

06440000 MISSOURI RIVER AT PIERRE, SD

LOCATION.--Lat 44°22'23", long 100°22'03" in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.32, T.111 N., R.79 W., Hughes County, Hydrologic Unit 10140101, on left bank downstream from Dakota Minnesota and Eastern Railroad bridge, 1.3 mi upstream from Bad River, 5.8 mi downstream from Oahe Dam, and at mile 1,066.5.

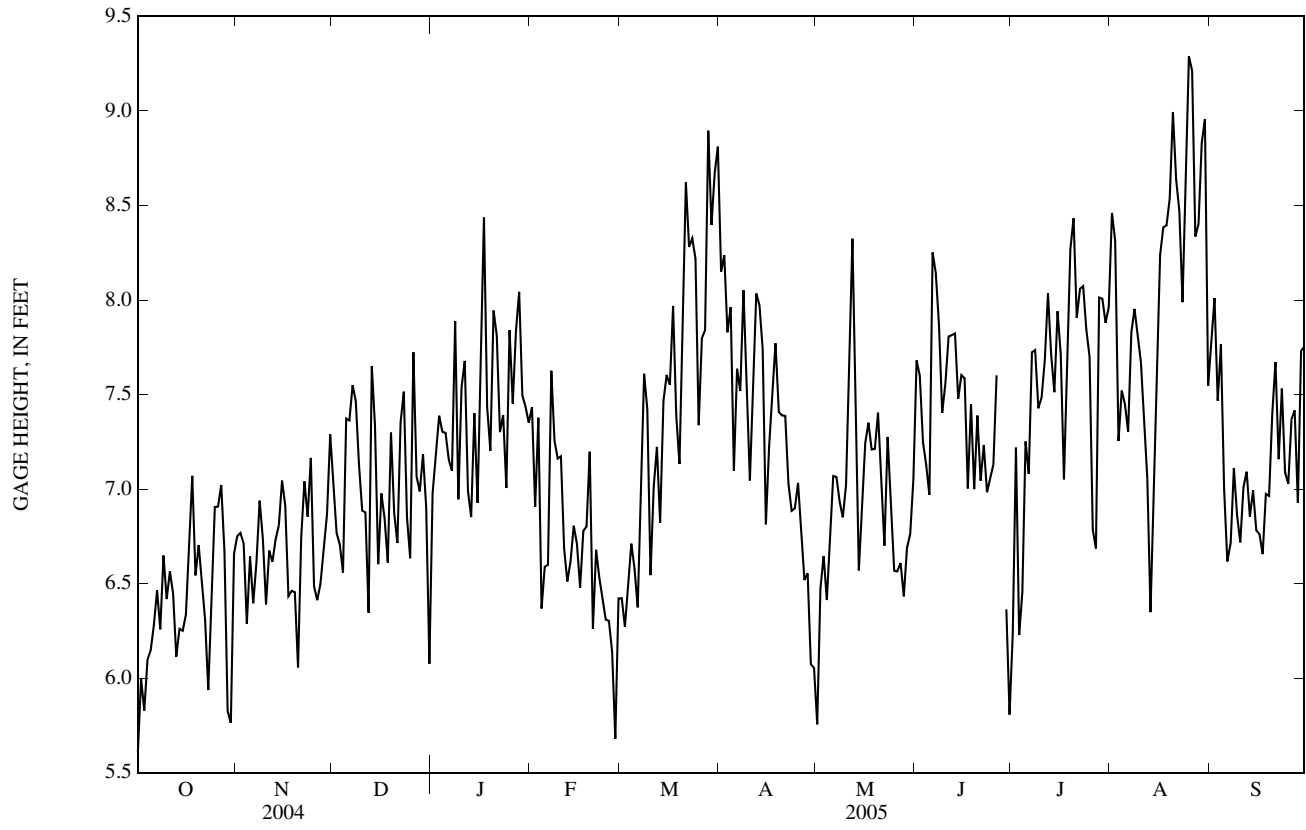
PERIOD OF RECORD.--October 1929 to September 1965, October 1988 to current year (daily gage height). Daily discharges, October 1929 to September 1965 and October 1996 to September 2000.

GAGE.--Water-stage recorder. Datum of gage is 1,414.26 ft above NGVD of 1929. Prior to Mar. 11, 1932, chain gage at same site at datum 2.00 ft higher.

REMARKS.--Records good. Stage regulated by Big Bend Dam approximately 82 mi downstream. Flow regulated by Oahe Dam 5.8 mi upstream. Gage heights for period of October 1965 to September 1988 in files of U.S. Army Corps of Engineers.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.61	6.75	7.01	6.98	7.43	6.42	8.15	5.76	7.68	6.24	8.46	7.78
2	6.00	6.77	6.77	7.17	6.91	6.27	8.24	6.47	7.60	7.22	8.31	8.01
3	5.83	6.71	6.71	7.39	7.38	6.51	7.83	6.65	7.25	6.23	7.25	7.47
4	6.10	6.29	6.56	7.30	6.37	6.71	7.96	6.41	7.13	6.46	7.52	7.77
5	6.15	6.64	7.37	7.30	6.59	6.58	7.10	6.76	6.97	7.25	7.45	7.00
6	6.28	6.40	7.36	7.16	6.60	6.37	7.64	7.07	8.25	7.08	7.30	6.62
7	6.46	6.61	7.55	7.10	7.63	6.87	7.52	7.06	8.14	7.72	7.83	6.72
8	6.26	6.94	7.47	7.89	7.25	7.61	8.05	6.93	7.87	7.74	7.95	7.11
9	6.65	6.74	7.13	6.95	7.16	7.42	7.49	6.85	7.40	7.43	7.82	6.86
10	6.42	6.39	6.89	7.54	7.17	6.54	7.05	7.02	7.56	7.48	7.67	6.72
11	6.56	6.67	6.88	7.68	6.69	7.01	7.55	7.77	7.81	7.68	7.40	7.01
12	6.45	6.62	6.34	6.99	6.51	7.22	8.03	8.32	7.81	8.03	7.05	7.09
13	6.11	6.73	7.65	6.85	6.62	6.82	7.97	7.11	7.82	7.71	6.35	6.85
14	6.26	6.81	7.33	7.40	6.81	7.47	7.74	6.57	7.48	7.51	6.95	6.99
15	6.25	7.04	6.60	6.93	6.71	7.60	6.81	6.88	7.60	7.94	7.78	6.78
16	6.33	6.91	6.98	7.48	6.48	7.55	7.22	7.24	7.59	7.71	8.24	6.76
17	6.66	6.43	6.84	8.44	6.78	7.97	7.46	7.35	7.00	7.05	8.38	6.66
18	7.07	6.46	6.61	7.43	6.80	7.39	7.77	7.21	7.45	7.62	8.39	6.97
19	6.54	6.45	7.30	7.20	7.20	7.13	7.41	7.21	7.00	8.27	8.54	6.96
20	6.70	6.06	6.87	7.94	6.26	7.81	7.39	7.40	7.39	8.43	8.99	7.40
21	6.51	6.75	6.71	7.81	6.68	8.62	7.39	7.10	7.04	7.91	8.64	7.67
22	6.31	7.04	7.35	7.30	6.53	8.28	7.03	6.70	7.23	8.06	8.47	7.16
23	5.94	6.85	7.51	7.39	6.42	8.32	6.88	7.28	6.98	8.07	7.99	7.53
24	6.44	7.16	6.85	7.01	6.31	8.22	6.90	6.95	7.06	7.84	8.56	7.09
25	6.90	6.49	6.63	7.84	6.30	7.34	7.03	6.57	7.13	7.70	9.29	7.03
26	6.91	6.41	7.72	7.45	6.14	7.80	6.78	6.56	7.60	6.79	9.21	7.37
27	7.02	6.50	7.07	7.84	5.68	7.84	6.52	6.61	---	6.69	8.34	7.42
28	6.67	6.70	6.99	8.04	6.42	8.89	6.55	6.43	---	8.01	8.40	6.93
29	5.83	6.87	7.18	7.50	---	8.40	6.07	6.69	6.36	8.01	8.83	7.73
30	5.76	7.29	6.90	7.43	---	8.67	6.05	6.76	5.81	7.88	8.96	7.75
31	6.66	---	6.08	7.35	---	8.81	---	7.05	---	7.96	7.55	---
MEAN	6.38	6.68	7.01	7.42	6.71	7.50	7.32	6.93	---	7.54	8.06	7.17
MAX	7.07	7.29	7.72	8.44	7.63	8.89	8.24	8.32	---	8.43	9.29	8.01
MIN	5.61	6.06	6.08	6.85	5.68	6.27	6.05	5.76	---	6.23	6.35	6.62



MISSOURI-FORT RANDALL RIVER BASIN

06440200 SOUTH FORK BAD RIVER NEAR COTTONWOOD, SD
(Formerly published as Buffalo Creek near Cottonwood)

LOCATION.--Lat 43°58'08", long 101°46'00", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.7, T.1 S., R.20 E., Jackson County, Hydrologic Unit 10140102, on right bank at upstream side of bridge on old U.S. Highway 16, 1.0 mi above confluence with Cottonwood Creek, and 7.0 mi east of Cottonwood.

DRAINAGE AREA.--250 mi².

PERIOD OF RECORD.--October 1954 to September 1960 (discharge measurements only), October 1988 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 2,242.96 ft above NGVD of 1929. October 1954 to September 1960, nonrecording gage at same site at different datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Satellite data-collection platform at station. Water temperature and specific conductance measured during the year are compiled in the Miscellaneous Temperature Measurements and Field Determinations section.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.07	110	0.00	0.00	2.4	0.00	1.1	0.00	0.51	0.00	0.00	0.00
2	0.01	17	0.00	0.00	2.4	0.00	0.49	0.00	36	0.00	0.00	0.00
3	0.00	8.2	0.00	0.00	1.4	0.00	0.29	0.00	45	0.00	0.00	0.00
4	0.00	3.7	0.00	0.00	0.97	0.00	0.08	0.00	17	0.00	0.00	0.00
5	0.00	1.7	0.00	0.00	0.80	0.00	0.04	0.00	7.5	0.00	0.00	0.00
6	0.00	0.93	0.00	0.00	0.52	0.00	0.00	0.00	14	0.00	0.00	0.00
7	0.00	0.42	0.00	0.00	0.30	0.00	0.00	0.00	9.9	0.00	0.00	0.00
8	0.00	0.23	0.00	0.00	0.19	0.00	0.00	0.00	2.5	0.00	0.00	0.00
9	0.00	0.13	0.00	0.00	0.10	0.00	0.00	0.00	58	0.00	0.00	0.00
10	0.00	0.07	0.00	0.00	0.09	0.00	0.00	0.05	33	0.00	0.00	0.00
11	0.00	0.03	0.00	0.00	0.08	0.00	0.02	2.9	8.6	0.00	0.00	0.00
12	0.00	0.01	0.00	0.00	0.06	0.00	0.04	307	4.9	0.00	e0.00	0.00
13	0.00	0.00	0.00	0.00	0.07	0.00	4.0	1,160	4.8	0.00	e18	0.00
14	0.00	0.00	0.00	0.00	0.05	0.00	11	320	24	0.00	e7.4	0.00
15	0.00	0.00	0.00	0.00	0.03	0.00	3.1	74	23	0.00	e3.9	0.00
16	0.00	0.00	0.00	0.00	0.01	0.00	0.98	28	19	0.00	e1.7	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.32	13	5.5	0.00	e0.78	0.00
18	0.00	0.00	0.00	e0.00	0.00	0.00	0.08	6.6	1.9	0.00	e0.78	0.00
19	0.00	0.00	0.00	e0.00	0.00	0.00	0.04	3.4	0.76	0.00	0.66	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.08	1.9	0.32	0.00	0.11	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	1.0	0.91	0.08	0.00	0.01	0.00
22	0.00	0.00	0.00	e0.00	0.00	0.00	34	0.46	0.03	0.00	0.00	0.00
23	0.00	0.00	0.00	e0.00	0.00	0.00	203	0.55	0.01	0.00	0.00	0.00
24	0.00	0.00	0.00	e0.00	0.00	0.00	30	0.25	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	9.1	0.46	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	7.7	0.00	0.00	3.9	0.29	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	12	0.00	9.2	1.4	0.11	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	6.3	0.00	18	0.36	6.0	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	5.1	---	16	0.05	2.5	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	6.0	---	5.9	0.00	0.95	0.00	0.00	0.00	0.00
31	94	---	0.00	3.4	---	3.4	---	0.86	---	0.00	0.00	---
TOTAL	94.08	142.42	0.00	40.50	9.47	52.50	304.47	1,930.19	316.31	0.00	33.34	0.00
MEAN	3.03	4.75	0.00	1.31	0.34	1.69	10.1	62.3	10.5	0.00	1.08	0.00
MAX	94	110	0.00	12	2.4	18	203	1,160	58	0.00	18	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	187	282	0.00	80	19	104	604	3,830	627	0.00	66	0.00

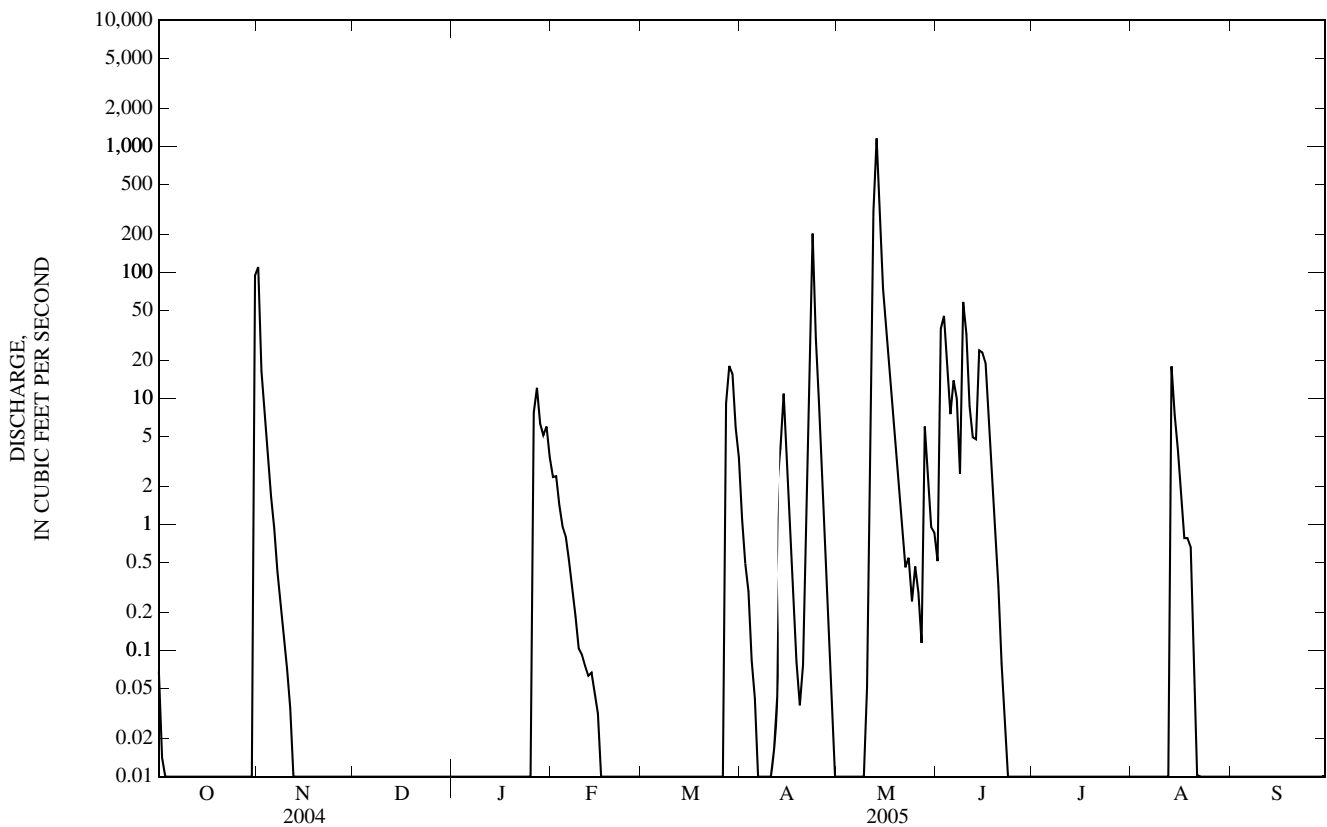
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2005, BY WATER YEAR (WY)

MEAN	5.09	3.15	0.39	0.87	36.3	29.7	22.5	69.7	54.3	12.2	8.86	4.05
MAX	39.9	29.3	3.50	4.46	555	122	150	324	347	99.5	72.6	13.0
(WY)	(1999)	(1999)	(1994)	(1994)	(1997)	(2001)	(2000)	(1995)	(1991)	(1997)	(1997)	(2004)
MIN	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.63	0.00	0.00	0.00	0.00
(WY)	(1991)	(1990)	(1991)	(1989)	(1989)	(1991)	(2004)	(2004)	(2002)	(2002)	(1989)	(2000)

06440200 SOUTH FORK BAD RIVER NEAR COTTONWOOD, SD—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1989 - 2005	
ANNUAL TOTAL	879.35		2,923.28			
ANNUAL MEAN	2.40		8.01		^a 20.5	
HIGHEST ANNUAL MEAN					94.5	1997
LOWEST ANNUAL MEAN					1.53	2002
HIGHEST DAILY MEAN	213	Sep 7	1,160	May 13	3,990	May 31, 1991
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 3	^b 0.00	Oct 2, 1988
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 3	0.00	Oct 2, 1988
MAXIMUM PEAK FLOW			1,730	May 13	15,200	May 31, 1991
MAXIMUM PEAK STAGE			12.09	May 13	17.89	May 31, 1991
ANNUAL RUNOFF (AC-FT)	1,740		5,800		14,830	
10 PERCENT EXCEEDS	1.2		6.1		19	
50 PERCENT EXCEEDS	0.00		0.00		0.09	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

a Median of annual mean discharges, 14 ft³/s.
 b No flow for many days in most years.
 c Estimated.



MISSOURI-FORT RANDALL RIVER BASIN

06441000 BAD RIVER NEAR MIDLAND, SD

LOCATION.--Lat 44°04'01", long 101°09'36", in NE¼ NW¼ sec.7, T.1 N., R.25 E., Haakon County, Hydrologic Unit 10140102, on right bank at downstream side of bridge on State Highway 63, 0.4 mi southwest of Midland, 2.0 mi upstream from Mitchell Creek, and 3.7 mi upstream from Ash Creek.

DRAINAGE AREA.--1,460 mi², approximately.

PERIOD OF RECORD.--October 1945 to current year. Prior to February 1946 monthly discharge only, published in WSP 1309.

REVISED RECORDS.--WSP 2117: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,849.14 ft above NGVD of 1929. Prior to Feb. 21, 1961, nonrecording gage, and Feb. 21, 1961, to June 14, 1967, water-stage recorder at site 4.2 mi downstream at datum 15.72 ft lower. June 15 to July 26, 1967, nonrecording gage at site 30 ft upstream and July 27, 1967, to June 14, 1971, water-stage recorder at site 60 ft upstream, both at present datum.

REMARKS.--Records good except those for Apr. 24 and May 12, which are poor. Only daily discharges above 100 ft³/s are being published. Satellite data-collection platform at station. Water temperature and specific conductance measured during the year are compiled in the Miscellaneous Temperature Measurements and Field Determinations section.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,400 ft³/s, June 15, 1967, gage height, 24.44 ft, from floodmarks, 20.10 ft, from floodmarks, at former site and datum, from rating curve extended above 16,000 ft³/s; no flow for many days in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,590 ft³/s, May 14, gage height, 11.28 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

Daily discharge above 100 ft³/s are given herewith:

April	24	e100	May	17	170
May	12	e298		18	113
	13	1140	June	15	232
	14	1450		16	220
	15	779		17	142
	16	293			

e Estimated

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06441500 BAD RIVER NEAR FORT PIERRE, SD

LOCATION.--Lat 44°19'36", long 100°23'02", in NW¹/₄ NW¹/₄ sec.10, T.4 N., R.31 E., Stanley County, Hydrologic Unit 10140102, on right bank at downstream side of highway bridge, 2.1 mi south of Fort Pierre, 4.3 mi downstream from Willow Creek, and 6.0 mi upstream from mouth.

DRAINAGE AREA.--3,107 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1928 to current year. Monthly discharge only for July 1932 to February 1934, published in WSP 1309.

REVISED RECORDS.--WSP 786: Drainage area. WSP 856: 1929(M), 1937.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,427.83 ft above NGVD of 1929. Prior to July 10, 1951, nonrecording gage at same site and datum.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite data-collection platform at station. Water temperature and specific conductance measured during the year are compiled in the Miscellaneous Temperature Measurements and Field Determinations section.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in April 1927 reached a stage of 30.89 ft, from floodmarks, discharge, about 55,000 ft³/s. Flood in July 1905 reached a stage about 2 ft higher than that in April 1927.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	165	e110	0.34	0.83	3.4	1.5	e3.0	29	9.4	4.2	e0.01	0.00
2	78	e75	0.37	0.37	2.9	1.5	e1.9	19	8.1	3.2	e0.01	0.00
3	17	e45	0.49	e0.00	3.0	1.4	e1.5	14	30	2.5	e0.01	0.00
4	9.6	e20	0.47	e0.00	2.9	1.8	e1.2	11	25	2.1	e0.01	0.00
5	6.0	e10	0.46	e0.00	2.6	2.2	1.2	8.6	19	1.7	e0.00	0.00
6	2.6	e5.0	0.49	e0.00	2.1	2.6	2.1	6.2	23	1.4	0.00	0.00
7	e2.0	e2.0	0.53	e0.00	1.7	2.8	4.4	4.5	28	1.8	0.00	0.00
8	e1.5	e1.5	0.56	e0.00	1.6	3.3	6.0	3.2	68	1.4	0.00	0.00
9	e1.3	e1.0	0.61	e0.00	1.5	5.0	7.0	88	173	1.1	0.00	0.00
10	e1.1	e0.90	0.57	e0.00	1.4	4.6	10	27	79	0.84	0.00	0.00
11	e1.0	e0.80	0.53	e0.00	1.4	e3.9	175	67	146	0.86	0.00	0.00
12	e0.90	e0.75	0.52	e0.00	1.4	e3.8	410	3,660	194	e0.50	0.00	0.00
13	e0.80	e0.70	0.37	e0.00	1.7	e3.6	238	2,170	251	e0.35	0.00	0.00
14	e0.75	e0.70	0.39	e0.00	1.7	e3.7	123	1,750	381	e0.30	0.00	0.00
15	e0.70	e0.65	0.40	e0.00	1.8	e3.7	52	1,600	226	e0.25	0.00	0.00
16	e0.65	e0.65	0.49	e0.00	1.4	e3.5	25	1,260	200	e0.20	0.00	0.00
17	e0.60	e0.60	0.60	e0.00	1.4	e3.3	13	571	290	e0.15	0.00	0.00
18	e0.50	e0.60	0.52	e0.00	1.2	e3.5	6.9	379	259	e0.10	0.00	0.00
19	e0.50	e0.60	0.54	e0.00	1.2	e2.6	3.5	301	196	e0.08	0.00	0.00
20	e0.50	e0.55	0.63	e0.00	1.3	e2.1	555	285	155	e0.05	0.00	0.00
21	e0.60	0.51	0.58	e0.05	1.2	1.6	768	197	123	e0.04	0.00	0.00
22	e0.60	0.55	0.54	e2.0	1.3	1.8	1,040	155	123	e0.04	0.00	0.00
23	e1.0	0.54	0.42	e2.5	1.3	1.6	429	107	64	e0.03	0.00	0.00
24	e1.3	0.58	0.22	e1.5	1.5	1.9	294	65	38	e0.04	0.00	0.00
25	e1.3	0.73	0.50	e2.5	1.5	4.4	198	47	25	e0.03	0.00	0.00
26	e1.1	0.64	0.53	e7.5	1.7	3.9	127	31	18	e0.03	0.00	0.00
27	e1.0	0.51	0.52	e8.0	1.8	e1.9	152	23	13	e0.02	0.00	0.00
28	e1.0	0.44	0.59	e8.0	1.7	e2.2	114	16	10	e0.02	0.00	0.00
29	e10	0.48	0.64	e6.0	---	e5.7	69	12	7.9	e0.02	0.00	0.00
30	e25	0.39	0.86	e4.0	---	e7.2	45	8.6	5.9	e0.01	0.00	0.00
31	e160	---	0.88	e3.8	---	e3.8	---	8.8	---	e0.01	0.00	---
TOTAL	493.90	282.37	16.16	47.05	49.6	96.4	4,875.7	12,923.9	3,188.3	23.37	0.04	0.00
MEAN	15.9	9.41	0.52	1.52	1.77	3.11	163	417	106	0.75	0.00	0.00
MAX	165	110	0.88	8.0	3.4	7.2	1,040	3,660	381	4.2	0.01	0.00
MIN	0.50	0.39	0.22	0.00	1.2	1.4	1.2	3.2	5.9	0.01	0.00	0.00
AC-FT	980	560	32	93	98	191	9,670	25,630	6,320	46	0.08	0.00

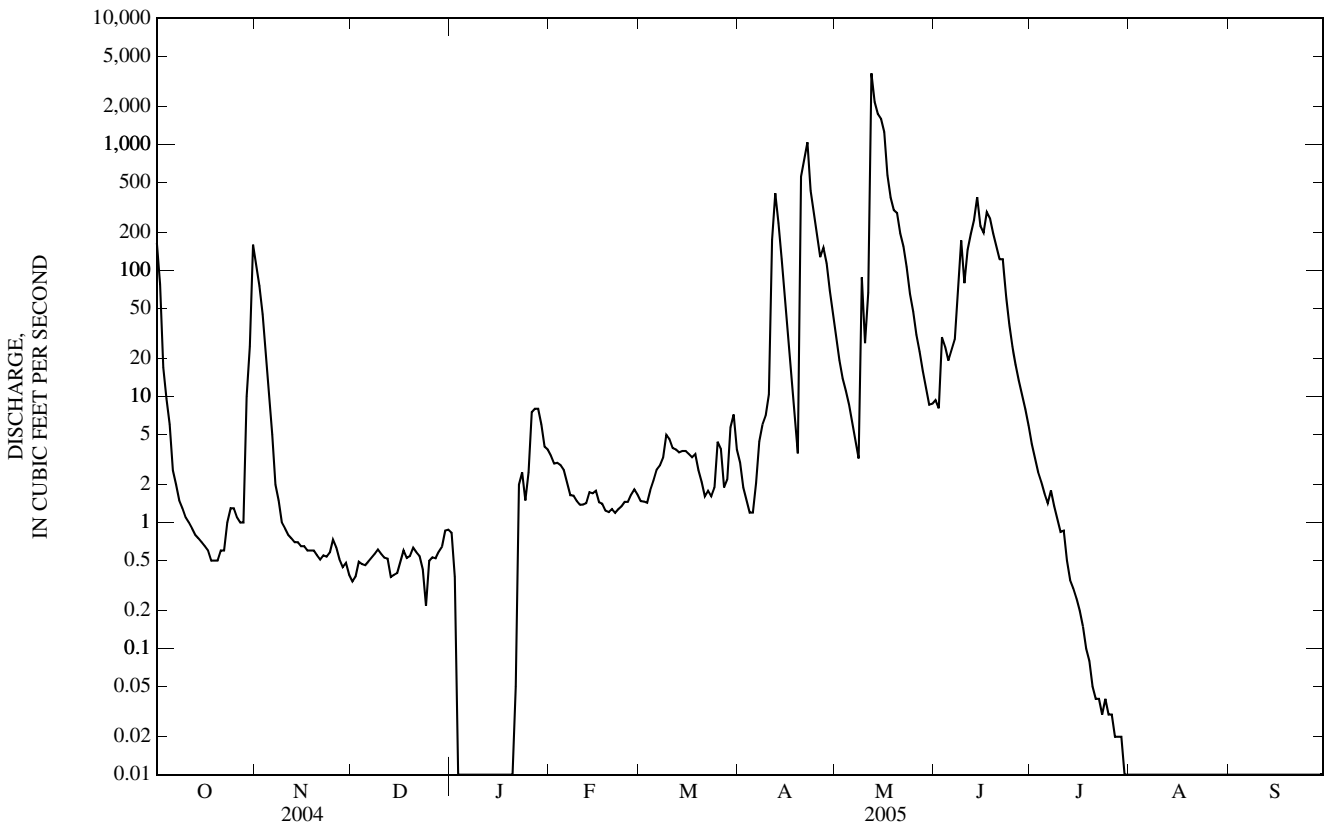
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2005, BY WATER YEAR (WY)

MEAN	18.5	5.63	2.33	11.5	132	507	414	405	352	78.5	47.3	37.9
MAX	295	199	51.1	434	3,436	4,480	7,306	6,663	2,567	561	706	1,027
(WY)	(1983)	(1999)	(1999)	(1997)	(1997)	(1997)	(1952)	(1942)	(1967)	(1937)	(1930)	(1999)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1929)	(1929)	(1929)	(1929)	(1936)	(1934)	(1934)	(1980)	(1930)	(1930)	(1929)	(1929)

06441500 BAD RIVER NEAR FORT PIERRE, SD—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1929 - 2005	
ANNUAL TOTAL	9,306.12		21,996.79		^a 167	
ANNUAL MEAN	25.4		60.3		1,203	
HIGHEST ANNUAL MEAN					1997	
LOWEST ANNUAL MEAN					1980	
HIGHEST DAILY MEAN	1,860	Sep 24	3,660	May 12	27,200	May 1, 1942
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Jan 3	^b 0.00	Oct 1, 1928
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Jan 3	0.00	Oct 1, 1928
MAXIMUM PEAK FLOW			4,870	May 12	43,800	Jun 18, 1967
MAXIMUM PEAK STAGE			11.89	May 12	29.55	Jun 18, 1967
ANNUAL RUNOFF (AC-FT)	18,460		43,630		121,300	
10 PERCENT EXCEEDS	24		123		223	
50 PERCENT EXCEEDS	0.52		1.3		0.80	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

a Median of annual mean discharges, 110 ft³/s.
 b No flow for long periods in most years.
 c Estimated.



WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1945 to September 1953, October 1971 to current year.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: October 1971 to current year.

WATER TEMPERATURE: October 1972 to June 1983.

REVISED RECORDS.--WDR SD-81-1: 1979-80.

REMARKS.--Sediment discharge records poor. Observer collects samples on a daily basis during most periods of open-water flow and less often during winter ice period. Size analyses for suspended-sediment samples collected for low flows may be affected by dissolved solids. Sediment-discharge records prior to Oct. 1, 1971, on file in the District office, U.S. Army Corps of Engineers, Omaha, NE.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATION: Maximum daily mean, 124,000 mg/L, July 17, 1981; minimum daily mean, 0 mg/L, estimated, on many days some years.

SEDIMENT LOAD: Maximum daily, 949,000 tons, May 14, 1982; minimum daily, 0 ton on many days each year.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATION: Maximum daily mean, 25,500 mg/L, Apr. 21; minimum daily mean, 0 mg/L, on many days.

SEDIMENT LOAD: Maximum daily, 277,000 tons, May 12; minimum daily, 0.00 ton, on many days.

