

05353800 STRAIGHT RIVER NEAR FARIBAULT, MN

LOCATION.--Lat 44°15'29", long 93°13'51", in NW¼SE¼ 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 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 to poor.

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

	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Mar 31	1100	*2,730	*8.06	1800	2,000	7.25
May 13	2100	1,630	6.83			

Minimum discharge, 50 ft<sup>3</sup>/s, Jan. 16, (minimum daily discharge, backwater from ice).

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	386	324	e196	e143	e59	e95	2,460	267	345	402	77	60
2	403	295	e199	e131	e61	e94	1,920	252	327	316	72	57
3	476	276	e179	e108	e63	e94	1,380	239	310	270	69	55
4	438	268	e174	e103	e88	e140	956	226	303	243	66	393
5	378	258	e173	e91	e140	e180	729	216	296	217	62	287
6	347	250	181	e93	e145	e208	637	223	317	196	60	157
7	325	239	190	e88	e140	e211	591	219	319	179	57	140
8	362	217	197	e91	e133	e207	550	260	758	181	57	128
9	356	207	214	e90	e127	e195	504	284	786	160	61	109
10	337	210	235	e85	e123	e180	457	278	702	145	181	95
11	319	199	239	e86	e123	e170	432	252	574	134	90	85
12	304	182	244	e87	e126	e150	559	279	514	124	97	78
13	299	174	203	e84	e133	e150	750	1,170	451	117	75	110
14	295	167	180	e61	e150	e125	683	1,460	417	111	68	93
15	305	167	e210	e52	e160	e123	548	1,050	389	104	63	83
16	291	171	e198	e50	e156	e122	559	792	351	98	60	76
17	269	173	e186	e51	e152	e121	1,000	667	322	94	67	70
18	256	169	e181	e52	e147	e127	870	695	296	156	170	67
19	249	179	e124	e53	e135	e130	721	1,040	272	105	156	65
20	241	248	e148	e56	e127	e135	661	1,130	258	103	95	64
21	230	258	e150	e59	e124	e133	669	974	327	141	77	63
22	228	256	e145	e58	e119	e130	592	812	395	149	68	61
23	240	252	e130	e56	e114	e150	500	689	345	145	63	58
24	235	238	e120	e57	e109	e180	435	582	300	123	60	58
25	217	220	e120	e58	e106	e233	402	520	271	111	57	1,210
26	204	214	e125	e58	e103	e301	382	524	320	145	89	1,720
27	197	231	e123	e55	e98	e831	355	490	361	176	110	1,490
28	196	226	e121	e56	e96	e1,550	323	458	358	139	92	1,290
29	217	214	e125	e56	---	e1,650	302	425	309	109	79	1,060
30	294	200	e135	e57	---	1,760	283	390	486	94	69	782
31	355	---	e150	e58	---	2,630	---	363	---	84	64	---
TOTAL	9,249	6,682	5,295	2,283	3,357	12,505	21,210	17,226	11,779	4,871	2,531	10,064
MEAN	298	223	171	73.6	120	403	707	556	393	157	81.6	335
MAX	476	324	244	143	160	2,630	2,460	1,460	786	402	181	1,720
MIN	196	167	120	50	59	94	283	216	258	84	57	55
AC-FT	18,350	13,250	10,500	4,530	6,660	24,800	42,070	34,170	23,360	9,660	5,020	19,960
CFSM	0.68	0.50	0.39	0.17	0.27	0.91	1.60	1.26	0.89	0.36	0.18	0.76
IN.	0.78	0.56	0.45	0.19	0.28	1.05	1.79	1.45	0.99	0.41	0.21	0.85

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2005, BY WATER YEAR (WY)

MEAN	219	187	118	68.4	114	494	639	472	456	322	223	191
MAX	831	595	336	167	837	1,270	2,365	1,322	1,470	1,027	1,136	977
(WY)	(1969)	(1971)	(1983)	(1992)	(1984)	(1973)	(2001)	(1999)	(2001)	(1993)	(1979)	(2004)
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1966 - 2005	
ANNUAL TOTAL	155,910		107,052			
ANNUAL MEAN	426		293		293	
HIGHEST ANNUAL MEAN					754	1993
LOWEST ANNUAL MEAN					43.9	1977
HIGHEST DAILY MEAN	5,860	Jun 11	2,630	Mar 31	5,860	Jun 11, 2004
LOWEST DAILY MEAN	17	Jan 28	50	Jan 16	a11	Feb 18, 1968
ANNUAL SEVEN-DAY MINIMUM	17	Jan 26	53	Jan 15	11	Feb 18, 1968
MAXIMUM PEAK FLOW			2,730	Mar 31	b6,080	Jun 12, 2004
MAXIMUM PEAK STAGE			8.06	Mar 31	c12.74	Mar 5, 1974
INSTANTANEOUS LOW FLOW			d50	Jan 16	10	Oct 27, 1976
ANNUAL RUNOFF (AC-FT)	309,200		212,300		211,900	
ANNUAL RUNOFF (CFSM)	0.964		0.664		0.662	
ANNUAL RUNOFF (INCHES)	13.12		9.01		8.99	
10 PERCENT EXCEEDS	814		663		709	
50 PERCENT EXCEEDS	228		181		129	
90 PERCENT EXCEEDS	21		63		32	

- a Many days in 1968, and 1977.
- b Gage height, 11.31 ft.
- c Backwater from ice.
- d Estimated daily-mean discharge, backwater from ice.
- e Estimated.

