

## 05330920 MINNESOTA RIVER AT FT. SNELLING STATE PARK, MN

LOCATION.--LAT 44°52'13", long 93°11'32", in SE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.32, T. 28 N., R. 23 W., Hennepin County, Hydrologic Unit 07020012, on left bank at Ft. Snelling State Park and at mile 3.5 upstream from Mississippi River.

DRAINAGE AREA.--16,900 mi<sup>2</sup> (approximately).

PERIOD OF RECORD.--January 2004 to current year.

GAGE.--Water-stage and velocity recorder. Datum of gage is 680.00 ft above sea level (NGVD of 1929).

REMARKS.--Records good to fair except those for estimated days, which are fair to poor. Backwater from Mississippi River.

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	11,200	4,550	e4,160	e1,750	e920	2,650	9,880	9,080	12,200	10,700	4,110	2,610
2	10,400	6,030	e3,880	e1,800	e960	2,430	9,960	8,520	11,500	10,400	3,820	2,910
3	9,380	7,160	e3,770	e1,850	e1,020	2,330	10,100	8,020	11,000	10,100	3,680	3,210
4	8,580	7,400	e3,710	e1,760	e1,100	e2,270	10,100	7,610	10,200	9,880	3,860	4,240
5	8,420	7,380	e3,790	e1,650	e1,160	e2,200	9,800	7,140	9,840	9,700	3,440	4,050
6	8,170	7,110	e3,880	e1,550	e1,260	e2,200	8,970	6,930	9,490	9,390	3,040	3,620
7	7,550	6,620	e3,670	e1,450	e1,340	e2,350	8,350	6,540	9,860	9,270	2,700	3,520
8	7,220	6,140	e3,530	e1,460	e1,420	e2,550	7,840	6,710	11,000	9,250	2,440	3,550
9	6,880	5,860	e3,460	e1,480	e1,500	e2,900	7,250	7,020	12,000	8,780	2,740	3,540
10	6,940	5,600	e3,380	e1,510	e1,420	3,210	6,870	7,530	12,700	8,480	2,530	3,520
11	7,070	e5,340	e3,340	e1,560	e1,380	3,320	6,330	8,810	13,300	8,120	2,500	3,330
12	6,990	e5,160	e3,370	e1,590	e1,370	3,500	6,460	10,300	13,900	7,550	2,410	3,260
13	6,430	e5,040	e3,480	e1,600	e1,360	3,370	8,810	12,000	14,600	7,110	2,250	3,600
14	6,070	e4,870	2,200	e1,590	e1,450	3,080	12,300	13,800	15,100	6,820	2,220	3,790
15	5,910	e4,750	2,130	e1,400	e1,700	2,940	14,200	15,900	16,100	6,560	2,200	3,770
16	5,760	e4,650	2,270	e1,260	e2,300	2,850	e15,600	17,600	16,400	6,120	2,120	4,050
17	5,700	e4,490	2,070	e1,110	3,150	e2,750	e16,400	19,600	16,400	6,110	2,070	4,600
18	5,390	e4,410	2,300	e1,000	3,510	e2,700	e17,300	20,600	16,400	5,860	2,200	4,520
19	5,180	e4,310	1,790	e900	3,920	e2,620	e17,900	22,300	15,900	5,440	2,400	4,520
20	4,900	e4,270	1,790	e850	4,100	2,570	18,500	23,000	15,800	5,510	2,610	4,440
21	4,990	e4,250	1,840	e830	3,950	e2,550	18,800	23,000	15,800	5,380	3,030	3,950
22	4,830	e4,310	e1,720	e840	3,540	e2,550	18,700	22,800	15,100	5,100	3,480	4,170
23	4,780	e4,310	e1,610	e840	3,390	e2,600	18,600	22,500	14,600	4,940	3,510	4,030
24	4,510	e4,340	e1,520	e830	3,200	e2,650	17,800	21,800	14,500	4,970	3,380	3,870
25	4,350	e4,410	e1,490	e830	2,980	e2,750	16,300	20,200	14,400	5,000	3,150	4,210
26	4,250	e4,490	e1,480	e820	3,030	e3,000	15,100	19,600	13,300	5,070	2,950	4,600
27	4,250	e4,520	e1,480	e810	2,690	e3,500	13,400	18,300	12,300	4,520	3,010	8,150
28	4,140	e4,540	e1,500	e810	2,680	4,220	12,400	17,000	12,100	3,920	3,020	11,400
29	4,460	e4,450	e1,550	e820	---	5,210	11,200	15,600	11,500	3,660	2,670	14,500
30	4,410	e4,350	e1,620	e850	---	7,230	10,100	14,100	11,000	4,080	2,590	16,000
31	4,210	---	e1,700	e880	---	9,170	---	12,800	---	4,420	2,460	---
TOTAL	193,320	155,110	79,480	38,280	61,800	100,220	375,320	446,710	398,290	212,210	88,590	149,530
MEAN	6,236	5,170	2,564	1,235	2,207	3,233	12,510	14,410	13,280	6,845	2,858	4,984
MAX	11,200	7,400	4,160	1,850	4,100	9,170	18,800	23,000	16,400	10,700	4,110	16,000
MIN	4,140	4,250	1,480	810	920	2,200	6,330	6,540	9,490	3,660	2,070	2,610
AC-FT	383,500	307,700	157,600	75,930	122,600	198,800	744,400	886,000	790,000	420,900	175,700	296,600
CFSM	0.37	0.31	0.15	0.07	0.13	0.19	0.74	0.85	0.79	0.41	0.17	0.29
IN.	0.43	0.34	0.17	0.08	0.14	0.22	0.83	0.98	0.88	0.47	0.20	0.33

