

UPPER MISSISSIPPI RIVER MAIN STEM

05261000 MISSISSIPPI RIVER NEAR FORT RIPLEY, MN

LOCATION.--Lat 4610'50", long 9421'56", in SE 1 / 4 NW 1 / 4 sec. 27, T. 43 N., R. 32 W., Crow Wing County, Hydrologic Unit 07010104, on left bank 600 ft upstream from Nokasippi River, 1.0 mile north of Fort Ripley, and a mile 982.1 upstream from Ohio River.

DRAINAGE AREA.--11,010 mi², approximately.

PERIOD OF RECORD.--June 1987 to current year. Operated as high-flow partial-record station October 1971 to June 1987. Prior to Oct. 1971 stage records collected by U.S. Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 1,133.84 above sea level. Aug. 1904 to June 1987 nonrecording gages at different datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow partly regulated by power plants and Winnibigoshish, Leech, Pokegama, Sandy, and Gull Lakes and by Pine River Reservoir (see stations 05201000, 05206000, 05210500, 05218500, 05230500, 05246500).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4110	5220	5490	e3800	e3500	7750	5800	4300	4380	11200	4250	1740
2	4060	5430	5500	e3850	e3500	8330	6050	4230	4730	10400	4080	1920
3	4230	5540	5520	e3950	e3500	8690	6710	3580	4680	9720	3630	1820
4	4120	5330	5500	e3900	e3500	8280	7210	3570	5220	9260	3620	1800
5	4090	5300	5450	e3800	e3500	8180	7290	3530	5290	8800	3420	1760
6	4070	5430	5660	e3950	e3500	8110	7280	3150	5450	8690	3410	1890
7	4100	5530	5210	e4000	e3500	7660	7480	3030	5370	8720	3180	1640
8	3990	5590	5290	e4000	e3550	7150	7900	2920	4950	8860	3120	1570
9	3970	5710	5300	e4000	e3550	6480	8750	3020	4810	8820	3130	1710
10	4150	5680	5210	e3850	e3550	5520	9170	3000	4260	8730	2930	1650

11	4080	5670	5180	e3750	e3600	4450	9320	3160	4320	8090	3000	1470
12	4530	5410	5480	e3600	e3600	4720	9450	3290	5950	7540	2800	1540
13	5230	5310	5630	e3450	e3700	5220	9500	3020	6080	7110	2600	1750
14	5330	5400	5330	e3300	e3750	5280	9430	3040	6590	6820	2640	1830
15	5960	5180	5310	e3200	e3750	4660	9170	3600	7050	6880	2350	1650
16	6320	5300	5140	e3200	e3800	4290	8900	4870	7370	6740	2240	1730
17	6410	4610	5370	e3250	e3900	4250	8490	6410	7470	6630	2150	1860
18	6530	4550	5340	e3250	e4100	4150	8190	7120	7660	6600	2070	2320
19	6320	4940	5290	e3350	e4300	3930	7710	7450	8710	6460	1720	2120
20	6230	4830	e5200	e3400	e4350	3870	7370	7000	9990	6160	2440	2040
21	6380	5210	e5100	e3400	e4550	4270	7130	6510	10600	6220	1830	1960
22	6310	4860	e5000	e3450	e4800	4160	6710	6160	11000	5810	2050	1970
23	5910	4770	4830	e3350	e5300	3820	6440	5800	11100	5780	2240	1810
24	5960	5200	e4650	e3350	5850	3500	6180	5590	11000	5830	2270	1570
25	5830	4900	e4550	e3350	6240	3410	5890	5590	11000	5480	2260	1560
26	5870	4560	e4500	e3400	6740	3360	5710	4950	11200	5070	2210	2250
27	5600	5170	e4400	e3500	7130	3490	5200	4170	11700	4980	2170	1780
28	5520	5390	e4300	e3550	7390	3540	5120	4080	12000	4880	2070	1600
29	5590	5390	e4250	e3550	---	3730	4800	3960	12100	4500	2030	1840
30	5480	5440	e4150	e3500	---	4600	4580	3970	11900	4520	1970	1910
31	5220	---	e3900	e3500	---	5150	---	4120	---	4460	1860	---
TOTAL	161500	156850	157030	110750	122000	164000	218930	138190	233930	219760	81740	54060
MEAN	5210	5228	5065	3573	4357	5290	7298	4458	7798	7089	2637	1802
MAX	6530	5710	5660	4000	7390	8690	9500	7450	12100	11200	4250	2320
MIN	3970	4550	3900	3200	3500	3360	4580	2920	4260	4460	1720	1470
AC-FT	320300	311100	311500	219700	242000	325300	434200	274100	464000	435900	162100	107200
CFSM	.47	.47	.46	.32	.40	.48	.66	.40	.71	.64	.24	.16

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1998, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	4493	4524	3788	3213	3116	4585	9741	8203	5512	5937	3512	3306
MAX	11380	7590	7156	5116	5154	7156	21220	14240	9972	13710	7293	5657
(WY)	1996	1996	1997	1997	1997	1995	1997	1996	1993	1993	1993	1993
MIN	2563	2624	1827	1518	1508	2559	5510	3025	1196	729	1517	1769
(WY)	1993	1993	1991	1991	1991	1993	1990	1988	1988	1988	1989	1990

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1987 - 1998		
ANNUAL TOTAL	2630450		1818740				
ANNUAL MEAN	7207		4983		5031		
HIGHEST ANNUAL MEAN					7454		1997
LOWEST ANNUAL MEAN					2813		1988
HIGHEST DAILY MEAN	31400	Apr 8	12100	Jun 29	31400	Apr 8	1997
LOWEST DAILY MEAN	3760	Sep 13	1470	Sep 11	558	Jul 30	1988
ANNUAL SEVEN-DAY MINIMUM	3810	Sep 12	1620	Sep 7	626	Jul 24	1988
INSTANTANEOUS PEAK FLOW			12200	Jun 29	32200	Apr 8	1997
INSTANTANEOUS PEAK STAGE			10.16a	Jan 1	14.15	Apr 8	1997
INSTANTANEOUS LOW FLOW			1420	Sep 11	528	Jul 30	1988
ANNUAL RUNOFF (AC-FT)	5217000		3607000		3645000		
ANNUAL RUNOFF (CFSM)	.65		.45		.46		
10 PERCENT EXCEEDS	11900		8140		9200		
50 PERCENT	5250		4730		4120		

EXCEEDS							
90 PERCENT EXCEEDS	4100		2140		1910		

a Backwater from ice.

