

UPPER MISSISSIPPI RIVER BASIN

05261000 MISSISSIPPI RIVER NEAR FORT RIPLEY, MN

LOCATION.--Lat 46° 10'50", long 94° 21'56", in SE¹/₄NW¹/₄ 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 1996 TO SEPTEMBER 1997

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
JUL	AUG	SEP							
1	2650	7510	e7700	e5600	e5200	e5150	7180	15200	6940
9170	6920	4250							
2	2860	7340	e8050	e5470	e5250	e5050	9490	14600	6660
9850	6730	4350							
3	2740	7690	e7800	e5460	e5300	e5050	12300	14000	6550
10400	6740	4020							
4	2700	8170	e8000	e5350	e5250	e5100	16600	13400	6260
10900	6440	3970							
5	2630	8200	e7900	e5340	e5200	e5000	21600	13100	6110
11600	6280	3970							
6	2730	8230	e7800	e5030	e5250	e5000	26300	13300	5750
12000	6250	3940							
7	2740	8130	e8250	e4930	e5200	e5000	29900	12100	5650
11900	5880	3900							
8	2730	8450	e8050	e4840	e5150	e5100	31400	10300	5170
11900	5750	3860							
9	2770	8400	e7750	e4780	e5150	e5000	31000	11000	5250
11700	5480	3860							
10	2620	8390	e8000	e4700	e5100	e5000	30900	11000	5130
11400	5470	3900							

11	2520	7900	e7700	e4670	e5150	e5000	30200	10600	4880
11100	5270	4050							
12	2520	7510	e7500	e4740	e5200	e5050	28400	10400	4710
11000	5080	3790							
13	2390	6810	e7600	e4740	e5150	e5050	26300	10200	4430
10900	4950	3760							
14	2510	6140	e7950	e4830	e5150	e5000	24900	9880	4290
10900	4710	3770							
15	2510	5570	e7650	e4780	e5150	e4950	23800	9630	4240
11300	4660	3790							
16	2430	5310	e7830	e4920	e5100	e5000	22800	9380	4230
11400	4610	3840							
17	3100	6170	e7800	e5050	e5100	e5050	22000	9100	4070
11300	4500	3800							
18	3240	7580	e7200	e5120	e5100	e4950	21500	8880	4020
10700	4200	3930							
19	3800	e7050	e6950	e5190	e5100	e4950	21200	8580	3990
9980	4390	3970							
20	4300	e7450	e6700	e5300	e5100	e5050	20600	8440	3860
9560	4510	3950							
21	4650	e7500	e6700	e5300	e5100	e5000	20200	8200	3970
9360	4240	4160							
22	4880	e7850	e6780	e5300	e5050	e4950	19600	7880	4030
9100	4240	4370							
23	5230	e7650	e6640	e5300	e5150	e4950	19000	7680	3900
8780	4480	4250							
24	5400	e7400	e6520	e5250	e5100	e5100	18500	7990	4170
8470	4710	4100							
25	5520	e7900	e6300	e5200	e5200	e5150	17900	8380	4580
8300	4570	4130							
26	5660	e7650	e6060	e5200	e5200	e5200	17500	8340	5330
8290	4610	4100							
27	5740	e7750	e5940	e5250	e5050	e5250	17000	7950	5870
8160	4700	3950							
28	5750	e7700	e5800	e5250	e5100	e5500	16600	8030	6120
7990	4850	4190							
29	6110	e7600	e5720	e5250	---	e6300	16200	8010	7060
7780	4540	3930							
30	6600	e7750	e5630	e5250	---	e7400	15600	7750	8010
7620	4470	3880							
31	7010	---	e5560	e5200	---	e6450	---	7300	---
7030	4330	---							
TOTAL	119040	224750	221830	158590	144300	161750	636470	310600	155230
309840	158560	119730							
MEAN	3840	7492	7156	5116	5154	5218	21220	10020	5174
9995	5115	3991							
MAX	7010	8450	8250	5600	5300	7400	31400	15200	8010
12000	6920	4370							
MIN	2390	5310	5560	4670	5050	4950	7180	7300	3860
7030	4200	3760							
AC-FT	236100	445800	440000	314600	286200	320800	1262000	616100	307900

614600	314500	237500							
CFSM	.35	.68	.65	.46	.47	.47	1.93	.91	.47
	.91	.46	.36						

o e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1997, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
JUL	AUG	SEP							
MEAN	4421	4454	3660	3177	2994	4514	9986	8578	5283
5832	3591	3443							
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 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1987 - 1997

ANNUAL TOTAL		2485980		2720690					
ANNUAL MEAN		6792		7454				5036	
HIGHEST ANNUAL MEAN									
7454		1997							
LOWEST ANNUAL MEAN									
2813		1988							
HIGHEST DAILY MEAN			21100	Apr 22	31400	Apr 8		31400	Apr
8	1997								
LOWEST DAILY MEAN			1990	Sep 25	2390	Oct 13		558	Jul
30	1988								
ANNUAL SEVEN-DAY MINIMUM			2190	Sep 19	2500	Oct 10		626	Jul
24	1988								
INSTANTANEOUS PEAK FLOW					32200	Apr 8		32200	Apr
8	1997								
INSTANTANEOUS PEAK STAGE					14.15	Apr 8		14.15	Apr
8	1997								
INSTANTANEOUS LOW FLOW					2290	Oct 13		528	Jul
30	1988								
ANNUAL RUNOFF (AC-FT)			4931000		5396000			3648000	
ANNUAL RUNOFF (CFSM)			.62		.68			.46	
10 PERCENT EXCEEDS			13700		11900			9330	
50 PERCENT EXCEEDS			5720		5500			4020	
90 PERCENT EXCEEDS			2730		3950			1880	