

RED RIVER OF THE NORTH BASIN--Continued

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	172	157	e114	e75	e67	e510	530	283	190	1420	172	116
2	165	150	e114	e74	e68	e625	466	268	193	1240	150	185
3	145	145	e112	e73	e69	e770	436	255	188	1080	130	378
4	133	139	e110	e73	e70	e850	428	239	190	939	113	469
5	132	137	e108	e72	e70	e900	427	232	205	857	100	411
6	133	132	e88	e72	e71	e800	414	226	203	792	93	349
7	130	131	e94	e72	e71	e630	403	210	200	747	86	307
8	133	132	e107	e72	e71	560	397	203	202	821	81	260
9	148	131	e107	e71	e70	655	378	213	197	809	75	220
10	164	133	e107	e71	e69	683	364	231	183	753	70	186
11	171	131	e107	e71	e68	631	358	242	163	695	66	159
12	173	127	e107	e70	e67	684	347	249	141	636	61	133
13	172	125	e107	e69	e67	745	345	254	126	564	58	116
14	172	124	e107	e69	e67	762	347	258	127	493	56	105
15	171	122	e105	e69	e67	694	348	249	139	438	56	98
16	174	120	e92	e68	e67	552	353	244	268	395	57	86
17	183	118	e70	e68	e67	409	345	242	465	355	65	79
18	191	116	e68	e68	e67	341	336	236	544	315	69	73
19	196	114	e72	e68	e68	369	323	225	571	282	69	74
20	205	114	e71	e68	e68	507	325	209	1620	255	70	73
21	215	113	e70	e67	e69	599	367	197	2310	234	71	68
22	223	110	e70	e67	e70	695	415	188	3160	218	70	77
23	221	108	e71	e67	e73	788	461	179	3540	201	72	128
24	211	107	e73	e67	e76	994	483	169	3540	187	67	192
25	197	109	e75	e67	e87	1070	471	154	3330	174	62	227
26	185	109	e77	e67	e127	1060	429	142	2990	159	60	230
27	178	e103	e78	e67	e220	1060	387	135	2530	148	60	224
28	173	e109	e79	e67	e395	1030	346	135	2100	141	57	218
29	171	e110	e79	e67	e475	939	315	139	1830	153	53	204
30	164	e100	e78	e67	---	779	295	149	1620	183	51	185
31	160	---	e77	e67	---	631	---	171	---	185	85	---
TOTAL	5361	3676	2794	2150	2961	22322	11639	6526	33065	15869	2405	5630
MEAN	173	123	90.1	69.4	102	720	388	211	1102	512	77.6	188
MAX	223	157	114	75	475	1070	530	283	3540	1420	172	469
MIN	130	100	68	67	67	341	295	135	126	141	51	68
AC-FT	10630	7290	5540	4260	5870	44280	23090	12940	65580	31480	4770	11170
CFSM	.18	.13	.09	.07	.10	.74	.40	.22	1.13	.53	.08	.19
IN.	.20	.14	.11	.08	.11	.85	.44	.25	1.26	.61	.09	.21

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	60.9	56.8	36.0	22.7	26.4	202	584	246	219	211	73.7	62.3
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1931 - 2000	
ANNUAL TOTAL	108895		114398			
ANNUAL MEAN	298		313		152	
HIGHEST ANNUAL MEAN					477	
LOWEST ANNUAL MEAN					25.6	
HIGHEST DAILY MEAN	1630		Apr 2		3540	
LOWEST DAILY MEAN	62		Aug 9		51	
ANNUAL SEVEN-DAY MINIMUM	69		Aug 5		59	
INSTANTANEOUS PEAK FLOW					3560	
INSTANTANEOUS PEAK STAGE					21.67	
INSTANTANEOUS LOW FLOW					50	
ANNUAL RUNOFF (AC-FT)	216000		226900		109900	
ANNUAL RUNOFF (CFSM)	.31				.16	
ANNUAL RUNOFF (INCHES)	4.15				2.11	
10 PERCENT EXCEEDS	712		695		327	
50 PERCENT EXCEEDS	178		160		39	
90 PERCENT EXCEEDS	75		68		9.8	

a Occurred many days in 1936.
e Estimated.