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Day	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)
	OCTOBER			NOVEMBER			DECEMBER		
1	165	e764	361	e110	e572	171	0.34	e25	0.02
2	78	299	64	e75	215	44	0.37	e24	0.02
3	17	128	6.1	e45	e114	14	0.49	e24	0.03
4	9.6	e134	3.5	e20	91	5.0	0.47	e24	0.03
5	6.0	133	2.2	e10	e77	2.1	0.46	e24	0.03
6	2.6	53	0.38	e5.0	e65	0.89	0.49	e24	0.03
7	e2.0	e43	0.23	e2.0	e53	0.29	0.53	e24	0.03
8	e1.5	e42	0.17	e1.5	e42	0.17	0.56	e24	0.04
9	e1.3	e40	0.14	e1.0	e31	0.09	0.61	e23	0.04
10	e1.1	e39	0.12	e0.90	e30	0.07	0.57	e23	0.04
11	e1.0	40	0.11	e0.80	e29	0.06	0.53	e23	0.03
12	e0.90	e73	0.18	e0.75	e29	0.06	0.52	e23	0.03
13	e0.80	e116	0.25	e0.70	e28	0.05	0.37	e23	0.02
14	e0.75	156	0.32	e0.70	e28	0.05	0.39	e23	0.02
15	e0.70	e160	0.30	e0.65	e27	0.05	0.40	e23	0.02
16	e0.65	e152	0.27	e0.65	e27	0.05	0.49	e22	0.03
17	e0.60	e145	0.24	e0.60	e27	0.04	0.60	e22	0.04
18	e0.50	e138	0.19	e0.60	e26	0.04	0.52	e22	0.03
19	e0.50	131	0.18	e0.60	e26	0.04	0.54	e22	0.03
20	e0.50	e133	0.18	e0.55	e25	0.04	0.63	e22	0.04
21	e0.60	e137	0.22	0.51	e25	0.03	0.58	e22	0.03
22	e0.60	e140	0.23	0.55	e24	0.04	0.54	e22	0.03
23	e1.0	e144	0.39	0.54	24	0.03	0.42	e21	0.02
24	e1.3	e147	0.51	0.58	e25	0.04	0.22	e21	0.01
25	e1.3	e150	0.53	0.73	e29	0.06	0.50	e21	0.03
26	e1.1	e154	0.46	0.64	e28	0.05	0.53	e21	0.03
27	e1.0	e157	0.43	0.51	e27	0.04	0.52	e21	0.03
28	e1.0	177	0.48	0.44	e25	0.03	0.59	e21	0.03
29	e10	e326	8.7	0.48	e25	0.03	0.64	e21	0.04
30	e25	540	36	0.39	e25	0.03	0.86	e20	0.05
31	e160	e883	378	---	---	---	0.88	e20	0.05
TOTAL	493.90	---	866.01	282.37	---	238.47	16.16	---	0.95

06441500 BAD RIVER NEAR FORT PIERRE, SD-Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Day	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)
1	0.83	e20	0.04	3.4	e29	0.26	1.5	e21	0.08
2	0.37	e13	0.02	2.9	25	0.20	1.5	e21	0.08
3	e0.00	0.0	0.00	3.0	e24	0.19	1.4	e20	0.08
4	e0.00	0.0	0.00	2.9	e24	0.18	1.8	e20	0.10
5	e0.00	0.0	0.00	2.6	e24	0.17	2.2	e20	0.12
6	e0.00	0.0	0.00	2.1	e24	0.13	2.6	e20	0.14
7	e0.00	0.0	0.00	1.7	e23	0.10	2.8	e20	0.16
8	e0.00	0.0	0.00	1.6	e23	0.10	3.3	e22	0.20
9	e0.00	0.0	0.00	1.5	e23	0.09	5.0	e24	0.33
10	e0.00	0.0	0.00	1.4	e23	0.09	4.6	e24	0.30
11	e0.00	0.0	0.00	1.4	e23	0.09	e3.9	e24	0.25
12	e0.00	0.0	0.00	1.4	e23	0.09	e3.8	e23	0.24
13	e0.00	0.0	0.00	1.7	e23	0.11	e3.6	e22	0.22
14	e0.00	0.0	0.00	1.7	e23	0.10	e3.7	e22	0.22
15	e0.00	0.0	0.00	1.8	e22	0.11	e3.7	e21	0.21
16	e0.00	0.0	0.00	1.4	e22	0.09	e3.5	e20	0.19
17	e0.00	0.0	0.00	1.4	e22	0.08	e3.3	e20	0.18
18	e0.00	0.0	0.00	1.2	e22	0.07	e3.5	e19	0.18
19	e0.00	0.0	0.00	1.2	e22	0.07	e2.6	e18	0.13
20	e0.00	0.0	0.00	1.3	e22	0.08	e2.1	e18	0.10
21	e0.05	e6	0.00	1.2	e22	0.07	1.6	17	0.07
22	e2.0	e18	0.10	1.3	e22	0.07	1.8	e18	0.09
23	e2.5	e28	0.19	1.3	e21	0.08	1.6	e18	0.08
24	e1.5	e30	0.12	1.5	e21	0.08	1.9	e19	0.10
25	e2.5	e30	0.20	1.5	e21	0.08	4.4	e23	0.30
26	e7.5	e37	0.74	1.7	e21	0.09	3.9	e29	0.31
27	e8.0	e48	1.0	1.8	e21	0.10	e1.9	e29	0.15
28	e8.0	e46	0.99	1.7	e21	0.09	e2.2	30	0.18
29	e6.0	e41	0.67	---	---	---	e5.7	e41	0.63
30	e4.0	e37	0.40	---	---	---	e7.2	52	1.0
31	e3.8	e33	0.34	---	---	---	e3.8	e54	0.56
TOTAL	47.05	---	4.81	49.6	---	3.06	96.4	---	6.98
		APRIL		MAY			JUNE		
1	e3.0	e53	0.43	29	e178	14	9.4	e70	1.8
2	e1.9	e53	0.27	19	e144	7.6	8.1	e58	1.3
3	e1.5	e53	0.21	14	e110	4.2	30	80	7.0
4	e1.2	e52	0.17	11	84	2.5	25	e94	6.3
5	1.2	55	0.18	8.6	e81	1.9	19	90	4.7
6	2.1	e76	0.43	6.2	e75	1.2	23	e87	5.5
7	4.4	e96	1.1	4.5	e69	0.84	28	e86	6.6
8	6.0	e100	1.6	3.2	e63	0.55	68	e870	201
9	7.0	e100	1.9	88	e564	159	173	e1,990	940
10	10	e111	3.2	27	e195	14	79	e1,190	272
11	175	e789	724	67	e590	302	146	e1,890	1,120
12	410	e1,780	2,000	3,660	25,300	277,000	194	e2,950	1,620
13	238	e1,090	718	2,170	15,100	98,400	251	e3,840	3,660
14	123	e694	236	1,750	e8,760	41,200	381	e6,570	6,890
15	52	506	73	1,600	e7,830	33,700	226	e3,990	2,500
16	25	e368	25	1,260	e6,910	23,700	200	e3,350	2,040
17	13	e241	8.8	571	e5,980	9,290	290	e5,260	4,090
18	6.9	134	2.5	379	5,020	5,160	259	e4,090	2,890
19	3.5	e121	1.2	301	3,670	3,000	196	e2,920	1,560
20	555	16,000	36,900	285	2,640	2,040	155	e1,750	748
21	768	25,500	53,100	197	e1,880	1,010	123	e773	256
22	1,040	e21,200	61,200	155	e1,140	486	123	e620	207
23	429	e7,040	8,780	107	436	133	64	e564	98
24	294	e3,790	3,040	65	e222	39	38	e508	52
25	198	e2,570	1,400	47	e197	25	25	e452	30
26	127	e1,360	487	31	e171	14	18	e396	19
27	152	e812	345	23	e146	9.0	13	e340	12
28	114	e628	198	16	e122	5.3	10	e284	7.9
29	69	306	59	12	e108	3.4	7.9	e228	4.9
30	45	e211	26	8.6	e95	2.2	5.9	e172	2.8
31	---	---	---	8.8	e83	1.9	---	---	---
TOTAL	4,875.7	---	169,332.99	12,923.9	---	495,726.59	3,188.3	---	29,253.8

MISSOURI-FORT RANDALL RIVER BASIN

06441500 BAD RIVER NEAR FORT PIERRE, SD-Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Day	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)
1	4.2	e116	1.3	e0.01	e23	0.00	0.00	---	---
2	3.2	e67	0.59	e0.01	e22	0.00	0.00	---	---
3	2.5	e59	0.40	e0.01	e21	0.00	0.00	---	---
4	2.1	e59	0.33	e0.01	e20	0.00	0.00	---	---
5	1.7	e58	0.27	e0.00	---	---	0.00	---	---
6	1.4	e57	0.22	0.00	---	---	0.00	---	---
7	1.8	e57	0.27	0.00	---	---	0.00	---	---
8	1.4	e56	0.21	0.00	---	---	0.00	---	---
9	1.1	e55	0.16	0.00	---	---	0.00	---	---
10	0.84	e55	0.12	0.00	---	---	0.00	---	---
11	0.86	54	0.13	0.00	---	---	0.00	---	---
12	e0.50	e52	0.07	0.00	---	---	0.00	---	---
13	e0.35	e50	0.05	0.00	---	---	0.00	---	---
14	e0.30	e47	0.04	0.00	---	---	0.00	---	---
15	e0.25	e45	0.03	0.00	---	---	0.00	---	---
16	e0.20	e43	0.02	0.00	---	---	0.00	---	---
17	e0.15	e41	0.02	0.00	---	---	0.00	---	---
18	e0.10	e38	0.01	0.00	---	---	0.00	---	---
19	e0.08	e36	0.00	0.00	---	---	0.00	---	---
20	e0.05	34	0.00	0.00	---	---	0.00	---	---
21	e0.04	e33	0.00	0.00	---	---	0.00	---	---
22	e0.04	e32	0.00	0.00	---	---	0.00	---	---
23	e0.03	e31	0.00	0.00	---	---	0.00	---	---
24	e0.04	e30	0.00	0.00	---	---	0.00	---	---
25	e0.03	e29	0.00	0.00	---	---	0.00	---	---
26	e0.03	e29	0.00	0.00	---	---	0.00	---	---
27	e0.02	e28	0.00	0.00	---	---	0.00	---	---
28	e0.02	e27	0.00	0.00	---	---	0.00	---	---
29	e0.02	e26	0.00	0.00	---	---	0.00	---	---
30	e0.01	e25	0.00	0.00	---	---	0.00	---	---
31	e0.01	e24	0.00	0.00	---	---	---	---	---
TOTAL	23.37	---	4.24	0.04	---	0.00	0.00	---	0
YEAR	21,996.79	695,437.90							

e Estimated

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)	Suspended sediment, sieve diameter percent <.063mm (70331)
OCT 06...	0850	2.6	2,060	17.0	14.5	44	.31	99
FEB 02...	1330	--	--	10.5	0.0	28	--	91
MAR 30...	1115	9.0	4,630	15.0	11.0	54	1.3	100
APR 21...	1030	679	2,010	9.5	9.5	25,500	46,700	100
MAY 04...	0905	11	2,570	12.0	10.0	75	2.3	100
12...	1340	4,450	1,610	13.0	--	31,700	381,000	98
13...	1650	1,670	1,540	15.0	11.0	9,380	42,300	98
JUL 11...	1035	.91	2,710	27.0	27.0	54	.13	96

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06441590 MISSOURI RIVER AT LA FRAMBOISE ISLAND, AT PIERRE, SD

LOCATION.--Lat 44°21'07", long 100°21'31", in NW¼ SW¼ NE¼ sec.34, T.110 N., R.79 W., Hughes County, Hydrologic Unit 10140101, on left bank of La Framboise Island Recreation Area, 0.2 mi downstream from Bad River, 1.5 mi downstream from U.S. Highways 14 and 83, 7.8 mi downstream from Oahe Dam, and at mile 1,064.5.

PERIOD OF RECORD.--October 1988 to current year.

REVISED RECORDS.--WDR SD-90-1: Datum.

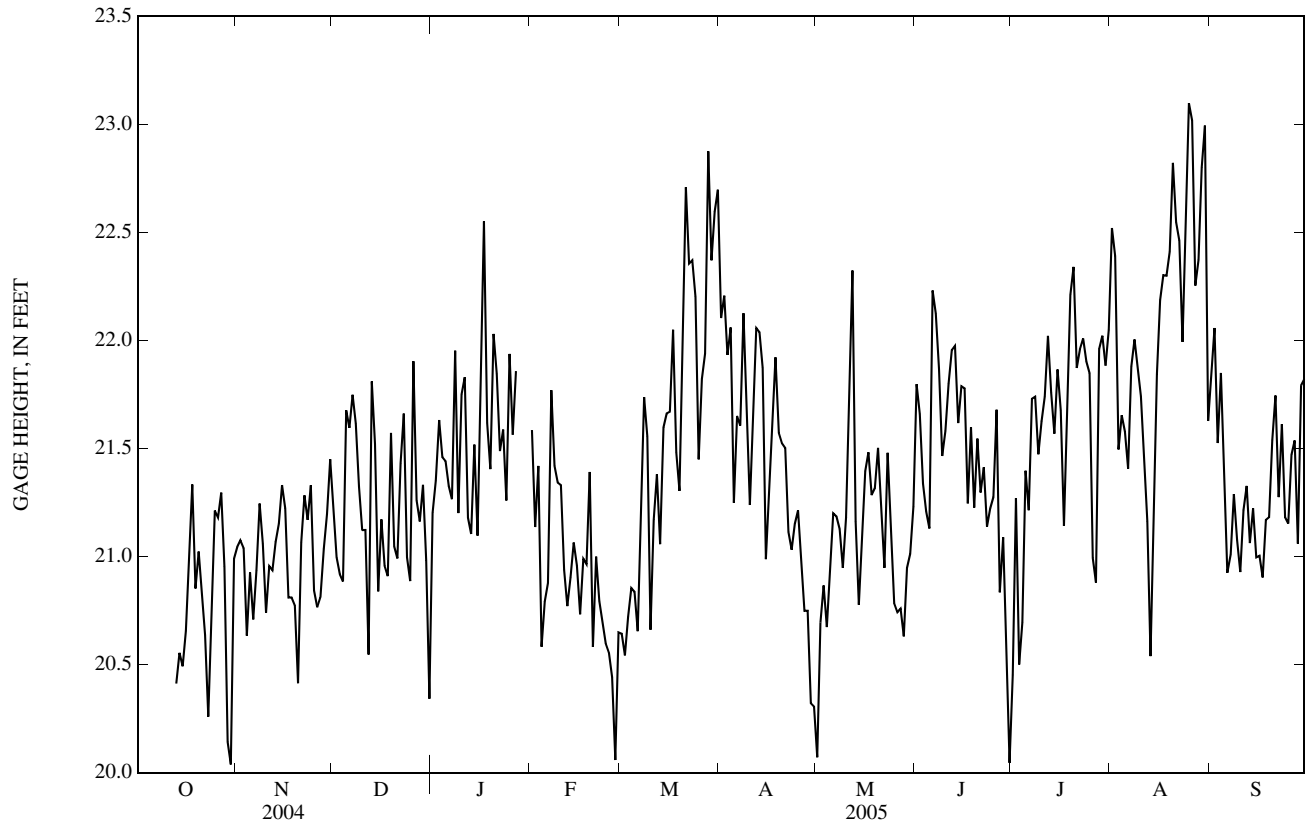
GAGE.--Water-stage recorder. Datum of gage is 1,400.00 ft above NGVD of 1929.

REMARKS.--Records good. Stage regulated by Big Bend Dam approximately 80 mi downstream. Flows regulated by Oahe Dam 7.8 mi upstream. Gage heights prior to October 1988 in files of U.S. Army Corps of Engineers. U.S. Army Corps of Engineers satellite data-collection platform at station.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	21.04	21.24	21.20	21.59	20.64	22.10	20.07	21.80	20.45	22.52	21.83
2	---	21.08	21.00	21.35	21.14	20.54	22.21	20.69	21.66	21.27	22.39	22.06
3	---	21.04	20.92	21.63	21.42	20.72	21.93	20.87	21.34	20.50	21.50	21.53
4	---	20.63	20.88	21.46	20.58	20.85	22.06	20.67	21.21	20.70	21.65	21.85
5	---	20.93	21.68	21.44	20.79	20.84	21.25	20.92	21.13	21.40	21.58	21.27
6	---	20.71	21.60	21.33	20.88	20.65	21.65	21.20	22.23	21.21	21.41	20.93
7	---	20.94	21.75	21.27	21.77	21.13	21.61	21.19	22.12	21.73	21.88	21.01
8	---	21.25	21.62	21.95	21.42	21.74	22.13	21.13	21.87	21.74	22.00	21.29
9	---	21.06	21.32	21.20	21.34	21.56	21.58	20.95	21.47	21.47	21.88	21.08
10	---	20.74	21.12	21.75	21.33	20.66	21.24	21.18	21.58	21.63	21.74	20.93
11	---	20.96	21.12	21.83	20.94	21.17	21.64	21.86	21.80	21.74	21.43	21.21
12	---	20.94	20.55	21.18	20.77	21.38	22.06	22.32	21.95	22.02	21.16	21.33
13	20.41	21.07	21.81	21.10	20.90	21.06	22.04	21.16	21.97	21.76	20.54	21.06
14	20.55	21.15	21.52	21.52	21.06	21.60	21.87	20.78	21.62	21.57	21.10	21.22
15	20.49	21.33	20.84	21.10	20.96	21.66	20.99	21.08	21.79	21.87	21.84	21.00
16	20.66	21.22	21.17	21.63	20.73	21.67	21.37	21.39	21.78	21.68	22.19	21.00
17	21.00	20.81	20.96	22.55	20.99	22.05	21.68	21.48	21.25	21.14	22.30	20.90
18	21.33	20.81	20.91	21.62	20.96	21.48	21.92	21.29	21.60	21.61	22.30	21.17
19	20.85	20.77	21.57	21.40	21.39	21.30	21.57	21.32	21.23	22.21	22.41	21.18
20	21.02	20.41	21.05	22.03	20.58	22.05	21.52	21.50	21.55	22.34	22.82	21.54
21	20.84	21.07	20.99	21.85	21.00	22.71	21.50	21.22	21.30	21.87	22.55	21.75
22	20.64	21.28	21.43	21.49	20.79	22.36	21.11	20.95	21.41	21.96	22.46	21.28
23	20.26	21.17	21.66	21.59	20.70	22.37	21.03	21.48	21.14	22.01	21.99	21.61
24	20.76	21.33	21.00	21.26	20.60	22.20	21.15	21.14	21.22	21.90	22.50	21.18
25	21.21	20.84	20.89	21.94	20.56	21.45	21.21	20.78	21.28	21.85	23.10	21.15
26	21.18	20.76	21.90	21.56	20.44	21.82	20.97	20.74	21.68	20.99	23.02	21.47
27	21.30	20.81	21.26	21.86	20.06	21.94	20.75	20.76	20.83	20.88	22.25	21.54
28	20.95	21.04	21.16	---	20.65	22.87	20.75	20.63	21.09	21.96	22.37	21.06
29	20.14	21.20	21.33	---	---	22.37	20.32	20.95	20.55	22.02	22.80	21.79
30	20.04	21.45	20.98	---	---	22.60	20.31	21.01	20.04	21.88	22.99	21.82
31	20.99	---	20.34	---	---	22.70	---	21.23	---	22.05	21.63	---
MEAN	---	20.99	21.21	---	20.94	21.62	21.45	21.09	21.45	21.59	22.07	21.33
MAX	---	21.45	21.90	---	21.77	22.87	22.21	22.32	22.23	22.34	23.10	22.06
MIN	---	20.41	20.34	---	20.06	20.54	20.31	20.07	20.04	20.45	20.54	20.90

06441590 MISSOURI RIVER AT LA FRAMBOISE ISLAND, AT PIERRE, SD—Continued



MISSOURI-FORT RANDALL RIVER BASIN

06441592 MISSOURI RIVER BELOW LA FRAMBOISE ISLAND, AT PIERRE, SD

LOCATION.--Lat 44°20'46", long 100°19'12", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.10, T.110 N., R.79 W., Hughes County, Hydrologic Unit 10140101, on left bank at downstream end of La Framboise Island Recreation Area, 2.4 mi downstream from Bad River, 3.0 mi downstream from U.S. Highways 14 and 83, 9.9 mi downstream from Oahe Dam, and at mile 1,062.4.

PERIOD OF RECORD.--October 1998 to current year.

REVISED RECORDS.--Previously unpublished mean daily gage heights for water year October 2003 to September 2004: Oct. 7, 21.61 ft, Oct. 8, 21.77 ft, Nov. 9, 20.66 ft, Nov. 10, 20.85 ft.

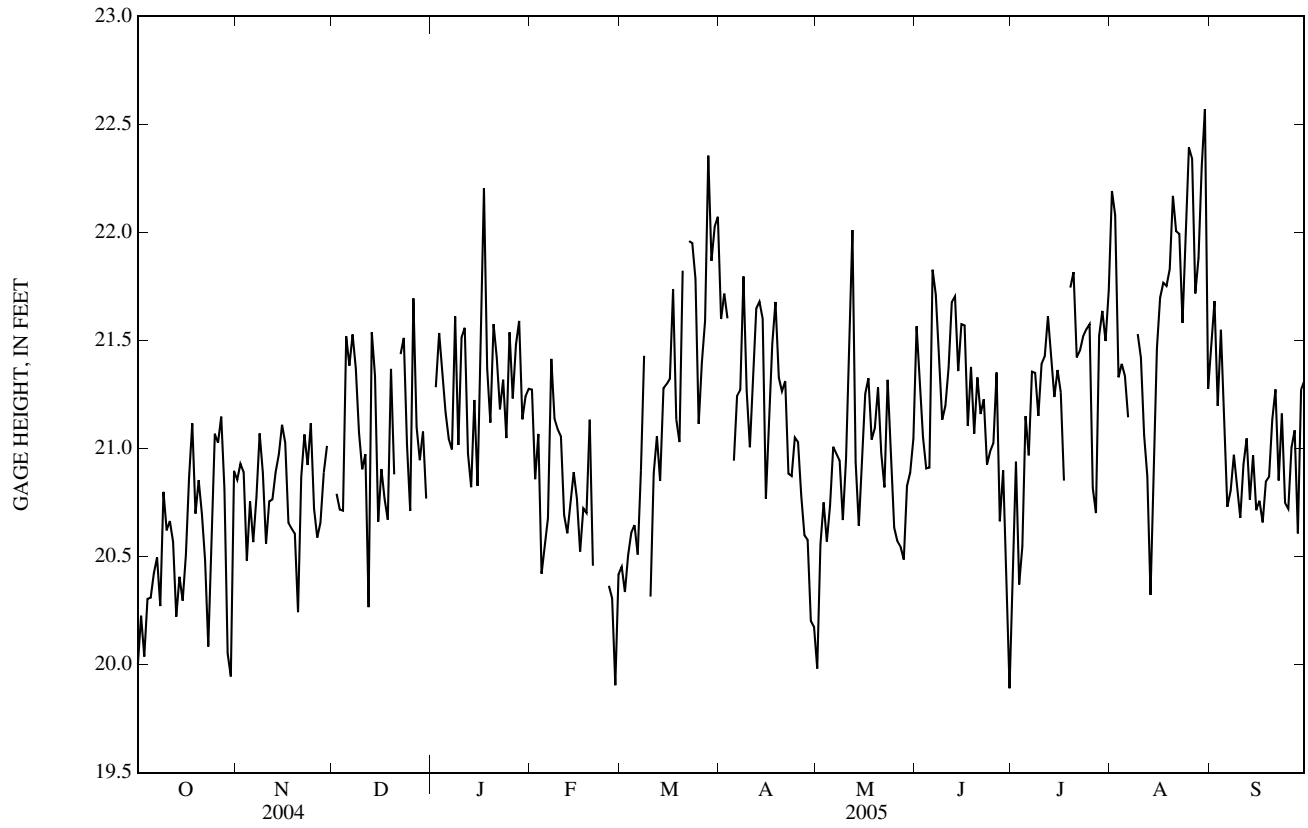
GAGE.--Water-stage recorder. Datum of gage is 1,400.00 ft above NGVD of 1929.

REMARKS.--Records good. Stage regulated by Big Bend Dam approximately 78 mi downstream. Flows regulated by Oahe Dam 9.9 mi upstream. Gage heights prior to October 1998 in files of U.S. Army Corps of Engineers. U.S. Army Corps of Engineers satellite data-collection platform at station.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.00	20.86	---	---	21.27	20.45	21.60	19.98	21.57	20.29	22.19	21.46
2	20.23	20.93	20.79	21.28	20.86	20.34	21.72	20.56	21.34	20.94	22.08	21.68
3	20.04	20.89	20.72	21.53	21.07	20.51	21.60	20.75	21.05	20.37	21.33	21.20
4	20.30	20.48	20.71	21.36	20.42	20.61	---	20.57	20.91	20.55	21.39	21.55
5	20.31	20.76	21.52	21.17	20.54	20.65	20.94	20.74	20.91	21.15	21.34	21.19
6	20.42	20.57	21.38	21.04	20.68	20.51	21.24	21.01	21.83	20.97	21.14	20.73
7	20.50	20.78	21.53	21.00	21.41	20.90	21.27	20.98	21.71	21.36	---	20.81
8	20.27	21.07	21.37	21.61	21.14	21.43	21.80	20.94	21.46	21.35	---	20.97
9	20.80	20.89	21.07	21.02	21.09	---	21.27	20.67	21.13	21.15	21.53	20.82
10	20.62	20.56	20.90	21.51	21.06	20.31	21.01	20.95	21.20	21.39	21.42	20.68
11	20.66	20.76	20.97	21.56	20.69	20.89	21.30	21.56	21.37	21.43	21.06	20.93
12	20.57	20.76	20.27	20.98	20.61	21.06	21.65	22.01	21.68	21.61	20.87	21.05
13	20.22	20.89	21.54	20.82	20.74	20.85	21.68	20.94	21.70	21.42	20.32	20.76
14	20.41	20.97	21.34	21.22	20.89	21.28	21.60	20.64	21.36	21.24	20.84	20.97
15	20.30	21.11	20.66	20.83	20.77	21.30	20.77	20.98	21.58	21.36	21.46	20.71
16	20.51	21.03	20.91	21.32	20.52	21.32	21.11	21.25	21.57	21.26	21.70	20.76
17	20.87	20.66	20.77	22.20	20.72	21.74	21.48	21.33	21.10	20.85	21.77	20.66
18	21.12	20.63	20.67	21.37	20.70	21.13	21.68	21.04	21.38	---	21.75	20.85
19	20.70	20.61	21.37	21.12	21.13	21.03	21.33	21.09	21.07	21.74	21.83	20.87
20	20.85	20.24	20.88	21.58	20.46	21.82	21.26	21.28	21.33	21.82	22.17	21.13
21	20.70	20.87	---	21.42	---	---	21.31	20.98	21.16	21.42	22.01	21.27
22	20.48	21.07	21.44	21.18	---	21.96	20.88	20.82	21.23	21.45	21.99	20.85
23	20.08	20.92	21.51	21.32	---	21.95	20.87	21.32	20.93	21.52	21.58	21.16
24	20.58	21.12	21.02	21.05	---	21.79	21.05	20.99	20.99	21.55	21.98	20.75
25	21.07	20.72	20.71	21.54	20.37	21.11	21.03	20.63	21.02	21.58	22.39	20.72
26	21.03	20.59	21.69	21.23	20.31	21.40	20.78	20.57	21.35	20.82	22.34	21.00
27	21.15	20.66	21.10	21.48	19.90	21.59	20.60	20.54	20.66	20.70	21.72	21.08
28	20.81	20.89	20.95	21.59	20.42	22.36	20.58	20.49	20.90	21.52	21.88	20.61
29	20.05	21.01	21.08	21.13	---	21.87	20.20	20.83	20.37	21.64	22.30	21.27
30	19.94	---	20.77	21.24	---	22.03	20.17	20.89	19.89	21.50	22.57	21.31
31	20.90	---	---	21.28	---	22.07	---	21.05	---	21.73	21.28	---
MEAN	20.53	---	---	---	---	---	---	20.92	21.19	---	---	20.99
MAX	21.15	---	---	---	---	---	---	22.01	21.83	---	---	21.68
MIN	19.94	---	---	---	---	---	---	19.98	19.89	---	---	20.61

06441592 MISSOURI RIVER BELOW LA FRAMBOISE ISLAND, AT PIERRE, SD—Continued



MISSOURI-FORT RANDALL RIVER BASIN

06441595 MISSOURI RIVER AT FARM ISLAND, NEAR PIERRE, SD

LOCATION.--Lat 44°20'03", long 100°15'54", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.18, T.110 N., R.78 W., Hughes County, Hydrologic Unit 10140101, on left bank of Farm Island Recreation Area, 4.8 mi downstream from La Framboise gage, 4.9 mi southeast of Pierre, 5.2 mi downstream from Bad River, 13.1 mi downstream from Oahe Dam, and at mile 1,059.2.

PERIOD OF RECORD.--October 1988 to current year.

REVISED RECORDS.--WDR SD-90-1: Datum.

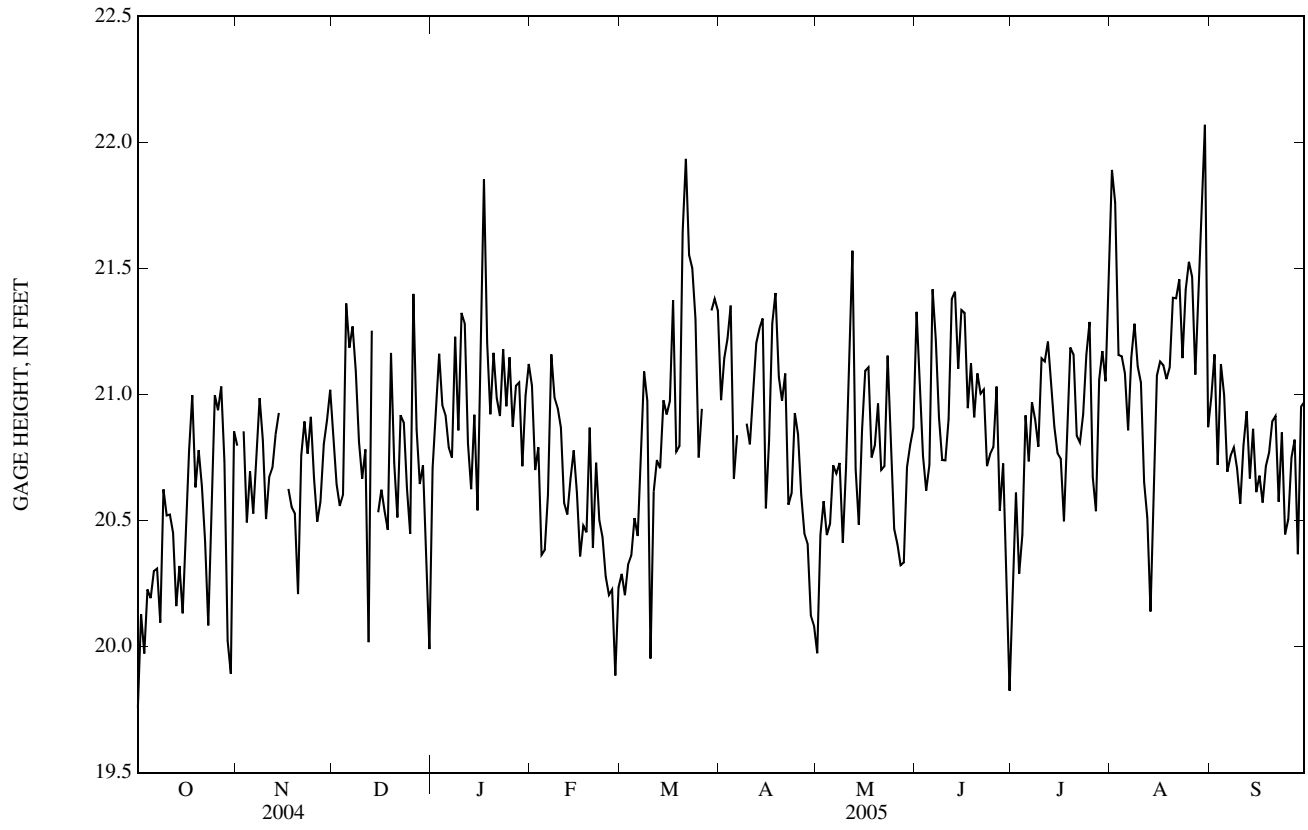
GAGE.--Water-stage recorder. Datum of gage is 1,400.00 ft above NGVD of 1929.

