

05062000 BUFFALO RIVER NEAR DILWORTH, MN

LOCATION--Lat 46°57'40", long 96°39'40", in SW¹/₄ SE¹/₄ 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 mi².

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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	304	1,770	e280	e67	e67	e82	1,810	253	485	571	119	970
2	279	1,720	e270	e66	e68	e83	1,600	241	435	688	115	862
3	261	1,690	e260	e65	e69	e84	1,430	228	389	916	111	695
4	240	1,640	e250	e63	e70	e84	1,260	213	382	1,090	109	500
5	222	1,530	e240	e62	e71	e85	1,070	202	398	1,180	100	352
6	207	1,350	e230	e61	e72	e86	876	184	449	1,150	91	331
7	193	1,120	e230	e61	e73	e89	733	168	545	1,010	84	355
8	184	871	e230	e60	e73	e93	648	164	687	761	78	357
9	174	697	e225	e60	e74	e97	590	170	824	546	75	365
10	165	597	e215	e59	e74	e100	540	278	887	440	76	372
11	160	533	e190	e59	e74	e102	507	310	947	384	77	350
12	161	486	e175	e59	e75	e103	543	283	1,200	344	96	308
13	153	448	e150	e59	e76	e104	709	287	1,350	310	124	270
14	146	411	e140	e58	e77	e104	e865	312	1,470	280	135	238
15	146	383	e120	e58	e78	e104	893	367	1,590	254	128	209
16	143	366	e110	e58	e78	e103	885	380	1,710	231	112	183
17	141	354	e100	e58	e79	e102	894	394	1,850	214	105	166
18	142	343	e94	e59	e79	e101	824	401	1,950	189	232	149
19	148	334	e87	e59	e79	e103	680	375	1,920	174	265	132
20	153	329	e81	e59	e79	e105	573	340	1,770	160	385	123
21	154	320	e76	e59	e79	e115	508	315	1,550	142	397	124
22	156	313	e74	e60	e79	e150	465	297	1,220	132	399	119
23	166	307	e72	e60	e79	e210	434	276	823	131	424	111
24	243	283	e71	e60	e79	e290	409	260	555	121	457	103
25	400	302	e70	e60	e80	e340	372	248	432	118	464	98
26	615	e310	e70	e61	e80	e400	337	248	371	119	601	96
27	750	e305	e69	e61	e81	e520	323	289	339	122	742	95
28	835	e300	e69	e62	e81	e700	307	390	319	130	690	100
29	890	e295	e69	e63	---	e900	289	502	378	137	727	108
30	1,210	e285	e69	e64	---	e1,300	272	538	514	131	880	113
31	1,660	---	e69	e66	---	1,690	---	522	---	126	980	---
TOTAL	10,801	19,992	4,455	1,886	2,123	8,529	21,646	9,435	27,739	12,301	9,378	8,354
MEAN	348	666	144	60.8	75.8	275	722	304	925	397	303	278
MAX	1,660	1,770	280	67	81	1,690	1,810	538	1,950	1,180	980	970
MIN	141	283	69	58	67	82	272	164	319	118	75	95
AC-FT	21,420	39,650	8,840	3,740	4,210	16,920	42,930	18,710	55,020	24,400	18,600	16,570
CFSM	0.36	0.68	0.15	0.06	0.08	0.28	0.74	0.31	0.95	0.41	0.31	0.29
IN.	0.41	0.76	0.17	0.07	0.08	0.33	0.83	0.36	1.06	0.47	0.36	0.32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2005, BY WATER YEAR (WY)

MEAN	67.3	73.5	40.4	25.5	28.9	202	601	254	242	217	77.0	71.2
MAX	348	666	240	99.0	285	1,308	3,412	1,144	2,138	2,814	910	517
(WY)	(2005)	(2005)	(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)

05062000 BUFFALO RIVER NEAR DILWORTH, MN—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1931 - 2005	
ANNUAL TOTAL	103,855		136,639		160	
ANNUAL MEAN	284		374		25.6	
HIGHEST ANNUAL MEAN					477	1998
LOWEST ANNUAL MEAN					25.6	1934
HIGHEST DAILY MEAN	1,770	Nov 1	1,950	Jun 18	13,500	Jul 2, 1975
LOWEST DAILY MEAN	34	Jan 29	58	Jan 14-17	a0.00	Jul 22, 1936
ANNUAL SEVEN-DAY MINIMUM	34	Jan 27	58	Jan 11	0.00	Jul 28, 1936
MAXIMUM PEAK FLOW			1,960	Jun 18	13,600	Jul 2, 1975
MAXIMUM PEAK STAGE			16.24	Jun 18	27.10	Jul 2, 1975
INSTANTANEOUS LOW FLOW			b58	Jan 14	a0.00	Jul 22, 1936
ANNUAL RUNOFF (AC-FT)	206,000		271,000		115,800	
ANNUAL RUNOFF (CFSM)	0.291		0.384		0.164	
ANNUAL RUNOFF (INCHES)	3.96		5.21		2.23	
10 PERCENT EXCEEDS	807		896		350	
50 PERCENT EXCEEDS	166		231		44	
90 PERCENT EXCEEDS	38		69		10	

- a Occurred many days in 1936.
- b Estimated daily discharge, backwater from ice.
- e Estimated.

