

UPPER MISSISSIPPI RIVER BASIN

05270700 MISSISSIPPI RIVER AT ST. CLOUD, MN

LOCATION.--Lat 45° 32'50", long 94° 08'44", in SE¹/₄SW¹/₄sec. 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.

REMARKS.--Records fair.. Flow partly regulated by power plants and reservoirs.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
JUL	AUG	SEP							
1	3010	8230	8730	e6600	e5500	e5800	13700	18200	8000
10700	10700	5660							
2	2990	8500	7720	e6300	e5600	e5750	20500	17900	7850
12100	10900	5300							
3	3140	8570	7350	e6700	e5700	e5700	25500	17200	7240
11800	11500	5240							
4	2950	9220	8760	e6600	e5800	e5500	31700	16200	6990
12500	10400	4890							
5	3080	9660	8290	e6200	e5900	e5300	32800	16200	6580
13000	9700	4870							
6	2990	9470	8860	e5700	e5900	e5300	37200	15400	6220
13800	9430	4970							
7	2940	9160	8470	e5500	e5880	e5500	43200	15700	6110
14100	9210	4880							
8	3010	9590	8060	e5400	e5860	e5600	44900	14000	5960
14000	8180	4660							
9	3130	9500	8250	e5200	e5840	e5700	45100	12600	5410
13700	8330	4890							
10	3160	9240	8200	e5000	e5820	e5800	43700	14100	5740
13700	8040	4500							
11	3090	8910	8600	e4900	e5800	e5900	42300	13300	5740
13000	7710	4450							
12	2650	8080	8820	e4800	e5780	e5900	40200	13100	5260
12800	7330	4810							
13	3040	7450	8250	e4900	e5750	e5800	37900	12800	5170

13200	7010	4670							
14	2420	6060	7460	e5100	e5720	e5700	35100	12600	4690
12700	6960	4640							
15	3150	5380	6950	e5200	e5700	e5700	33400	12000	4930
13000	6630	4640							
16	2910	6390	7000	e5200	e5700	e5800	31600	11900	4740
13700	6520	4910							
17	3820	8240	6420	e5400	e5750	e5850	30200	11200	4890
13200	6330	5050							
18	4030	7150	6550	e5600	e5800	e5900	28400	11500	5000
13000	5990	4590							
19	3790	7740	6310	e5600	e5800	e5950	27800	11300	4800
12400	6350	5050							
20	5210	7990	e6800	e5600	e5830	e6000	26700	10400	4750
11600	7130	5000							
21	5440	7660	e6800	e5800	e5830	6050	e26000	9480	4290
11300	6470	4860							
22	5590	8240	e6900	e5800	e5870	6000	e23500	9800	4640
11000	5940	5230							
23	6160	8010	e6900	e5900	e5870	6000	e23000	9230	4500
10600	6380	5530							
24	5950	7650	e6900	e5800	e5900	5870	e22100	9580	4980
10000	6400	4990							
25	6140	7460	e6900	e5750	e5900	5950	21400	10100	5280
11000	6240	4910							
26	6370	7270	e6800	e5700	e5850	6020	21000	10100	5330
10500	6030	5330							
27	6430	7800	e6800	e5700	e5850	6300	20500	9780	5950
11100	6050	4830							
28	6240	7650	e6700	e5650	e5800	6830	19900	9290	7370
13000	6070	5070							
29	6920	8260	e6700	e5600	---	7360	19600	9890	7780
12300	6140	5220							
30	7610	8770	e6700	e5500	---	9410	19100	9300	9180
11900	5700	4890							
31	7930	---	e6500	e5400	---	11400	---	8900	---
11700	5670	---							
TOTAL	135290	243300	230450	174100	162300	191640	888000	383050	175370
382400	231440	148530							
MEAN	4364	8110	7434	5616	5796	6182	29600	12360	5846
12340	7466	4951							
MAX	7930	9660	8860	6700	5900	11400	45100	18200	9180
14100	11500	5660							
MIN	2420	5380	6310	4800	5500	5300	13700	8900	4290
10000	5670	4450							
AC-FT	268300	482600	457100	345300	321900	380100	1761000	759800	347800
758500	459100	294600							
CFSM	.33	.61	.56	.42	.44	.46	2.22	.93	.44
.93	.56	.37							
IN.	.38	.68	.64	.49	.45	.54	2.48	1.07	.49
1.07	.65	.41							

o e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1997, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	
JUL	AUG	SEP								
MEAN	5717	5515	4420	3921	3739	6660	14100	11620	7377	
8269	4729	4800								
MAX	15680	9675	7434	5616	5796	10600	29600	17250	12730	
16830	9079	7360								
(WY)	1996	1996	1997	1997	1997	1995	1997	1996	1993	
1993	1993	1988								
MIN	3106	2953	2310	1927	1815	3860	6576	6210	3743	
3930	1535	2297								
(WY)	1993	1989	1991	1991	1990	1989	1990	1992	1992	
1989	1989	1990								
<i>SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1988 - 1997</i>										
ANNUAL TOTAL				2959050				3345870		
ANNUAL MEAN				8085				9167	6725	
HIGHEST ANNUAL MEAN										
9167							1997			
LOWEST ANNUAL MEAN										
4615							1990			
HIGHEST DAILY MEAN				25500	Apr 22	45100	Apr 9	45100		
Apr 9 1997										
LOWEST DAILY MEAN				2120	Sep 18	2420	Oct 14	1010	Aug	
24 1989										
ANNUAL SEVEN-DAY MINIMUM				2410	Sep 18	2920	Oct 10	1250	Aug	
13 1989										
INSTANTANEOUS PEAK FLOW							46900	Apr 8	46900	
Apr 8 1997										
INSTANTANEOUS PEAK STAGE							11.44	Apr 8	11.44	
Apr 8 1997										
INSTANTANEOUS LOW FLOW							1280	Oct 16	484a	Oct
18 1992										
ANNUAL RUNOFF (AC-FT)				5869000				6637000	4872000	
ANNUAL RUNOFF (CFSM)				.61				.69	.50	
ANNUAL RUNOFF (INCHES)				8.26				9.34	6.86	
10 PERCENT EXCEEDS				17200				14600	13000	
50 PERCENT EXCEEDS				6440				6500	5500	
90 PERCENT EXCEEDS				2960				4850	2510	

o a Result of regulation.