REMARKS.--Records good. Stage regulated by Big Bend Dam approximately 75 mi downstream. Flows regulated by Oahe Dam 12.6 mi upstream. Gage heights prior to October 1988 in files of U.S. Army Corps of Engineers. U.S. Army Corps of Engineers satellite data-collection platform at station.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.76	20.80	20.86	20.71	21.03	20.29	20.98	19.97	21.33	20.15	21.89	20.99
2	20.13	---	20.64	20.90	20.70	20.20	21.14	20.44	21.00	20.61	21.76	21.16
3	19.97	20.85	20.56	21.16	20.79	20.32	21.22	20.58	20.76	20.29	21.16	20.72
4	20.23	20.49	20.60	20.96	20.36	20.36	21.35	20.44	20.62	20.44	21.15	21.12
5	20.19	20.70	21.36	20.92	20.38	20.51	20.67	20.49	20.72	20.92	21.08	21.00
6	20.30	20.53	21.19	20.79	20.60	20.44	20.84	20.72	21.42	20.73	20.86	20.69
7	20.31	20.74	21.27	20.75	21.16	20.71	---	20.69	21.22	20.97	21.15	20.76
8	20.10	20.99	21.09	21.23	20.99	21.09	---	20.73	20.91	20.90	21.28	20.79
9	20.62	20.82	20.81	20.86	20.95	20.98	20.88	20.41	20.74	20.79	21.11	20.71
10	20.52	20.51	20.67	21.32	20.87	19.95	20.80	20.71	20.74	21.14	21.05	20.57
11	20.52	20.67	20.78	21.28	20.57	20.61	20.99	21.25	20.90	21.13	20.65	20.80
12	20.45	20.71	20.02	20.81	20.52	20.74	21.20	21.57	21.38	21.21	20.51	20.93
13	20.16	20.84	21.25	20.62	20.67	20.71	21.26	20.70	21.41	21.02	20.14	20.67
14	20.32	20.93	---	20.92	20.78	20.98	21.30	20.48	21.10	20.87	20.62	20.86
15	20.13	---	20.53	20.54	20.61	20.92	20.55	20.86	21.33	20.77	21.08	20.61
16	20.45	---	20.62	21.01	20.36	20.97	20.82	21.09	21.32	20.75	21.13	20.68
17	20.78	20.63	20.54	21.85	20.48	21.37	21.28	21.11	20.95	20.50	21.12	20.57
18	21.00	20.55	20.46	21.21	20.45	20.77	21.40	20.75	21.12	20.83	21.06	20.72
19	20.63	20.53	21.16	20.92	20.87	20.80	21.07	20.80	20.91	21.19	21.11	20.77
20	20.78	20.21	20.73	21.17	20.39	21.65	20.97	20.96	21.08	21.16	21.38	20.89
21	20.64	20.76	20.51	20.99	20.73	21.93	21.08	20.70	21.00	20.84	21.38	20.91
22	20.42	20.89	20.92	20.91	20.50	21.55	20.56	20.72	21.02	20.81	21.46	20.57
23	20.08	20.77	20.89	21.18	20.43	21.50	20.61	21.15	20.72	20.92	21.14	20.85
24	20.55	20.91	20.62	20.95	20.28	21.30	20.93	20.80	20.76	21.16	21.42	20.44
25	21.00	20.67	20.45	21.15	20.21	20.75	20.84	20.47	20.79	21.29	21.53	20.51
26	20.94	20.50	21.40	20.87	20.23	20.94	20.60	20.41	21.03	20.67	21.47	20.75
27	21.03	20.57	20.86	21.03	19.89	---	20.45	20.32	20.54	20.54	21.08	20.82
28	20.73	20.80	20.65	21.05	20.24	---	20.41	20.33	20.73	21.06	21.36	20.37
29	20.02	20.90	20.72	20.72	---	21.33	20.12	20.71	20.22	21.17	21.78	20.95
30	19.89	21.02	20.38	21.00	---	21.38	20.08	20.80	19.82	21.05	22.07	20.97
31	20.85	---	19.99	21.12	---	21.33	---	20.87	---	21.41	20.87	---
MEAN	20.44	---	---	21.00	20.57	---	---	20.71	20.92	20.88	21.19	20.77
MAX	21.03	---	---	21.85	21.16	---	---	21.57	21.42	21.41	22.07	21.16
MIN	19.76	---	---	20.54	19.89	---	---	19.97	19.82	20.15	20.14	20.37

06441595 MISSOURI RIVER AT FARM ISLAND, NEAR PIERRE, SD—Continued



06442700 LAKE SHARPE NEAR FORT THOMPSON, SD

LOCATION.--Lat 44°02'18", long 99°26'45", in SE¹/₄ sec.27, T.107 N., R.72 W., Lyman County, Hydrologic Unit 10140101, at left approach wall of powerhouse at Big Bend Dam on Missouri River, 2.5 mi south of Fort Thompson, and at mile 987.4.

DRAINAGE AREA.--249,300 mi², approximately.

PERIOD OF RECORD.--July 1963 to current year (monthend contents only).

GAGE.--Water-stage recorder. Elevations listed to NGVD of 1929.

REMARKS.--Reservoir is formed by earthfill dam; closure made July 1963; intentional storage began November 1963. Maximum capacity, 1,874,000 acre-ft below elevation, 1,423.0 ft (top of spillway gates). Normal maximum, 1,697,000 acre-ft below elevation 1,422.0 ft. Inactive storage, 1,424,000 acre-ft below elevation 1,415.0 ft. Figures given herein represent elevations at powerhouse and total contents adjusted for wind effect.

The spillway consists of a concrete chute with flat crest at elevation 1,385.0 ft surmounted by 8 taintor gates, each 40 by 38 ft; design capacity, 390,000 ft³/s. Normal releases are through 8 power units (completed in July 1966), with a generating capacity of 58,500 kilowatts each. Maximum release through powerplant about 100,000 ft³/s. Water is used for flood control, navigation, power, and incidental uses.

COOPERATION.--Records of elevation and contents provided by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,829,000 acre-ft, Apr. 22, 1971, affected by wind; maximum elevation, 1,422.1 ft, June 4, 1991; minimum since initial filling, 1,417,000 acre-ft, Oct. 24, 1996.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,748,000 acre-ft, Mar. 20; minimum contents, 1,595,000 acre-ft, July 15.

MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Elevation	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	1,420.14	1,689,000	--
Oct. 31	1,421.02	1,738,000	+49,000
Nov. 30	1,420.95	1,729,000	-9,000
Dec. 31	1,420.31	1,701,000	-28,000
CAL YR 2004	--	--	-4,000
Jan. 31	1,420.83	1,725,000	+24,000
Feb. 28	1,420.24	1,689,000	-36,000
Mar. 31	1,419.97	1,684,000	-5,000
Apr. 30	1,420.62	1,660,000	-24,000
May 31	1,420.61	1,657,000	-3,000
June 30	1,420.04	1,625,000	-32,000
July 31	1,421.14	1,687,000	+62,000
Aug. 31	1,420.53	1,647,000	-40,000
Sept. 30	1,420.37	1,644,000	-3,000
WTR YR 2005	--	--	-4,500

NOTE.--Lake frozen over Dec. 23 to Mar. 12.

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06442996 LAKE FRANCIS CASE (AMERICAN CREEK BAY) AT CHAMBERLAIN, SD

LOCATION.--Lat 43°48'58", long 99°19'37", in NW¹/₄ NE¹/₄ NW¹/₄ sec.15, T.104 N., R.71 W., Brule County, Hydrologic Unit 10140101, on right bank of American Creek Bay and left bank of Lake Francis Case 10 ft downstream of Highway 50 bridge over American Creek Bay, 0.5 mi upstream from intersection of I-90 and State Highway 50 Business Loop, 1.6 mi upstream from Lewis and Clark Memorial Bridge, and at mile 967.5.

PERIOD OF RECORD.--October 1988 to current year.

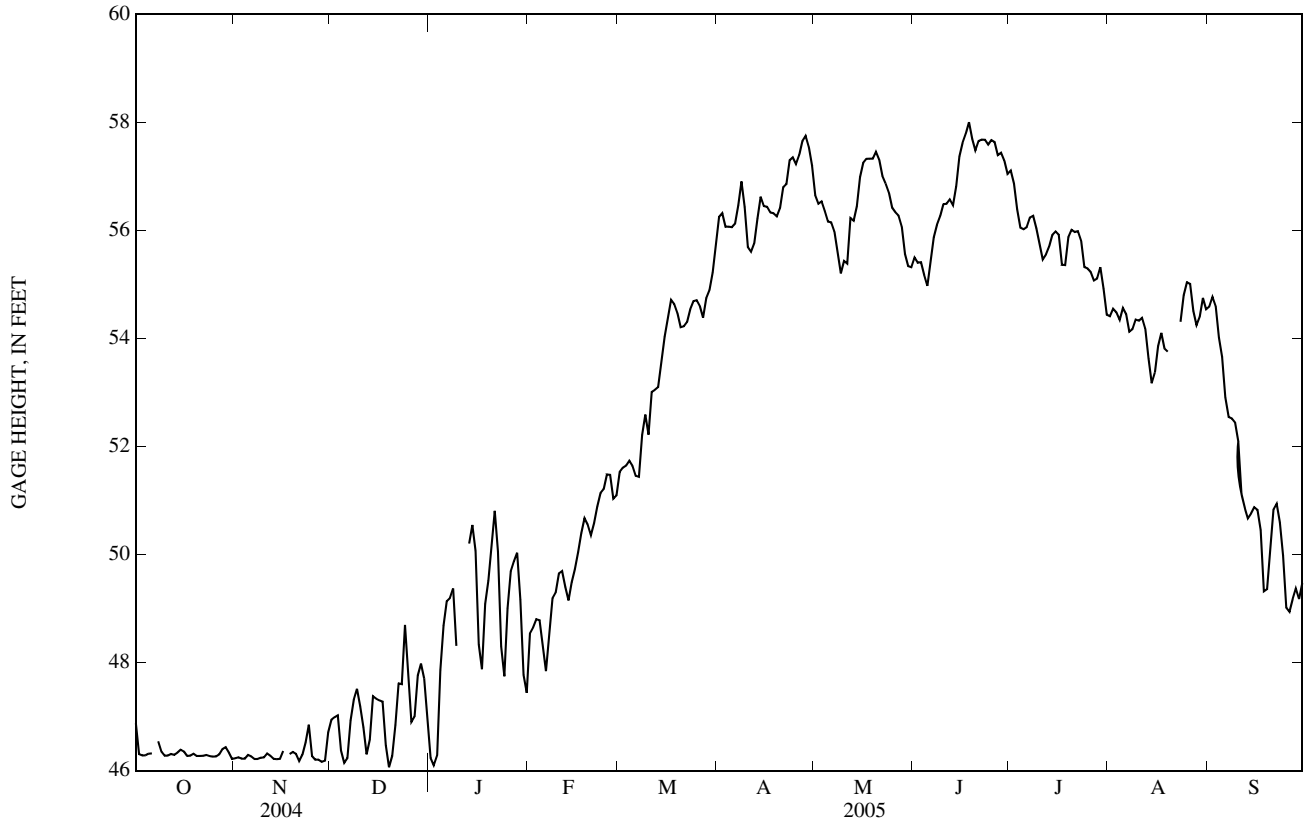
GAGE.--Water-stage recorder. Datum of gage is 1,300.00 ft above NGVD of 1929. Prior to Oct. 1, 1993, at datum 0.24 ft higher.

REMARKS.--Records good. Stage regulated by Ft. Randall Reservoir. Gage heights prior to October 1988 in files of U.S. Army Corps of Engineers.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46.88	46.23	46.94	46.24	48.54	51.53	56.25	56.65	55.50	57.11	54.41	54.59
2	46.30	46.24	46.99	46.10	48.65	51.61	56.32	56.50	55.40	56.87	54.55	54.77
3	46.28	46.22	47.02	46.28	48.80	51.65	56.07	56.54	55.41	56.39	54.48	54.60
4	46.28	46.22	46.37	47.86	48.78	51.74	56.07	56.36	55.18	56.05	54.35	54.02
5	46.31	46.29	46.14	48.69	48.29	51.64	56.06	56.17	54.97	56.02	54.57	53.66
6	46.32	46.26	46.23	49.14	47.84	51.46	56.13	56.15	55.42	56.06	54.45	52.91
7	---	46.22	46.93	49.19	48.52	51.44	56.46	55.98	55.88	56.24	54.12	52.55
8	46.54	46.22	47.31	49.37	49.19	52.21	56.90	55.59	56.10	56.27	54.17	52.52
9	46.35	46.24	47.51	48.31	49.30	52.59	56.43	55.21	56.26	56.04	54.35	52.45
10	46.28	46.24	47.19	---	49.65	52.22	55.69	55.44	56.49	55.75	54.33	52.09
11	46.28	46.32	46.80	---	49.69	53.01	55.60	55.39	56.49	55.46	54.38	51.12
12	46.31	46.28	46.30	---	49.40	53.05	55.76	56.23	56.57	55.56	54.18	50.87
13	46.29	46.22	46.58	50.20	49.15	53.10	56.22	56.18	56.46	55.70	53.63	50.67
14	46.33	46.21	47.38	50.55	49.49	53.55	56.62	56.45	56.82	55.92	53.17	50.76
15	46.39	46.22	47.33	50.07	49.73	54.04	56.45	56.99	57.37	55.98	53.37	50.87
16	46.36	46.36	47.30	48.34	50.04	54.38	56.44	57.25	57.62	55.92	53.86	50.83
17	46.27	---	47.28	47.88	50.40	54.72	56.33	57.32	57.79	55.36	54.10	50.45
18	46.28	46.31	46.47	49.08	50.67	54.64	56.32	57.33	58.01	55.36	53.81	49.32
19	46.31	46.35	46.06	49.51	50.55	54.47	56.26	57.33	57.70	55.87	53.76	49.36
20	46.27	46.31	46.27	50.21	50.36	54.21	56.41	57.46	57.48	56.01	---	50.06
21	46.27	46.18	46.85	50.81	50.58	54.22	56.80	57.31	57.65	55.97	---	50.83
22	46.28	46.30	47.61	50.06	50.89	54.31	56.86	57.01	57.68	55.99	---	50.94
23	46.29	46.52	47.60	48.30	51.14	54.54	57.30	56.87	57.68	55.81	54.31	50.59
24	46.27	46.85	48.70	47.75	51.21	54.69	57.35	56.69	57.59	55.32	54.80	49.98
25	46.26	46.27	47.78	49.01	51.48	54.71	57.23	56.42	57.67	55.30	55.04	49.02
26	46.26	46.21	46.90	49.69	51.48	54.60	57.40	56.34	57.64	55.23	55.01	48.94
27	46.30	46.21	47.00	49.88	51.03	54.38	57.66	56.27	57.40	55.08	54.51	49.18
28	46.40	46.16	47.76	50.03	51.10	54.75	57.75	56.07	57.44	55.11	54.25	49.37
29	46.43	46.18	47.98	49.17	---	54.89	57.54	55.56	57.29	55.32	54.40	49.18
30	46.34	46.71	47.70	47.77	---	55.22	57.20	55.34	57.05	54.92	54.75	49.47
31	46.22	---	47.03	47.44	---	55.73	---	55.32	---	54.44	54.54	---
MEAN	---	---	47.07	---	49.86	53.53	56.60	56.38	56.80	55.76	---	51.20
MAX	---	---	48.70	---	51.48	55.73	57.75	57.46	58.01	57.11	---	54.77
MIN	---	---	46.06	---	47.84	51.44	55.60	55.21	54.97	54.44	---	48.94

06442996 LAKE FRANCIS CASE (AMERICAN CREEK BAY) AT CHAMBERLAIN, SD—Continued



06445685 WHITE RIVER NEAR NEBRASKA-SOUTH DAKOTA STATE LINE

LOCATION.--Lat 43°00'47", long 102°50'07", in NE¹/₄ SW¹/₄ NE¹/₄ sec.15, T.35 N., R.47 W., Shannon County, Hydrologic Unit 10140201, on left bank 1.0 mi north of Nebraska-South Dakota State line, and 4.3 mi south of Slim Butte.

DRAINAGE AREA.--1,440 mi², approximately.

PERIOD OF RECORD.--October 1987 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,030 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Satellite data-collection platform at station. Water temperature and specific conductance measured during the year are compiled in the Miscellaneous Temperature Measurements and Field Determinations section.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	9.7	e6.9	e15	e20	e17	26	43	42	56	26	13
2	41	9.0	e6.6	e13	e22	e17	22	45	37	53	23	13
3	42	9.1	e6.0	e11	e24	e17	19	45	44	48	20	12
4	59	8.3	e5.7	e10	e25	e17	19	42	67	46	17	9.9
5	69	8.7	8.9	e8.9	e25	e17	20	41	54	43	12	9.0
6	43	25	9.9	e8.0	e20	18	19	40	52	42	11	9.9
7	26	27	10	e7.0	e18	20	17	43	52	41	9.2	9.7
8	19	17	11	e7.0	e16	19	16	47	50	43	9.1	8.7
9	15	13	12	e7.9	e15	18	16	39	46	39	10	7.8
10	14	11	12	e8.0	e18	16	16	38	41	40	11	5.0
11	15	10	12	e8.5	e21	15	19	40	40	37	9.8	3.3
12	16	9.2	e12	e9.0	e21	15	18	133	41	31	10	2.1
13	16	8.6	e12	e9.1	e24	14	18	359	433	27	17	2.7
14	16	8.5	e11	e8.5	e25	13	18	203	718	27	15	3.6
15	13	8.3	11	e8.0	e17	13	18	165	532	25	22	2.7
16	12	8.4	11	e7.5	e15	12	18	97	424	23	20	4.5
17	12	8.4	13	e7.5	e14	12	19	70	373	21	24	4.2
18	26	8.8	12	e7.0	e14	13	15	56	148	19	40	2.3
19	32	8.9	e12	e9.0	e14	13	14	49	102	18	27	2.3
20	42	8.9	e12	e12	e15	14	13	44	80	18	20	3.7
21	38	8.6	e12	e17	e17	15	25	42	65	17	18	4.3
22	31	e8.1	e12	e17	e18	15	290	40	56	16	18	4.7
23	19	e8.0	e11	e15	e17	16	227	39	53	18	26	4.9
24	10	e8.0	e11	e26	e19	17	183	38	50	21	27	5.5
25	6.9	e9.9	e11	e25	e20	34	125	36	49	46	21	5.2
26	6.7	e9.4	11	e25	e19	28	67	35	46	56	18	4.9
27	48	e8.7	11	e24	e18	22	52	35	58	40	17	4.0
28	29	e8.2	12	e22	e17	21	46	38	75	40	16	2.7
29	17	e7.8	14	e20	---	24	42	42	64	35	15	2.3
30	12	e7.4	16	e19	---	22	42	42	58	36	15	2.6
31	10	---	e15	e18	---	26	---	42	---	29	13	---
TOTAL	804.6	309.9	343.0	409.9	528	550	1,459	2,068	3,950	1,051	557.1	170.5
MEAN	26.0	10.3	11.1	13.2	18.9	17.7	48.6	66.7	132	33.9	18.0	5.68
MAX	69	27	16	26	25	34	290	359	718	56	40	13
MIN	6.7	7.4	5.7	7.0	14	12	13	35	37	16	9.1	2.1
AC-FT	1,600	615	680	813	1,050	1,090	2,890	4,100	7,830	2,080	1,110	338

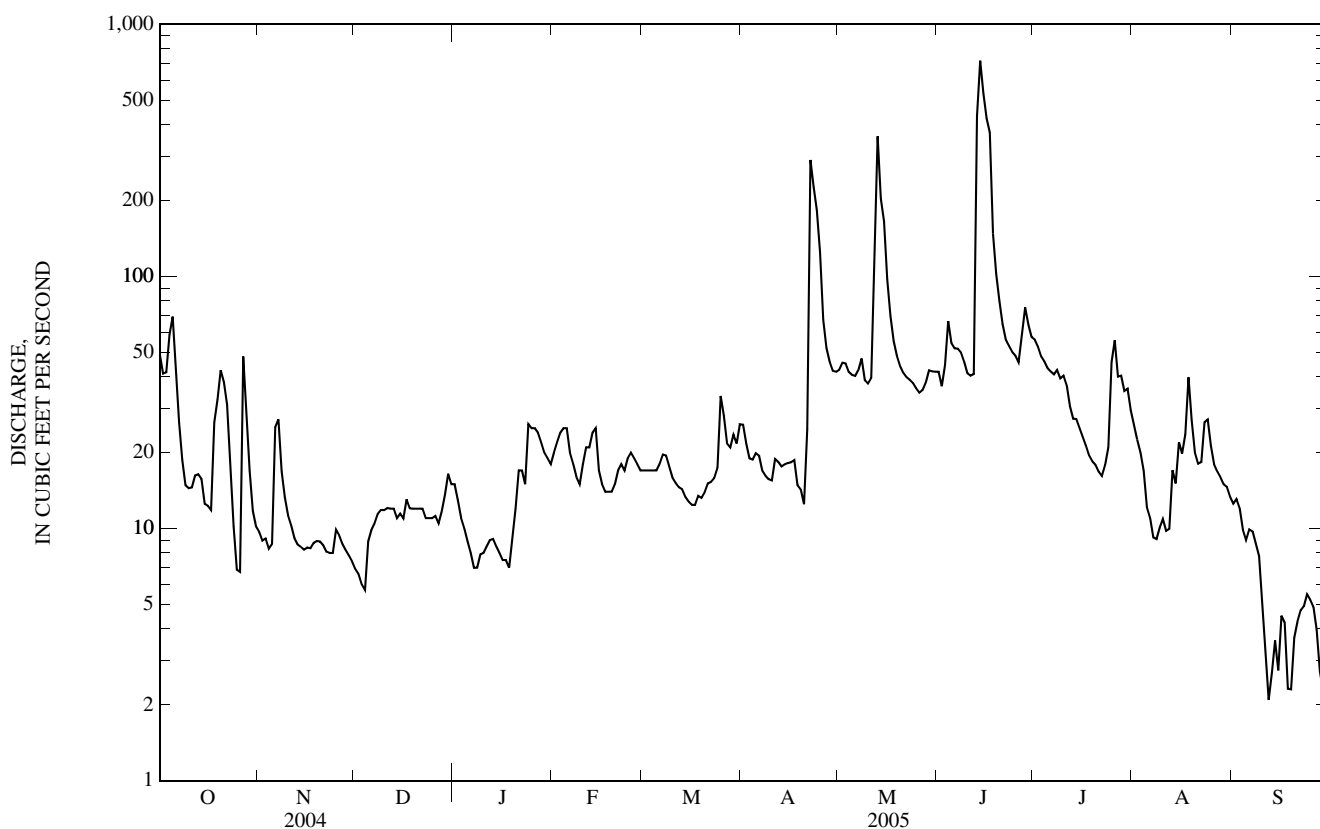
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2005, BY WATER YEAR (WY)

MEAN	11.6	13.6	16.1	24.7	56.5	77.2	71.9	101	92.5	28.5	12.4	12.6
MAX	29.4	45.1	54.9	96.1	186	297	303	514	360	78.3	42.9	36.2
(WY)	(1994)	(1994)	(1994)	(1998)	(1997)	(1993)	(2000)	(1991)	(1997)	(2001)	(1997)	(2004)
MIN	2.07	2.93	3.35	1.53	1.82	5.02	18.3	11.4	5.60	0.56	0.08	2.08
(WY)	(1991)	(2004)	(1991)	(1991)	(1991)	(1991)	(2003)	(2004)	(2004)	(2002)	(2002)	(1994)

06445685 WHITE RIVER NEAR NEBRASKA-SOUTH DAKOTA STATE LINE—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1988 - 2005	
ANNUAL TOTAL	6,669.64		12,201.0		^a 43.1	
ANNUAL MEAN	18.2		33.4		92.9 1997	
HIGHEST ANNUAL MEAN					14.2 1989	
LOWEST ANNUAL MEAN					1,910 May 12, 1991	
HIGHEST DAILY MEAN	175	Sep 6	718	Jun 14		
LOWEST DAILY MEAN	0.00	Sep 4	2.1	Sep 12	^b 0.00 Jul 13, 1989	
ANNUAL SEVEN-DAY MINIMUM	0.05	Aug 29	3.2	Sep 12	0.00 Aug 3, 1989	
MAXIMUM PEAK FLOW			795	Jun 14	3,820 May 12, 1991	
MAXIMUM PEAK STAGE			10.97	Jun 14	19.07 May 12, 1991	
ANNUAL RUNOFF (AC-FT)	13,230		24,200		31,240	
10 PERCENT EXCEEDS	45		52		85	
50 PERCENT EXCEEDS	11		17		17	
90 PERCENT EXCEEDS	3.1		8.0		3.3	

a Median of annual mean discharges, 44 ft³/s.
 b No flow at times in most years.
 c Estimated.



06446000 WHITE RIVER NEAR OGLALA, SD

LOCATION.--Lat 43°15'17", long 102°49'29", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.24, T.38 N., R.47 W., Shannon County, Hydrologic Unit 10140201, on right bank at downstream side of bridge, 3.0 mi downstream from Blacktail Creek, and 7.0 mi northwest of Oglala.

DRAINAGE AREA.--2,200 mi², approximately.

PERIOD OF RECORD.--May 1943 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,853.54 ft above NGVD of 1929. Prior to May 6, 1947, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Some diversions for irrigation upstream from station. Water temperature and specific conductance measured during the year are compiled in the Miscellaneous Temperature Measurements and Field Determinations section.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	17	e11	e15	e30	e28	35	69	58	68	33	18
2	26	14	e11	e15	e30	e28	35	69	53	68	30	17
3	27	14	e11	e14	e32	e30	38	70	53	66	27	16
4	24	14	e12	e14	e33	e35	35	74	48	60	24	17
5	27	14	e12	e13	e35	e43	31	70	81	58	21	16
6	39	14	12	e13	e35	31	30	66	76	54	19	13
7	38	14	12	e12	e30	33	29	86	66	51	15	12
8	25	18	14	e12	e29	31	30	84	67	49	13	13
9	17	27	16	e12	e28	33	28	95	64	48	11	14
10	15	21	19	e13	e25	33	25	75	63	47	10	13
11	13	18	18	e14	e26	31	25	77	55	42	11	12
12	13	15	e17	e15	e27	29	25	172	52	44	17	11
13	14	14	e16	e16	e28	27	25	313	83	40	58	8.1
14	16	13	16	e17	e29	26	28	500	603	35	43	7.6
15	17	13	13	e18	e27	25	28	304	990	35	21	5.7
16	17	13	15	e17	e25	24	27	206	722	33	23	4.5
17	16	13	15	e16	e23	25	27	152	517	31	27	6.7
18	14	13	13	e15	e22	25	27	105	458	30	26	6.3
19	13	13	17	e14	e21	23	26	84	216	27	34	7.7
20	23	14	14	e13	e20	23	25	71	136	26	37	8.0
21	24	14	e13	e14	e20	25	26	65	107	24	31	6.4
22	30	e13	e12	e18	e20	25	45	59	87	23	28	5.1
23	30	e12	e12	e23	e23	29	313	54	75	22	25	4.6
24	27	e12	e11	e29	e26	29	317	52	69	21	25	8.7
25	24	12	10	e28	e28	31	219	51	140	28	30	11
26	14	16	12	e30	e31	34	212	48	158	28	29	10
27	12	15	12	e49	e30	42	118	44	83	53	25	11
28	11	e14	10	e45	e29	40	94	44	111	41	22	10
29	33	e13	10	e40	---	36	82	46	111	35	21	9.1
30	28	e12	11	e37	---	35	74	49	89	35	20	9.3
31	20	---	12	e34	---	35	---	58	---	33	19	---
TOTAL	673	439	409	635	762	944	2,079	3,312	5,491	1,255	775	311.8
MEAN	21.7	14.6	13.2	20.5	27.2	30.5	69.3	107	183	40.5	25.0	10.4
MAX	39	27	19	49	35	43	317	500	990	68	58	18
MIN	11	12	10	12	20	23	25	44	48	21	10	4.5
AC-FT	1,330	871	811	1,260	1,510	1,870	4,120	6,570	10,890	2,490	1,540	618

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2005, BY WATER YEAR (WY)

MEAN	15.5	17.9	16.0	17.0	43.5	110	82.3	110	150	53.3	25.2	20.4
MAX	63.1	55.8	55.7	97.0	281	807	465	583	1,037	314	130	181
(WY)	(1968)	(1987)	(1947)	(1997)	(1997)	(1949)	(2000)	(1957)	(1967)	(1969)	(1979)	(1955)
MIN	0.00	0.76	1.83	0.64	1.21	13.5	12.3	13.4	4.88	0.00	0.00	0.00
(WY)	(1965)	(1977)	(1965)	(1991)	(1991)	(1991)	(1962)	(1985)	(1981)	(1985)	(2003)	(1964)

06446000 WHITE RIVER NEAR OGLALA, SD—Continued

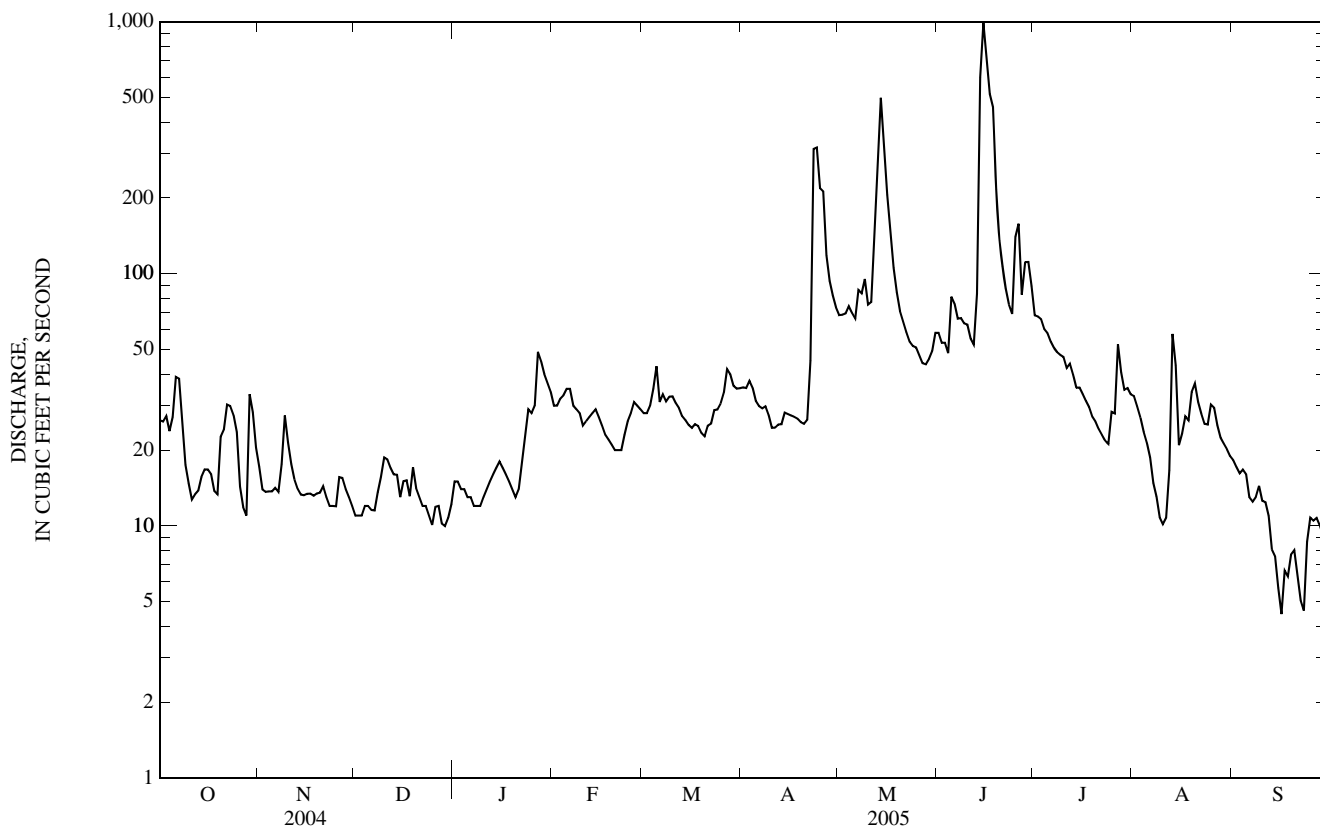
SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1944 - 2005	
ANNUAL TOTAL	7,337.06		17,085.8			
ANNUAL MEAN	20.0		46.8		^a 55.0	
HIGHEST ANNUAL MEAN					152	1997
LOWEST ANNUAL MEAN					13.0	1985
HIGHEST DAILY MEAN	240	Sep 6	990	Jun 15	3,870	Jun 23, 1947
LOWEST DAILY MEAN	0.61	Aug 22	4.5	Sep 16	^b 0.00	Sep 25, 1952
ANNUAL SEVEN-DAY MINIMUM	1.3	Aug 16	6.4	Sep 16	0.00	Sep 25, 1952
MAXIMUM PEAK FLOW			1,060	Jun 15	^c 5,200	Jun 21, 1947
MAXIMUM PEAK STAGE			16.35	Jun 15	23.61	Jun 16, 1967
ANNUAL RUNOFF (AC-FT)	14,550		33,890		39,810	
10 PERCENT EXCEEDS	42		76		100	
50 PERCENT EXCEEDS	13		26		22	
90 PERCENT EXCEEDS	4.7		12		4.0	

a Median of annual mean discharges, 48 ft³/s.

b No flow at times in most years.

c From rating curve extended above 2,800 ft³/s on basis of velocity-area studies, gage height, 23.50 ft.

e Estimated.



