

## 05062000 BUFFALO RIVER NEAR DILWORTH, MN

LOCATION--Lat 46°57'40", long 96°39'40", in SW<sup>1</sup>/<sub>4</sub> SE<sup>1</sup>/<sub>4</sub> 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 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	40	e43	e38	e34	e77	904	116	941	73	70	40
2	31	e40	e43	e38	e34	e86	812	115	1,190	70	59	42
3	30	e39	e43	e38	e35	e94	676	111	1,400	68	65	48
4	29	e38	e43	e37	e36	e102	565	105	1,540	70	104	50
5	29	e37	e44	e37	e37	e104	477	104	1,580	69	138	210
6	29	e37	e44	e37	e38	e102	413	100	1,480	73	156	824
7	29	e36	e44	e37	e39	e100	372	95	1,250	89	190	1,210
8	29	e36	e43	e37	e40	e110	333	91	905	104	228	1,150
9	52	e37	e41	e37	e40	e120	297	89	605	115	203	1,020
10	50	e40	e38	e37	e41	e140	272	84	438	136	210	966
11	47	48	e35	e37	e42	e180	253	88	355	167	222	998
12	45	49	e35	e37	e42	e230	238	127	305	210	207	995
13	44	50	e36	e37	e43	e260	224	205	267	284	167	894
14	43	45	e37	e37	e44	e250	211	555	234	308	127	705
15	42	53	e38	e37	e45	e235	201	805	212	278	102	472
16	43	57	e39	e37	e45	e227	189	869	199	235	86	315
17	45	e70	e40	e37	e46	e227	183	791	185	189	72	251
18	83	e74	e40	e37	e47	e230	180	643	172	152	64	241
19	99	e73	e40	e37	e48	e235	183	522	159	131	55	243
20	99	e70	e41	e37	e49	e260	191	488	146	117	51	237
21	94	e64	e41	e37	e51	e290	197	481	133	106	51	229
22	86	e58	e41	e37	e53	e320	197	421	121	95	50	221
23	60	e50	e41	e37	e56	e350	190	376	113	85	47	274
24	48	e44	e42	e36	e58	e400	182	347	106	77	44	338
25	44	e39	e42	e36	e58	e520	169	327	100	70	43	390
26	41	e39	e42	e36	e59	e700	157	317	94	64	42	438
27	40	e40	e43	e35	e61	e1,000	146	313	91	57	42	454
28	39	e41	e42	e35	e65	e1,100	137	309	88	64	42	429
29	39	e42	e41	e34	e70	e1,050	127	299	83	188	41	385
30	40	e43	e40	e34	---	992	121	324	79	150	41	344
31	40	---	e38	e34	---	941	---	641	---	91	42	---
TOTAL	1,501	1,429	1,260	1,134	1,356	11,032	8,797	10,258	14,571	3,985	3,061	14,413
MEAN	48.4	47.6	40.6	36.6	46.8	356	293	331	486	129	98.7	480
MAX	99	74	44	38	70	1,100	904	869	1,580	308	228	1,210
MIN	29	36	35	34	34	77	121	84	79	57	41	40
AC-FT	2,980	2,830	2,500	2,250	2,690	21,880	17,450	20,350	28,900	7,900	6,070	28,590
CFSM	0.05	0.05	0.04	0.04	0.05	0.36	0.30	0.34	0.50	0.13	0.10	0.49
IN.	0.06	0.05	0.05	0.04	0.05	0.42	0.34	0.39	0.56	0.15	0.12	0.55

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2004, BY WATER YEAR (WY)

MEAN	63.4	65.4	38.9	25.0	28.3	201	600	254	233	215	73.9	68.4
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	0.00	0.79
(WY)	(1940)	(1937)	(1938)	(1940)	(1940)	(1940)	(1931)	(1931)	(1934)	(1936)	(1936)	(1936)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1931 - 2004	
ANNUAL TOTAL	50,619		72,797			
ANNUAL MEAN	139		199		157	
HIGHEST ANNUAL MEAN					477	1998
LOWEST ANNUAL MEAN					25.6	1934
HIGHEST DAILY MEAN	1,310	Jul 1	1,580	Jun 5	13,500	Jul 2, 1975
LOWEST DAILY MEAN	19	Sep 9	29	Oct 4-8	a0.00	Jul 22, 1936
ANNUAL SEVEN-DAY MINIMUM	20	Sep 6	29	Oct 2	0.00	Jul 28, 1936
MAXIMUM PEAK FLOW			1,590	Jun 5	13,600	Jul 2, 1975
MAXIMUM PEAK STAGE			14.52	Jun 5	27.10	Jul 2, 1975
INSTANTANEOUS LOW FLOW			29	Oct 4	a0.00	Jul 22, 1936
ANNUAL RUNOFF (AC-FT)	100,400		144,400		113,700	
ANNUAL RUNOFF (CFSM)	0.142		0.204		0.161	
ANNUAL RUNOFF (INCHES)	1.93		2.78		2.19	
10 PERCENT EXCEEDS	353		498		340	
50 PERCENT EXCEEDS	46		83		43	
90 PERCENT EXCEEDS	29		37		10	

a Occurred many days in 1936.  
 e Estimated.

