

RED RIVER OF THE NORTH BASIN--Continued

05051300 BOIS DE SIOUX RIVER NEAR DORAN, MN

LOCATION.--Lat 46°09'08", long 96°34'44", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 21, T.131 N., R.47 W., Wilken County, MN, Hydrologic Unit 09020101, on right bank, 10 ft downstream from bridge on County Highway 6, 3 miles downstream from Rabbit River, 4.3 mi southwest of Doran.

DRAINAGE AREA.--1,880 mi² (approximately).

PERIOD OF RECORD.--October 12, 1989 to current year.

GAGE.--Water-stage recorder. Datum of gage is 943.90 ft above sea level (NGVD of 1929), elevation data obtained from Wilkin County Highway Engineers.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Lake Traverse-Bois de Sioux Flood Control and Water Conservation project near White Rock, S.D.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	26	e28	e11	e6.3	e10	e425	265	106	5.1	320	51
2	2.6	43	e27	e10	e6.2	e16	311	234	63	5.3	325	71
3	4.6	45	e28	e9.8	e6.0	e110	138	284	40	5.3	340	67
4	2.1	39	e43	e9.2	e5.9	e180	137	332	25	5.3	294	58
5	2.7	31	e150	e8.7	e5.9	e205	134	235	19	5.5	212	51
6	3.0	23	e400	e8.2	e5.9	e260	105	238	16	5.5	146	47
7	2.5	18	e390	e7.8	e6.3	e320	157	175	17	5.6	120	39
8	2.8	16	e385	e7.6	e6.8	e355	163	207	22	12	120	26
9	3.4	20	e395	e8.5	e7.4	e380	166	437	17	100	111	25
10	10	27	e400	e10	e7.9	e390	203	574	18	801	96	30
11	37	25	e390	e12	e8.4	e400	228	515	34	1570	70	27
12	48	23	e380	e13	e8.5	e400	272	500	29	1650	46	19
13	47	22	e360	e13	e8.4	e400	246	581	13	1230	39	15
14	36	21	e250	e14	e8.4	e400	219	559	11	880	185	12
15	27	20	e140	e13	e8.6	e385	165	557	11	760	287	8.9
16	22	20	e70	e11	e9.3	e370	134	485	9.3	735	324	6.7
17	16	20	e37	e10	e11	e340	157	478	7.0	719	331	6.4
18	11	20	e35	e9.4	e12	e325	140	510	5.8	701	307	6.3
19	8.0	21	e33	e8.5	e14	e300	82	500	6.7	681	256	5.7
20	8.3	19	e32	e7.8	e16	e260	61	495	8.8	616	219	5.0
21	8.4	18	e37	e7.3	e18	e207	81	510	11	564	175	4.2
22	7.4	18	e30	e7.2	e17	e170	106	540	13	520	120	3.8
23	7.9	17	e24	e7.4	e16	e145	146	498	18	469	98	3.7
24	7.2	18	e20	e7.3	e15	e115	135	392	24	424	85	3.5
25	10	20	e18	e7.1	e14	e95	89	389	25	370	75	3.3
26	10	22	e16	e7.3	e13	e80	153	355	17	308	64	3.1
27	14	e25	e15	e7.7	e12	e190	195	308	12	284	52	3.1
28	13	e30	e14	e7.9	e11	e400	149	252	7.9	275	43	3.1
29	13	e33	e13	e7.3	---	e640	268	277	5.6	256	40	3.2
30	15	e32	e12	e6.8	---	e620	293	415	4.9	254	38	3.3
31	18	---	e12	e6.5	---	e540	---	217	---	284	39	---
TOTAL	421.0	732	4184	282.3	285.2	9008	5258	12314	617.0	14500.6	4977	611.3
MEAN	13.6	24.4	135	9.11	10.2	291	175	397	20.6	468	161	20.4
MAX	48	45	400	14	18	640	425	581	106	1650	340	71
MIN	2.1	16	12	6.5	5.9	10	61	175	4.9	5.1	38	3.1
AC-FT	835	1450	8300	560	566	17870	10430	24420	1220	28760	9870	1210
CFSM	0.01	0.01	0.07	0.00	0.01	0.15	0.09	0.21	0.01	0.25	0.09	0.01
IN.	0.01	0.01	0.08	0.01	0.01	0.18	0.10	0.24	0.01	0.29	0.10	0.01

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	89.7	49.3	33.6	6.99	29.9	464	1327	719	440	472	203	149
MAX	592	465	222	43.9	155	1757	5936	1893	1432	1477	1486	1244
(WY)	1994	1996	1999	1997	1998	1995	1997	1997	2001	1993	1993	1993
MIN	0.026	1.97	0.65	0.077	0.000	25.5	12.6	11.8	12.6	4.37	0.000	0.000
(WY)	1991	1991	1991	1991	1990	1990	1990	1990	1990	1990	1990	1990

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1990 - 2002

ANNUAL TOTAL	291931.18	53190.4	
ANNUAL MEAN	800	146	333
HIGHEST ANNUAL MEAN			786
LOWEST ANNUAL MEAN			8.77
HIGHEST DAILY MEAN	8220	Apr 14	1650
LOWEST DAILY MEAN	0.00	Jan 20	2.1
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 20	2.9
MAXIMUM PEAK FLOW			1720
MAXIMUM PEAK STAGE			14.86
INSTANTANEOUS LOW FLOW			1.8
ANNUAL RUNOFF (AC-FT)	579000	105500	240900
ANNUAL RUNOFF (CFSM)	0.43	0.078	0.18
ANNUAL RUNOFF (INCHES)	5.78	1.05	2.40
10 PERCENT EXCEEDS	1630	400	1150
50 PERCENT EXCEEDS	33	31	14
90 PERCENT EXCEEDS	0.05	6.3	0.29

a Many days, several years; result of regulation.
e Estimated.