06446500 WHITE RIVER NEAR INTERIOR, SD

LOCATION.--Lat 43°41'38", long 101°55'56", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.14, T.43 N., R.18 E., Jackson County, Hydrologic Unit 10140202, on left bank downstream side of bridge on U.S. Highway 44, 9.5 mi downstream from Potato Creek, 3.9 mi southeast of Interior, and 7.5 mi downstream from Pennington-Jackson County lines.

DRAINAGE AREA.--4,103 mi².

PERIOD OF RECORD.--June 1904 to November 1906, August 1911 to September 1918, August 1928 to June 1932. Monthly discharges only for some periods, published in WSP 1309. September 1939 to September 1942 and October 2002 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 2,300 ft above NGVD of 1929, from topographic map. Nonrecording gage at different site and datum, June 24, 1904, to Nov. 6, 1906, Aug. 24, 1911, to Sept. 30, 1918, Aug. 9, 1928, to June 30, 1932, and Sept. 24, 1939, to Sept. 30, 1942.

REMARKS.--Records good except those for Oct. 1-14 and Aug. 25 through Sept. 30, which are fair, and those for estimated daily discharges, which are poor. Satellite data-collection platform at station. Water temperature and specific conductance measured during the year are compiled in the Miscellaneous Temperature Measurements and Field Determinations section.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	141	e27	e30	212	42	65	126	733	123	76	e27
2	33	116	e32	e20	203	41	59	104	254	131	95	e21
3	38	88	e36	e16	197	43	50	98	112	106	64	e19
4	30	65	45	e12	142	45	52	83	113	81	41	e22
5	32	43	48	e10	133	46	53	78	262	67	37	e23
6	33	33	58	e9.0	63	49	47	76	194	169	38	e22
7	36	29	48	e8.0	e50	41	47	316	293	86	32	e17
8	28	29	58	e7.0	e60	45	48	2,350	911	68	28	e14
9	30	26	63	e6.5	e80	55	47	563	709	62	23	e13
10	45	26	30	e6.0	e100	53	40	253	333	44	26	e11
11	38	26	23	e6.0	118	53	79	447	189	38	28	e8.6
12	30	24	31	e6.0	118	47	192	7,580	190	49	35	e8.1
13	24	35	38	e5.5	133	52	89	2,800	301	52	2,670	e8.1
14	22	32	29	e5.0	98	56	71	1,430	1,220	46	1,100	e7.6
15	19	29	33	e4.5	69	49	54	532	658	39	379	e8.1
16	18	28	43	e4.0	e67	51	48	566	666	31	208	e9.7
17	17	26	73	e4.2	69	46	39	420	1,020	28	132	e9.7
18	17	26	68	e4.2	80	52	34	284	649	23	80	e7.1
19	18	26	31	e4.5	78	50	25	238	466	18	58	e7.1
20	18	25	45	e5.0	58	50	26	158	409	19	46	e7.1
21	19	24	e39	e10	57	46	260	120	262	19	42	e6.7
22	20	28	e34	e30	54	54	1,770	110	166	129	36	e4.5
23	241	28	e30	e100	60	135	907	122	130	42	47	e3.1
24	456	31	e26	e200	53	283	395	78	107	176	38	e27
25	145	32	e28	e280	46	361	225	127	88	236	e33	e63
26	71	30	e34	e300	43	428	326	202	73	430	e80	e38
27	48	28	e40	e320	44	313	256	132	60	175	e113	e30
28	41	e27	46	e320	43	212	266	88	111	77	e75	e23
29	52	e25	58	e288	---	124	184	69	110	82	e58	e16
30	544	e24	52	256	---	74	146	61	88	73	e49	e12
31	481	---	e40	236	---	68	---	189	---	70	e35	---
TOTAL	2,683	1,150	1,286	2,513.4	2,528	3,064	5,900	19,800	10,877	2,789	5,802	493.5
MEAN	86.5	38.3	41.5	81.1	90.3	98.8	197	639	363	90.0	187	16.4
MAX	544	141	73	320	212	428	1,770	7,580	1,220	430	2,670	63
MIN	17	24	23	4.0	43	41	25	61	60	18	23	3.1
AC-FT	5,320	2,280	2,550	4,990	5,010	6,080	11,700	39,270	21,570	5,530	11,510	979

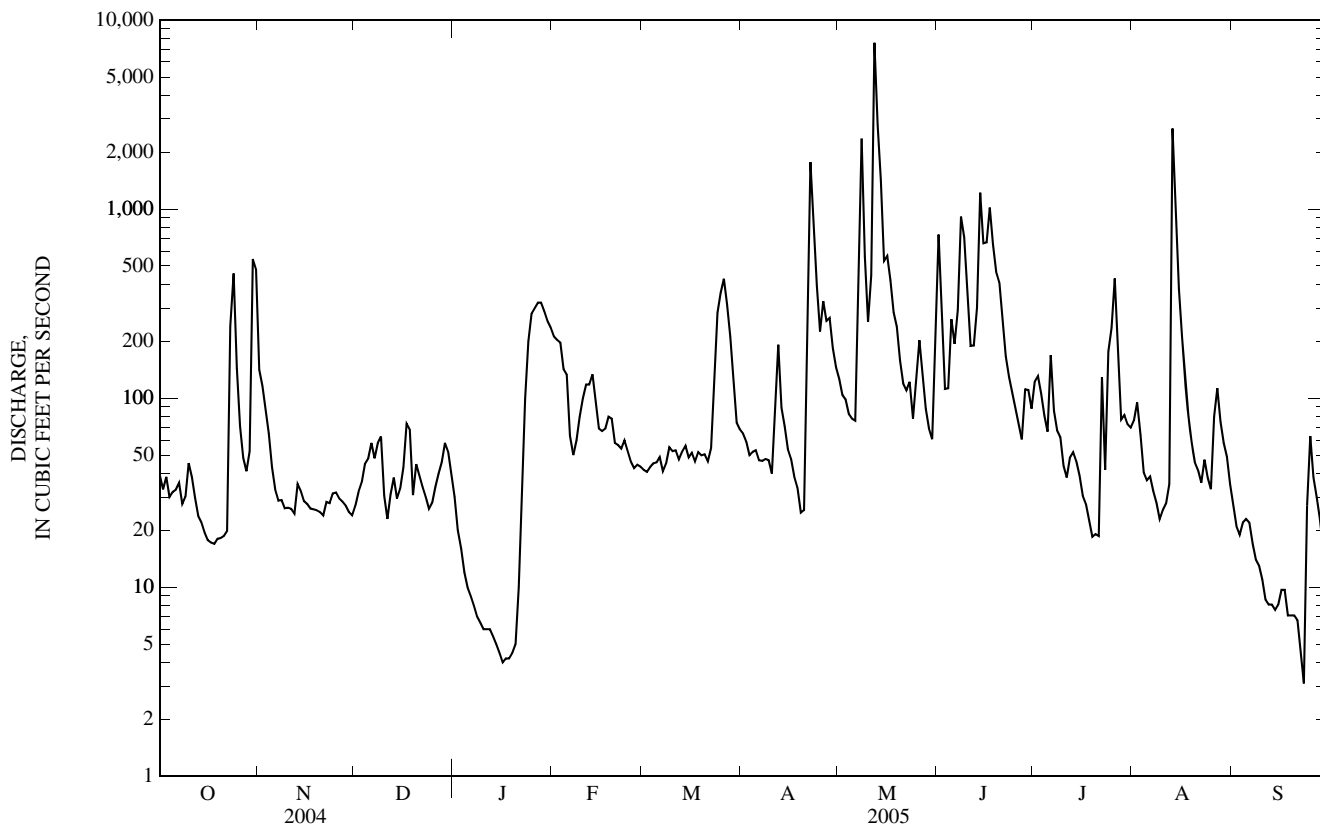
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1905-1906,1913-1918,1929-1931,1940-1942,2003- 2005, BY WATER YEAR (WY)

	83.1	50.7	28.7	23.5	109	289	388	647	522	281	229	126
MEAN	83.1	50.7	28.7	23.5	109	289	388	647	522	281	229	126
MAX	250	110	57.0	81.1	570	984	1010	4,157	1,700	2150	1060	463
(WY)	(1916)	(1929)	(1913)	(2005)	(1916)	(1929)	(1915)	(1942)	(1905)	(1905)	(1915)	(1915)
MIN	12.6	1.18	2.29	0.71	6.7	20.0	47.4	40.5	67.0	43.6	18.9	13.3
(WY)	(2003)	(1941)	(1941)	(1941)	(1914)	(1913)	(2004)	(2004)	(1940)	(2003)	(2003)	(2003)

06446500 WHITE RIVER NEAR INTERIOR, SD—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1905-1906,1913-1918, 1929-1931,1940-1942,2003-2005	
ANNUAL TOTAL	35,881.08		58,885.9			
ANNUAL MEAN	98.0		161		232	
HIGHEST ANNUAL MEAN					575 1942	
LOWEST ANNUAL MEAN					88.1 1931	
HIGHEST DAILY MEAN	6,820	Sep 6	7,580	May 12	12,900	May 1, 1942
LOWEST DAILY MEAN	0.58	Aug 22	3.1	Sep 23	^a 0.00	Jul 27, 1931
ANNUAL SEVEN-DAY MINIMUM	1.6	Aug 17	4.5	Jan 14	^b 0.00	Sep 5, 1931
MAXIMUM PEAK FLOW			11,500	May 12	^b 17,100	May 1, 1942
MAXIMUM PEAK STAGE			13.76	May 12	13.76	May 12, 2005
ANNUAL RUNOFF (AC-FT)	71,170		116,800		168,100	
10 PERCENT EXCEEDS	183		314		^c 313	
50 PERCENT EXCEEDS	30		50		^c 38	
90 PERCENT EXCEEDS	7.3		16		^c 3.0	

- a No flow at times in some years.
- b From rating curve extended above 7,100 ft³/s.
- c Reflects water years 1940-42, 2003 to current year.
- e Estimated.



06446700 BEAR IN THE LODGE CREEK NEAR WANBLEE, SD

Location.--Lat 43°32'13", long 101°47'55", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.12, T.41 N., R.38 W., Jackson County, Hydrologic Unit 10140202, on right bank at downstream side of bridge on State Highway 44, 0.9 mi south of Garner School, 8.2 mi southwest of Wanblee, and 25.3 mi upstream from mouth.

DRAINAGE AREA.--365 mi², approximately.

PERIOD OF RECORD.--June 1992 to May 1993 and May 1994 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 2,500 ft above NGVD of 1929, from topographic map. In 1951 and 1954-57, operated as nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Satellite data-collection platform at station. Water temperature and specific conductance measured during the year are compiled in the Miscellaneous Temperature Measurements and Field Determinations section.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	13	e5.0	e5.0	e12	e11	13	18	15	9.5	6.1	4.4
2	3.1	11	e6.6	e5.0	e13	e12	13	17	16	8.7	5.4	4.3
3	4.2	10	8.6	e5.0	e14	e14	12	17	16	8.6	5.0	4.2
4	6.0	10	9.9	e4.5	e15	e16	12	16	24	8.8	4.7	4.1
5	6.4	9.5	8.9	e4.2	e15	e18	12	16	19	9.0	4.1	3.8
6	5.7	9.0	e8.5	e4.5	e13	15	11	16	18	9.1	3.9	3.6
7	5.1	8.2	e8.3	e4.8	e10	13	11	16	25	12	3.9	3.5
8	4.8	8.1	e8.0	e5.0	e10	12	11	16	22	9.2	3.8	3.6
9	4.4	7.9	e7.8	e5.2	e12	12	12	16	16	7.3	3.3	3.3
10	4.3	7.8	e7.6	e5.5	e14	12	11	17	15	6.5	3.5	2.8
11	4.6	7.9	e7.5	e5.6	e15	12	29	40	17	8.8	3.7	3.4
12	4.7	7.7	e7.3	e5.5	e14	12	19	109	17	78	9.4	2.8
13	4.6	8.0	e7.2	e5.3	e13	12	16	48	84	26	29	2.6
14	4.7	7.9	e7.0	e5.0	e12	11	19	60	35	15	8.1	3.5
15	4.8	7.7	e7.0	e4.5	e11	11	18	54	31	11	15	3.7
16	5.5	8.0	e6.8	e4.5	e10	11	17	39	32	9.6	28	3.8
17	5.6	8.0	e6.7	e4.6	e10	12	15	31	35	7.5	20	3.8
18	6.5	8.3	e6.5	e4.7	e9.5	12	14	26	31	6.1	9.2	3.6
19	6.7	8.3	e6.5	e6.0	e9.5	11	14	25	26	5.2	8.1	3.8
20	8.9	7.9	e6.0	e10	e10	12	17	23	22	4.7	6.9	3.8
21	6.5	e7.5	e5.4	e20	e11	13	83	19	18	4.7	6.4	3.8
22	7.1	e8.4	e4.9	e16	e11	14	63	17	16	6.3	5.9	3.9
23	11	9.3	e4.4	e10	e10	14	58	15	13	4.3	5.2	4.4
24	7.3	8.1	e4.0	e9.0	e10	16	93	14	13	51	4.8	19
25	7.2	8.0	e4.2	e10	e9.5	18	55	16	12	91	4.7	4.0
26	7.3	8.1	e4.4	e12	e9.5	17	36	14	11	29	4.8	4.4
27	7.3	8.2	e4.6	e11	e9.5	16	29	14	11	15	5.6	5.0
28	7.4	e7.5	e4.8	e10	e10	16	25	14	9.8	17	4.9	5.1
29	13	e5.6	e5.0	e10	---	16	22	13	8.7	12	4.6	5.8
30	23	e4.0	e5.5	e10	---	14	20	13	9.0	8.3	4.6	5.5
31	8.8	---	e5.2	e11	---	14	---	22	---	6.7	5.0	---
TOTAL	211.5	248.9	200.1	233.4	322.5	419	780	791	637.5	505.9	237.6	133.3
MEAN	6.82	8.30	6.45	7.53	11.5	13.5	26.0	25.5	21.2	16.3	7.66	4.44
MAX	23	13	9.9	20	15	18	93	109	84	91	29	19
MIN	3.1	4.0	4.0	4.2	9.5	11	11	13	8.7	4.3	3.3	2.6
AC-FT	420	494	397	463	640	831	1,550	1,570	1,260	1,000	471	264

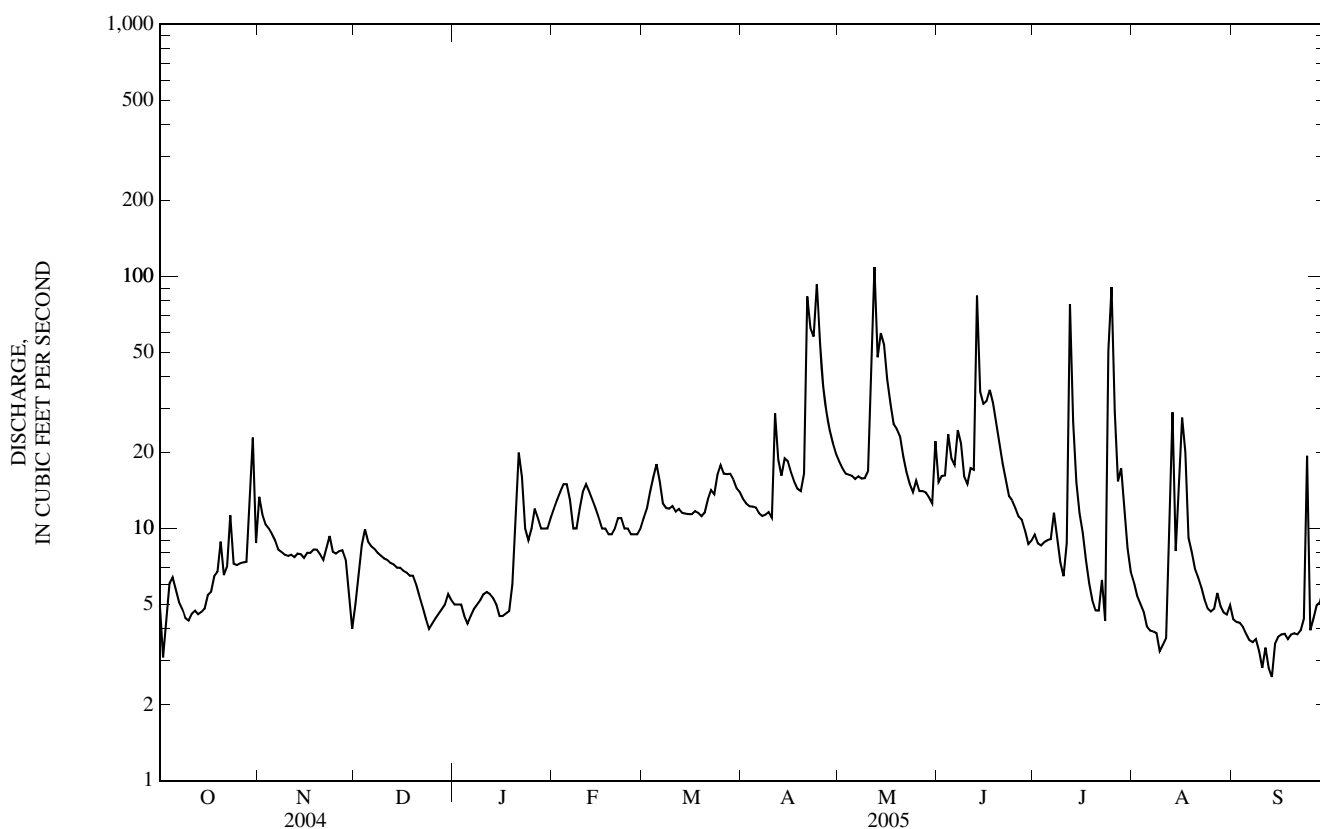
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2005, BY WATER YEAR (WY)

MEAN	11.3	13.6	11.9	13.1	33.1	35.8	31.3	33.0	50.2	29.2	9.80	7.79
MAX	21.1	30.4	20.5	29.8	156	98.9	59.2	74.6	306	153	27.7	13.5
(WY)	(1999)	(1999)	(1999)	(1997)	(1997)	(2001)	(1997)	(1997)	(1997)	(1997)	(1997)	(1999)
MIN	5.28	6.80	6.45	4.89	7.50	13.5	11.1	8.00	3.88	3.56	0.66	3.32
(WY)	(2003)	(2004)	(2005)	(2004)	(2004)	(2005)	(2004)	(2004)	(2003)	(2002)	(2003)	(2003)

06446700 BEAR IN THE LODGE CREEK NEAR WANBLEE, SD—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1995 - 2005	
ANNUAL TOTAL	3,065.6		4,720.7		^a 23.2	
ANNUAL MEAN	8.38		12.9		75.2	
HIGHEST ANNUAL MEAN					8.26 1997	
LOWEST ANNUAL MEAN					0.19 2004	
HIGHEST DAILY MEAN	60	Mar 9	109	May 12	900	Jun 3, 1997
LOWEST DAILY MEAN	1.3	Aug 22	2.6	Sep 13	0.19	Aug 22, 2003
ANNUAL SEVEN-DAY MINIMUM	1.6	Aug 19	3.1	Sep 7	0.48	Aug 4, 2003
MAXIMUM PEAK FLOW			232	May 12	1,100	Jun 3, 1997
MAXIMUM PEAK STAGE			4.28	May 12	^b 9.11	Jun 3, 1997
ANNUAL RUNOFF (AC-FT)	6,080		9,360		16,840	
10 PERCENT EXCEEDS	14		22		40	
50 PERCENT EXCEEDS	6.5		9.5		13	
90 PERCENT EXCEEDS	2.5		4.3		5.0	

a Median of annual mean discharges, 20 ft³/s.
 b From floodmark.
 c Estimated.



06447000 WHITE RIVER NEAR KADOKA, SD

LOCATION.--Lat 43°45'09", long 101°31'28", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.30, T.3 S., R.22 E., Black Hills meridian, Jackson County, Hydrologic Unit 10140202, on left bank 1,000 ft downstream from bridge on State Highway 73, 5.0 mi upstream from Pass Creek, 5.5 mi downstream from Cottonwood Creek, and 5.8 mi south of Kadoka.

DRAINAGE AREA.--5,000 mi², approximately.

PERIOD OF RECORD.--July 1942 to current year.

REVISED RECORDS.--WSP 1279: 1944(M), 1948.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 2,122.18 ft above NGVD of 1929. Prior to June 14, 1949, nonrecording gage, and June 14, 1949, to Mar. 8, 1955, water-stage recorder at site 0.3 mi downstream at same datum. Mar. 9, 1955, to May 17, 1957, nonrecording gage at present site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Water temperature and specific conductance measured during the year are compiled in the Miscellaneous Temperature Measurements and Field Determinations section. National Weather Service telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 4, 1942, reached a stage of 16.24 ft, from floodmarks (discharge, about 32,000 ft³/s, from rating curve extended above 16,000 ft³/s). Floods of Mar. 8, 1905, and in spring of 1927 were 1 or 2 ft higher than flood of June 4, 1942, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91	507	e26	e50	e170	62	82	151	332	103	59	22
2	48	237	e25	e35	e160	61	76	120	637	82	50	19
3	44	142	27	e20	e150	58	63	105	360	93	53	14
4	39	106	33	e15	e150	57	55	94	206	83	63	12
5	41	85	33	e12	e150	53	59	87	303	70	49	9.8
6	37	66	37	e10	e140	51	54	80	307	57	29	8.5
7	36	53	35	e10	e100	54	42	79	459	83	22	7.7
8	35	45	47	e9.5	e80	52	39	801	638	101	17	87
9	34	40	52	e9.5	e80	59	33	1,400	875	63	14	83
10	30	37	67	e9.0	e82	55	26	593	620	51	11	22
11	32	35	63	e9.0	e85	57	121	678	318	170	9.7	8.8
12	42	35	60	e9.0	e90	50	640	7,030	274	72	8.3	5.8
13	39	34	58	e8.5	e100	46	285	7,960	307	44	661	5.4
14	32	33	e50	e8.0	e90	40	129	2,820	1,130	75	2,830	5.4
15	28	38	43	e8.0	e70	45	86	1,520	1,040	57	1,150	5.4
16	25	40	44	e8.0	e50	38	67	688	644	41	438	5.2
17	21	38	e47	e9.0	e45	35	56	656	497	30	234	4.3
18	20	36	50	e9.0	e50	38	48	590	732	25	150	3.6
19	20	34	e65	e10	e50	47	42	339	594	22	89	3.3
20	22	33	79	e20	e50	46	129	279	445	18	66	2.9
21	31	37	e68	e40	e55	38	655	222	381	15	46	2.7
22	31	36	e57	e100	e60	45	3,400	177	302	471	32	2.9
23	75	32	e47	e150	e65	95	2,060	146	191	314	28	2.9
24	182	32	e40	e200	e75	149	892	127	139	788	25	214
25	391	34	e48	e230	71	357	492	113	113	703	29	156
26	239	36	56	e260	70	478	306	176	94	297	30	52
27	124	37	46	e250	64	477	342	256	78	311	29	35
28	81	41	50	e230	61	334	279	162	68	245	52	21
29	66	e30	66	e220	---	233	235	127	66	132	51	16
30	503	e28	77	e200	---	139	203	106	142	100	38	13
31	591	---	e70	e180	---	101	---	125	---	60	28	---
TOTAL	3,030	2,017	1,566	2,338.5	2,463	3,450	10,996	27,807	12,292	4,776	6,391.0	850.6
MEAN	97.7	67.2	50.5	75.4	88.0	111	367	897	410	154	206	28.4
MAX	591	507	79	260	170	478	3,400	7,960	1,130	788	2,830	214
MIN	20	28	25	8.0	45	35	26	79	66	15	8.3	2.7
AC-FT	6,010	4,000	3,110	4,640	4,890	6,840	21,810	55,160	24,380	9,470	12,680	1,690

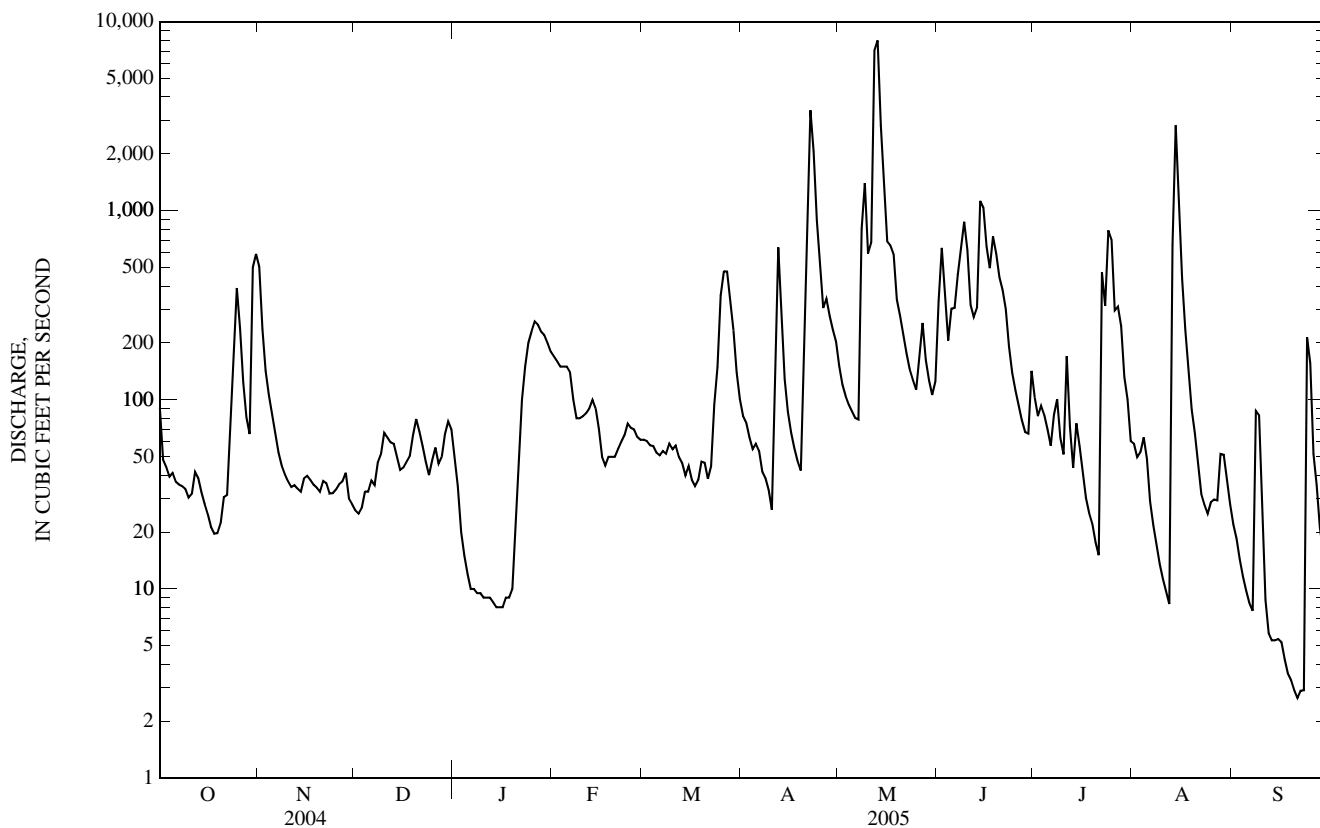
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2005, BY WATER YEAR (WY)

MEAN	104	66.0	40.3	38.9	165	535	403	596	700	282	171	125
MAX	820	425	283	380	945	2,479	1,555	2,802	3,984	986	873	1,060
(WY)	(1999)	(1999)	(1994)	(1997)	(1997)	(1944)	(1970)	(1982)	(1967)	(1969)	(1997)	(1955)
MIN	0.00	1.74	0.00	0.00	0.00	33.8	22.8	23.2	7.29	4.94	2.60	0.17
(WY)	(1965)	(1977)	(1977)	(1977)	(1979)	(1981)	(1981)	(1985)	(1989)	(2002)	(1989)	(1975)

06447000 WHITE RIVER NEAR KADOKA, SD—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1943 - 2005	
ANNUAL TOTAL	46,763.67		77,977.1		269	
ANNUAL MEAN	128		214		612	
HIGHEST ANNUAL MEAN					1997	
LOWEST ANNUAL MEAN					90.0	
HIGHEST DAILY MEAN	8,270	Sep 6	7,960	May 13	16,500	Jun 18, 1962
LOWEST DAILY MEAN	0.85	Aug 22	2.7	Sep 21	^a 0.00	Oct 11, 1943
ANNUAL SEVEN-DAY MINIMUM	1.3	Aug 16	3.2	Sep 17	0.00	Aug 3, 1946
MAXIMUM PEAK FLOW			11,800	May 13	^b 21,700	Jun 7, 1951
MAXIMUM PEAK STAGE			11.58	May 13	^c 16.18	May 20, 1982
ANNUAL RUNOFF (AC-FT)	92,760		154,700		195,000	
10 PERCENT EXCEEDS	240		477		600	
50 PERCENT EXCEEDS	36		60		62	
90 PERCENT EXCEEDS	8.7		14		4.0	

- a No flow for many days in most years.
- b Gage height, 13.83 ft, site then in use, from rating curve extended above 16,000 ft³/s.
- c Discharge 21,300 ft³/s.
- e Estimated.



