

RED RIVER OF THE NORTH BASIN--Continued

05050000 BOIS DE SIOUX RIVER NEAR WHITE ROCK, SD

LOCATION.--Lat 45°51'45", long 96°34'25", in SW¹/₄SW¹/₄ sec. 27, T.128 N., R.47 W., Roberts County, Hydrologic Unit 09020101, on Sisseton Indian Reservation, on left bank at Big Slough Outlet, 300 ft downstream from White Rock Dam, 4 mi south of White Rock and 5 mi northwest of Wheaton, MN.

DRAINAGE AREA.--1,160 mi² (approximately).

PERIOD OF RECORD.--October 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 960.00 ft. above sea level, (adjustment of 1912, levels by U.S. Army Corps of Engineers). Prior to Jan. 14, 1943, nonrecording gage at same site at datum 0.11 ft lower. Jan. 15, 1943 to Sept. 30, 1963, water-stage recorder at same site at datum 0.11 ft lower.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow regulated by Lake Traverse-Boise de Sioux Flood Control and Water Conservation project.

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	8.6	7.6	5.7	e3.6	e2.6	248	19	152	9.2	6.3	2.2	e.07
2	8.2	5.5	5.1	e3.3	e2.7	416	18	151	8.0	7.8	1.6	.06
3	9.3	5.8	5.7	e3.2	e2.7	509	13	154	8.4	11	1.3	.10
4	9.1	6.7	5.6	e3.2	e2.7	539	18	148	9.2	9.6	1.1	.11
5	7.1	5.1	3.7	e3.2	e2.7	529	18	152	13	13	1.1	.10
6	8.0	6.2	e4.3	e3.2	e2.7	527	13	149	13	23	1.1	.14
7	9.1	6.4	e4.1	e3.2	e2.7	526	12	146	10	101	.91	.07
8	11	12	e4.0	e3.2	e2.7	529	17	150	8.1	178	.97	.07
9	12	8.2	e4.0	e3.2	e2.7	462	11	157	15	182	.79	.04
10	9.9	4.9	e3.9	e3.3	e2.7	438	12	154	6.7	186	.56	.00
11	11	7.0	e3.9	e3.3	e2.7	433	13	152	4.3	263	.42	.00
12	6.6	5.8	e4.0	e3.2	e2.6	418	17	164	5.7	451	.33	.00
13	8.3	5.0	e4.1	e3.1	e2.6	411	15	151	6.1	550	.23	.00
14	9.8	4.7	e4.3	e3.0	e2.6	349	13	150	6.6	535	.19	.00
15	8.1	4.9	e4.2	e2.9	e2.6	281	12	147	9.2	526	.16	.00
16	7.8	5.3	e3.9	e2.8	e2.6	277	16	130	15	521	.13	.00
17	8.3	5.5	e3.7	e2.7	e2.6	268	20	99	13	514	.21	.00
18	8.6	4.5	e3.5	e2.6	e2.6	270	18	94	9.9	508	.25	.00
19	8.3	4.8	e3.3	e2.5	e2.6	261	16	97	10	505	.27	.00
20	11	5.3	e3.2	e2.5	e2.7	216	36	94	10	422	.26	.00
21	8.0	5.2	e3.2	e2.5	e2.7	146	81	91	9.4	277	.46	.00
22	5.9	5.1	e3.2	e2.5	e2.8	141	147	89	4.4	239	.48	.01
23	6.6	4.9	e3.3	e2.5	e3.3	75	142	86	7.2	230	.47	.03
24	8.7	6.0	e3.4	e2.5	e11	26	143	84	5.7	224	.38	.23
25	6.7	6.2	e3.6	e2.5	e45	26	142	63	6.3	220	.31	.66
26	7.1	5.4	e3.7	e2.5	146	22	143	22	7.4	188	.28	.65
27	6.8	e4.3	e3.8	e2.5	96	19	143	8.3	6.9	139	.23	.28
28	6.8	e3.7	e3.9	e2.5	51	18	144	12	5.6	85	.20	.21
29	6.4	e3.9	e3.9	e2.6	53	19	145	11	5.5	46	.12	.30
30	6.4	6.4	e3.8	e2.6	---	19	147	8.4	6.6	45	.08	.31
31	9.1	---	e3.7	e2.6	---	20	---	8.4	---	23	.07	---
TOTAL	258.6	172.3	123.7	89.0	463.9	8438	1704	3274.1	255.4	7228.7	17.16	3.44
MEAN	8.34	5.74	3.99	2.87	16.0	272	56.8	106	8.51	233	.55	.11
MAX	12	12	5.7	3.6	146	539	147	164	15	550	2.2	.66
MIN	5.9	3.7	3.2	2.5	2.6	18	11	8.3	4.3	6.3	.07	.00
AC-FT	513	342	245	177	920	16740	3380	6490	507	14340	34	6.8
CFSM	.01	.00	.00	.00	.01	.23	.05	.09	.01	.20	.00	.00
IN.	.01	.01	.00	.00	.01	.27	.05	.10	.01	.23	.00	.00

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	29.4	16.5	8.77	3.42	7.64	64.1	302	301	244	162	71.0	36.2
MAX	535	307	207	42.4	148	628	3814	1445	1103	1035	1182	1062
(WY)	1994	1996	1999	1997	1997	1996	1997	1997	1986	1962	1993	1993
MIN	.000	.000	.000	.000	.000	.000	.000	.23	.010	.000	.000	.000
(WY)	1942	1942	1942	1942	1942	1942	1942	1977	1977	1961	1970	1960

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1942 - 2000
ANNUAL TOTAL	47437.01	22028.30	
ANNUAL MEAN	130	60.2	104 ^a
HIGHEST ANNUAL MEAN			536
LOWEST ANNUAL MEAN			.38
HIGHEST DAILY MEAN	734 Jun 11	550 Jul 13	7710 Apr 16 1997
LOWEST DAILY MEAN	.76 Aug 3	.00 Sep 10-21	.00 ^b Oct 1 1941
ANNUAL SEVEN-DAY MINIMUM	3.3 Dec 18	.00 Sep 10	.00 Oct 1 1941
INSTANTANEOUS PEAK FLOW		593 Mar 3	8750 ^c Apr 20 1997
INSTANTANEOUS PEAK STAGE		7.92 Mar 3	16.90 ^c Apr 20 1997
ANNUAL RUNOFF (AC-FT)	94090	43690	75410
ANNUAL RUNOFF (CFSM)	.11	.052	.090
ANNUAL RUNOFF (INCHES)	1.52	.71	1.22
10 PERCENT EXCEEDS	414	187	340
50 PERCENT EXCEEDS	30	6.5	3.1
90 PERCENT EXCEEDS	4.3	.26	.00

a Median of annual mean discharges is 60 ft³/s.
 b Many days, several years; result of regulation.
 c Estimated, from observed readings made under non-ideal conditions.
 Some evidence that peak occurred Apr. 16 at 7930 ft³/s.
 e Estimated.

