

## 05270700 MISSISSIPPI RIVER AT ST. CLOUD, MN

LOCATION.--Lat 45°32'50", long 94°08'44", in SE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> 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 mi<sup>2</sup> (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, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7,740	7,980	4,820	4,320	e3,940	e3,690	13,100	9,850	15,800	12,000	4,640	2,700
2	6,950	8,050	4,790	4,340	e3,960	e3,690	14,500	9,400	15,200	12,000	4,310	2,550
3	7,280	8,090	4,680	e4,250	e3,990	e3,690	15,500	8,720	14,500	12,200	4,250	2,780
4	7,200	8,470	4,940	e4,230	e3,990	e3,720	15,000	8,560	14,300	11,600	4,190	2,560
5	7,140	7,960	4,540	e4,210	e3,970	e3,750	16,100	8,060	15,000	10,500	3,960	2,860
6	7,060	8,050	4,260	e4,160	e3,980	e3,770	17,100	7,870	14,800	10,400	3,600	3,240
7	6,990	7,830	4,710	e4,140	e3,970	e4,210	15,000	7,460	15,300	10,000	3,680	2,960
8	6,800	7,490	4,480	e4,090	e3,990	e4,080	14,800	7,010	16,300	9,630	3,520	3,150
9	6,440	7,640	5,120	e4,070	e3,990	e4,070	14,300	7,120	16,700	8,750	3,720	2,860
10	6,300	7,520	5,150	e4,050	e4,010	e4,210	14,400	6,830	17,500	8,310	3,450	2,690
11	6,070	7,130	5,480	e4,040	e4,020	e4,030	15,300	6,520	17,900	7,680	3,300	3,280
12	5,840	6,950	5,020	e4,020	e4,030	e3,980	16,700	6,670	19,300	7,630	3,490	3,500
13	6,030	6,610	4,050	e3,920	e4,050	e3,890	18,400	6,640	19,400	7,240	3,020	4,280
14	5,790	6,630	3,590	e3,700	e4,060	e3,840	18,900	7,110	20,000	6,570	2,870	4,410
15	5,690	6,720	3,650	e3,850	e4,040	e3,760	19,400	7,170	20,800	6,680	2,950	4,280
16	5,320	6,550	4,210	e4,000	e4,020	e3,720	19,200	6,840	21,100	6,010	2,640	4,540
17	5,390	6,750	4,090	e4,020	e3,990	e3,680	18,800	7,110	20,800	5,960	3,010	4,550
18	5,410	6,410	3,650	e4,020	e3,940	e3,700	18,500	7,500	20,200	5,470	3,470	4,560
19	5,640	6,290	3,940	e4,050	e3,900	3,720	17,900	7,910	18,800	5,400	3,000	4,960
20	5,550	6,610	2,640	e4,040	e3,870	3,780	17,600	7,700	17,900	5,490	2,910	4,580
21	5,490	6,630	4,010	e4,010	e3,830	3,850	16,800	7,730	17,500	5,030	2,890	4,470
22	5,310	6,560	4,450	e4,020	e3,810	3,850	16,300	8,520	16,400	5,270	2,820	4,230
23	5,790	6,720	4,400	e4,010	e3,790	4,420	15,300	8,450	16,700	5,180	2,310	3,890
24	5,650	6,820	4,340	e3,990	e3,770	4,860	14,000	8,310	15,900	4,930	2,070	3,830
25	5,600	6,340	4,030	e3,960	e3,760	5,230	13,600	9,130	15,100	4,860	2,420	4,130
26	6,520	5,840	4,100	e3,960	e3,740	5,490	13,000	10,600	13,900	5,130	3,630	4,000
27	6,280	5,980	4,230	e3,950	e3,720	6,080	11,900	11,800	13,100	4,470	3,020	3,990
28	6,680	6,160	3,910	e3,940	e3,700	7,220	11,100	14,000	12,100	4,690	2,670	3,990
29	7,040	5,980	4,380	e3,930	---	7,750	10,700	15,100	11,300	5,000	3,050	3,590
30	7,390	5,220	4,240	e3,930	---	9,850	10,400	15,600	11,600	4,470	2,590	3,720
31	7,580	---	4,450	e3,960	---	12,100	---	16,200	---	4,530	2,850	---
TOTAL	195,960	207,980	134,350	125,180	109,830	147,680	463,600	277,490	495,200	223,080	100,300	111,130
MEAN	6,321	6,933	4,334	4,038	3,922	4,764	15,450	8,951	16,510	7,196	3,235	3,704
MAX	7,740	8,470	5,480	4,340	4,060	12,100	19,400	16,200	21,100	12,200	4,640	4,960
MIN	5,310	5,220	2,640	3,700	3,700	3,680	10,400	6,520	11,300	4,470	2,070	2,550
AC-FT	388,700	412,500	266,500	248,300	217,800	292,900	919,600	550,400	982,200	442,500	198,900	220,400
CFSM	0.47	0.52	0.33	0.30	0.29	0.36	1.16	0.67	1.24	0.54	0.24	0.28
IN.	0.55	0.58	0.38	0.35	0.31	0.41	1.29	0.77	1.38	0.62	0.28	0.31

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2005, BY WATER YEAR (WY)

MEAN	5,554	5,813	4,624	3,954	3,808	5,976	13,310	11,250	8,800	8,258	4,613	4,610
MAX	15,680	9,675	7,434	5,616	5,796	10,600	29,710	22,020	20,310	16,830	9,687	9,763
(WY)	(1996)	(1996)	(1997)	(1997)	(1997)	(1995)	(2001)	(2001)	(2001)	(1993)	(1999)	(1999)
MIN	1,922	2,370	2,310	1,927	1,815	3,075	6,134	5,054	3,743	3,606	1,535	2,064
(WY)	(2004)	(2004)	(1991)	(1991)	(1990)	(2003)	(2000)	(2004)	(1992)	(2004)	(1989)	(2003)

05270700 MISSISSIPPI RIVER AT ST. CLOUD, MN—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1988 - 2005	
ANNUAL TOTAL	1,686,930		2,591,780		6,708	
ANNUAL MEAN	4,609		7,101		3,723	
HIGHEST ANNUAL MEAN					9,947	2001
LOWEST ANNUAL MEAN					3,723	2004
HIGHEST DAILY MEAN	8,910	Jun 5	21,100	Jun 16	45,100	Apr 9, 1997
LOWEST DAILY MEAN	1,190	Aug 21	2,070	Aug 24	1,010	Aug 24, 1989
ANNUAL SEVEN-DAY MINIMUM	1,400	Aug 29	2,630	Aug 19	1,250	Aug 13, 1989
MAXIMUM PEAK FLOW			a22,100	Jun 14	46,900	Apr 8, 1997
MAXIMUM PEAK STAGE			8.04	Jun 14	11.44	Apr 8, 1997
INSTANTANEOUS LOW FLOW			a1,600	Aug 24	b478	Aug 22, 2004
ANNUAL RUNOFF (AC-FT)	3,346,000		5,141,000		4,860,000	
ANNUAL RUNOFF (CFSM)	0.346		0.533		0.504	
ANNUAL RUNOFF (INCHES)	4.71		7.24		6.84	
10 PERCENT EXCEEDS	7,510		15,300		12,600	
50 PERCENT EXCEEDS	4,360		5,150		5,360	
90 PERCENT EXCEEDS	2,120		3,590		2,550	

- a Due in part to regulation.
- b Due to rgulation.
- e Estimated.