06447230 BLACK PIPE CREEK NEAR BELVIDERE, SD

LOCATION.--Lat 43°45'28", long 101°13'40", in NW¼ NW¼ sec.27, T.44 N., R.33 W., Black Hills meridian, Jackson County, Hydrologic Unit 10140202, on left bank at downstream side of State Highway 63 bridge, 0.9 mi upstream from Porcupine Creek, 3.7 mi upstream from mouth, and 5.6 mi southeast of Belvidere.

DRAINAGE AREA.--250 mi², approximately.

PERIOD OF RECORD.-- April 1992 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 2,060 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Satellite data-collection platform at station. Water temperature and specific conductance measured during the year are compiled in the Miscellaneous Temperature Measurements and Field Determinations section.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e1.9	e139	e0.80	e0.00	e0.60	3.4	3.2	16	19	2.2	0.96	0.00
2	e16	e26	e0.70	e0.00	e0.55	3.3	2.9	15	6.4	1.7	0.75	0.00
3	e14	e8.0	e0.60	e0.00	e0.50	2.4	2.6	14	6.4	1.5	0.61	0.00
4	e7.3	e4.3	e0.50	e0.00	e0.55	2.7	2.6	13	40	1.2	0.50	0.00
5	e8.0	e4.3	e0.45	e0.00	e0.50	3.4	2.4	12	131	1.1	0.58	0.00
6	e2.9	e3.9	e0.50	e0.00	e0.30	3.1	2.1	11	e89	1.0	0.54	0.00
7	2.1	e2.6	e0.50	e0.00	e0.10	3.3	2.1	13	e195	0.79	0.36	0.00
8	1.7	e2.1	e0.60	e0.00	e0.00	2.6	1.8	11	107	0.68	0.21	1.1
9	1.4	1.7	e0.80	e0.00	e0.00	2.4	1.7	8.6	35	0.54	0.05	0.52
10	1.2	2.1	e0.80	e0.00	e10	2.2	2.0	12	39	0.39	0.03	0.14
11	0.94	2.2	e0.80	e0.00	e150	2.2	120	e113	188	0.85	0.03	0.00
12	0.88	2.1	e0.80	e0.00	e100	2.1	166	e833	148	0.99	0.03	0.00
13	0.68	2.1	e0.60	e0.00	e50	2.0	33	227	204	1.3	114	0.00
14	0.55	1.9	e0.50	e0.00	e10	2.2	17	105	371	0.57	5.6	0.00
15	0.49	1.9	e0.40	e0.00	e3.5	2.0	14	68	120	3.4	1.5	0.00
16	0.44	1.8	e0.40	e0.00	e3.2	e1.8	11	48	55	3.5	0.49	0.00
17	0.39	1.8	e0.35	e0.00	e3.5	e1.6	8.2	35	30	0.84	0.17	0.00
18	0.30	1.9	e0.30	e0.00	e4.0	e1.3	5.7	73	e18	0.42	0.02	0.00
19	0.25	1.8	e0.25	e10	e4.5	e1.5	5.2	25	e13	0.16	0.00	0.00
20	11	1.8	e0.20	e50	e4.0	e2.0	29	18	e9.0	0.10	0.00	0.00
21	6.5	1.9	e0.10	e40	e4.0	e1.4	676	14	e7.0	0.21	0.00	0.00
22	2.7	2.3	e0.00	e20	e4.0	e2.6	719	11	e6.3	0.04	0.00	0.00
23	18	1.8	e0.00	e10	e5.0	e7.0	319	8.6	e5.4	0.03	0.00	0.00
24	7.2	1.4	e0.00	e5.0	6.0	e6.0	211	7.4	e4.7	52	0.00	62
25	4.9	1.3	e0.00	e3.0	4.9	e10	110	7.3	4.1	8.3	0.00	2.5
26	e3.1	1.4	e0.00	e3.0	3.6	e5.7	57	9.1	3.6	3.2	0.00	0.60
27	e2.8	e1.2	e0.00	e2.5	2.8	e400	36	5.2	3.2	1.7	1.0	0.33
28	e2.4	e1.1	e0.00	e2.0	2.7	e100	27	4.6	2.8	0.81	0.29	0.16
29	e2.4	e1.0	e0.00	e1.0	---	e20	22	4.8	3.1	17	0.02	0.04
30	e290	e0.90	e0.00	e0.50	---	e5.6	18	4.9	2.8	3.9	0.00	0.01
31	e464	---	e0.00	e0.50	---	3.6	---	39	---	1.7	0.00	---
TOTAL	876.42	227.60	10.95	147.50	378.80	609.4	2,627.5	1,786.5	1,866.8	112.12	127.74	67.40
MEAN	28.3	7.59	0.35	4.76	13.5	19.7	87.6	57.6	62.2	3.62	4.12	2.25
MAX	464	139	0.80	50	150	400	719	833	371	52	114	62
MIN	0.25	0.90	0.00	0.00	0.00	1.3	1.7	4.6	2.8	0.03	0.00	0.00
AC-FT	1,740	451	22	293	751	1,210	5,210	3,540	3,700	222	253	134

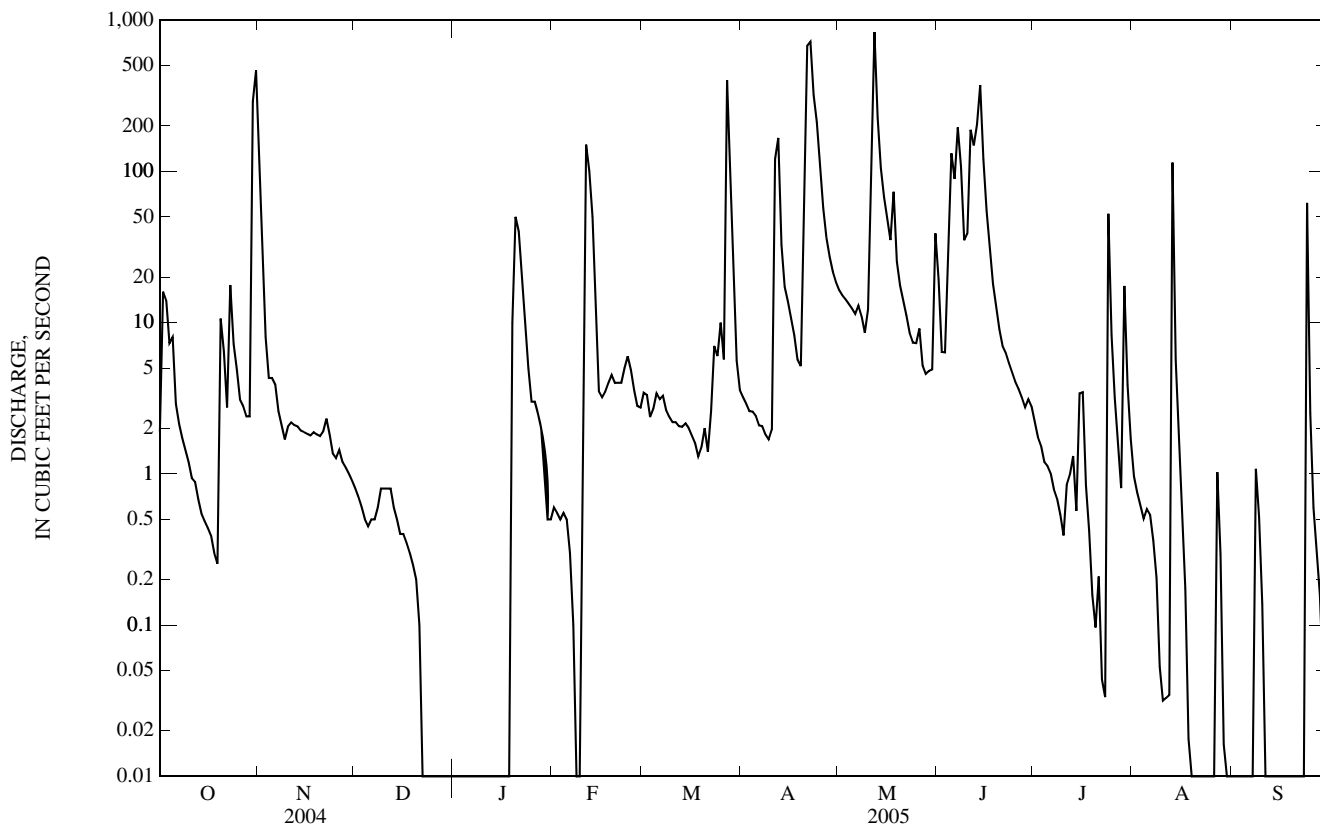
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2005, BY WATER YEAR (WY)

MEAN	12.8	6.83	5.87	15.7	43.2	50.3	61.9	65.7	72.8	26.0	7.72	11.3
MAX	54.1	27.9	27.2	154	218	116	166	197	346	121	29.5	52.7
(WY)	(1999)	(1999)	(1998)	(1997)	(1997)	(1998)	(1995)	(1995)	(1997)	(1998)	(1997)	(1999)
MIN	0.00	0.00	0.00	0.07	0.72	14.5	3.81	17.8	1.10	0.00	0.14	0.00
(WY)	(1993)	(2004)	(1993)	(2004)	(2001)	(1993)	(2004)	(2000)	(2003)	(2002)	(2003)	(2000)

06447230 BLACK PIPE CREEK NEAR BELVIDERE, SD—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1993 - 2005	
ANNUAL TOTAL	4,121.33		8,838.73			
ANNUAL MEAN	11.3		24.2		^a 31.5	
HIGHEST ANNUAL MEAN					97.2	1997
LOWEST ANNUAL MEAN					8.00	2002
HIGHEST DAILY MEAN	464	Oct 31	833	May 12	3,490	Jun 3, 1997
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Dec 22	^b 0.00	Oct 1, 1992
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Dec 22	0.00	Oct 1, 1992
MAXIMUM PEAK FLOW			2,000	Apr 21	^c 3,580	Jun 3, 1997
MAXIMUM PEAK STAGE			8.31	Apr 21	^d 15.70	Feb 17, 1997
ANNUAL RUNOFF (AC-FT)	8,170		17,530		22,830	
10 PERCENT EXCEEDS	17		49		68	
50 PERCENT EXCEEDS	1.4		2.0		5.0	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

- a Median of annual mean discharges, 24 ft³/s.
- b No flow at times in most years.
- c Gage height, 10.93 ft.
- d Backwater from ice.
- e Estimated.



WHITE RIVER BASIN

06447450 WHITE RIVER NEAR WHITE RIVER, SD

LOCATION.--Lat 43°42'50", long 100°41'05", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.8, T.4 N., R.28 W., Jones County, Hydrologic Unit 10140202, on left bank retaining wall 50 ft downstream from U.S. Hwy. 83 bridge, 11 mi north of White River.

DRAINAGE AREA.--6,280 mi², approximately, of which about 5,000 mi² probably contributes directly to surface runoff.

PERIOD OF RECORD.--June 2001 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,770 ft above NGVD of 1929, from topographic map. Nonrecording gage June 1 to July 26, 2001.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Satellite data-collection platform at station. Water temperature and specific conductance measured during the year are compiled in the Miscellaneous Temperature Measurements and Field Determinations section.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	708	31	e15	e300	e98	171	252	97	100	122	59
2	86	e649	30	e13	e280	84	135	197	143	153	91	45
3	286	408	32	e11	e260	77	112	139	388	189	67	40
4	86	233	35	e10	e240	79	101	113	703	120	76	28
5	47	e144	32	e9.0	e200	71	96	97	394	106	60	21
6	51	119	29	e8.0	e150	66	78	85	356	147	61	19
7	47	103	32	e7.5	e100	67	68	79	452	108	79	17
8	40	82	38	e7.0	e90	63	68	75	482	94	58	14
9	35	65	38	e6.5	e85	64	66	88	892	81	43	12
10	33	57	33	e6.8	e95	66	58	1,620	993	129	32	59
11	35	e46	31	e7.0	e110	66	60	802	1,480	123	26	140
12	35	43	41	e7.4	e150	72	63	2,200	934	87	24	68
13	31	38	e40	e7.2	e180	70	664	10,400	959	226	29	44
14	34	39	e40	e7.0	163	68	722	6,760	616	170	82	29
15	37	40	40	e6.5	137	e60	373	2,510	2,490	85	2,870	22
16	28	43	50	e6.0	e102	e58	216	1,660	1,510	77	1,310	17
17	25	43	43	e6.5	e136	53	141	880	1,230	111	670	14
18	22	43	51	e7.0	e182	55	108	618	696	78	362	12
19	20	40	43	e8.0	124	e55	89	869	876	56	248	10
20	22	e39	36	e10	128	52	95	494	944	49	181	9.9
21	26	e36	e30	e12	121	53	98	329	747	46	129	10
22	27	31	e25	e20	149	63	3,360	268	619	42	101	9.8
23	33	31	e20	e40	143	74	4,330	207	566	37	89	8.9
24	42	31	e20	e70	144	73	2,470	155	460	345	66	14
25	44	37	e25	e100	196	90	1,290	127	320	385	54	25
26	207	33	e30	e160	161	249	698	106	236	1,300	45	326
27	370	e31	e35	e240	138	502	462	94	184	517	34	216
28	212	e26	e40	e300	106	609	349	99	152	395	32	93
29	141	e24	e35	e340	---	479	375	235	129	388	41	60
30	114	e23	e30	e330	---	357	278	141	112	270	41	53
31	379	---	e22	e320	---	253	---	114	---	177	66	---
TOTAL	2,663	3,285	1,057	2,098.4	4,370	4,146	17,194	31,813	20,160	6,191	7,189	1,495.6
MEAN	85.9	110	34.1	67.7	156	134	573	1,026	672	200	232	49.9
MAX	379	708	51	340	300	609	4,330	10,400	2,490	1,300	2,870	326
MIN	20	23	20	6.0	85	52	58	75	97	37	24	8.9
AC-FT	5,280	6,520	2,100	4,160	8,670	8,220	34,100	63,100	39,990	12,280	14,260	2,970

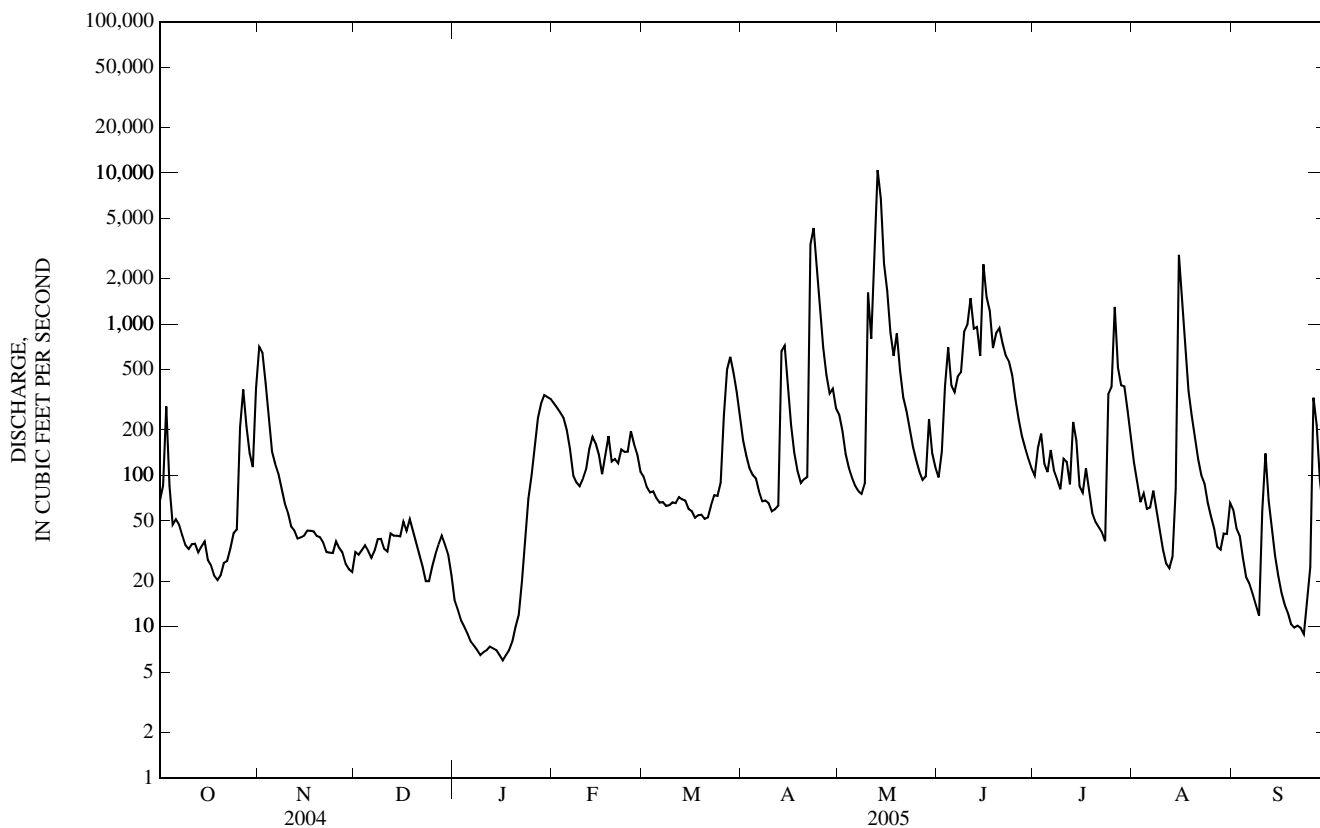
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

MEAN	37.5	63.0	64.6	37.0	150	268	288	514	228	107	79.5	218
MAX	85.9	110	130	67.7	284	492	573	1,026	672	200	232	534
(WY)	(2005)	(2005)	(2002)	(2005)	(2003)	(2003)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)
MIN	2.12	25.2	34.1	14.6	66.5	134	52.6	102	39.3	3.61	9.50	9.52
(WY)	(2004)	(2004)	(2005)	(2004)	(2002)	(2005)	(2004)	(2004)	(2002)	(2002)	(2003)	(2003)

06447450 WHITE RIVER NEAR WHITE RIVER, SD—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2002 - 2005	
ANNUAL TOTAL	47,155.9		101,662.0		171	
ANNUAL MEAN	129		279		279	
HIGHEST ANNUAL MEAN					117	
LOWEST ANNUAL MEAN					117	
HIGHEST DAILY MEAN	5,920	Sep 7	10,400	May 13	10,400	May 13, 2005
LOWEST DAILY MEAN	1.8	Aug 26	6.0	Jan 16	^a 0.00	Sep 10, 2003
ANNUAL SEVEN-DAY MINIMUM	3.0	Aug 21	6.8	Jan 11	0.00	Sep 10, 2003
MAXIMUM PEAK FLOW			11,800	May 13	^b 11,800	May 13, 2005
MAXIMUM PEAK STAGE			12.90	May 13	^c 13.37	Feb 19, 2003
ANNUAL RUNOFF (AC-FT)	93,530		201,600		123,900	
10 PERCENT EXCEEDS	285		618		380	
50 PERCENT EXCEEDS	40		81		54	
90 PERCENT EXCEEDS	7.0		20		5.0	

- a No flow for some days in most years.
- b Gage height, 12.90 ft.
- c Ice jam.
- e Estimated.



06447500 LITTLE WHITE RIVER NEAR MARTIN, SD

LOCATION.--Lat 43°10'00", long 101°37'47", in NW¹/₄ SW¹/₄ NW¹/₄ sec.19, T.37 N., R.36 W., Bennett County, Hydrologic Unit 10140203, on right bank 110 ft downstream from highway culvert and 5.4 mi east of Martin.

DRAINAGE AREA.--310 mi², approximately, of which about 230 mi² probably contributes directly to surface runoff.

PERIOD OF RECORD.--February 1938 to September 1940, July 1962 to current year. Prior to October 1965, published as South Fork White River near Martin.

GAGE.--Water-stage recorder. Elevation of gage is 3,045 ft above NGVD of 1929, by barometer. Prior to Aug. 14, 1938, nonrecording gage at same site and datum. Prior to June 17, 1997, gage 40 ft upstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Satellite data-collection platform at station. Water temperature and specific conductance measured during the year are compiled in the Miscellaneous Temperature Measurements and Field Determinations section.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 5, 1932, reached a stage of 13.3 ft, from floodmarks.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	22	e15	e12	e26	20	26	26	25	21	13	9.0
2	14	23	e18	e11	e26	19	24	25	27	16	12	9.0
3	14	24	19	e10	e28	19	22	24	24	15	11	9.0
4	15	19	17	e9.0	e30	19	21	24	26	14	10	8.7
5	16	18	16	e8.0	e32	19	20	23	28	23	10	8.6
6	13	17	18	e7.5	e38	19	19	23	37	18	9.8	8.5
7	13	17	18	e7.8	e45	19	18	23	33	26	9.6	8.6
8	13	16	18	e8.0	e40	20	17	26	33	22	9.5	8.6
9	13	16	18	e8.0	29	21	17	32	29	15	9.3	8.8
10	12	16	21	e8.1	27	21	17	27	26	13	9.2	8.7
11	12	15	20	e8.3	31	19	18	27	25	13	9.3	8.7
12	12	15	21	e8.5	33	20	18	61	24	14	10	8.7
13	13	15	e20	e8.0	25	19	23	104	25	14	14	8.7
14	13	15	e17	e7.5	31	19	24	81	38	13	17	8.7
15	12	15	e19	e7.0	29	20	21	117	43	12	17	8.9
16	13	15	e21	e7.0	31	20	23	90	34	11	19	9.1
17	13	15	e24	e7.3	29	19	22	54	35	11	23	8.9
18	13	16	e21	e7.6	27	19	21	42	29	10	18	8.9
19	13	16	e20	e8.0	28	19	20	35	27	10	14	9.0
20	13	15	e19	e8.5	27	18	20	30	26	9.7	12	9.0
21	13	e14	e17	e10	26	18	24	28	23	9.4	11	9.2
22	14	e15	e15	e20	26	19	50	25	20	9.1	11	9.2
23	14	e17	e13	e18	23	20	80	24	18	9.1	10	9.3
24	15	e16	e12	e21	29	24	70	23	16	9.3	10	10
25	15	16	e12	e24	25	25	85	23	15	12	10	11
26	16	17	e13	e28	20	27	58	24	15	17	9.8	12
27	16	17	e13	e32	20	29	42	26	15	36	9.8	12
28	15	15	e12	e31	20	34	34	23	14	44	9.6	11
29	15	e14	e13	e30	---	33	30	22	18	30	9.6	11
30	15	e13	e14	e29	---	31	28	21	28	21	9.5	11
31	19	---	e13	e28	---	29	---	22	---	16	9.2	---
TOTAL	427	494	527	438.1	801	677	912	1,155	776	513.6	366.2	281.8
MEAN	13.8	16.5	17.0	14.1	28.6	21.8	30.4	37.3	25.9	16.6	11.8	9.39
MAX	19	24	24	32	45	34	85	117	43	44	23	12
MIN	10	13	12	7.0	20	18	17	21	14	9.1	9.2	8.5
AC-FT	847	980	1,050	869	1,590	1,340	1,810	2,290	1,540	1,020	726	559

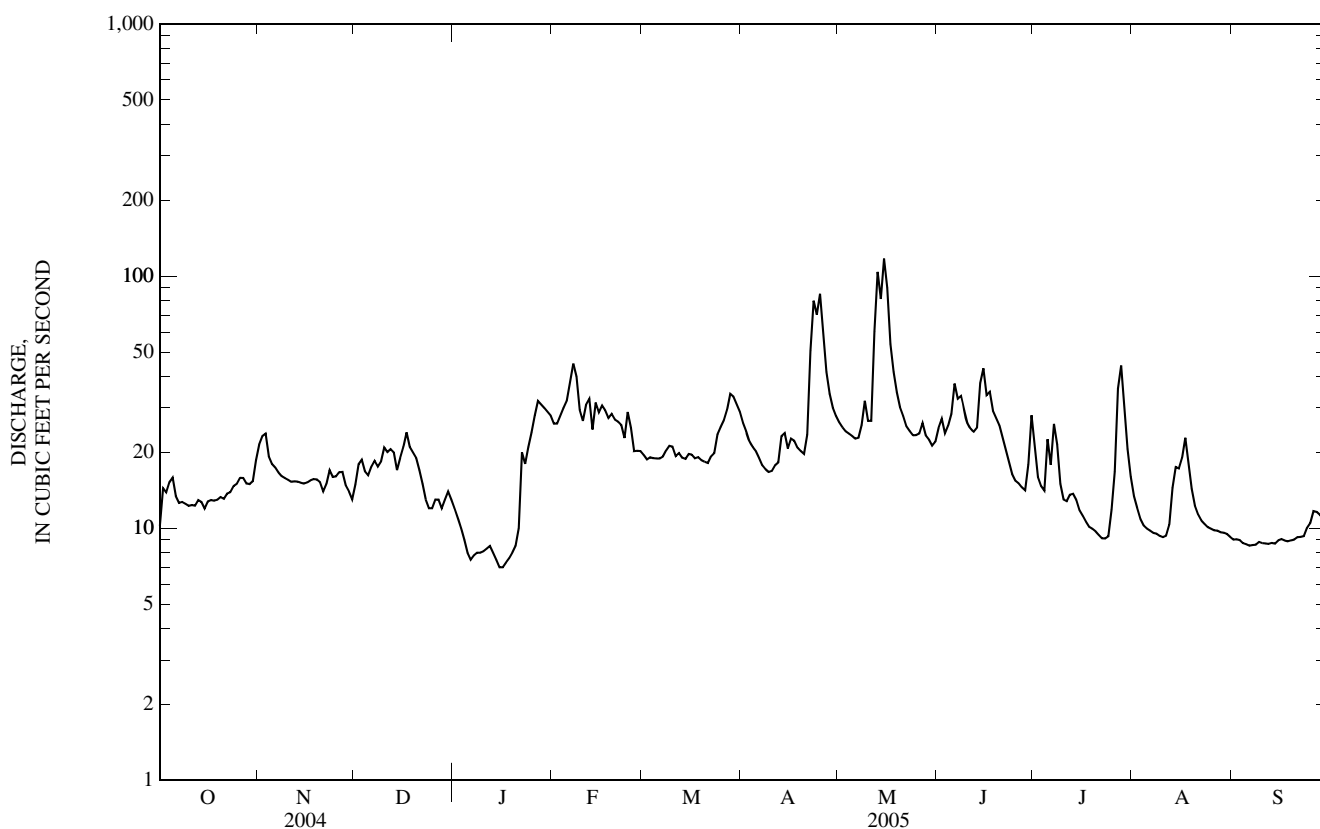
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939-1940, 1963 - 2005, BY WATER YEAR (WY)

MEAN	13.8	16.8	13.3	12.0	23.7	43.9	37.2	31.3	30.1	15.7	12.0	9.77
MAX	34.8	46.9	28.8	34.9	199	157	104	66.4	162	44.5	102	19.9
(WY)	(1999)	(1999)	(1994)	(1997)	(1997)	(1966)	(1977)	(2000)	(1997)	(1969)	(1983)	(1998)
MIN	7.86	9.73	5.59	4.51	6.26	11.4	13.0	12.2	5.65	2.01	1.80	4.87
(WY)	(1980)	(1965)	(1986)	(1982)	(1989)	(1977)	(1981)	(1940)	(1940)	(1940)	(1940)	(1939)

06447500 LITTLE WHITE RIVER NEAR MARTIN, SD—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1939-1940,1963- 2005	
ANNUAL TOTAL	5,188.0		7,368.7		21.6	
ANNUAL MEAN	14.2		20.2		10.9	
HIGHEST ANNUAL MEAN					53.7	1997
LOWEST ANNUAL MEAN					10.9	1940
HIGHEST DAILY MEAN	57	Mar 9	117	May 15	1,110	Jun 4, 1997
LOWEST DAILY MEAN	5.3	Sep 4	7.0	Jan 15	^a 0.60	Aug 14, 1940
ANNUAL SEVEN-DAY MINIMUM	5.8	Aug 29	7.5	Jan 13	0.67	Aug 12, 1940
MAXIMUM PEAK FLOW			126	May 15	1,300	Jun 4, 1997
MAXIMUM PEAK STAGE			4.30	May 15	13.48	Jun 4, 1997
ANNUAL RUNOFF (AC-FT)	10,290		14,620		15,640	
10 PERCENT EXCEEDS	23		31		40	
50 PERCENT EXCEEDS	13		18		14	
90 PERCENT EXCEEDS	7.3		9.1		6.5	

a Also Aug. 16, 18, 1940, and no flow part of each day Oct. 19, 20, 22, 1962 (regulation due to construction).
 e Estimated.



06448000 LAKE CREEK ABOVE REFUGE, NEAR TUTHILL, SD

LOCATION.--Lat 43°05'14", long 101°36'12", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.19, T.36 N., R.36 W., Bennett County, Hydrologic Unit 10140203, on right wingwall at upstream side of culvert, 80 ft downstream from west boundary of LaCreek game refuge and 7.5 mi southwest of Tuthill.

DRAINAGE AREA.--58 mi², approximately, of which about 23 mi² probably contributes directly to surface runoff.

