

UPPER MISSISSIPPI RIVER MAIN STEM

05353800 STRAIGHT RIVER NEAR FARIBAULT, MN

LOCATION.--Lat 4415'29", long 9313'51", in NW 1 / 4 SE 1 / 4 sec. 9, T.109 N., R.20 W., Rice County, Hydrologic Unit 07040002, on right bank 15 ft downstream from highway bridge, 2.8 mi upstream from Falls Creek and 3.2 mi southeast of Faribault.

DRAINAGE AREA.--435 mi².

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,034.58 ft above mean sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 1,500 ft³/s and maximum (*):

Date	Time	Discharge	Gage height	Date	Time	Discharge	Gage height (ft)
		(ft ³ /s)	(ft)			(ft ³ /s)	
Apr. 01	1800	*2860	*8.58	(No other peak greater than base discharge.)			

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	209	216	138	88	e66	491	2740	318	299	550	102	75
2	202	200	135	99	e60	435	2550	306	289	387	95	73
3	200	197	136	94	e58	423	2120	308	264	415	117	70
4	190	187	135	83	e60	411	1760	292	243	630	163	66
5	180	181	113	99	e57	382	1470	281	233	651	147	65
6	177	181	126	100	e56	362	1230	262	224	534	145	62
7	174	185	139	97	e58	337	1090	257	208	497	142	61
8	171	187	130	90	e60	327	1000	338	199	826	165	60
9	167	186	119	72	e66	291	920	416	198	763	153	58

10	160	183	117	54	e65	255	814	492	193	566	139	56
11	151	176	111	e49	e66	e245	730	454	192	416	122	53
12	199	166	108	e47	e68	e230	665	398	200	335	109	52
13	504	157	118	e46	e69	e240	628	352	185	287	100	50
14	529	173	156	e45	e66	245	570	312	177	249	94	49
15	449	161	150	e45	e80	262	525	373	173	342	94	50
16	380	136	113	e45	e130	231	600	837	171	298	84	e49
17	353	151	100	e45	e230	205	687	650	164	259	135	e49
18	328	167	107	e46	e300	205	679	495	174	227	105	47
19	302	162	104	e46	e340	201	619	414	279	274	93	47
20	277	140	93	e47	e360	199	583	357	266	297	214	58
21	261	136	107	e47	e420	207	537	328	247	394	167	47
22	248	136	124	e47	538	226	495	302	333	290	169	46
23	241	128	113	e48	590	270	458	286	274	241	167	46
24	238	163	95	e49	665	323	427	414	255	208	129	47
25	235	159	84	e49	610	416	385	668	491	183	116	48
26	220	152	79	e51	579	722	373	710	402	162	102	91
27	200	141	77	e53	559	986	362	576	339	152	96	73
28	198	151	102	e54	543	2310	352	482	742	145	104	61
29	193	148	97	e56	---	2340	338	405	728	133	90	73
30	189	144	91	e58	---	2500	327	352	695	124	84	64
31	190	---	70	e62	---	2180	---	331	---	115	79	---
TOTAL	7715	4950	3487	1911	6819	18457	26034	12766	8837	10950	3821	1746
MEAN	249	165	112	61.6	244	595	868	412	295	353	123	58.2
MAX	529	216	156	100	665	2500	2740	837	742	826	214	91
MIN	151	128	70	45	56	199	327	257	164	115	79	46
AC-FT	15300	9820	6920	3790	13530	36610	51640	25320	17530	21720	7580	3460
CFSM	.56	.37	.25	.14	.55	1.35	1.96	.93	.67	.80	.28	.13
IN.	.65	.42	.29	.16	.57	1.55	2.19	1.07	.74	.92	.32	.15

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1998, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	227	199	122	70.1	114	542	626	426	364	304	232	178
MAX	831	595	336	167	837	1270	1912	1224	1399	1027	1136	645
(WY)	1969	1971	1983	1992	1984	1973	1993	1973	1993	1993	1979	1993
MIN	17.0	15.1	11.0	11.0	12.9	26.4	70.2	58.1	45.8	26.2	16.2	16.0
(WY)	1977	1977	1977	1977	1968	1968	1977	1976	1976	1988	1976	1976

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1966 - 1998		
ANNUAL TOTAL	150682		107493				
ANNUAL MEAN	413		295		284		
HIGHEST ANNUAL MEAN						754	1993
LOWEST ANNUAL MEAN						43.9	1977
HIGHEST DAILY MEAN	3690	Aug 15	2740	Apr 1	5410	May 2	1973
LOWEST DAILY MEAN	70	Dec 31	45	Jan 14	11	Feb 18	1968
ANNUAL SEVEN-DAY MINIMUM	86	Dec 25	45	Jan 13	11	Feb 18	1968
INSTANTANEOUS PEAK FLOW			2860	Apr 1	6030	Jul 7	1990
INSTANTANEOUS PEAK STAGE			8.58	Apr 1	12.74a	Mar 5	1974
INSTANTANEOUS LOW FLOW			44	Sep 18, 21	10	Mar 5	1974
ANNUAL RUNOFF (AC-FT)	298900		213200		206000		
ANNUAL RUNOFF (CFSM)	.93		.67		.64		
ANNUAL RUNOFF	12.68		9.05		8.74		

(INCHES)								
10 PERCENT EXCEEDS	972		594		702			
50 PERCENT EXCEEDS	208		186		127			
90 PERCENT EXCEEDS	105		57		30			

a Backwater from ice.

