

UPPER MISSISSIPPI RIVER MAIN STEM--Continued

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 at 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 ft 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1800	7550	e7150	e3900	e3720	e3330	7720	7420	12300	6060	8910	9270
2	1800	7450	7260	e3900	e3680	e3400	8380	6810	11900	6060	8510	8930
3	1890	7060	7320	e3900	e3680	e3550	8710	6460	11900	5880	8380	8810
4	1940	6910	7380	e3900	e3670	e3650	9040	6510	10700	5840	8370	9060
5	1950	6820	7390	e3900	e3660	e3800	9520	6510	9580	6080	8090	9560
6	2230	6630	7430	e3920	e3650	e3850	10400	7060	10300	5910	7780	9940
7	2190	6570	7390	e3920	e3650	e3900	11500	7650	10600	5920	7470	10100
8	2370	6420	7180	e3920	e3680	e3950	12400	8410	10500	6050	7240	10200
9	2340	6130	6970	e3920	e3700	e3980	13400	9250	9950	6390	7090	10400
10	2570	6290	6990	e3920	e3740	e4020	13900	10300	10300	6740	7030	10300
11	2630	6250	7030	e3900	e3760	e4050	14100	11400	9740	6840	7060	10300
12	2530	6270	6690	e3900	e3780	e4060	13900	13400	9360	7120	7600	10500
13	2740	5940	7080	e3900	e3800	e4100	13900	16700	8830	7510	8010	10600
14	2810	5870	7000	e3920	e3800	e4150	14000	19600	8300	7840	8720	10600
15	2620	6170	6970	e3930	e3830	e4250	13700	22400	8060	8060	9460	10600
16	3200	6070	6610	e3930	e3870	e4350	13100	23800	7660	9100	9760	10500
17	4120	6120	6290	e3940	e3850	e4450	12900	24200	7180	10000	9690	9980
18	4980	6200	5290	e3980	e3800	e4600	12500	24000	6950	10800	9630	9650
19	5630	6090	e5000	e4000	e3780	4760	12300	23200	6600	11200	9540	9210
20	7230	6190	e4000	e4000	e3720	4910	12100	22200	6320	11300	9640	8770
21	8020	6250	e3100	e3980	e3650	5260	11800	21000	6030	11300	9840	8480
22	8190	6120	e3350	e3980	e3550	5260	11600	19700	6250	11400	9510	8190
23	8720	6380	e3550	e3970	e3500	5550	11100	18700	6070	11200	9660	7820
24	8760	6850	e3750	e3970	e3450	5770	10600	18000	6200	11000	10100	7440
25	8690	6850	e3850	e3970	e3350	5850	9920	17300	6520	10400	9840	7020
26	8400	e6850	e3930	e3970	e3300	5850	9690	16700	6430	10700	9790	7420
27	8360	e6900	e3970	e3960	e3250	6000	9120	16000	6230	9960	9640	7790
28	8270	e6950	e3980	e3940	e3250	6100	8900	15400	6120	10000	9260	8010
29	7980	e6950	e3970	e3870	---	6590	8420	14600	6210	9500	9140	8280
30	7720	e7000	e3940	e3820	---	6690	7980	13700	6300	9460	9200	8390
31	7620	---	e3930	e3780	---	7400	---	13200	---	9330	9400	---
TOTAL	150300	196100	175740	121710	102120	147430	336600	461580	249390	264950	273360	276120
MEAN	4848	6537	5669	3926	3647	4756	11220	14890	8313	8547	8818	9204
MAX	8760	7550	7430	4000	3870	7400	14100	24200	12300	11400	10100	10600
MIN	1800	5870	3100	3780	3250	3330	7720	6460	6030	5840	7030	7020
AC-FT	298100	389000	348600	241400	202600	292400	667600	915500	494700	525500	542200	547700
CFSM	.44	.59	.51	.36	.33	.43	1.02	1.35	.76	.78	.80	.84

e Estimated

05261000 MISSISSIPPI RIVER NEAR FORT RIPLEY, MN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	4523	4692	3944	3272	3160	4599	9865	8760	5745	6138	3920	3760
MAX	11380	7590	7156	5116	5154	7156	21220	14890	9972	13710	8818	9204
(WY)	1996	1996	1997	1997	1997	1995	1997	1999	1993	1993	1999	1999
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 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1987 - 1999
ANNUAL TOTAL	1865500	2755400	
ANNUAL MEAN	5111	7549	5241
HIGHEST ANNUAL MEAN			7549
LOWEST ANNUAL MEAN			2813
HIGHEST DAILY MEAN	12100	Jun 29	24200
LOWEST DAILY MEAN	1470	Sep 11	1800
ANNUAL SEVEN-DAY MINIMUM	1620	Sep 7	1970
INSTANTANEOUS PEAK FLOW			24300
INSTANTANEOUS PEAK STAGE			12.19
INSTANTANEOUS LOW FLOW			1790
ANNUAL RUNOFF (AC-FT)	3700000	5465000	3797000
ANNUAL RUNOFF (CFSM)	.46	.69	.48
10 PERCENT EXCEEDS	8380	11800	9630
50 PERCENT EXCEEDS	4550	7000	4240
90 PERCENT EXCEEDS	2040	3680	1980

