

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)
Oct 6	1500	2,220	7.65	May 12	0000	*2,770	*8.34

Minimum discharge, 32 ft³/s, Sept. 8, gage height, 3.66 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	301	205	e118	e82	e41	e53	247	232	239	276	67	40
2	254	198	e115	e82	e42	e54	220	216	228	252	66	40
3	219	195	e113	e81	e43	e53	204	200	217	226	67	41
4	844	190	e111	e80	e43	e53	190	199	202	223	63	40
5	1,220	189	e108	e79	e42	e52	170	515	194	206	62	43
6	1,930	189	e107	e78	e43	e52	166	835	210	212	61	43
7	1,870	183	e108	e78	e43	e51	159	850	280	266	61	41
8	1,370	180	e109	e77	e43	e51	154	720	503	267	60	36
9	938	181	e110	e77	e43	e50	154	959	820	247	59	39
10	733	180	e110	e74	e42	e49	161	1,160	728	232	58	40
11	620	174	110	e65	e42	e49	170	2,130	610	216	71	42
12	553	164	e111	e60	e41	e50	174	2,720	514	197	60	61
13	485	161	e112	e56	e41	e51	170	2,380	453	174	58	48
14	440	160	e113	e53	e41	e56	175	1,860	439	165	55	39
15	404	157	e112	e52	e41	e350	185	1,360	378	250	54	37
16	370	150	e110	e51	e42	455	248	1,100	340	215	54	39
17	347	146	e109	e51	e43	373	359	920	313	163	53	43
18	336	146	e114	e50	e44	280	389	727	294	139	52	48
19	315	147	e113	e48	e46	235	363	616	276	126	64	57
20	296	144	e108	e47	e48	192	385	547	254	117	64	51
21	286	143	e98	e46	e50	156	426	490	235	115	62	43
22	272	140	e88	e44	e51	114	415	453	178	110	57	46
23	261	139	e85	e43	e49	104	377	424	176	103	55	50
24	256	135	e84	e41	e49	109	342	392	211	98	50	49
25	256	124	e83	e40	e50	101	315	361	262	92	50	49
26	252	e123	e82	e39	e50	95	291	336	356	85	56	50
27	241	e126	e83	e38	e51	149	272	313	414	81	49	52
28	236	e129	e84	e39	e52	452	255	299	382	77	46	50
29	234	e126	e84	e39	---	549	244	284	354	75	46	49
30	226	e123	e83	e40	---	387	234	272	307	72	45	49
31	214	---	e82	e40	---	291	---	256	---	69	41	---
TOTAL	16,579	4,747	3,157	1,770	1,256	5,116	7,614	24,126	10,367	5,146	1,766	1,355
MEAN	535	158	102	57.1	44.9	165	254	778	346	166	57.0	45.2
MAX	1,930	205	118	82	52	549	426	2,720	820	276	71	61
MIN	214	123	82	38	41	49	154	199	176	69	41	36
AC-FT	32,880	9,420	6,260	3,510	2,490	10,150	15,100	47,850	20,560	10,210	3,500	2,690
CFSM	1.21	0.36	0.23	0.13	0.10	0.37	0.57	1.76	0.78	0.38	0.13	0.10
IN.	1.40	0.40	0.27	0.15	0.11	0.43	0.64	2.03	0.87	0.43	0.15	0.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2003, BY WATER YEAR (WY)

MEAN	221	190	119	69.5	116	499	651	473	432	317	223	166
MAX	831	595	336	167	837	1,270	2,365	1,322	1,470	1,027	1,136	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)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1966 - 2003	
ANNUAL TOTAL	88,428		82,999			
ANNUAL MEAN	242		227		290	
HIGHEST ANNUAL MEAN					754	1993
LOWEST ANNUAL MEAN					43.9	1977
HIGHEST DAILY MEAN	1,930	Oct 6	2,720	May 12	5,410	May 2, 1973
LOWEST DAILY MEAN	66	Sep 13	36	Sep 8	a11	Feb 18, 1968
ANNUAL SEVEN-DAY MINIMUM	72	Mar 2	39	Jan 25	11	Feb 18, 1968
MAXIMUM PEAK FLOW			2,770	May 12	6,030	Jul 7, 1990
MAXIMUM PEAK STAGE			8.34	May 12	b12.74	Mar 5, 1974
INSTANTANEOUS LOW FLOW			32	Sep 8	10	Oct 27, 1976
ANNUAL RUNOFF (AC-FT)	175,400		164,600		210,300	
ANNUAL RUNOFF (CFSM)	0.55		0.51		0.66	
ANNUAL RUNOFF (INCHES)	7.44		6.99		8.92	
10 PERCENT EXCEEDS	488		452		709	
50 PERCENT EXCEEDS	146		123		126	
90 PERCENT EXCEEDS	85		43		32	

a Many days in 1968, and 1977.
 b Backwater from ice.
 c Estimated.