PERIOD OF RECORD.--February 1938 to September 1940, July 1962 to February 1979, Apr. 11, 1996, to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 3,090 ft above NGVD of 1929, by barometer. Prior to Aug. 9, 1938, nonrecording gage and Aug. 9, 1938, to Sept. 30, 1940, water-stage recorder at site 110 ft upstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. A few small diversions for irrigation of hay meadows above station. Satellite data-collection platform at station. Water temperature and specific conductance measured during the year are compiled in the Miscellaneous Temperature Measurements and Field Determinations section.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	39	e21	e17	25	26	23	44	43	e24	16	14
2	31	33	22	e16	26	27	23	44	37	e24	15	15
3	25	29	23	e17	26	27	23	43	35	e26	14	15
4	23	26	24	e16	28	27	25	43	42	e25	15	14
5	22	25	24	e15	29	27	25	43	45	e27	15	14
6	21	24	23	e14	27	27	23	42	e37	e33	14	14
7	22	24	22	e15	24	28	22	48	e38	e20	14	15
8	20	24	23	e17	e20	28	22	47	e37	18	14	16
9	20	23	22	e19	e22	28	21	49	e39	18	14	19
10	19	23	22	e19	e24	28	25	46	e41	17	14	20
11	20	23	22	e18	e28	28	49	66	e43	23	16	17
12	20	23	21	e17	31	28	44	107	e41	19	17	17
13	21	23	e20	e16	34	26	30	81	e74	20	33	18
14	22	23	e20	e15	29	27	27	57	63	e21	27	18
15	22	24	21	e14	27	26	24	49	39	e23	21	17
16	22	23	22	e14	27	26	22	45	33	e25	18	18
17	22	23	22	e14	26	28	21	43	33	e20	16	17
18	22	23	22	e15	26	28	20	42	31	e20	15	17
19	21	23	22	e16	27	28	21	40	27	e19	16	18
20	21	23	22	e20	27	28	30	38	27	e20	16	18
21	20	23	e21	e25	26	30	98	36	29	e20	16	17
22	21	23	e20	e35	25	36	118	34	25	e20	16	17
23	28	24	e19	e32	27	39	69	34	23	e19	16	18
24	25	24	e18	27	27	39	54	34	23	e21	17	23
25	23	24	e18	26	27	41	50	44	24	e22	16	23
26	23	24	e19	23	28	38	48	41	23	e23	16	22
27	22	24	e20	22	27	36	47	36	22	e24	16	20
28	21	23	21	24	26	31	47	33	e26	e22	16	19
29	27	e22	22	25	---	28	47	33	e27	e16	15	20
30	39	e21	24	24	---	26	45	36	23	16	15	19
31	31	---	20	26	---	24	---	57	---	16	14	---
TOTAL	749	733	662	613	746	914	1,143	1,435	1,050	661	513	529
MEAN	24.2	24.4	21.4	19.8	26.6	29.5	38.1	46.3	35.0	21.3	16.5	17.6
MAX	53	39	24	35	34	41	118	107	74	33	33	23
MIN	19	21	18	14	20	24	20	33	22	16	14	14
AC-FT	1,490	1,450	1,310	1,220	1,480	1,810	2,270	2,850	2,080	1,310	1,020	1,050

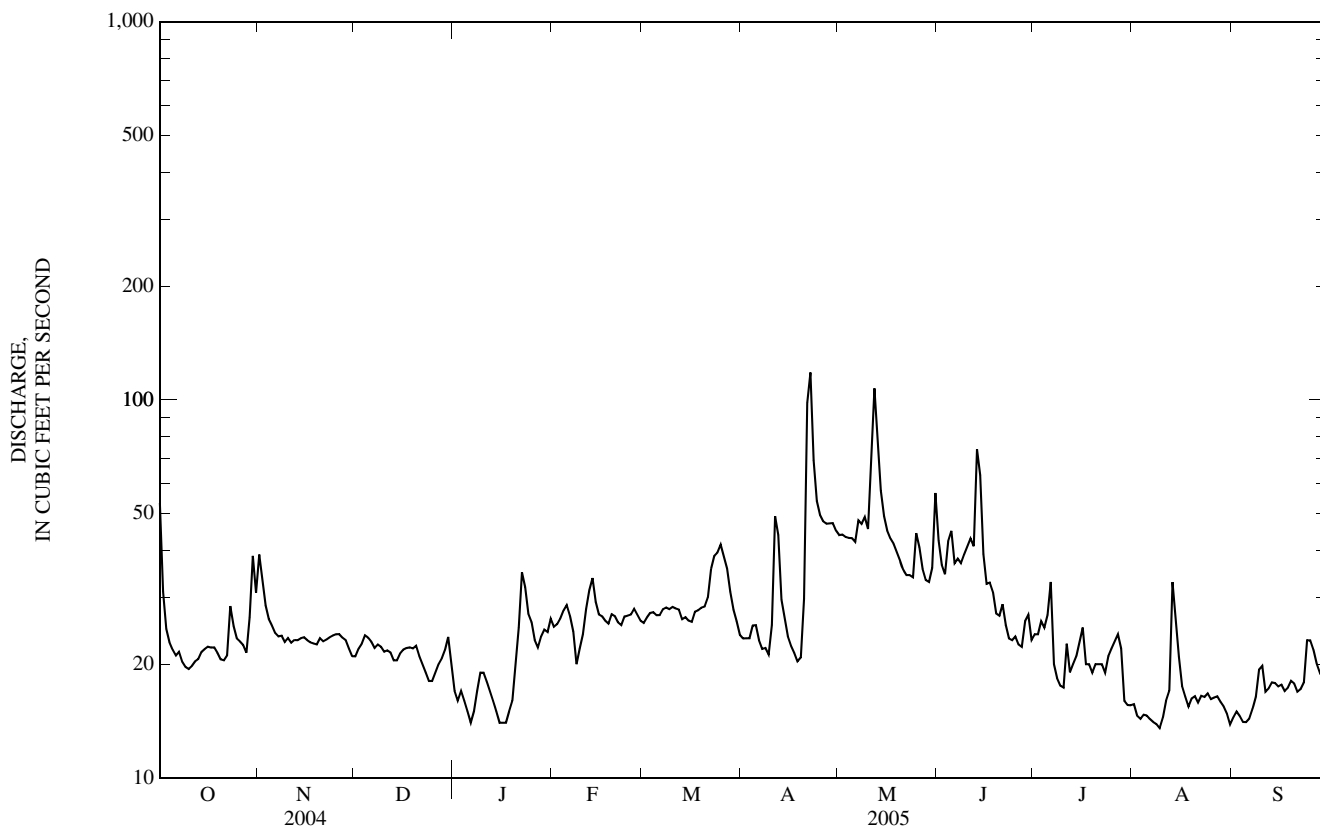
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939-1940,1963-1979,1997- 2005, BY WATER YEAR (WY)

MEAN	20.1	21.5	20.7	20.7	24.2	29.1	28.2	25.3	21.9	17.4	16.2	17.5
MAX	28.0	28.1	28.8	32.2	34.6	38.7	44.7	50.9	44.6	28.6	23.5	25.3
(WY)	(1999)	(1999)	(2002)	(2001)	(1999)	(2001)	(2001)	(2000)	(1999)	(1999)	(1997)	(2004)
MIN	15.0	14.5	7.39	12.2	11.1	17.5	18.6	9.99	8.83	10.3	8.40	11.5
(WY)	(1976)	(1939)	(1939)	(1979)	(1939)	(1976)	(1976)	(1939)	(1939)	(1974)	(1970)	(1970)

06448000 LAKE CREEK ABOVE REFUGE, NEAR TUTHILL, SD—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1939-1940,1963-1979,1997-2005	
ANNUAL TOTAL	8,617		9,748		21.9	
ANNUAL MEAN	23.5		26.7		28.7	
HIGHEST ANNUAL MEAN					13.8	
LOWEST ANNUAL MEAN					1939	
HIGHEST DAILY MEAN	53	Oct 1	118	Apr 22	118	Apr 22, 2005
LOWEST DAILY MEAN	10	Jan 6	14	Jan 6	0.10	Jun 5, 1939
ANNUAL SEVEN-DAY MINIMUM	13	Jan 1	14	Aug 3	1.0	Jun 3, 1939
MAXIMUM PEAK FLOW			157		^a 157	
MAXIMUM PEAK STAGE			2.62		^b 3.75	
ANNUAL RUNOFF (AC-FT)	17,090		19,340		15,840	
10 PERCENT EXCEEDS	30		42		30	
50 PERCENT EXCEEDS	23		23		20	
90 PERCENT EXCEEDS	18		16		14	

a Gage height, 2.62 ft.
 b Backwater from ice.
 e Estimated.



06449000 LAKE CREEK BELOW REFUGE, NEAR TUTHILL, SD

LOCATION.--Lat 43°08'49", long 101°30'51", in SE¹/₄SE¹/₄ sec.25, T.37 N., R.36 W., Bennett County, Hydrologic Unit 10140203, on left bank 40 ft upstream from east boundary of LaCreek game refuge, 1.2 mi southwest of Tuthill, and 5.5 mi upstream from mouth.

DRAINAGE AREA.--120 mi², approximately, of which about 60 mi² probably contributes directly to surface runoff.

PERIOD OF RECORD.--February 1938 to September 1940, July 1962 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 3,055 ft above NGVD of 1929, by barometer. Prior to Oct. 1, 1999, at site 400 ft downstream at same datum. Prior to Aug. 4, 1938, nonrecording gage at site 400 ft downstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Satellite data-collection platform at station. Water temperature and specific conductance measured during the year are compiled in the Miscellaneous Temperature Measurements and Field Determinations section.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	9.0	44	e22	34	17	13	108	42	1.5	4.9	0.27
2	22	12	44	e20	35	29	33	104	46	13	14	0.00
3	23	14	44	e20	34	22	23	99	44	18	5.7	1.7
4	23	14	44	e19	35	25	32	95	46	11	0.22	6.7
5	17	14	44	e18	41	21	44	91	48	11	0.00	5.8
6	15	13	45	e17	28	41	17	83	43	14	1.9	0.05
7	15	13	46	e16	30	6.7	15	86	41	15	0.31	0.00
8	15	16	46	e15	44	17	11	85	57	13	0.50	0.14
9	15	21	45	e14	41	7.1	53	76	30	14	0.24	0.00
10	15	24	46	e14	43	28	39	63	44	14	0.08	14
11	15	23	45	e15	42	14	52	62	50	27	2.6	0.14
12	15	24	e44	e15	50	7.4	47	78	31	13	1.5	0.00
13	15	23	e44	e14	55	2.2	34	78	66	8.9	32	3.8
14	15	23	43	e13	44	2.1	46	76	68	20	38	3.6
15	14	26	43	e12	43	1.4	48	72	53	7.8	34	0.07
16	14	28	44	e10	33	1.3	47	73	52	9.6	21	0.20
17	14	28	44	e12	36	8.9	47	76	46	21	33	2.3
18	11	28	43	e15	39	26	48	79	56	7.6	11	1.3
19	6.4	28	43	e25	44	24	49	72	58	10	2.2	4.3
20	6.4	28	e45	e40	38	22	51	71	53	18	3.1	12
21	6.3	27	e40	e50	37	39	63	72	36	19	3.7	2.6
22	8.3	32	e35	e60	36	39	77	68	51	23	2.9	0.00
23	9.6	38	e30	e70	44	28	78	65	46	23	6.4	0.28
24	9.6	43	e33	e60	27	34	82	60	18	9.1	24	14
25	9.5	44	e38	e50	21	28	85	64	27	3.0	9.2	6.6
26	9.5	44	43	35	28	46	87	59	40	4.0	5.3	20
27	9.5	44	46	34	24	40	89	58	19	14	4.2	9.7
28	9.5	43	48	37	12	36	92	43	14	4.3	0.72	12
29	9.2	44	45	41	---	32	103	37	46	7.2	0.72	13
30	8.4	44	e38	39	---	27	111	34	29	7.8	6.9	8.0
31	8.2	---	e28	36	---	35	---	48	---	7.6	16	---
TOTAL	401.4	812.0	1,310	858	1,018	707.1	1,616	2,235	1,300	389.4	286.29	142.55
MEAN	12.9	27.1	42.3	27.7	36.4	22.8	53.9	72.1	43.3	12.6	9.24	4.75
MAX	23	44	48	70	55	46	111	108	68	27	38	20
MIN	6.3	9.0	28	10	12	1.3	11	34	14	1.5	0.00	0.00
AC-FT	796	1,610	2,600	1,700	2,020	1,400	3,210	4,430	2,580	772	568	283

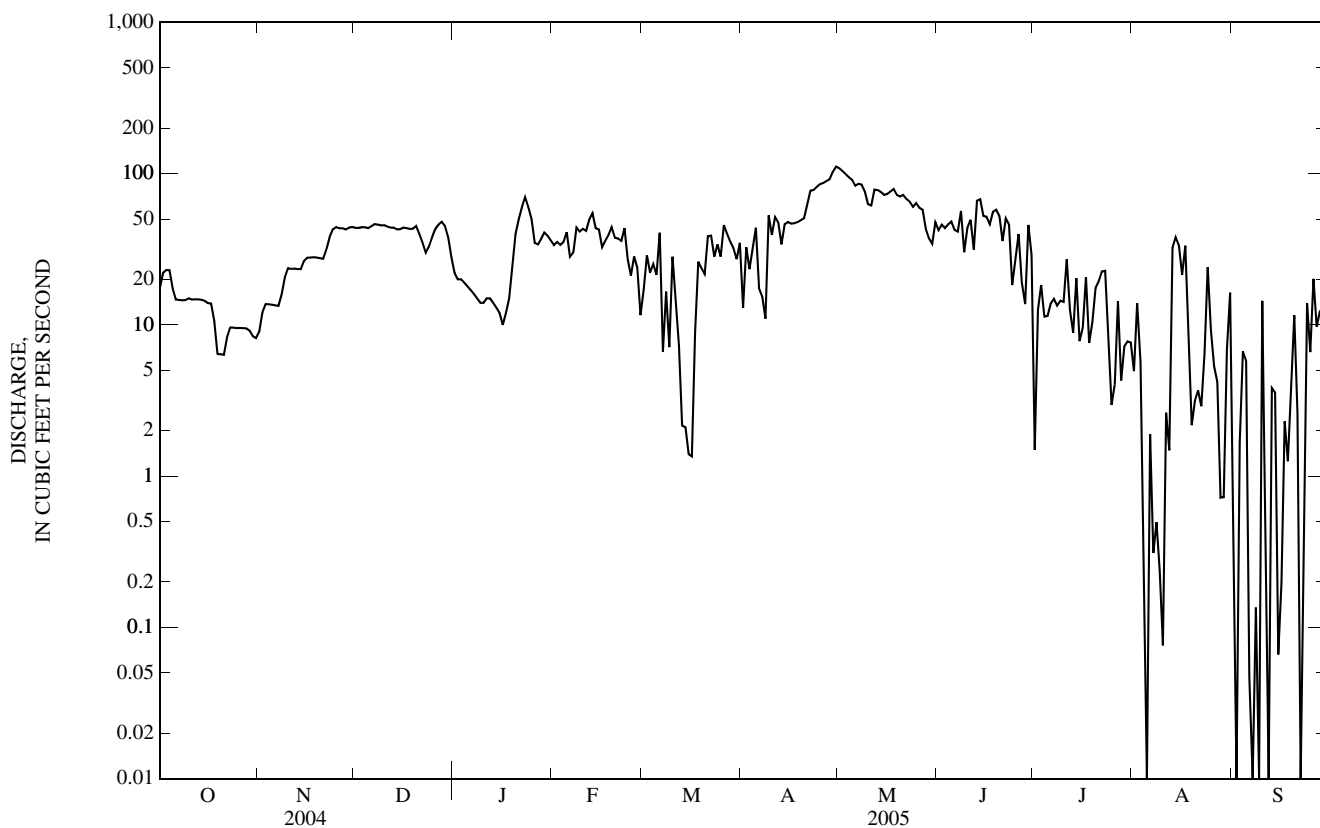
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939, 1963 - 2005, BY WATER YEAR (WY)

MEAN	6.67	11.6	16.9	19.1	23.0	33.0	37.6	33.1	29.1	15.7	11.0	8.50
MAX	23.8	43.4	48.3	49.9	49.9	109	96.1	79.3	139	63.4	42.8	35.8
(WY)	(1939)	(1999)	(1999)	(1997)	(1997)	(1987)	(1977)	(1991)	(1991)	(1967)	(1994)	(1993)
MIN	0.00	0.00	0.00	0.00	0.00	0.06	0.09	0.03	0.03	0.24	0.08	0.11
(WY)	(1940)	(1940)	(1940)	(1940)	(1940)	(1940)	(1965)	(1939)	(1939)	(1939)	(1939)	(1939)

06449000 LAKE CREEK BELOW REFUGE, NEAR TUTHILL, SD—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1939, 1963 - 2005	
ANNUAL TOTAL	7,764.00		11,075.74			
ANNUAL MEAN	21.2		30.3		20.4	
HIGHEST ANNUAL MEAN					41.9	1997
LOWEST ANNUAL MEAN					3.09	1940
HIGHEST DAILY MEAN	55	May 30	111	Apr 30	424	Mar 25, 1987
LOWEST DAILY MEAN	0.37	Aug 20	0.00	Aug 5	^a 0.00	Mar 25, 1939
ANNUAL SEVEN-DAY MINIMUM	2.1	Aug 16	0.46	Aug 4	0.00	Mar 25, 1939
MAXIMUM PEAK FLOW			^b 116	Apr 30	^c 594	Mar 25, 1987
MAXIMUM PEAK STAGE			^d 4.82	Jan 23	^f 6.46	Mar 12, 1988
ANNUAL RUNOFF (AC-FT)	15,400		21,970		14,790	
10 PERCENT EXCEEDS	43		62		48	
50 PERCENT EXCEEDS	23		27		15	
90 PERCENT EXCEEDS	3.7		3.4		0.65	

- a No flow at times in some years.
- b Gage height, 4.49 ft.
- c Gage height, 5.57 ft, from rating curve extended above 150 ft³/s.
- d Backwater from ice.
- f Backwater from ice, at site 400 ft downstream.
- e Estimated.



WHITE RIVER BASIN

06449100 LITTLE WHITE RIVER NEAR VETAL, SD

LOCATION.--Lat 43°06'03", long 101°13'49", in NE¹/₄ NW¹/₄ sec.17, T.36 N., R.33 W., Bennett County, Hydrologic Unit 10140203, on left bank downstream side of highway culvert, 0.3 mi downstream from small right-bank tributary, 10.8 mi southeast of Vetal, and 15.3 mi upstream from Spring Creek.

DRAINAGE AREA.--590 mi², approximately, of which about 415 mi² probably contributes directly to surface runoff.

PERIOD OF RECORD.--August 1959 to current year. Prior to October 1965, published as South Fork White River near Vetal.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 2,780.69 ft above NGVD of 1929. Prior to Nov. 14, 1959, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Some small diversion for irrigation and some storage in several small lakes above station. Satellite data-collection platform at station. Water temperature and specific conductance measured during the year are compiled in the Miscellaneous Temperature Measurements and Field Determinations section.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	45	74	e50	76	60	80	206	103	79	42	38
2	45	46	83	e52	78	56	71	199	107	54	41	38
3	43	45	79	e55	80	63	70	190	98	46	41	37
4	43	47	83	e50	84	61	73	184	120	54	40	36
5	43	48	79	e45	84	63	71	173	123	55	40	36
6	60	49	79	e42	85	61	74	166	108	54	40	35
7	57	49	79	e43	75	64	74	167	98	47	39	35
8	55	49	81	e43	e70	66	56	156	90	47	39	34
9	53	48	84	e44	e80	50	51	145	98	48	38	33
10	49	50	79	e45	e140	51	60	144	96	49	37	33
11	46	53	76	e45	e150	53	91	152	118	62	37	33
12	46	55	84	e44	98	48	104	205	116	61	42	32
13	47	55	68	e43	98	49	104	211	154	54	101	31
14	48	53	63	e42	91	42	93	218	160	48	85	31
15	46	53	69	e41	92	40	76	208	160	46	62	30
16	46	53	86	e40	87	39	88	204	148	45	60	29
17	46	56	80	e40	76	37	92	218	145	44	57	29
18	45	62	81	e42	77	38	89	224	137	43	51	29
19	44	62	77	e45	79	51	90	224	125	43	58	28
20	41	62	81	e50	86	66	108	219	128	43	51	28
21	37	62	74	e65	84	65	195	205	125	42	47	27
22	37	62	58	e70	78	69	297	170	106	42	45	27
23	40	63	e50	e90	85	89	276	158	97	42	43	27
24	40	67	e60	63	77	95	220	143	107	54	43	28
25	40	71	e100	71	72	89	198	149	81	47	42	27
26	41	77	e160	89	70	78	193	135	73	45	46	27
27	41	76	e140	77	64	94	204	126	79	44	44	27
28	e42	76	114	70	67	95	208	111	73	44	42	27
29	e42	73	90	72	---	87	207	103	68	43	42	26
30	47	69	83	77	---	80	203	92	68	43	41	26
31	47	---	e65	78	---	75	---	112	---	42	39	---
TOTAL	1,408	1,736	2,559	1,723	2,383	1,974	3,816	5,317	3,309	1,510	1,475	924
MEAN	45.4	57.9	82.5	55.6	85.1	63.7	127	172	110	48.7	47.6	30.8
MAX	60	77	160	90	150	95	297	224	160	79	101	38
MIN	37	45	50	40	64	37	51	92	68	42	37	26
AC-FT	2,790	3,440	5,080	3,420	4,730	3,920	7,570	10,550	6,560	3,000	2,930	1,830

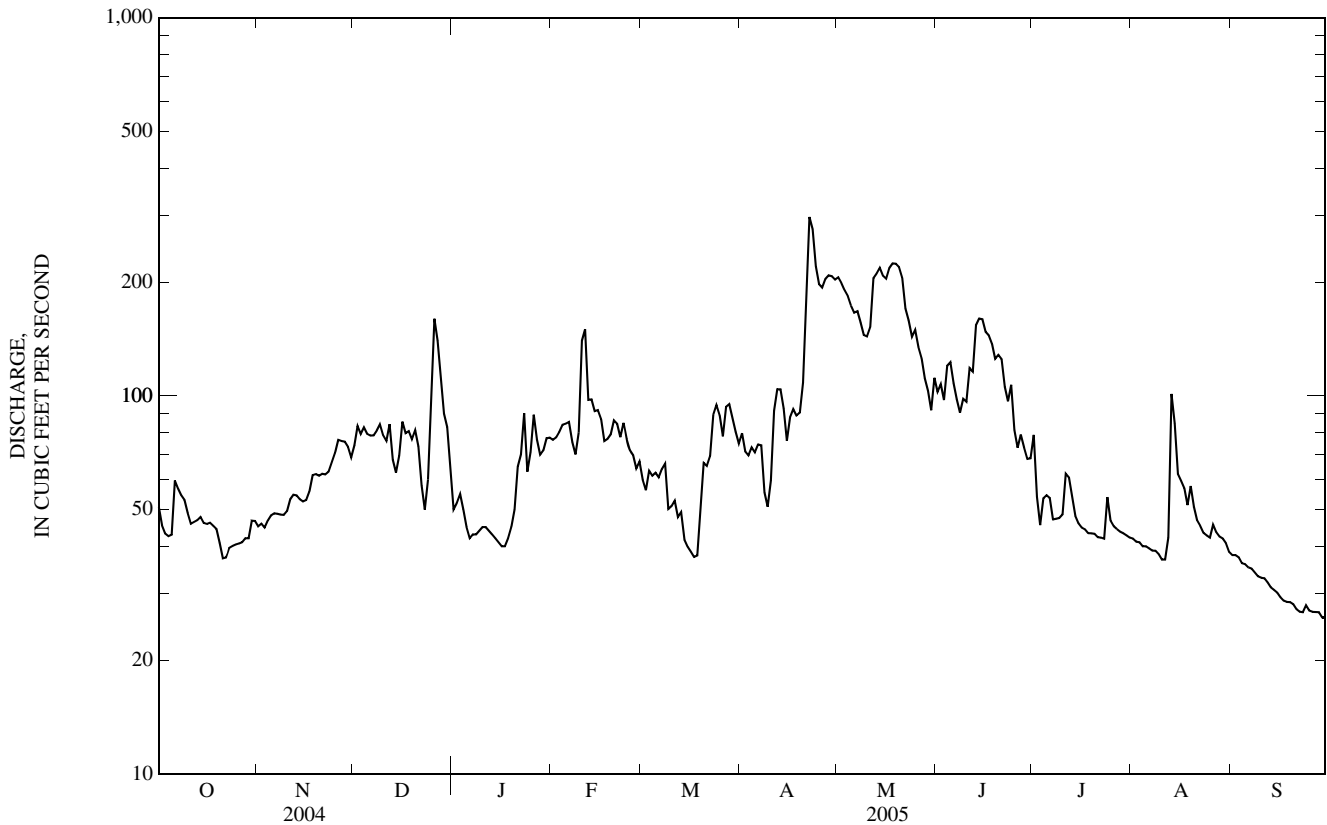
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2005, BY WATER YEAR (WY)

MEAN	35.1	44.0	44.0	41.2	58.9	97.8	102	93.3	86.0	51.2	40.4	33.3
MAX	80.4	146	115	96.7	188	205	273	185	272	156	137	89.0
(WY)	(1999)	(1999)	(1999)	(1999)	(1997)	(1978)	(1977)	(1991)	(1997)	(1967)	(1983)	(1997)
MIN	18.0	21.3	12.5	18.5	19.2	33.5	27.3	28.5	20.3	16.2	15.1	16.5
(WY)	(1977)	(1977)	(1975)	(1981)	(1977)	(1981)	(1981)	(1992)	(1985)	(1974)	(1961)	(1975)

06449100 LITTLE WHITE RIVER NEAR VETAL, SD—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1960 - 2005	
ANNUAL TOTAL	19,322		28,134		60.6	
ANNUAL MEAN	52.8		77.1		28.2	
HIGHEST ANNUAL MEAN					117	1997
LOWEST ANNUAL MEAN					28.2	1981
HIGHEST DAILY MEAN	160	Dec 26	297	Apr 22	1,200	May 16, 1991
LOWEST DAILY MEAN	22	Aug 15	26	Sep 29	9.0	Dec 24, 1974
ANNUAL SEVEN-DAY MINIMUM	22	Aug 14	27	Sep 24	9.6	Dec 19, 1974
MAXIMUM PEAK FLOW			327	Apr 22	3,540	May 16, 1991
MAXIMUM PEAK STAGE			5.62	Apr 22	12.53	May 16, 1991
ANNUAL RUNOFF (AC-FT)	38,330		55,800		43,880	
10 PERCENT EXCEEDS	82		149		117	
50 PERCENT EXCEEDS	46		62		45	
90 PERCENT EXCEEDS	26		38		21	

e Estimated.



WHITE RIVER BASIN

06449500 LITTLE WHITE RIVER NEAR ROSEBUD, SD

LOCATION.--Lat 43°19'32", long 100°53'00", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.28, T.39 N., R.30 W., Todd County, Hydrologic Unit 10140203, on right bank at downstream side of bridge on U.S. Highway 18, 0.3 mi downstream from Scabby Creek, 0.7 mi downstream from Soldier Creek, and 6.4 mi north of Rosebud.

DRAINAGE AREA.--1,020 mi², approximately, of which about 760 mi² probably contributes directly to surface runoff.

PERIOD OF RECORD.--May 1943 to current year. Prior to October 1965, published as South Fork White River near Rosebud.

REVISED RECORDS.--WSP 1056: Drainage area. WSP 1309: 1946(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 2,294.99 ft above NGVD of 1929. Prior to May 11, 1948, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Satellite data-collection platform at station. Some small diversions for irrigation and some storage in several small lakes above station. Water temperature and specific conductance measured during the year are compiled in the Miscellaneous Temperature Measurements and Field Determinations section.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	244	121	122	e150	e250	135	144	255	179	126	76	60
2	136	116	155	e120	e260	126	146	257	171	134	78	60
3	109	111	158	e100	e200	127	137	250	171	116	81	66
4	101	111	143	e95	164	132	135	240	185	108	81	60
5	99	113	142	e90	160	129	144	237	200	114	82	57
6	99	116	140	e85	160	130	138	232	184	112	74	57
7	106	113	141	e85	152	137	138	234	177	111	69	58
8	109	114	137	e88	141	135	140	235	167	109	67	61
9	104	116	140	e92	132	136	123	222	159	108	64	e62
10	102	118	145	e94	152	114	131	215	169	105	65	e60
11	100	117	141	e95	160	114	170	241	221	122	69	e60
12	98	117	137	e95	162	115	189	298	207	119	71	e61
13	98	120	143	e90	158	111	179	297	218	115	127	e62
14	99	119	133	e85	165	111	176	275	254	108	113	e62
15	100	120	121	e80	165	104	171	272	231	97	114	61
16	98	121	134	e80	161	100	154	258	220	92	94	60
17	96	120	154	e80	153	100	160	254	211	90	95	58
18	97	123	142	e82	144	101	159	261	203	82	92	60
19	101	129	144	e85	141	100	156	254	192	84	85	63
20	98	129	142	e90	146	107	194	247	182	84	91	65
21	95	125	157	e120	153	140	280	241	183	94	82	60
22	94	126	140	e200	150	147	535	227	175	80	76	58
23	97	125	e120	e190	145	146	443	208	160	80	72	60
24	96	130	e100	e280	151	169	351	202	158	144	70	74
25	95	134	e120	e260	141	177	294	220	160	106	68	77
26	95	140	e160	e250	143	161	268	213	145	96	79	76
27	94	146	e220	e245	139	152	258	197	132	83	80	74
28	97	143	e280	e240	134	160	259	185	137	77	73	72
29	103	146	e236	e235	---	163	258	173	146	73	68	79
30	126	150	e268	e230	---	161	256	172	137	76	64	76
31	113	---	e200	e240	---	155	---	186	---	73	62	---
TOTAL	3,299	3,729	4,815	4,351	4,482	4,095	6,286	7,258	5,434	3,118	2,482	1,919
MEAN	106	124	155	140	160	132	210	234	181	101	80.1	64.0
MAX	244	150	280	280	260	177	535	298	254	144	127	79
MIN	94	111	100	80	132	100	123	172	132	73	62	57
AC-FT	6,540	7,400	9,550	8,630	8,890	8,120	12,470	14,400	10,780	6,180	4,920	3,810

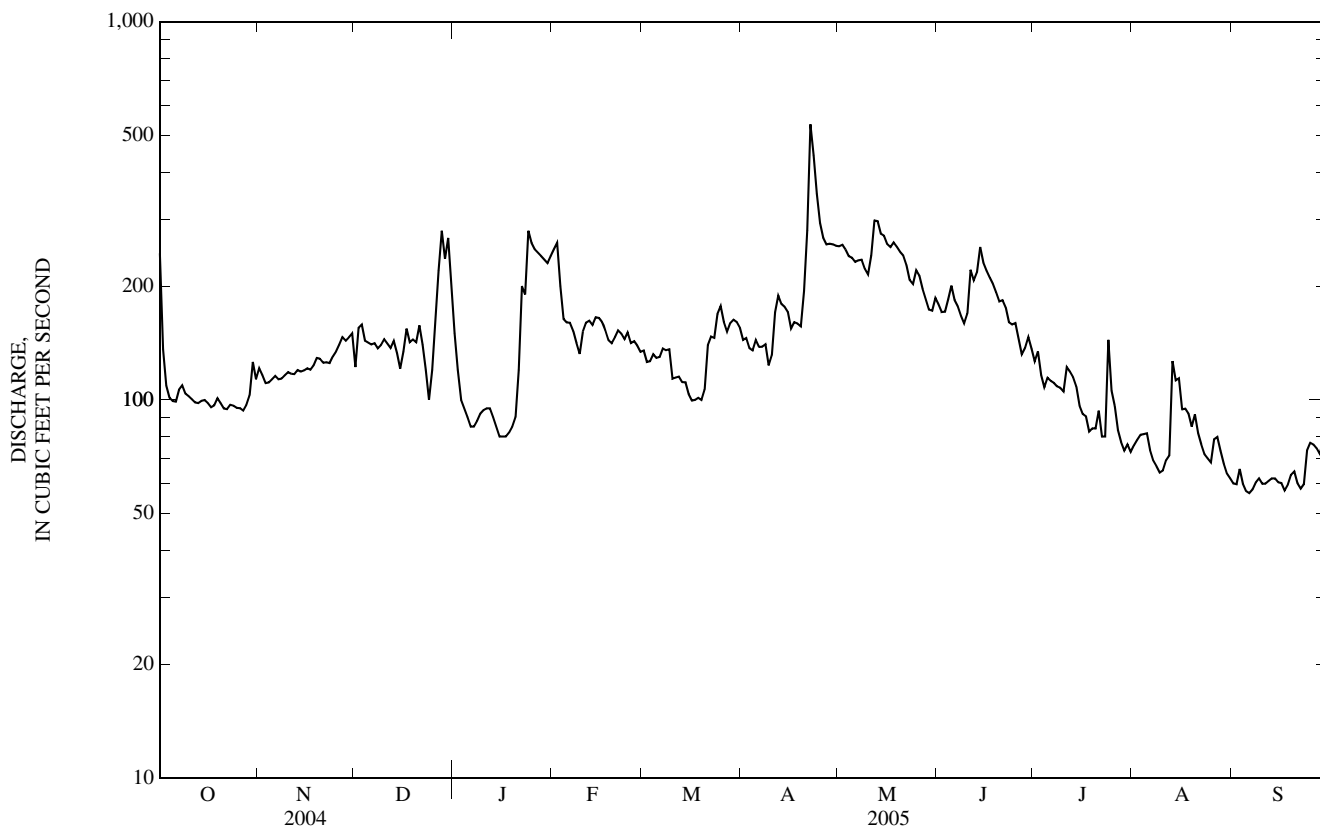
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2005, BY WATER YEAR (WY)

	83.1	93.3	90.0	85.5	118	195	188	166	154	100	79.8	74.1
MEAN	146	227	190	152	348	396	401	302	511	228	164	120
(WY)	(1999)	(1999)	(1999)	(1999)	(1997)	(1949)	(1977)	(1995)	(1997)	(1944)	(1983)	(1997)
MIN	61.1	60.0	51.4	23.1	60.2	91.6	85.9	87.5	62.5	44.1	45.3	50.2
(WY)	(1979)	(1979)	(1993)	(1962)	(1949)	(1981)	(1981)	(1992)	(1985)	(1974)	(1973)	(1975)

06449500 LITTLE WHITE RIVER NEAR ROSEBUD, SD—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1944 - 2005	
ANNUAL TOTAL	40,116		51,268			
ANNUAL MEAN	110		140		^a 119	
HIGHEST ANNUAL MEAN					207	1997
LOWEST ANNUAL MEAN					78.0	1976
HIGHEST DAILY MEAN	280	Dec 28	535	Apr 22	1,810	May 17, 1944
LOWEST DAILY MEAN	20	Jan 27	57	Sep 5	^b 10	Jan 4, 1949
ANNUAL SEVEN-DAY MINIMUM	53	Feb 7	59	Sep 4	16	Jan 18, 1962
MAXIMUM PEAK FLOW			584	Apr 22	^c 4,640	Jun 11, 1967
MAXIMUM PEAK STAGE			6.26	Apr 22	14.09	Jun 11, 1967
ANNUAL RUNOFF (AC-FT)	79,570		101,700		86,100	
10 PERCENT EXCEEDS	159		240		205	
50 PERCENT EXCEEDS	103		130		95	
90 PERCENT EXCEEDS	66		73		59	

- a Median of annual mean discharges, 120 ft³/s.
- b Also Feb. 20, 1955.
- c From rating curve extended above 1,300 ft³/s.
- e Estimated.



