

## UPPER MISSISSIPPI RIVER MAIN STEM--Continued

05353800 STRAIGHT RIVER NEAR FARIBAULT, MN

LOCATION.--Lat 44°15'29", long 93°13'51", in NW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> 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 mi<sup>2</sup>.

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

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Apr 11	1400	2,270	7.96	Jun 12	1700	1,520	6.84
May 14	0500	2,590	8.38	Jul 22	1000	1,620	7.00
May 22	0400	*3,310	*9.20	Aug 22	1400	1,520	6.85

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	60	219	133	e69	e68	241	294	505	576	282	308	173
2	60	200	131	e69	e69	246	279	464	542	277	273	156
3	67	193	131	e68	e70	274	301	432	491	663	244	143
4	67	178	130	e67	e71	221	352	e440	483	765	223	132
5	80	164	134	e66	e71	193	434	473	481	608	206	149
6	86	155	127	e65	e72	155	1260	427	622	426	191	134
7	82	143	120	e65	e73	142	1420	405	981	336	178	139
8	78	138	116	e65	e86	135	1260	376	1070	339	166	392
9	75	137	113	e64	e100	156	1870	342	871	393	231	252
10	70	221	110	e63	121	176	1860	322	772	430	285	200
11	67	279	104	e63	426	203	2160	413	1150	321	319	169
12	67	286	111	e62	383	139	2120	1440	1470	275	248	151
13	66	266	109	e63	422	138	1900	2550	1400	249	220	140
14	65	280	104	e64	459	151	1590	2580	1110	244	200	129
15	90	255	105	e65	547	240	1340	2300	824	228	180	125
16	96	238	105	e65	744	549	1180	1870	689	212	167	120
17	218	219	101	e65	664	801	1030	1900	599	279	156	115
18	355	204	102	e65	561	683	921	2070	534	435	182	108
19	300	199	e98	e63	384	508	814	2070	500	916	357	104
20	240	178	e80	e64	306	391	731	2050	470	1320	333	101
21	203	162	e70	e64	292	351	666	3050	434	1460	277	97
22	178	184	e74	e65	269	313	920	3140	400	1600	944	95
23	162	169	e76	e65	234	280	1380	2480	448	1420	964	93
24	149	164	e78	e65	209	258	1410	1960	447	1150	795	90
25	139	162	e80	e65	208	236	1270	1580	413	922	559	90
26	131	151	e82	e65	209	220	1050	1310	367	709	408	87
27	179	140	e82	e66	218	216	844	1070	348	524	320	85
28	227	139	e82	e67	221	293	718	894	340	669	266	86
29	315	139	e78	e67	---	317	619	767	317	533	232	83
30	280	139	e74	e67	---	310	552	675	295	425	207	81
31	245	---	e72	e68	---	296	---	615	---	345	189	---
TOTAL	4497	5701	3112	2024	7557	8832	32545	40970	19444	18755	9828	4019
MEAN	145	190	100	65.3	270	285	1085	1322	648	605	317	134
MAX	355	286	134	69	744	801	2160	3140	1470	1600	964	392
MIN	60	137	70	62	68	135	279	322	295	212	156	81
AC-FT	8920	11310	6170	4010	14990	17520	64550	81260	38570	37200	19490	7970
CFSM	.33	.43	.23	.15	.61	.64	2.45	2.99	1.47	1.37	.72	.30
IN.	.38	.48	.26	.17	.64	.74	2.74	3.45	1.64	1.58	.83	.34

e Estimated

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	225	198	122	70.0	119	534	639	453	373	313	235	176
MAX	831	595	336	167	837	1270	1912	1322	1399	1027	1136	645
(WY)	1969	1971	1983	1992	1984	1973	1993	1999	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 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1966 - 1999
ANNUAL TOTAL	104651	157284	
ANNUAL MEAN	287	431	289
HIGHEST ANNUAL MEAN			754
LOWEST ANNUAL MEAN			43.9
HIGHEST DAILY MEAN	2740	Apr 1	5410
LOWEST DAILY MEAN	45	Jan 14	11
ANNUAL SEVEN-DAY MINIMUM	45	Jan 13	11
INSTANTANEOUS PEAK FLOW			6030
INSTANTANEOUS PEAK STAGE			12.74 <sub>a</sub>
INSTANTANEOUS LOW FLOW			10
ANNUAL RUNOFF (AC-FT)	207600	312000	209200
ANNUAL RUNOFF (CFSM)	.65	.97	.65
ANNUAL RUNOFF (INCHES)	8.81	13.24	8.88
10 PERCENT EXCEEDS	594	1150	716
50 PERCENT EXCEEDS	177	231	130
90 PERCENT EXCEEDS	57	68	31

a Backwater from ice.

