

## 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 (NGVD of 1929).

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

PEAK DISCHARGES 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)
May 19	1100	2,020	7.61	Jun 14	0900	1,570	6.96
Jun 1	2000	*4,140	*9.93	Jul 12	2400	3,320	9.21

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	87	97	e50	e40	369	148	89	2660	407	183	91
2	111	81	107	e50	e40	306	143	86	3310	397	170	88
3	101	79	99	e50	e40	268	140	84	2650	436	150	92
4	97	76	94	e49	e40	249	133	83	2280	417	136	88
5	95	75	90	e48	e41	235	128	e81	2550	509	140	85
6	91	72	81	e46	e41	226	122	84	2330	754	138	83
7	90	72	78	e47	e41	220	115	88	2050	708	133	80
8	107	70	87	e48	e41	223	112	98	1630	518	187	79
9	106	73	83	e48	e41	295	108	92	1300	1270	168	73
10	97	106	77	e48	e41	306	106	89	977	2090	154	68
11	91	119	87	e47	e41	281	107	113	768	2310	135	65
12	91	89	74	e47	e40	256	105	123	655	2620	123	65
13	91	83	78	e47	e41	240	102	112	717	2970	113	63
14	91	80	e80	e46	e41	232	100	97	1470	2340	107	62
15	89	77	e68	e46	e41	227	100	e100	1280	1750	102	62
16	87	77	e62	e46	e41	214	99	140	1250	1400	97	60
17	86	76	e59	e46	e42	199	99	121	1030	1150	160	60
18	84	78	e57	e46	e42	194	99	1080	860	879	165	59
19	84	78	e56	e45	e42	193	103	1990	721	664	165	62
20	84	77	e48	e44	e44	187	116	1990	704	563	133	63
21	84	79	e44	e43	e46	190	130	1700	769	488	120	60
22	82	76	e40	e43	e52	193	125	1360	848	423	116	65
23	79	96	e42	e43	e110	193	124	1100	732	371	113	78
24	77	116	e44	e42	e200	212	116	826	607	337	123	61
25	77	109	e45	e42	e720	218	108	576	540	311	113	59
26	77	100	e46	e41	e920	211	103	455	489	286	133	59
27	77	96	e47	e40	e700	206	100	406	513	263	121	56
28	75	90	e48	e40	636	196	98	411	510	242	119	53
29	77	84	e49	e40	462	178	95	405	552	225	109	53
30	119	84	e49	e39	---	166	91	423	471	209	101	52
31	95	---	e49	e40	---	157	---	419	---	195	96	---
TOTAL	2775	2555	2065	1397	4667	7040	3375	14821	37223	27502	4123	2044
MEAN	89.5	85.2	66.6	45.1	161	227	112	478	1241	887	133	68.1
MAX	119	119	107	50	920	369	148	1990	3310	2970	187	92
MIN	75	70	40	39	40	157	91	81	471	195	96	52
AC--FT	5500	5070	4100	2770	9260	13960	6690	29400	73830	54550	8180	4050
CFSM	.20	.19	.15	.10	.36	.51	.25	1.08	2.81	2.01	.30	.15
IN.	.23	.22	.17	.12	.39	.59	.28	1.25	3.13	2.31	.35	.17

05353800 STRAIGHT RIVER NEAR FARIBAULT, MN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	221	195	120	69.3	120	526	624	453	397	329	232	173
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 1999 CALENDAR YEAR FOR 2000 WATER YEAR WATER YEARS 1966 - 2000

ANNUAL TOTAL		151369		109587								
ANNUAL MEAN		415		299					289			
HIGHEST ANNUAL MEAN									754			1993
LOWEST ANNUAL MEAN									43.9			1977
HIGHEST DAILY MEAN			3140	May 22		3310	Jun 2		5410		May 2	1973
LOWEST DAILY MEAN			40	Dec 22		39	Jan 30		11		Feb 18	1968
ANNUAL SEVEN-DAY MINIMUM			44	Dec 21		40	Jan 27		11		Feb 18	1968
INSTANTANEOUS PEAK FLOW						4140	Jun 1		6030		Jul 7	1990
INSTANTANEOUS PEAK STAGE						9.93	Jun 1		12.74 <sup>a</sup>		Mar 5	1974
INSTANTANEOUS LOW FLOW									10		Oct 10	1976
ANNUAL RUNOFF (AC-FT)			300200			217400			209400			
ANNUAL RUNOFF (CFMS)			.94			.68			.65			
ANNUAL RUNOFF (INCHES)			12.74			9.22			8.88			
10 PERCENT EXCEEDS			1150			758			717			
50 PERCENT EXCEEDS			208			100			129			
90 PERCENT EXCEEDS			65			45			31			

<sup>a</sup> Backwater from ice.  
<sup>e</sup> Estimated.

