

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)
Jun 4	1800	1,910	7.16	Jun 22	0200	*1,920	*7.24

Minimum discharge, 62 ft³/s, Feb. 27, gage height, 3.89 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	75	192	e84	e93	e85	176	333	186	263	94	121
2	78	74	169	e86	e92	e78	166	310	161	241	82	110
3	74	76	154	e84	e91	e72	152	281	849	220	75	101
4	72	75	148	e83	e90	e69	145	256	1670	199	259	93
5	71	73	169	e85	e96	e68	139	240	1660	180	283	87
6	69	72	254	e87	e100	e68	134	266	1290	167	260	97
7	68	73	282	e85	e103	e69	132	251	846	154	210	87
8	69	71	253	e87	e110	e81	139	246	580	148	150	79
9	71	70	218	e88	e117	e160	143	238	453	143	122	73
10	85	69	208	e88	e120	e170	155	211	383	142	104	71
11	80	69	195	e89	e124	e180	228	204	512	158	94	69
12	80	67	187	e88	e123	e210	493	239	816	139	96	67
13	92	72	174	e87	e122	e330	596	238	726	128	105	66
14	103	71	163	e86	e122	e370	496	231	550	116	94	81
15	106	72	158	e85	e121	494	429	220	438	106	88	88
16	106	71	148	e84	e120	664	378	208	369	100	81	77
17	99	69	143	e83	e118	992	357	190	326	94	122	71
18	96	69	141	e82	e123	791	330	176	301	96	106	67
19	94	85	134	e86	e127	537	304	163	311	117	93	167
20	92	73	120	e89	e137	456	272	155	360	93	79	149
21	90	70	e110	e92	e133	377	269	148	1040	87	238	121
22	87	69	e104	e93	e112	280	272	145	1690	143	627	104
23	90	69	e100	e95	e110	e245	270	144	1280	198	917	95
24	83	128	e100	e98	e108	e225	285	132	879	151	772	89
25	82	168	e97	e99	e95	210	270	125	642	117	455	99
26	80	170	e96	e100	e82	202	248	123	494	108	325	120
27	76	207	e94	e102	e87	187	239	121	434	97	261	143
28	74	231	e90	e100	e92	188	287	267	376	88	212	156
29	73	238	e89	e98	---	190	344	418	330	96	178	151
30	72	218	e88	e96	---	180	353	319	295	85	155	338
31	73	---	e86	e94	---	178	---	237	---	120	137	---
TOTAL	2564	3014	4664	2783	3068	8406	8201	6835	20247	4294	6874	3237
MEAN	82.7	100	150	89.8	110	271	273	220	675	139	222	108
MAX	106	238	282	102	137	992	596	418	1690	263	917	338
MIN	68	67	86	82	82	68	132	121	161	85	75	66
AC-FT	5090	5980	9250	5520	6090	16670	16270	13560	40160	8520	13630	6420
CFSM	0.19	0.23	0.34	0.20	0.25	0.61	0.62	0.50	1.53	0.31	0.50	0.24
IN.	0.22	0.25	0.39	0.23	0.26	0.71	0.69	0.58	1.70	0.36	0.58	0.27

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	213	191	120	69.8	118	508	662	464	434	321	228	169
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 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1966 - 2002

ANNUAL TOTAL	179488	74187	
ANNUAL MEAN	492	203	292
HIGHEST ANNUAL MEAN			754 1993
LOWEST ANNUAL MEAN			43.9 1977
HIGHEST DAILY MEAN	5340 Jun 15	1690 Jun 22	5410 May 2 1973
LOWEST DAILY MEAN	57 Feb 27	66 Sep 13	11a Feb 18 1968
ANNUAL SEVEN-DAY MINIMUM	60 Sep 13	70 Nov 8	11 Feb 18 1968
MAXIMUM PEAK FLOW		1920 Jun 22	6030 Jul 7 1990
MAXIMUM PEAK STAGE		7.24 Jun 22	12.74b Mar 5 1974
INSTANTANEOUS LOW FLOW		62 Feb 27	10 Oct 27 1976
ANNUAL RUNOFF (AC-FT)	356000	147100	211500
ANNUAL RUNOFF (CFM)	1.11	0.46	0.66
ANNUAL RUNOFF (INCHES)	15.11	6.24	8.98
10 PERCENT EXCEEDS	1540	377	716
50 PERCENT EXCEEDS	98	123	127
90 PERCENT EXCEEDS	65	73	32

- a Many days in 1968 and 1977.
- b Backwater from ice.
- e Estimated.