06450500 LITTLE WHITE RIVER BELOW WHITE RIVER, SD

LOCATION.--Lat 43°36'05", long 100°44'58", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.23, T.42 N., R.29 W., Mellette County, Hydrologic Unit 10140203, on left bank at downstream side of bridge on U.S. Highway 83, 1.3 mi downstream from Pine Creek, and 2.0 mi north of town of White River.

DRAINAGE AREA.--1,570 mi², approximately, of which about 1,310 mi² probably contributes directly to surface runoff.

PERIOD OF RECORD.--October 1949 to current year. Prior to October 1965, published as South Fork White River below White River.

REVISED RECORDS.--WDR SD-85-1: Location.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,912.78 ft above NGVD of 1929. Prior to June 8, 1968, gage located at site 0.8 mi downstream at datum 4.50 ft lower.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Satellite data-collection platform at station. Diurnal fluctuations caused by small powerplant 2.2 mi upstream. Several small diversions for irrigation and some storage in several small lakes above station. Water temperature and specific conductance measured during the year are compiled in the Miscellaneous Temperature Measurements and Field Determinations section.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	297	118	110	e250	e300	96	142	245	181	109	51	49
2	243	122	111	e200	e350	93	131	243	174	115	47	42
3	e144	103	131	e180	e600	86	135	240	176	110	56	41
4	e115	97	140	e160	e500	86	118	227	215	94	53	44
5	e115	97	134	e150	e400	98	130	223	299	94	56	41
6	e112	98	133	e160	e360	96	129	216	249	101	52	45
7	e98	100	130	e170	e330	131	126	215	237	97	47	45
8	99	95	121	e180	e300	104	133	219	243	91	44	45
9	94	100	116	e200	e290	110	115	206	186	89	41	51
10	95	103	124	e175	e280	91	117	198	169	81	40	51
11	95	108	125	e165	e300	80	175	227	354	96	55	40
12	92	104	114	e155	e320	76	203	571	539	103	51	40
13	86	105	e108	e150	e240	85	197	583	377	96	62	44
14	91	105	e100	e140	e200	107	182	338	718	93	109	49
15	94	104	e110	e130	e180	84	173	293	392	78	105	57
16	97	104	129	e120	e190	79	159	261	269	71	90	47
17	92	107	169	e120	180	60	154	261	232	63	85	49
18	88	137	138	e120	166	99	156	250	201	64	83	47
19	92	97	148	e125	144	56	152	215	186	59	78	53
20	98	115	125	e150	135	75	197	225	171	60	74	66
21	94	112	e100	e200	169	104	524	218	170	64	78	34
22	92	111	e80	e280	131	130	1,730	208	178	68	70	43
23	93	110	e55	e270	103	124	804	194	156	51	62	78
24	90	106	e40	e270	107	148	512	181	117	70	58	58
25	93	110	e28	e330	105	190	354	190	148	119	55	65
26	91	114	e40	e380	102	142	295	196	137	82	57	69
27	e136	123	e60	e360	100	155	273	181	118	74	61	72
28	e89	126	e100	e340	94	140	262	170	118	60	63	77
29	e96	128	e160	e320	---	151	255	163	124	55	61	70
30	e129	112	237	e300	---	151	247	163	127	54	54	79
31	130	---	273	e290	---	151	---	177	---	50	45	---
TOTAL	3,470	3,271	3,689	6,540	6,676	3,378	8,280	7,497	6,961	2,511	1,943	1,591
MEAN	112	109	119	211	238	109	276	242	232	81.0	62.7	53.0
MAX	297	137	273	380	600	190	1,730	583	718	119	109	79
MIN	86	95	28	120	94	56	115	163	117	50	40	34
AC-FT	6,880	6,490	7,320	12,970	13,240	6,700	16,420	14,870	13,810	4,980	3,850	3,160

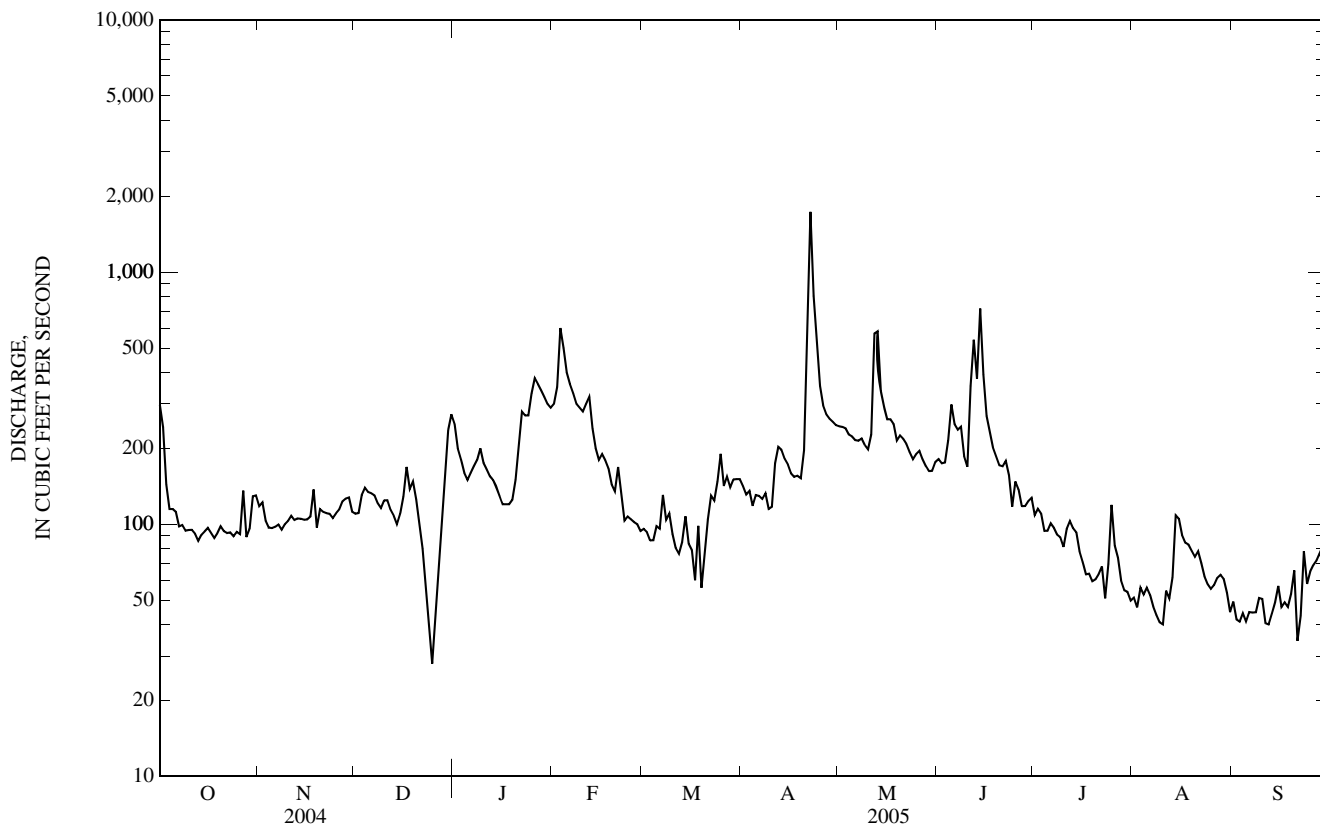
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2005, BY WATER YEAR (WY)

MEAN	84.3	93.2	94.7	92.1	137	257	235	217	213	114	79.0	74.1
MAX	160	271	225	211	590	815	613	614	988	574	182	140
(WY)	(1999)	(1999)	(1999)	(2005)	(1997)	(1978)	(1977)	(1983)	(1997)	(1962)	(1998)	(1997)
MIN	53.3	60.5	39.1	28.5	57.5	85.9	76.9	82.5	54.7	31.3	37.1	33.0
(WY)	(1977)	(1976)	(1952)	(1962)	(1962)	(1981)	(1981)	(1985)	(1985)	(1974)	(1974)	(1952)

06450500 LITTLE WHITE RIVER BELOW WHITE RIVER, SD—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1950 - 2005	
ANNUAL TOTAL	38,966		55,807			
ANNUAL MEAN	106		153		^a 141	
HIGHEST ANNUAL MEAN					305	1997
LOWEST ANNUAL MEAN					79.0	1976
HIGHEST DAILY MEAN	297	Oct 1	1,730	Apr 22	7,880	Jun 3, 1997
LOWEST DAILY MEAN	28	Dec 25	28	Dec 25	^b 7.0	Jul 31, 1952
ANNUAL SEVEN-DAY MINIMUM	48	Jul 13	43	Sep 2	11	Aug 31, 1952
MAXIMUM PEAK FLOW			2,270	Apr 22	^c 13,700	Jun 12, 1967
MAXIMUM PEAK STAGE			5.43	Apr 22	^d 15.46	Jun 7, 1968
ANNUAL RUNOFF (AC-FT)	77,290		110,700		102,000	
10 PERCENT EXCEEDS	161		280		243	
50 PERCENT EXCEEDS	100		117		98	
90 PERCENT EXCEEDS	55		54		54	

- a Median of annual mean discharges, 130 ft³/s.
- b Also Aug. 31 and Sept. 1, 1952.
- c Gage height, 10.02 ft, site and datum then in use.
- d From floodmarks, present site and datum.
- e Estimated.



06452000 WHITE RIVER NEAR OACOMA, SD

LOCATION.--Lat 43°44'54", long 99°33'22", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.3, T.103 N., R.73 W., Lyman County, Hydrologic Unit 10140204, on left bank at downstream side of bridge on State Highway 47, 1.5 mi downstream from Wagner Draw, 1.8 mi upstream from high-water line of Lake Francis Case, and 8.8 mi southwest of Oacoma.

DRAINAGE AREA.--10,200 mi², approximately, of which about 9,940 mi² contributes directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1928 to current year.

REVISED RECORDS.--WSP 786: Drainage area. WSP 1309: 1929-30(M).

GAGE.--Water-stage recorders and crest-stage gage. Datum of gage is 1,377.29 ft above NGVD of 1929. See WSP 1709, 1729, or 1917 for history of changes prior to Feb. 27, 1960.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite data-collection platform at station. Additional water temperature and specific conductance measured during the year are compiled in the Miscellaneous Temperature Measurements and Field Determinations section.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	395	242	e120	e110	e400	365	651	731	339	278	508	95
2	625	369	e125	e110	e350	312	558	654	270	266	348	90
3	257	956	e130	e105	e330	273	459	586	249	245	282	86
4	318	842	e140	e105	e320	253	386	557	239	225	251	102
5	386	626	e150	e100	e400	241	333	497	349	232	218	88
6	316	413	e145	e100	e600	226	307	455	761	260	163	73
7	206	331	e145	e95	e500	217	276	438	668	212	147	78
8	156	292	e140	e95	e450	218	265	420	665	202	131	67
9	138	256	e140	e95	e440	212	240	394	657	237	123	53
10	117	234	e135	e95	e470	237	216	388	683	191	130	49
11	115	214	e150	e95	e470	209	288	465	1,280	144	109	45
12	114	196	e145	e95	e550	189	367	5,510	2,630	134	90	46
13	103	181	e145	e95	e650	188	379	5,240	4,820	194	89	44
14	103	180	e140	e90	e620	175	331	10,900	8,530	190	79	145
15	100	170	e145	e90	e620	176	548	5,020	5,410	151	82	107
16	96	159	e140	e90	e500	173	1,170	2,950	6,790	206	161	90
17	88	154	e140	e90	e450	185	710	2,290	5,600	217	2,290	61
18	96	148	e135	e90	e400	269	538	2,050	2,900	145	1,320	48
19	107	149	e135	e95	e380	276	415	1,420	1,790	125	916	42
20	96	147	e125	e100	e390	181	420	1,090	1,110	131	660	38
21	91	e147	e120	e105	e400	161	598	1,190	1,030	123	485	36
22	89	147	e115	e110	e400	173	2,230	901	1,070	116	407	34
23	94	135	e110	e115	e400	164	7,210	669	849	100	333	34
24	84	e137	e105	e125	e400	244	4,730	549	753	118	277	46
25	80	139	e105	e130	e450	301	3,640	480	704	106	224	54
26	82	138	e105	e145	e430	281	2,790	418	599	106	229	37
27	90	136	e110	e165	428	273	1,700	360	507	350	185	56
28	104	e133	e110	e180	390	312	1,130	320	438	1,140	151	54
29	358	131	e110	e200	---	547	883	284	395	773	127	284
30	363	e125	e115	e300	---	855	734	254	320	574	111	266
31	253	---	e115	e400	---	780	---	296	---	451	99	---
TOTAL	5,620	7,627	3,990	3,915	12,588	8,666	34,502	47,776	52,405	7,942	10,725	2,348
MEAN	181	254	129	126	450	280	1,150	1,541	1,747	256	346	78.3
MAX	625	956	150	400	650	855	7,210	10,900	8,530	1,140	2,290	284
MIN	80	125	105	90	320	161	216	254	239	100	79	34
AC-FT	11,150	15,130	7,910	7,770	24,970	17,190	68,430	94,760	103,900	15,750	21,270	4,660

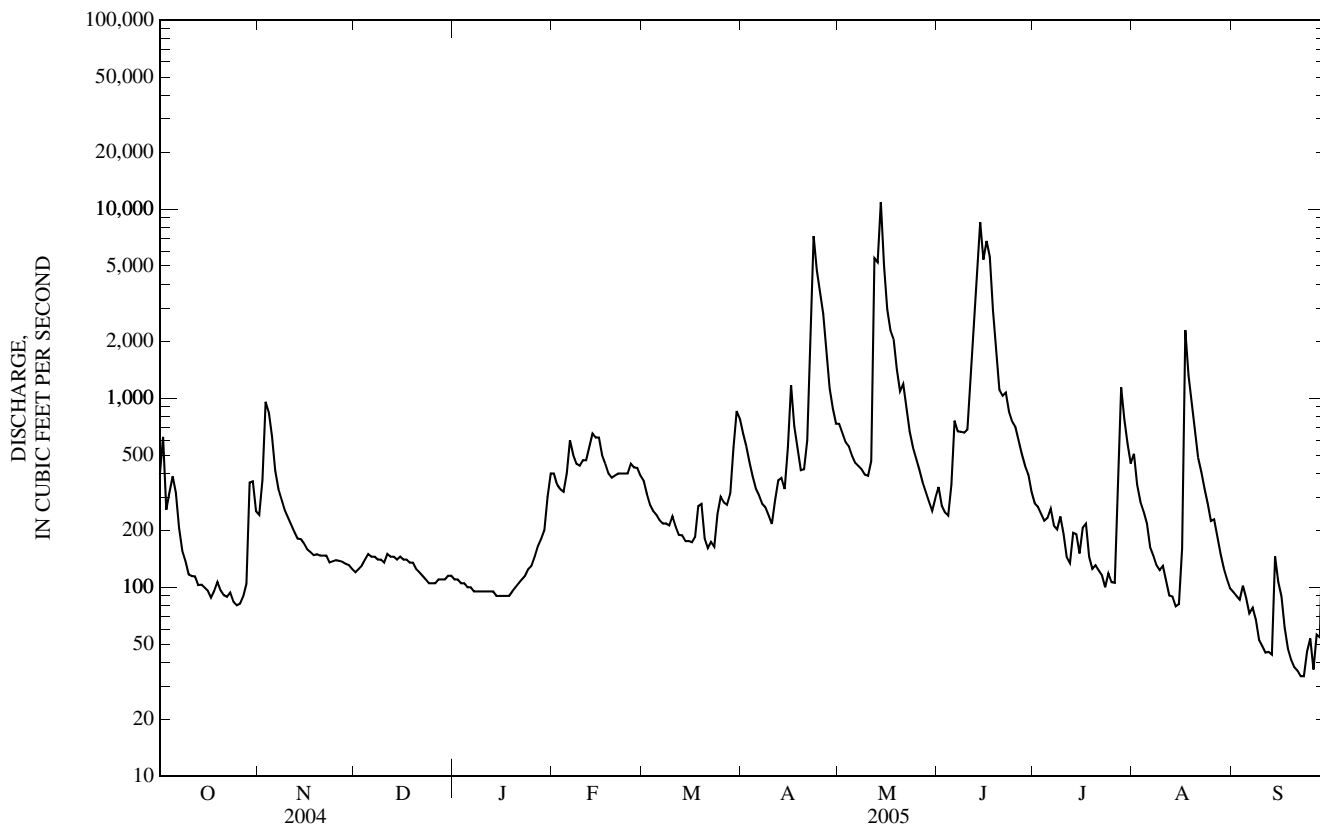
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2005, BY WATER YEAR (WY)

MEAN	192	167	94.7	83.0	331	1,305	1,039	1,339	1,298	494	306	201
MAX	1,217	1,445	449	592	3,146	5,856	4,726	13,630	5,985	3,553	1,702	1,074
(WY)	(1999)	(1999)	(1999)	(1997)	(1997)	(1978)	(1952)	(1942)	(1967)	(1962)	(1997)	(1999)
MIN	28.0	16.7	6.63	3.34	11.3	177	111	93.8	39.5	1.05	0.75	15.1
(WY)	(1938)	(1977)	(1976)	(1991)	(1950)	(1934)	(1981)	(1934)	(1989)	(1936)	(1936)	(1937)

06452000 WHITE RIVER NEAR OACOMA, SD—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1929 - 2005	
ANNUAL TOTAL	93,831		198,104		^a 571	
ANNUAL MEAN	256		543		1,729	
HIGHEST ANNUAL MEAN					151	
LOWEST ANNUAL MEAN					44,000	
HIGHEST DAILY MEAN	5,940	Jun 11	10,900	May 14	0.00	Mar 30, 1952
LOWEST DAILY MEAN	16	Feb 12	34	Sep 22	0.00	Aug 14, 1971
ANNUAL SEVEN-DAY MINIMUM	17	Feb 7	40	Sep 18	0.00	Aug 14, 1971
MAXIMUM PEAK FLOW			11,700	May 14	^c 51,900	Mar 30, 1952
MAXIMUM PEAK STAGE			13.68	May 14	^d 24.70	Mar 4, 1994
ANNUAL RUNOFF (AC-FT)	186,100		392,900		414,000	
10 PERCENT EXCEEDS	466		890		1,210	
50 PERCENT EXCEEDS	140		225		168	
90 PERCENT EXCEEDS	38		90		32	

- a Median of annual mean discharges, 480 ft³/s.
- b No flow for some days in 1971, 1974, 1976, 1980, and 1989.
- c Gage height, 15.40 ft, site and datum then in use.
- d Ice jam.
- e Estimated.



06452000 WHITE RIVER NEAR OACOMA, SD—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1945 to September 1953, October 1968 to September 1969, October 1971 to current year

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to September 1976, October 1977 to Sept. 30, 1981.

WATER TEMPERATURE: October 1974 to September 1976, October 1978 to September 1988.

SUSPENDED-SEDIMENT DISCHARGE: October 1971 to September 1976, October 1981 to current year.

REMARKS.--Sediment discharge records fair except those for estimated daily concentrations and/or discharges, which are poor. Observer collects samples on a daily basis during open water periods. Sediment-discharge records prior to Oct. 1, 1971, on file in the District office, U.S. Army Corps of Engineers, Omaha, NE.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,950 microsiemens, Aug. 8, 1980; minimum daily, 370 microsiemens, Mar. 17, 1975.

WATER TEMPERATURE: Maximum daily, 33.5°C, July 18, 1986; minimum daily, -1.0°C on many days during winter periods.

SEDIMENT CONCENTRATION: Maximum daily mean, 72,300 mg/L, Apr. 15, 1974; minimum daily mean, 11 mg/L, Aug. 5, 2002.

SEDIMENT LOAD: Maximum daily, 1,640,000 tons, May 17, 1982; 0 ton, July 17-23, 1974, Aug. 29 to Sept. 9, Sept. 13, 1976, Aug. 11-23, Aug. 26 to Sept. 5, 1989.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATION: Maximum daily mean, 42,700 mg/L, Aug. 17; minimum daily mean, 49 mg/L, Jan. 26.

SEDIMENT LOAD: Maximum daily, 927,000 tons, May 14; minimum daily, 15 tons, Jan. 16-19.

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Day	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Month		
							Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)
OCTOBER			NOVEMBER			DECEMBER			
1	395	17,000	17,800	242	16,100	10,500	e120	e350	114
2	625	15,900	27,200	369	15,500	15,700	e125	e329	111
3	257	e11,700	8,190	956	19,100	49,000	e130	e308	108
4	318	7,990	6,830	842	19,400	44,000	e140	e287	109
5	386	7,900	8,240	626	16,100	27,400	e150	e266	108
6	316	8,860	7,410	413	15,700	17,500	e145	247	97
7	206	12,900	7,100	331	e14,300	12,800	e145	238	93
8	156	13,600	5,770	292	12,900	10,200	e140	248	94
9	138	10,700	3,960	256	11,000	7,630	e140	278	105
10	117	e8,720	2,760	234	6,700	4,240	e135	301	110
11	115	e6,920	2,140	214	e6,040	3,490	e150	135	55
12	114	5,460	1,680	196	5,610	2,970	e145	e115	45
13	103	5,120	1,420	181	4,480	2,190	e145	e114	45
14	103	4,170	1,160	180	e3,780	1,840	e140	e112	42
15	100	4,010	1,080	170	3,090	1,420	e145	e111	43
16	96	3,760	974	159	2,340	1,000	e140	e109	41
17	88	e2,410	574	154	2,190	911	e140	e108	41
18	96	1,220	312	148	2,110	841	e135	e106	39
19	107	1,100	318	149	2,060	831	e135	e105	38
20	96	872	226	147	1,870	741	e125	e103	35
21	91	872	214	e147	e1,640	653	e120	e102	33
22	89	741	178	147	1,450	577	e115	e101	31
23	94	796	202	135	1,030	373	e110	e99	29
24	84	e603	136	e137	796	295	e105	e98	28
25	80	413	90	139	e621	233	e105	e96	27
26	82	370	82	138	474	176	e105	e95	27
27	90	458	111	136	435	160	e110	e93	28
28	104	956	287	e133	e413	149	e110	e92	27
29	358	8,200	9,010	131	e392	139	e110	e90	27
30	363	13,200	12,900	e125	e371	125	e115	e89	28
31	253	e15,000	10,100	---	---	---	e115	e87	27
TOTAL	5,620	---	138,454	7,627	---	218,084	3,990	---	1,785

06452000 WHITE RIVER NEAR OACOMA, SD—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Day	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)
1	e110	e86	25	e400	e200	216	365	e995	980
2	e110	e84	25	e350	e200	189	312	926	782
3	e105	e83	24	e330	e200	178	273	650	481
4	e105	e81	23	e320	e200	173	253	614	419
5	e100	e80	22	e400	e212	229	241	591	386
6	e100	e78	21	e600	e287	464	226	e541	331
7	e95	e77	20	e500	e300	406	217	477	279
8	e95	e76	19	e450	e300	365	218	387	228
9	e95	e74	19	e440	e300	356	212	371	213
10	e95	e73	19	e470	e300	380	237	332	212
11	e95	e71	18	e470	e312	397	209	325	184
12	e95	e70	18	e550	e400	593	189	e319	163
13	e95	e68	17	e650	e487	854	188	e313	159
14	e90	e67	16	e620	e500	837	175	e306	145
15	e90	e65	16	e620	e500	837	176	e300	142
16	e90	e64	15	e500	e500	677	173	295	138
17	e90	e62	15	e450	e500	608	185	311	156
18	e90	e61	15	e400	e500	541	269	e394	289
19	e95	e59	15	e380	e500	513	276	e398	304
20	e100	e58	16	e390	e500	526	181	e313	154
21	e105	e56	16	e400	e500	540	161	e308	136
22	e110	e55	16	e400	e500	540	173	326	153
23	e115	e53	17	e400	e500	540	164	272	120
24	e125	e52	18	e400	e500	540	244	349	237
25	e130	e51	18	e450	e500	607	301	485	394
26	e145	e49	19	e430	e625	726	281	497	377
27	e165	54	24	428	e999	1,150	273	e483	356
28	e180	e88	43	390	e997	1,050	312	658	578
29	e200	e126	68	---	---	---	547	3,040	5,220
30	e300	e163	131	---	---	---	855	10,800	25,100
31	e400	e195	210	---	---	---	780	15,200	32,000
TOTAL	3,915	---	958	12,588	---	15,032	8,666	---	70,816
		APRIL			MAY			JUNE	
1	651	e13,100	23,100	731	e11,000	21,900	339	780	716
2	558	e11,200	16,900	654	9,560	17,000	270	694	508
3	459	e10,200	12,600	586	7,200	11,400	249	594	400
4	386	9,110	9,490	557	5,460	8,230	239	e500	324
5	333	7,540	6,790	497	3,550	4,790	349	e2,660	2,810
6	307	6,250	5,180	455	2,170	2,670	761	8,570	18,600
7	276	5,400	4,030	438	1,940	2,300	668	10,400	18,900
8	265	4,170	2,980	420	e1,530	1,740	665	10,300	18,400
9	240	2,780	1,810	394	1,130	1,200	657	11,200	19,900
10	216	e2,610	1,520	388	888	931	683	12,200	22,600
11	288	2,730	2,150	465	1,350	2,130	1,280	e16,200	56,900
12	367	3,110	3,070	5,510	13,400	205,000	2,630	e18,700	133,000
13	379	2,150	2,220	5,240	19,400	299,000	4,820	e14,000	173,000
14	331	1,210	1,080	10,900	31,500	927,000	8,530	9,280	217,000
15	548	e3,750	10,600	5,020	e26,500	364,000	5,410	6,950	102,000
16	1,170	18,000	57,400	2,950	21,400	172,000	6,790	6,470	121,000
17	710	e16,000	30,700	2,290	17,400	108,000	5,600	10,100	149,000
18	538	13,700	20,000	2,050	14,100	78,300	2,900	e10,800	84,900
19	415	9,870	11,100	1,420	11,200	43,400	1,790	e10,700	52,000
20	420	e7,500	8,460	1,090	e9,210	27,100	1,110	10,200	30,500
21	598	6,290	11,100	1,190	e8,490	27,300	1,030	10,600	30,000
22	2,230	13,400	80,300	901	e6,930	17,100	1,070	11,600	33,900
23	7,210	20,300	468,000	669	4,490	8,180	849	8,740	20,100
24	4,730	27,100	350,000	549	2,840	4,240	753	e6,860	14,000
25	3,640	23,600	231,000	480	1,900	2,470	704	e5,140	9,780
26	2,790	21,400	162,000	418	1,750	1,980	599	e3,420	5,540
27	1,700	e17,800	81,900	360	1,140	1,110	507	1,880	2,580
28	1,130	e14,600	44,600	320	914	791	438	1,160	1,380
29	883	11,900	28,500	284	e882	677	395	933	997
30	734	12,100	24,000	254	e865	594	320	732	636
31	---	---	---	296	841	671	---	---	---
TOTAL	34,502	---	1,712,580	47,776	---	2,363,204	52,405	---	1,341,371

WHITE RIVER BASIN

06452000 WHITE RIVER NEAR OACOMA, SD—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Day	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)
1	278	602	452	508	16,800	23,100	95	2,370	606
2	266	542	389	348	16,200	15,300	90	1,780	432
3	245	e552	365	282	14,600	11,200	86	2,330	548
4	225	e569	348	251	12,200	8,280	102	e4,700	1,290
5	232	581	370	218	13,200	7,760	88	e4,650	1,100
6	260	555	392	163	10,500	4,650	73	4,290	846
7	212	455	258	147	e8,700	3,470	78	3,480	731
8	202	407	220	131	7,110	2,510	67	1,660	312
9	237	409	262	123	5,760	1,910	53	713	102
10	191	e376	195	130	5,130	1,800	49	e532	70
11	144	335	130	109	4,720	1,390	45	e423	52
12	134	e276	100	90	4,090	999	46	330	41
13	194	e443	244	89	e3,820	921	44	e306	36
14	190	460	240	79	e3,600	772	145	e6,800	3,030
15	151	317	130	82	2,920	641	107	e3,180	948
16	206	1,460	1,070	161	2,200	3,610	90	e2,400	585
17	217	e3,240	1,940	2,290	42,700	265,000	61	1,200	202
18	145	1,920	762	1,320	37,900	136,000	48	e837	108
19	125	1,160	392	916	33,000	82,000	42	e585	66
20	131	973	344	660	e26,300	47,200	38	383	39
21	123	e872	289	485	e22,000	28,900	36	229	22
22	116	e783	245	407	18,000	19,900	34	236	22
23	100	e731	197	333	13,800	12,500	34	271	25
24	118	e683	218	277	e9,680	7,290	46	645	81
25	106	650	186	224	7,440	4,510	54	e629	93
26	106	666	190	229	7,360	4,540	37	242	24
27	350	e5,700	8,440	185	7,370	3,690	56	178	28
28	1,140	26,000	82,500	151	e6,970	2,840	54	288	42
29	773	30,700	64,400	127	6,050	2,080	284	11,400	9,760
30	574	24,900	38,600	111	3,820	1,140	266	32,500	22,900
31	451	e20,300	24,800	99	3,420	916	---	---	---
TOTAL	7,942	---	228,668	10,725	---	706,819	2,348	---	44,141
YEAR	198,104	6,841,912							

e Estimated

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)	Suspended sediment, sieve diameter percent <.063mm (70331)
OCT 08...	1210	155	480	16.0	15.0	13,800	5,780	100
NOV 22...	1155	153	457	7.0	1.0	1,530	632	100
JAN 27...	1230	164	432	0.5	0.0	72	32	98
MAR 22...	1205	179	590	6.0	3.5	325	157	98
APR 25...	1315	3,750	584	12.0	11.5	19,800	200,000	96
MAY 14...	1411	11,100	618	10.0	10.0	31,400	941,000	93
JUN 16...	1015	5,500	652	19.0	20.0	5,760	85,500	92
29...	1308	403	701	25.0	27.5	921	1,000	100
AUG 15...	1010	83	625	21.0	19.5	3,060	682	100

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MISSOURI-FORT RANDALL RIVER BASIN

06452320 PLATTE CREEK NEAR PLATTE, SD

LOCATION.--Lat 43°19'38", long 98°58'13", in NW¹/₄ NW¹/₄ NE¹/₄ sec.11, T.98 N., R.69 W., Charles Mix County, Hydrologic Unit 10140101, on right bank at upstream side of bridge on State Highway 1804, 0.5 mi above high-water line of Fort Randall Reservoir, and 8.0 mi southwest of Platte.

