

UPPER MISSISSIPPI RIVER MAIN STEM--Continued

05353800 STRAIGHT RIVER NEAR FARIBAULT, MN

LOCATION.--Lat 44°15'29", long 93°13'51", in NW¹/₄SE¹/₄ sec. 9, T.109 N., R.20 W., Rice County, Hydrologic Unit 07040002, on right bank 50 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 sea level (NGVD of 1929).

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 7	1500	5,240	10.72	May 7	0600	2,850	8.26
Apr 12	0700	5,230	10.64	Jun 15	2300	*5,390	*10.78
Apr 23	0600	2,320	7.60				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	69	92	e64	e70	e64	706	620	577	402	111	103
2	50	102	70	e64	e68	e65	1150	1520	548	369	105	83
3	52	149	61	e65	e67	e66	1770	1690	490	355	100	73
4	60	123	75	e66	e67	e66	2500	2140	444	331	95	68
5	57	97	53	e70	e67	e67	3940	2090	492	305	90	66
6	56	134	e58	e71	e67	e69	4590	1840	542	289	89	64
7	56	e224	e62	e74	e67	e71	4940	2590	552	277	84	70
8	57	e198	e66	e76	e67	e73	4740	2250	500	265	80	83
9	57	e181	e69	e74	e67	e75	3700	1850	461	251	76	76
10	60	e163	e70	e71	e65	e78	2840	1450	441	236	75	73
11	59	e162	e69	e72	e64	e80	3480	1260	406	219	72	69
12	58	e174	e68	e72	e63	e82	5090	1100	380	205	69	63
13	58	e168	e67	e72	e62	e84	4420	952	2230	190	67	61
14	66	e162	e67	e72	e62	e87	3350	807	4240	177	66	59
15	60	153	e68	e71	e61	e88	2720	703	5340	165	73	60
16	58	149	e69	e71	e60	e90	2300	613	5060	160	70	59
17	57	135	e68	e70	e60	e94	1920	544	3960	148	65	61
18	59	119	e67	e70	e60	e98	1570	492	3090	139	88	62
19	57	124	e66	e70	e61	e105	1300	453	2590	134	86	61
20	55	97	e65	e69	e61	e115	1100	442	2310	138	74	63
21	55	83	e64	e69	e61	e125	1220	594	2000	140	74	70
22	53	102	e63	e70	e61	e140	1750	656	1590	153	79	65
23	62	102	e62	e70	e62	e155	2260	618	1270	182	71	450
24	63	96	e61	e70	e62	e165	1950	586	982	207	67	298
25	68	98	e60	e70	e61	e170	1480	619	774	235	82	246
26	82	97	e61	e71	e60	e180	1150	976	649	186	83	155
27	72	95	e62	e71	e57	e200	933	1220	570	158	68	115
28	68	93	e63	e72	e62	e220	783	1080	601	139	65	99
29	65	101	e64	e73	---	256	681	872	535	129	63	89
30	62	100	e64	e74	---	294	623	698	461	121	252	82
31	63	---	e64	e72	---	544	---	604	---	114	148	---
TOTAL	1855	3850	2038	2186	1772	4066	70956	33929	44085	6519	2687	3046
MEAN	59.8	128	65.7	70.5	63.3	131	2365	1094	1470	210	86.7	102
MAX	82	224	92	76	70	544	5090	2590	5340	402	252	450
MIN	50	69	53	64	57	64	623	442	380	114	63	59
AC-FT	3680	7640	4040	4340	3510	8060	140700	67300	87440	12930	5330	6040
CFSM	.14	.29	.15	.16	.14	.30	5.35	2.48	3.32	.48	.20	.23
IN.	.16	.32	.17	.18	.15	.34	5.97	2.86	3.71	.55	.23	.26

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	216	193	119	69.3	119	515	673	471	427	326	228	171
MAX	831	595	336	167	837	1270	2365	1322	1470	1027	1136	645
(WY)	1969	1971	1983	1992	1984	1973	2001	1999	2001	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 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1966 - 2001

ANNUAL TOTAL		109899		176989								
ANNUAL MEAN		300		485						294		
HIGHEST ANNUAL MEAN										754		1993
LOWEST ANNUAL MEAN										43.9		1977
HIGHEST DAILY MEAN				3310	Jun 2		5340	Jun 15		5410	May 2	1973
LOWEST DAILY MEAN				39	Jan 30		50	Oct 1		11	Feb 18	1968
ANNUAL SEVEN-DAY MINIMUM				40	Jan 27		54	Oct 1		11	Feb 18	1968
MAXIMUM PEAK FLOW							5390	Jun 15		6030	Jul 7	1990
MAXIMUM PEAK STAGE							10.78	Jun 15		12.74a	Mar 5	1974
INSTANTANEOUS LOW FLOW							40b	Dec 5		10	Oct 27	1976
ANNUAL RUNOFF (AC-FT)			218000				351100			213300		
ANNUAL RUNOFF (CFSM)			.68				1.10			.67		
ANNUAL RUNOFF (INCHES)			9.25				14.90			9.05		
10 PERCENT EXCEEDS			758				1540			724		
50 PERCENT EXCEEDS			102				89			127		
90 PERCENT EXCEEDS			46				61			31		

a Backwater from ice.
 b Result of freezeup.
 e Estimated.

