

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, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,980	2,560	2,940	e2,350	e2,230	2,730	8,670	5,320	7,280	3,350	1,920	1,400
2	1,730	2,230	2,700	e2,510	e2,230	2,810	8,840	5,620	7,310	3,640	2,490	1,220
3	1,900	2,450	3,010	e2,410	e2,180	2,900	8,540	5,180	8,040	3,160	2,170	1,300
4	1,710	2,410	2,940	e2,310	e2,180	3,030	8,080	4,890	8,540	3,060	2,210	1,350
5	1,650	2,360	3,100	e2,290	e2,180	3,430	8,380	4,740	8,910	3,300	2,190	1,590
6	1,760	2,490	2,910	e2,210	e2,190	3,740	8,750	5,030	8,900	3,740	2,120	3,510
7	1,780	1,990	2,820	e2,210	e2,200	3,010	7,550	4,350	8,740	3,970	2,180	3,580
8	1,810	1,970	3,150	e2,140	e2,200	3,310	7,500	4,160	8,790	4,060	1,870	2,830
9	1,890	1,730	3,190	e2,210	e2,180	2,960	7,650	3,640	8,900	4,030	1,840	3,350
10	1,760	1,680	e2,040	2,180	e2,180	3,220	7,780	4,120	8,340	4,370	2,060	4,100
11	1,920	2,210	e2,020	2,220	e2,180	2,740	7,430	3,190	8,120	4,640	1,840	4,210
12	1,870	2,700	e2,120	2,240	e2,220	2,780	7,450	3,590	8,280	4,350	1,880	3,910
13	2,010	2,810	2,450	2,190	e2,210	3,440	7,260	3,480	7,540	4,690	2,110	4,090
14	1,940	2,690	2,960	2,430	e2,160	3,230	7,070	3,180	7,290	4,410	2,040	4,490
15	1,290	2,420	2,480	2,360	e2,170	3,190	6,720	3,310	7,150	5,240	1,820	4,330
16	1,350	2,730	2,190	2,320	e2,210	3,090	6,540	4,130	6,820	5,030	1,780	4,110
17	2,180	2,940	2,680	2,200	e2,270	e3,420	6,260	4,910	6,550	4,680	1,770	4,590
18	2,170	2,970	2,450	2,070	e2,270	e3,700	6,180	4,830	6,300	4,330	1,910	5,230
19	2,200	2,930	2,660	2,080	e2,520	e4,000	5,860	4,780	5,610	4,210	1,820	5,490
20	2,020	2,840	2,710	2,280	2,610	e4,250	5,970	5,560	5,580	3,980	1,740	5,660
21	1,710	2,720	2,750	2,260	2,650	e4,450	6,680	5,620	5,130	3,590	1,190	5,940
22	1,820	2,600	2,910	e2,140	e2,800	e4,750	7,290	5,470	5,240	3,620	1,410	5,950
23	1,960	e2,470	2,820	e1,890	2,760	e5,000	7,140	6,110	5,050	3,220	1,460	6,800
24	1,820	e1,690	2,560	e2,030	2,640	4,820	7,340	6,150	4,350	2,880	1,250	6,920
25	2,130	e1,470	2,660	e2,200	e2,580	5,010	7,460	5,560	4,340	2,230	1,550	7,220
26	1,960	1,320	2,660	e2,280	e2,490	5,470	6,890	5,850	4,280	2,500	1,900	7,720
27	1,980	1,660	2,890	e2,170	2,410	6,260	6,380	6,640	4,100	2,700	1,620	7,550
28	2,260	2,600	2,900	e2,130	2,670	7,210	6,410	6,310	3,770	2,390	1,410	7,490
29	2,030	2,580	2,610	e2,150	2,600	8,180	6,220	6,540	3,710	2,080	1,440	7,430
30	2,400	2,880	e2,490	e2,120	---	8,620	5,970	7,070	3,640	2,290	1,480	7,430
31	2,590	---	e2,430	e2,190	---	8,570	---	7,330	---	2,060	1,600	---
TOTAL	59,580	71,100	83,200	68,770	68,370	133,320	216,260	156,660	196,600	111,800	56,070	140,790
MEAN	1,922	2,370	2,684	2,218	2,358	4,301	7,209	5,054	6,553	3,606	1,809	4,693
MAX	2,590	2,970	3,190	2,510	2,800	8,620	8,840	7,330	8,910	5,240	2,490	7,720
MIN	1,290	1,320	2,020	1,890	2,160	2,730	5,860	3,180	3,640	2,060	1,190	1,220
AC-FT	118,200	141,000	165,000	136,400	135,600	264,400	429,000	310,700	390,000	221,800	111,200	279,300
CFSM	0.14	0.18	0.20	0.17	0.18	0.32	0.54	0.38	0.49	0.27	0.14	0.35
IN.	0.17	0.20	0.23	0.19	0.19	0.37	0.60	0.44	0.55	0.31	0.16	0.39

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2004, BY WATER YEAR (WY)

MEAN	5,506	5,743	4,642	3,949	3,801	6,052	13,180	11,400	8,318	8,324	4,699	4,664
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)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1988 - 2004	
ANNUAL TOTAL	1,689,560		1,362,520		6,684	
ANNUAL MEAN	4,629		3,723		3,723	
HIGHEST ANNUAL MEAN					9,947 2001	
LOWEST ANNUAL MEAN					3,723 2004	
HIGHEST DAILY MEAN	19,600	Jun 29	8,910	Jun 5	45,100	Apr 9, 1997
LOWEST DAILY MEAN	1,290	Oct 15	1,190	Aug 21	1,010	Aug 24, 1989
ANNUAL SEVEN-DAY MINIMUM	1,730	Oct 10	1,400	Aug 29	1,250	Aug 13, 1989
MAXIMUM PEAK FLOW			a9,750	Jun 5	46,900	Apr 8, 1997
MAXIMUM PEAK STAGE			6.09	Jun 5	11.44	Apr 8, 1997
INSTANTANEOUS LOW FLOW			b478	Aug 22	b478	Aug 22, 2004
ANNUAL RUNOFF (AC-FT)	3,351,000		2,703,000		4,842,000	
ANNUAL RUNOFF (CFSM)	0.348		0.279		0.502	
ANNUAL RUNOFF (INCHES)	4.72		3.81		6.82	
10 PERCENT EXCEEDS	10,500		7,290		12,400	
50 PERCENT EXCEEDS	2,940		2,820		5,380	
90 PERCENT EXCEEDS	1,930		1,820		2,510	

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

