



Water-Data Report 2009

## 05353800 STRAIGHT RIVER NEAR FARIBAULT, MN

Upper Mississippi Basin  
Cannon Subbasin

LOCATION.--Lat 44°15'29", long 93°13'51" referenced to North American Datum of 1927, in NW ¼ SE ¼ sec.9, T.109 N., R.20 W., Rice County, MN, Hydrologic Unit 07040002, on right bank 30 ft downstream from bridge on 227th St E., 2.8 mi upstream from Falls Creek and 3.2 mi southeast of Faribault.

DRAINAGE AREA.--435 mi<sup>2</sup>.

### SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1965 to current year.

REVISED RECORDS.--Unpublished, 2009: 1966(M), 1979(M), 1989(M), 2008(M).

GAGE.--Water-stage recorder. Datum of gage is 1,034.58 ft above sea level (NGVD of 1929).

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

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Jun 18	0600	<sup>a</sup> *932	*6.03

<sup>a</sup>No peaks above base discharge.

Minimum discharge, 26 ft<sup>3</sup>/s, Nov. 29, gage height, 3.63 ft, result of freezeup.

## 05353800 STRAIGHT RIVER NEAR FARIBAULT, MN—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	40	42	41	e36	e30	e55	151	319	95	134	61	46
2	40	41	38	e36	e29	e54	141	288	91	124	53	45
3	40	41	e40	e36	e28	e55	131	255	86	112	60	43
4	39	42	e37	e36	e27	e57	126	240	84	106	53	43
5	38	42	e38	e35	e27	e64	122	271	85	101	48	40
6	39	63	e39	e35	e28	e171	121	267	92	97	46	39
7	42	71	e38	e35	e28	e324	118	384	116	96	57	38
8	64	69	e38	e35	e29	e235	114	393	163	112	87	38
9	46	60	e39	e34	e29	e218	112	369	291	95	66	37
10	45	52	e37	e34	e305	e195	108	344	431	89	56	36
11	41	49	e37	e34	e475	e182	104	320	372	82	53	36
12	40	53	e38	e33	e256	e169	100	285	299	78	50	35
13	41	55	e39	e32	e182	e168	98	277	261	74	50	34
14	46	64	e41	e30	e137	e176	99	264	227	73	54	33
15	43	62	e41	e28	e124	e199	96	237	202	70	48	33
16	43	61	e42	e27	e107	e249	94	223	191	67	137	33
17	42	56	e41	e28	e102	e316	91	201	357	64	80	33
18	42	51	e40	e29	e91	e334	91	182	780	62	62	32
19	41	48	e39	e30	e74	e264	123	171	746	61	105	32
20	41	46	e39	e31	e73	216	130	159	732	59	309	32
21	41	44	e38	e31	e72	184	128	146	682	89	209	31
22	41	48	e38	e31	e67	173	118	137	557	87	151	32
23	43	49	e38	e30	e57	194	109	130	412	69	107	34
24	42	47	e37	e29	e56	272	103	126	344	64	89	33
25	42	45	e37	e29	e60	344	112	115	296	62	81	36
26	43	45	e37	e28	e63	315	138	111	259	58	75	47
27	43	45	e38	e28	e62	243	323	111	247	55	64	36
28	43	43	e39	e28	e57	204	472	113	202	52	59	35
29	43	42	e38	e28	---	181	402	108	170	50	55	35
30	43	44	e37	e27	---	161	354	102	147	58	50	34
31	43	---	e37	e29	---	151	---	97	---	55	48	---
<b>Total</b>	1,320	1,520	1,196	972	2,675	6,123	4,529	6,745	9,017	2,455	2,523	1,091
<b>Mean</b>	42.6	50.7	38.6	31.4	95.5	198	151	218	301	79.2	81.4	36.4
<b>Max</b>	64	71	42	36	475	344	472	393	780	134	309	47
<b>Min</b>	38	41	37	27	27	54	91	97	84	50	46	31
<b>Ac-ft</b>	2,620	3,010	2,370	1,930	5,310	12,140	8,980	13,380	17,890	4,870	5,000	2,160
<b>Cfs/m</b>	0.10	0.12	0.09	0.07	0.22	0.45	0.35	0.50	0.69	0.18	0.19	0.08
<b>In.</b>	0.11	0.13	0.10	0.08	0.23	0.52	0.39	0.58	0.77	0.21	0.22	0.09

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2009, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	241	183	120	75.6	115	488	643	468	459	302	226	189
<b>Max</b>	1,467	595	336	253	837	1,270	2,365	1,322	1,470	1,027	1,136	977
<b>(WY)</b>	(2008)	(1971)	(1983)	(2007)	(1984)	(1973)	(2001)	(1999)	(2001)	(1993)	(1979)	(2004)
<b>Min</b>	17.0	15.1	11.0	11.0	12.9	26.4	70.2	58.1	45.8	26.2	16.2	16.0
<b>(WY)</b>	(1977)	(1977)	(1977)	(1977)	(1968)	(1968)	(1977)	(1976)	(1976)	(1988)	(1976)	(1976)

05353800 STRAIGHT RIVER NEAR FARIBAULT, MN—Continued

SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1966 - 2009	
<b>Annual total</b>	93,858		40,166			
<b>Annual mean</b>	256		110		293	
<b>Highest annual mean</b>					754	1993
<b>Lowest annual mean</b>					43.9	1977
<b>Highest daily mean</b>	3,530	Jun 13	780	Jun 18	5,860	Jun 11, 2004
<b>Lowest daily mean</b>	37	Dec 4	27	Jan 16	<sup>a</sup> 11	Feb 18, 1968
<b>Annual seven-day minimum</b>	38	Dec 21	28	Feb 2	11	Feb 18, 1968
<b>Maximum peak flow</b>			<sup>b</sup> 932	Jun 18	<sup>c</sup> 6,080	Jun 12, 2004
<b>Maximum peak stage</b>			<sup>d</sup> 6.54	Feb 11	<sup>d</sup> 12.74	Mar 5, 1974
<b>Instantaneous low flow</b>			<sup>e</sup> 26	Nov 29	10	Oct 27, 1976
<b>Annual runoff (ac-ft)</b>	186,200		79,670		212,300	
<b>Annual runoff (cfsm)</b>	0.590		0.253		0.674	
<b>Annual runoff (inches)</b>	8.03		3.43		9.15	
<b>10 percent exceeds</b>	679		269		709	
<b>50 percent exceeds</b>	80		59		130	
<b>90 percent exceeds</b>	41		33		33	

<sup>a</sup> Many days in 1968 and 1977.

<sup>b</sup> Gage height, 6.03 ft.

<sup>c</sup> Gage height, 11.31 ft.

<sup>d</sup> Backwater from ice.

<sup>e</sup> Result of freeze-up.

