

RED RIVER OF THE NORTH BASIN--Continued

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 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 (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 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e91	286	551	e81	e79	e180	1580	248	259	242	96	113
2	e90	275	556	e79	e79	e200	1630	233	249	219	89	138
3	e90	263	532	e76	e80	e213	1550	219	242	201	84	254
4	e90	251	491	e74	e80	e220	1520	211	237	270	79	640
5	e105	235	451	e73	e80	e218	1490	228	239	398	76	897
6	e130	e225	408	e72	e81	e216	1440	284	261	499	73	952
7	e140	216	369	e71	e82	e213	1410	344	287	574	70	967
8	e145	207	e335	e71	e82	e210	1320	442	355	603	67	996
9	e146	201	e310	e70	e83	e204	1160	516	415	589	62	1020
10	e147	200	e290	e70	e84	e202	978	837	437	528	63	1030
11	e147	195	e265	e70	e85	e198	836	1100	427	451	71	985
12	e145	181	e245	e70	e86	e197	729	1090	420	382	92	909
13	e143	e175	e230	e69	e86	e200	641	1140	408	322	207	794
14	e142	e188	e215	e69	e87	e205	570	1220	377	273	281	661
15	e155	e200	e200	e70	e88	e235	516	1280	328	236	269	537
16	e210	e195	e190	e70	e88	e290	478	1290	287	211	244	455
17	e370	e190	e175	e71	e89	e360	453	1240	252	193	220	401
18	e540	e185	e165	e72	e91	e420	429	1150	232	178	196	355
19	e600	e180	e155	e72	e92	e480	409	1020	216	165	170	309
20	607	e180	e145	e73	e93	e530	390	895	202	154	147	272
21	604	e180	e135	e73	e94	e590	377	767	193	142	127	240
22	579	e200	e128	e74	e95	e640	368	646	187	131	113	216
23	535	e250	e120	e74	e96	e680	355	546	185	123	159	198
24	461	300	e115	e75	e98	e700	337	474	191	115	250	188
25	381	324	e109	e75	e102	e630	320	424	249	111	226	179
26	333	365	e103	e76	e110	e570	306	388	313	119	197	166
27	317	386	e97	e76	e128	591	294	358	339	140	177	159
28	309	432	e93	e76	e150	670	286	333	317	160	155	161
29	298	487	e89	e77	---	1050	274	310	291	144	135	165
30	298	529	e86	e77	---	1250	262	288	271	123	118	172
31	297	---	e84	e78	---	1440	---	270	---	107	110	---
TOTAL	8645	7681	7437	2274	2568	14002	22708	19791	8666	8103	4423	14529
MEAN	279	256	240	73.4	91.7	452	757	638	289	261	143	484
MAX	607	529	556	81	150	1440	1630	1290	437	603	281	1030
MIN	90	175	84	69	79	180	262	211	185	107	62	113
AC-FT	17150	15240	14750	4510	5090	27770	45040	39260	17190	16070	8770	28820
CFSM	.29	.26	.25	.08	.09	.46	.78	.65	.30	.27	.15	.50
IN.	.33	.29	.28	.09	.10	.53	.87	.76	.33	.31	.17	.55

e Estimated

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	59.2	55.8	35.2	22.0	25.3	194	587	247	206	207	73.7	60.4
MAX	279	305	240	85.7	285	1308	3412	1144	2138	2814	910	517
(WY)	1999	1972	1999	1998	1998	1966	1997	1998	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

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1931 - 1999
ANNUAL TOTAL	182547	120827	
ANNUAL MEAN	500	331	149
HIGHEST ANNUAL MEAN			477
LOWEST ANNUAL MEAN			25.6
HIGHEST DAILY MEAN	4680	May 19	1630
LOWEST DAILY MEAN	47	Sep 12	62
ANNUAL SEVEN-DAY MINIMUM	50	Sep 20	69
INSTANTANEOUS PEAK FLOW			1640
INSTANTANEOUS PEAK STAGE			14.90
INSTANTANEOUS LOW FLOW			61
ANNUAL RUNOFF (AC-FT)	362100	239700	108200
ANNUAL RUNOFF (CFSM)	.51	.34	.15
ANNUAL RUNOFF (INCHES)	6.96	4.61	2.08
10 PERCENT EXCEEDS	1180	712	320
50 PERCENT EXCEEDS	235	219	38
90 PERCENT EXCEEDS	76	79	9.6

a Occurred many days in 1936.