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2005, BY WATER YEAR (WY)

MEAN	6,236	5,170	2,564	1,235	1,505	3,016	7,339	9,121	16,880	7,715	3,370	6,734
MAX	6,236	5,170	2,564	1,235	2,207	3,233	12,510	14,410	20,480	8,585	3,881	8,484
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2004)	(2004)	(2004)
MIN	6,236	5,170	2,564	1,235	827	2,800	2,167	3,832	13,280	6,845	2,858	4,984
(WY)	(2005)	(2005)	(2005)	(2005)	(2004)	(2004)	(2004)	(2004)	(2005)	(2005)	(2005)	(2005)

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SUMMARY STATISTICS	FOR 2005 WATER YEAR		WATER YEARS 2004 - 2005	
ANNUAL TOTAL	2,298,860			
ANNUAL MEAN	6,298		6,298	
HIGHEST ANNUAL MEAN			6,298	2005
LOWEST ANNUAL MEAN			6,298	2005
HIGHEST DAILY MEAN	23,000	May 20, 21	28,700	Jun 17, 2004
LOWEST DAILY MEAN	810	Jan 27, 28	613	Jan 31, 2004
ANNUAL SEVEN-DAY MINIMUM	823	Jan 23	618	Jan 31, 2004
MAXIMUM PEAK FLOW	24,900	May 22	31,400	Jun 17, 2004
MAXIMUM PEAK STAGE	695.54	Jun 17	696.52	Jun 17, 2004
INSTANTANEOUS LOW FLOW	a23	Aug 26	b-594	Apr 18, 2004
ANNUAL RUNOFF (AC-FT)	4,560,000		4,563,000	
ANNUAL RUNOFF (CFSM)	0.373		0.373	
ANNUAL RUNOFF (INCHES)	5.06		5.06	
10 PERCENT EXCEEDS	14,800		14,800	
50 PERCENT EXCEEDS	4,340		4,340	
90 PERCENT EXCEEDS	1,500		1,500	

- a Result of seiche.
- b Reverse flow detected over a one-hour period, unknown cause.
- e Estimated.

