

## 05062000 BUFFALO RIVER NEAR DILWORTH, MN

LOCATION--Lat 46°57'40", long 96°39'40", in SW $\frac{1}{4}$  SE $\frac{1}{4}$  sec. 6, T.140 N., R.47 W., Clay County, Hydrologic Unit 09020106, on left bank, at County Road 94 bridge, 4.5 mi southeast of Kragnes, 6.5 mi northeast of Dilworth, and 9 mi downstream from South Branch.

DRAINAGE AREA.--975 mi<sup>2</sup>.

PERIOD OF RECORD.--March 1931 to current year. Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WSP 1308: 1931(M).

GAGE.--Water-stage recorder. Datum of gage is 878.31 ft above sea level (NGVD of 1929, levels by U.S. Army Corps of Engineers). Prior to April 5, 1937, nonrecording gage at same site and datum.

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

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	76	e102	e59	e48	e43	e42	184	158	166	1,310	50	24
2	73	e108	e57	e48	e43	e42	183	153	149	1,300	47	23
3	77	e113	e54	e48	e42	e42	175	142	138	1,190	45	22
4	79	e112	e51	e47	e42	e42	170	134	134	996	43	22
5	82	e108	e48	e47	e42	e42	161	140	122	766	43	22
6	92	e105	e49	e47	e42	e42	146	161	115	521	45	21
7	102	e100	e50	e47	e42	e42	157	210	127	330	46	21
8	110	e97	e51	e48	e42	e42	152	234	120	236	42	20
9	116	e95	e52	e48	e42	e42	138	266	115	200	40	19
10	127	e94	e53	e47	e43	e43	126	394	115	217	39	19
11	129	e93	e54	e47	e43	e43	119	456	128	234	39	19
12	127	e92	e54	e47	e43	e44	117	494	152	240	37	21
13	130	e88	e54	e46	e43	e47	115	519	182	256	35	21
14	124	e84	e54	e46	e43	e50	115	515	192	268	33	22
15	118	e74	e53	e46	e43	e64	119	468	199	265	33	23
16	115	e72	e53	e46	e43	e100	123	404	198	240	31	23
17	115	e73	e52	e46	e44	e175	144	350	182	208	31	22
18	117	e74	e51	e45	e44	e260	185	320	155	172	30	22
19	121	e74	e50	e45	e44	e320	233	316	136	137	30	24
20	124	e74	e49	e45	e45	e372	307	407	122	117	28	27
21	127	e73	e48	e45	e44	e450	360	407	107	103	28	29
22	134	e72	e48	e44	e44	e505	359	398	98	90	27	31
23	140	e70	e47	e44	e43	e525	335	387	575	81	26	33
24	144	e67	e47	e44	e43	e515	306	357	886	74	26	35
25	145	e62	e47	e44	e42	e480	266	331	785	68	25	35
26	138	e58	e48	e44	e42	e424	230	303	843	66	26	35
27	132	e59	e48	e44	e42	e370	204	272	913	64	26	35
28	127	e60	e49	e43	e42	e300	186	251	1,010	59	26	35
29	126	e61	e49	e43	---	269	173	233	1,130	57	26	34
30	124	e60	e48	e43	---	230	165	205	1,240	53	25	33
31	e107	---	e48	e43	---	199	---	185	---	51	25	---
TOTAL	3,598	2,474	1,575	1,415	1,200	6,163	5,753	9,570	10,534	9,969	1,053	772
MEAN	116	82.5	50.8	45.6	42.9	199	192	309	351	322	34.0	25.7
MAX	145	113	59	48	45	525	360	519	1,240	1,310	50	35
MIN	73	58	47	43	42	42	115	134	98	51	25	19
AC-FT	7,140	4,910	3,120	2,810	2,380	12,220	11,410	18,980	20,890	19,770	2,090	1,530
CFSM	0.12	0.08	0.05	0.05	0.04	0.20	0.20	0.32	0.36	0.33	0.03	0.03
IN.	0.14	0.09	0.06	0.05	0.05	0.24	0.22	0.37	0.40	0.38	0.04	0.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2003, BY WATER YEAR (WY)

MEAN	63.6	65.6	38.9	24.8	28.0	199	604	252	230	216	73.6	62.7
MAX	279	575	240	99.0	285	1,308	3,412	1,144	2,138	2,814	910	517
(WY)	(1999)	(2001)	(1999)	(2001)	(1998)	(1966)	(1997)	(1998)	(1962)	(1975)	(1993)	(1944)
MIN	5.48	8.74	4.75	0.87	0.76	2.26	33.5	27.2	15.1	2.23	0.000	0.79
(WY)	(1940)	(1937)	(1938)	(1940)	(1940)	(1940)	(1931)	(1931)	(1934)	(1936)	(1936)	(1936)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1931 - 2003	
ANNUAL TOTAL	73,010		54,076		156	
ANNUAL MEAN	200		148		477	
HIGHEST ANNUAL MEAN					25.6	
LOWEST ANNUAL MEAN					1998	
HIGHEST DAILY MEAN	1,630	Jun 11	1,310	Jul 1	13,500	Jul 2, 1975
LOWEST DAILY MEAN	47	Dec 23	19	Sep 9-11	a0.00	Jul 22, 1936
ANNUAL SEVEN-DAY MINIMUM	48	Dec 21	20	Sep 6	0.00	Jul 28, 1936
MAXIMUM PEAK FLOW			1,350	Jul 1	13,600	Jul 2, 1975
MAXIMUM PEAK STAGE			13.45	Jul 1	27.10	Jul 2, 1975
INSTANTANEOUS LOW FLOW			18	Sep 9	a0.00	Jul 22, 1936
ANNUAL RUNOFF (AC-FT)	144,800		107,300		113,300	
ANNUAL RUNOFF (CFSM)	0.21		0.15		0.16	
ANNUAL RUNOFF (INCHES)	2.79		2.06		2.18	
10 PERCENT EXCEEDS	374		353		339	
50 PERCENT EXCEEDS	110		72		43	
90 PERCENT EXCEEDS	55		31		10	

a Occurred many days in 1936.  
 e Estimated.

