

**RED RIVER OF THE NORTH BASIN**

**05062000 BUFFALO RIVER NEAR DILWORTH, MN**

LOCATION--Lat 46° 57'40", long 96° 39'40", in SW¼ SE¼sec. 6, T.140 N., R.47 W., Clay County, Hydrologic Unit 09020106, on left bank 4.5 mi southeast of Kragnes, 6.5 mi northeast of Dilworth, and 9 mi downstream from South Branch.

DRAINAGE AREA.--1,040 mi<sup>2</sup>, approximately.

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 (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, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997**

**DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
JUL	AUG	SEP							
1	42	e160	e71	e37	e37	e33	e160	723	396
500	150	62							
2	40	e180	e71	e36	e36	e33	e300	647	364
457	136	96							
3	39	167	e70	e36	e36	e32	e700	576	339
424	132	154							
4	43	192	e69	e36	e36	e32	e1600	516	316
451	136	152							
5	41	175	e69	e36	e36	e32	e3600	474	295
535	145	155							
6	37	156	e68	e35	e36	e32	e8370	445	273
631	146	141							
7	36	153	e68	e35	e35	e32	e7300	416	256
698	151	125							
8	36	152	e67	e35	e35	e32	e6500	401	238
735	150	123							
9	34	151	e67	e35	e35	e32	e5700	391	222
740	141	126							
10	33	e142	e66	e35	e35	e32	e5200	384	208
723	131	120							

11	35	e130	e65	e35	e35	e32	e4800	374	196
695	125	115							
12	37	e120	e64	e35	e34	e32	e4600	368	187
664	120	111							
13	40	e105	e63	e35	e34	e32	e4300	363	177
618	114	112							
14	38	e94	e62	e35	e33	e32	e5200	363	167
575	105	135							
15	35	e85	e60	e35	e33	e32	e6950	e355	180
567	100	148							
16	34	e86	e58	e35	e33	e32	e6400	e340	186
568	97	139							
17	35	e86	e56	e35	e33	e32	5410	e330	183
542	95	132							
18	38	e84	e54	e36	e33	e32	4290	e320	177
497	93	124							
19	47	e77	e52	e37	e33	e32	3500	e310	174
444	88	114							
20	56	e77	e51	e38	e33	e32	2900	e305	169
404	86	103							
21	64	e76	e49	e39	e33	e33	2460	e300	177
379	84	94							
22	64	e76	e48	e40	e33	e33	2110	e320	174
353	80	87							
23	64	e75	e47	e39	e33	e34	1840	441	300
324	76	82							
24	68	e74	e45	e39	e33	e34	1620	565	612
296	73	76							
25	69	e74	e44	e39	e33	e35	1440	591	684
269	71	70							
26	71	e73	e42	e39	e33	e35	1270	578	680
246	70	68							
27	82	e73	e41	e38	e33	e36	1130	611	720
226	65	68							
28	83	e72	e40	e38	e33	e37	1010	625	711
208	61	64							
29	87	e72	e39	e38	---	e38	900	589	630
192	59	63							
30	111	e72	e38	e37	---	e40	809	520	544
181	59	62							
31	e145	---	e37	e37	---	e43	---	452	---
166	57	---							
TOTAL	1684	3309	1741	1135	955	1040	102369	13993	9935
14308	3196	3221							
MEAN	54.3	110	56.2	36.6	34.1	33.5	3412	451	331
462	103	107							
MAX	145	192	71	40	37	43	8370	723	720
740	151	155							
MIN	33	72	37	35	33	32	160	300	167
166	57	62							
AC-FT	3340	6560	3450	2250	1890	2060	203000	27760	19710

28380	6340	6390							
CFSM	.05	.11	.05	.04	.03	.03	3.28	.43	.32
	.44	.10							
IN.	.06	.12	.06	.04	.03	.04	3.66	.50	.36
	.51	.11							

- e Estimated

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1997, BY WATER YEAR (WY)**

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
JUL	AUG	SEP							
MEAN	53.8	51.0	30.5	20.3	20.4	181	585	228	197
187	72.3	54.1							
MAX	200	305	97.0	53.5	61.1	1308	3412	909	2138
2814	910	517							
(WY)	1996	1972	1972	1994	1984	1966	1997	1986	1962
1975	1993	1944							
MIN	5.48	8.74	4.75	.87	.76	2.26	33.5	27.2	15.1
2.23	.000	.79							
(WY)	1940	1937	1938	1940	1940	1940	1931	1931	1934
1936	1936	1936							
<i>SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1931 - 1997</i>									
ANNUAL TOTAL			78213			156886			
ANNUAL MEAN			214			430			142
HIGHEST ANNUAL MEAN									
441		1975							
LOWEST ANNUAL MEAN									
25.6		1934							
HIGHEST DAILY MEAN			2680	Apr 13		8370	Apr 6		13500
Jul 2 1975									
LOWEST DAILY MEAN			21	Sep 19		32	Mar 3-20		.00a
Jul 22 1936									
ANNUAL SEVEN-DAY MINIMUM			21	Sep 19		32	Mar 3		.00
Jul 28 1936									
INSTANTANEOUS PEAK FLOW									13600
Jul 2 1975									
INSTANTANEOUS PEAK STAGE						27.02b	Apr 6		27.10
Jul 2 1975									
INSTANTANEOUS LOW FLOW									.00
Jul 22 1936									
ANNUAL RUNOFF (AC-FT)			155100			311200			102600
ANNUAL RUNOFF (CFSM)			.21			.41			.14
ANNUAL RUNOFF (INCHES)			2.80			5.61			1.85
10 PERCENT EXCEEDS			481			688			299
50 PERCENT EXCEEDS			51			85			36
90 PERCENT EXCEEDS			29			33			9.5

- a Occurred many times in 1936.

b Highwater mark, backwater from ice.

