	12500
50 PERCENT EXCEEDS	8000	5800	5660
90 PERCENT EXCEEDS	4150	3100	2700

^a Due in part to regulation.
^b Result of regulation.
^e Estimated.