DRAINAGE AREA.--741 mi².

PERIOD OF RECORD.--October 1988 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,370 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Satellite data-collection platform at station. Some storage in Lake Platte, capacity, 100 acre-ft, 13.6 mi upstream. Water temperature and specific conductance measured during the year are compiled in the Miscellaneous Temperature Measurements and Field Determinations section.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.29	0.18	0.31	e0.42	e0.78	0.50	0.57	1.8	0.43	3.0	0.00	0.00
2	0.25	0.21	0.34	e0.42	e0.81	0.47	0.55	1.4	0.42	2.3	0.00	0.00
3	0.39	0.27	0.35	e0.39	e0.75	0.51	0.54	1.1	0.52	1.7	0.00	0.00
4	0.42	0.29	0.39	e0.38	e0.68	0.51	0.49	0.77	6.2	1.2	0.00	0.00
5	0.42	1.0	0.37	e0.39	0.95	0.48	0.42	0.60	1.8	0.94	0.00	0.00
6	0.39	1.5	0.39	e0.42	0.78	0.49	0.36	0.61	2.7	0.72	0.00	0.00
7	0.28	1.6	0.42	e0.53	0.65	0.38	0.41	0.74	1.9	0.56	0.00	0.00
8	0.20	1.5	0.42	e0.57	0.54	0.34	0.36	0.67	1.7	0.42	0.00	0.00
9	0.16	1.5	0.40	e0.61	0.56	0.30	0.31	0.52	1.3	0.23	0.00	0.00
10	0.13	1.2	0.39	e0.60	0.58	0.31	0.41	0.45	2.2	0.17	0.00	0.00
11	0.11	1.0	0.37	e0.58	0.64	0.31	0.92	0.57	91	0.13	0.00	0.00
12	0.08	1.0	0.38	e0.58	0.70	0.27	1.4	3.2	119	0.08	0.00	0.00
13	0.06	1.1	0.30	e0.63	0.97	0.25	1.9	8.6	89	0.05	0.00	0.00
14	0.05	1.2	0.28	e0.71	0.96	0.30	1.4	3.2	88	0.01	0.00	0.00
15	0.04	1.1	0.33	e0.71	0.91	0.31	1.6	2.0	64	0.00	0.00	0.00
16	0.03	1.1	0.32	e0.75	0.79	0.39	1.4	1.9	47	0.00	0.00	0.00
17	0.01	1.2	0.43	e0.83	0.67	0.43	1.4	1.7	34	0.00	0.00	0.00
18	0.00	1.1	0.52	e0.96	0.64	0.58	1.2	1.8	25	0.00	0.00	0.00
19	0.00	1.2	0.48	e0.84	0.63	0.61	1.2	1.9	19	0.00	0.00	0.00
20	0.00	0.98	0.47	e0.76	0.66	0.66	1.1	2.3	15	0.00	0.00	0.00
21	0.00	0.78	0.47	e0.72	0.65	0.65	1.6	1.8	13	0.00	0.00	0.00
22	0.00	0.61	e0.48	e0.77	0.63	0.63	5.2	1.4	15	0.00	0.00	0.00
23	0.05	0.49	e0.46	e0.64	0.65	0.64	5.0	2.1	11	0.00	0.00	0.00
24	0.13	0.45	e0.48	e0.62	0.70	0.75	2.2	0.97	9.7	0.00	0.00	0.00
25	0.23	0.44	e0.53	e0.63	0.69	0.91	1.6	1.0	11	0.00	0.00	0.00
26	0.26	0.42	e0.57	e0.65	0.72	0.98	1.3	0.83	9.4	0.00	0.00	0.00
27	0.24	0.37	e0.52	e0.66	0.66	0.90	1.0	0.60	8.9	0.00	0.00	0.00
28	0.25	0.34	e0.49	e0.63	0.60	0.80	1.1	0.58	7.2	0.00	0.00	0.00
29	0.22	0.32	e0.48	e0.73	---	0.70	1.0	0.73	5.1	0.00	0.00	0.00
30	0.22	0.31	e0.47	e0.73	---	0.73	1.4	0.37	3.7	0.00	0.00	0.00
31	0.19	---	e0.43	e0.73	---	0.67	---	0.38	---	0.00	0.00	---
TOTAL	5.10	24.76	13.04	19.59	19.95	16.76	39.34	46.59	704.17	11.51	0.00	0.00
MEAN	0.16	0.83	0.42	0.63	0.71	0.54	1.31	1.50	23.5	0.37	0.00	0.00
MAX	0.42	1.6	0.57	0.96	0.97	0.98	5.2	8.6	119	3.0	0.00	0.00
MIN	0.00	0.18	0.28	0.38	0.54	0.25	0.31	0.37	0.42	0.00	0.00	0.00
AC-FT	10	49	26	39	40	33	78	92	1,400	23	0.00	0.00

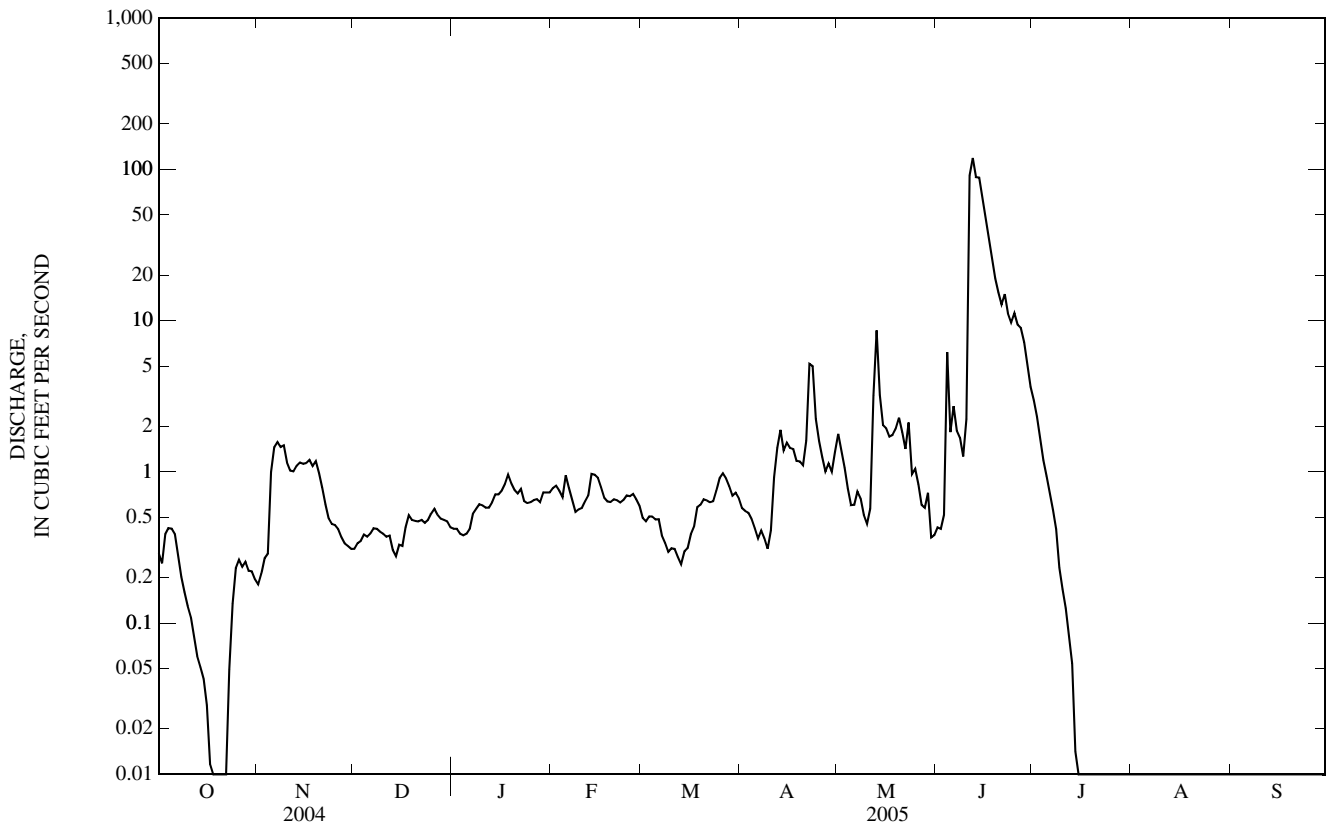
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2005, BY WATER YEAR (WY)

MEAN	8.25	9.77	4.36	2.02	21.3	36.5	68.4	133	57.1	52.6	11.6	6.19
MAX	82.1	89.2	30.4	6.99	223	290	386	796	268	449	103	34.1
(WY)	(1996)	(1999)	(1999)	(1997)	(1997)	(1997)	(2001)	(1995)	(1995)	(1999)	(1998)	(1995)
MIN	0.00	0.00	0.00	0.01	0.02	0.39	0.26	0.01	0.01	0.02	0.00	0.00
(WY)	(1990)	(1991)	(1990)	(1992)	(1993)	(1992)	(1990)	(1992)	(1992)	(2002)	(2005)	(1989)

06452320 PLATTE CREEK NEAR PLATTE, SD—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1989 - 2005	
ANNUAL TOTAL	1,059.33	900.81		
ANNUAL MEAN	2.89	2.47	^a 34.4	
HIGHEST ANNUAL MEAN			159	1999
LOWEST ANNUAL MEAN			0.35	1992
HIGHEST DAILY MEAN	95 Jun 11	119 Jun 12	2,370	May 11, 1995
LOWEST DAILY MEAN	0.00 Jul 31	0.00 Oct 18	^b 0.00	Jul 9, 1989
ANNUAL SEVEN-DAY MINIMUM	0.00 Aug 4	0.00 Jul 15	0.00	Aug 21, 1989
MAXIMUM PEAK FLOW		228 Jun 11	^c 2,600	May 11, 1995
MAXIMUM PEAK STAGE		4.32 Jun 11	^d 12.67	May 8, 1997
ANNUAL RUNOFF (AC-FT)	2,100	1,790	24,890	
10 PERCENT EXCEEDS	2.1	1.9	58	
50 PERCENT EXCEEDS	0.38	0.48	1.3	
90 PERCENT EXCEEDS	0.03	0.00	0.00	

- a Median of annual mean discharges, 5.6 ft³/s.
- b No flow at times in most years.
- c From rating curve extended above 975 ft³/s, gage height, 11.29 ft.
- d Backwater from Lake Francis Case.
- e Estimated.



06452500 LAKE FRANCIS CASE AT PICKSTOWN, SD

LOCATION.--Lat 43°04'05", long 98°33'15", in SE¹/₄ sec.5, T.95 N., R.65 W., Charles Mix County, Hydrologic Unit 10140101, in tower 6 of outlet works at Fort Randall Dam, on Missouri River at Pickstown, 1.0 mi upstream from Randall Creek, and at mile 880.0.

DRAINAGE AREA.--263,500 mi², approximately.

PERIOD OF RECORD.--December 1952 to current year (monthend contents only). Prior to October 1964, published as Fort Randall Reservoir at Pickstown.

GAGE.--Water-stage recorder. Elevations listed to NGVD of 1929. Prior to Mar. 25, 1953, elevations determined from temporary nonrecording gages.

REMARKS.--Reservoir is formed by earthfill dam; storage began in December 1952; initial closure made July 1952. Maximum capacity, 5,574,000 acre-ft below elevation 1,375.0 ft (top of spillway gates). Normal maximum, 4,589,000 acre-ft below elevation 1,365.0 ft. Inactive storage, 1,184,000 acre-ft below elevation 1,310.0 ft. No dead storage; elevation of invert of lowest outlet is 1,227.0 ft. Figures given herein represent elevations at outlet works and total contents adjusted for wind effect.

The spillway consists of 21 taintor gates, each 40 ft wide by 29 ft high; spillway capacity, 490,000 ft³/s at pool elevation 1,375 ft. Crest of spillway is at elevation 1,346 ft. Normal releases are through 12 tunnels 22 ft in diameter. Installation of power units in 8 of these tunnels was completed in January 1956; maximum release through power tunnels is 46,000 ft³/s; maximum release through 4 other tunnels is 130,000 ft³/s at pool elevation 1,375 ft. Water is used for flood control, navigation, power, and incidental uses.

COOPERATION.--Records of elevation and contents provided by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 5,102,000 acre-ft, May 6, 1997; maximum elevation, 1,372.17 ft, May 7, 1997; minimum since initial filling, 1,450,000 acre-ft, Oct. 23, 1956, affected by wind.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 3,735,000 acre-ft, Apr. 27 and June 17; minimum contents, 2,320,000 acre-ft, Nov. 15.

MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Elevation	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	1,345.48	3,796,000	--
Oct. 31	1,339.02	2,381,000	-415,000
Nov. 30	1,338.25	2,338,000	-43,000
Dec. 31	1,341.82	2,549,000	+211,000
CAL YR 2004	--	--	-330,000
Jan. 31	1,346.29	2,846,000	+297,000
Feb. 28	1,350.87	3,192,000	+346,000
Mar. 31	1,355.43	3,547,000	+355,000
Apr. 30	1,357.01	3,700,000	+153,000
May 31	1,354.62	3,497,000	-203,000
June 30	1,356.75	3,683,000	+186,000
July 31	1,353.82	3,436,000	-247,000
Aug. 31	1,353.58	3,400,000	-36,000
Sept. 30	1,344.99	2,760,000	-640,000
WTR YR 2005	--	--	-36,000

NOTE.--Lake frozen over Jan. 10 to Mar. 10.

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06453000 MISSOURI RIVER AT FORT RANDALL DAM, SD

LOCATION.--Lat 43°03'54", long 98°33'11", in NW1/4 NE1/4 sec.8, T.95 N., R.65 W., Charles Mix County, Hydrologic Unit 10170101, in powerhouse of Fort Randall Dam on Missouri River at Pickstown, 0.8 mi upstream from Randall Creek, and at mile 879.8.

DRAINAGE AREA.--263,500 mi², approximately.

REMARKS.--On July 19, 2005, a field duplicate sample was collected at this site for quality-control purposes. The analytical results for the field duplicate sample are noted in the water-quality results.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unfltd 25 degC (00095)	pH, water, unfltd field, std units (00400)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Turbidity, IR LED light, det ang 90 deg, FNU (63680)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Hardness, water, mg/L as CaCO3 (00900)	Noncarbohardness, wat flt field, mg/L as CaCO3 (00904)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)
OCT 26...	1315	12100	689	8.5	17.0	15.3	1.8	735	10.5	109	220	68	151
FEB 15...	1330	7000	700	7.7	2.0	2.2	0.9	740	14.2	107	230	66	164
APR 19...	1330	25800	703	8.2	22.0	6.6	0.7	729	13.0	111	240	79	164
MAY 09...	1245	41500	713	8.3	13.0	10.5	3.0	728	13.0	122	240	76	166
JUL 19...	1250	24800	723	8.0	31.0	20.8	3.6	730	7.1	83	230	67	162
a19...	1255	24800	727	8.0	31.0	20.8	3.6	730	7.1	83	230	74	158
SEP 13...	1245	35200	745	8.2	19.0	23.8	1.8	732	7.6	94	230	75	157

Date	ANC, wat unfltd fixed end pt, lab, mg/L as CaCO3 (90410)	Chlorophyll a phytoplankton, fluoro, ug/L (70953)	Pheophytin a, phytoplankton, ug/L (62360)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Sodium, adsorption ratio (00931)	Potassium, water, fltrd, mg/L (00935)	Bicarbonate, wat flt incrm. titr., mg/L (00453)	Carbonate, wat flt incrm. titr., mg/L (00452)	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	
OCT 26...	160	3.1	1.1	51.6	22.0	62.8	38	2	5.02	179	3	179	10.6
FEB 15...	166	3.1	0.8	56.0	22.0	65.8	38	2	5.04	198	1	170	10.4
APR 19...	162	1.2	0.4	59.9	22.7	68.6	37	2	5.21	195	3	182	11.1
MAY 09...	161	1.3	0.2	58.3	23.3	66.1	37	2	4.80	197	2	181	10.7
JUL 19...	164	0.6	0.2	56.6	21.3	68.9	39	2	5.10	197	--	189	10.9
a19...	164	0.8	0.3	57.5	21.6	69.8	39	2	5.21	193	--	191	11.4
SEP 13...	157	2.4	0.6	57.5	21.5	68.2	38	2	5.45	177	7	201	11.8

Date	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, tons/d (70302)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltd mg/L as N (00625)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Phosphorus, water, unfltd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)
OCT 26...	0.7	4.8	428	444	14,500	--	0.20	--	--	--	0.007	--	--
FEB 15...	0.6	4.4	433	455	8,600	E.008	0.24	0.22	<0.008	<0.06	0.008	0.004	<0.006
APR 19...	0.6	4.3	453	462	32,100	0.010	0.24	0.23	<0.008	<0.06	0.007	E.003	<0.006
MAY 09...	0.6	4.4	449	466	52,200	<0.010	0.20	0.22	<0.008	<0.06	0.010	E.003	<0.006
JUL 19...	0.6	4.8	454	459	30,700	E.008	0.28	0.24	<0.008	E.05	0.011	0.005	<0.006
a19...	0.6	4.7	457	471	3,1500	E.007	0.27	0.24	<0.008	E.05	0.010	0.005	<0.006
SEP 13...	0.7	5.2	466	491	46,700	E.007	0.28	0.35	E.004	E.04	0.009	E.003	<0.006

06453000 MISSOURI RIVER AT FORT RANDALL DAM, SD—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Malathion, water, fltrd, ug/L (39532)	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Molinate, water, fltrd, 0.7u GF ug/L (82671)	Parathion, water, fltrd, ug/L (39542)	Methyl parathion, water, fltrd, 0.7u GF ug/L (82667)	Napropamide, water, fltrd, 0.7u GF ug/L (82684)	Pebulate, water, fltrd, 0.7u GF ug/L (82669)	Pendimethalin, water, fltrd, 0.7u GF ug/L (82683)	cis-Permethrin, water, fltrd, 0.7u GF ug/L (82687)	Phorate, water, fltrd, 0.7u GF ug/L (82664)	Prometon, water, fltrd, ug/L (04037)	Propyzamide, water, fltrd, 0.7u GF ug/L (82676)
OCT 26...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB 15...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 19...	<0.027	<0.006	<0.006	<0.003	<0.010	<0.015	<0.007	<0.004	<0.022	<0.006	<0.011	<0.01	<0.004
MAY 09...	<0.027	E.002	<0.006	<0.003	<0.010	<0.015	<0.007	<0.004	<0.022	<0.006	<0.011	<0.01	<0.004
JUL 19...	--	--	--	--	--	--	--	--	--	--	--	--	--
a19...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 13...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Propachlor, water, fltrd, ug/L (04024)	Propanil, water, fltrd, 0.7u GF ug/L (82679)	Propargite, water, fltrd, 0.7u GF ug/L (82685)	Simazine, water, fltrd, ug/L (04035)	Tebu-thiuron, water, fltrd, 0.7u GF ug/L (82670)	Terbacil, water, fltrd, 0.7u GF ug/L (82665)	Terbufos, water, fltrd, 0.7u GF ug/L (82675)	Thio-bencarb, water, fltrd, 0.7u GF ug/L (82681)	Tri-allate, water, fltrd, 0.7u GF ug/L (82678)	Tri-fluralin, water, fltrd, 0.7u GF ug/L (82661)	Suspended sediment concentration mg/L (80154)	Suspnd. sediment, sieve diametr <.063mm percent (70331)
OCT 26...	--	--	--	--	--	--	--	--	--	--	5	96
FEB 15...	--	--	--	--	--	--	--	--	--	--	2	100
APR 19...	<0.025	<0.011	<0.02	<0.005	<0.02	<0.034	<0.02	<0.010	<0.006	<0.009	1	92
MAY 09...	<0.025	<0.011	<0.02	<0.005	<0.02	<0.034	<0.02	<0.010	<0.006	<0.009	18	90
JUL 19...	--	--	--	--	--	--	--	--	--	--	4	97
a19...	--	--	--	--	--	--	--	--	--	--	4	94
SEP 13...	--	--	--	--	--	--	--	--	--	--	5	91

< Less than.

a Field duplicate sample collected for quality-control purposes.

E Estimated value.

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06453020 MISSOURI RIVER BELOW GREENWOOD, SD

LOCATION.--Lat 42°54'19", long 98°20'58", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.1, T.93 N., R.64 W., Charles Mix County, Hydrologic Unit 10170101, on left bank 2.0 mi downstream from Greenwood and 1.3 mi downstream from the mouth of Slaughter Creek.

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

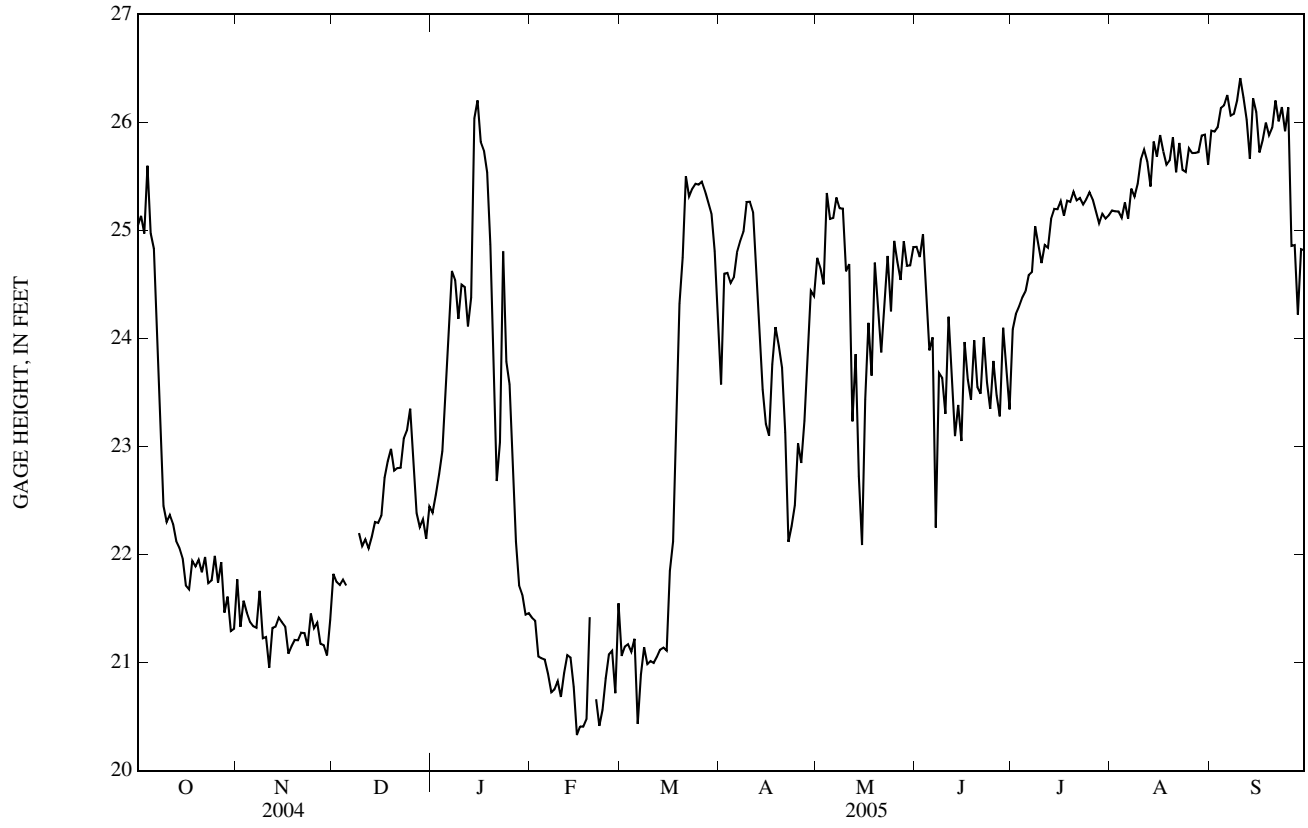
GAGE.--Water-stage recorder. Datum of gage is 1,200.00 ft above NGVD of 1929.

REMARKS.--Records good. U.S. Army Corps of Engineers satellite data-collection platform at station. Stage regulated by Fort Randall Dam about 17 mi upstream.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.04	21.77	21.82	22.39	21.42	21.06	23.58	24.75	24.85	24.09	25.19	25.92
2	25.13	21.33	21.75	22.55	21.39	21.15	24.60	24.65	24.75	24.23	25.18	25.91
3	24.97	21.57	21.72	22.75	21.06	21.17	24.61	24.50	24.96	24.30	25.18	25.96
4	25.60	21.46	21.77	22.96	21.04	21.10	24.51	25.35	24.51	24.38	25.12	26.13
5	24.97	21.38	21.71	23.45	21.03	21.22	24.57	25.11	23.89	24.44	25.26	26.16
6	24.83	21.34	---	24.06	20.90	20.43	24.80	25.12	24.01	24.59	25.11	26.25
7	24.02	21.32	---	24.62	20.73	20.89	24.90	25.30	22.25	24.62	25.39	26.06
8	23.15	21.66	---	24.54	20.75	21.14	24.99	25.21	23.68	25.04	25.32	26.08
9	22.45	21.22	22.20	24.18	20.83	20.99	25.26	25.20	23.64	24.86	25.43	26.20
10	22.30	21.24	22.08	24.50	20.68	21.01	25.27	24.62	23.30	24.70	25.66	26.41
11	22.37	20.95	22.14	24.48	20.90	21.00	25.17	24.69	24.20	24.86	25.75	26.23
12	22.28	21.32	22.06	24.11	21.07	21.05	24.64	23.23	23.65	24.84	25.64	26.02
13	22.13	21.33	22.17	24.38	21.05	21.12	24.01	23.85	23.10	25.11	25.41	25.66
14	22.06	21.42	22.30	26.04	20.78	21.14	23.53	22.73	23.39	25.20	25.82	26.22
15	21.97	21.37	22.29	26.20	20.33	21.11	23.21	22.09	23.05	25.20	25.68	26.10
16	21.71	21.33	22.36	25.82	20.41	21.85	23.10	23.44	23.97	25.27	25.88	25.72
17	21.68	21.08	22.71	25.74	20.41	22.12	23.76	24.14	23.62	25.14	25.73	25.84
18	21.94	21.15	22.86	25.54	20.48	23.29	24.10	23.66	23.43	25.28	25.61	26.00
19	21.89	21.21	22.98	24.87	21.42	24.32	23.93	24.70	23.98	25.26	25.65	25.88
20	21.95	21.21	22.78	23.52	---	24.75	23.73	24.25	23.55	25.36	25.86	25.95
21	21.84	21.28	22.80	22.68	20.66	25.50	23.13	23.87	23.49	25.28	25.54	26.20
22	21.98	21.27	22.80	23.04	20.42	25.31	22.12	24.34	24.01	25.30	25.81	26.01
23	21.73	21.15	23.07	24.81	20.56	25.39	22.26	24.76	23.59	25.24	25.56	26.14
24	21.76	21.45	23.15	23.78	20.85	25.43	22.46	24.25	23.35	25.29	25.54	25.92
25	21.99	21.32	23.35	23.57	21.08	25.42	23.03	24.90	23.79	25.35	25.76	26.14
26	21.74	21.37	22.88	22.79	21.11	25.45	22.85	24.71	23.48	25.29	25.72	24.86
27	21.93	21.17	22.38	22.12	20.72	25.36	23.24	24.54	23.28	25.17	25.72	24.86
28	21.46	21.16	22.25	21.71	21.55	25.26	23.75	24.90	24.10	25.06	25.73	24.22
29	21.61	21.07	22.33	21.63	---	25.16	24.44	24.67	23.76	25.15	25.88	24.83
30	21.29	21.40	22.15	21.44	---	24.81	24.39	24.68	23.34	25.11	25.89	24.82
31	21.31	---	22.44	21.46	---	24.14	---	24.84	---	25.14	25.61	---
MEAN	22.62	21.31	---	23.73	---	22.88	23.93	24.42	23.73	24.97	25.57	25.82
MAX	25.60	21.77	---	26.20	---	25.50	25.27	25.35	24.96	25.36	25.89	26.41
MIN	21.29	20.95	---	21.44	---	20.43	22.12	22.09	22.25	24.09	25.11	24.22

06453020 MISSOURI RIVER BELOW GREENWOOD, SD—Continued



06453305 MISSOURI RIVER BELOW CHOTEAU CREEK, NEAR VERDEL, NE

LOCATION.--Lat 42° 50'05", long 98° 08'20", in NW1/4 SW1/4 NW1/4 sec.35, T.93 N., R.62 W., Bon Homme County, Hydrologic Unit 10170101, 1.7 mi upstream from mouth of Coffee Creek and 3.1 mi northeast of Verdel, NE.

PERIOD OF RECORD.--February 1990 to current year.

REMARKS.--On May 11, 2005, a field blank sample was collected at this site for quality-control purposes.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unfiltered, uS/cm 25 degC (00095)	pH, water, unfiltered, std units (00400)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Turbidity, IR LED light, det ang 90 deg, FNU (63680)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Hardness, water, mg/L as CaCO3 (00900)	Noncarbon hardness, wat flt field, mg/L as CaCO3 (00904)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	
Date		ANC, wat unfiltered end pt, lab, mg/L as CaCO3 (90410)	Chlorophyll a phytoplankton, fluoro, ug/L (70953)	Pheophytin a, phytoplankton, ug/L (62360)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Sodium adsorption ratio (00931)	Potassium, water, fltrd, mg/L (00935)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	
Date		Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, tons/d (70302)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfiltered, mg/L as N (00625)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Phosphorus, water, unfiltered, mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)
OCT 27...	1400	6660	691	8.5	13.0	14.3	2.2	738	9.9	100	230	83	151	
FEB 16...	1330	7000	714	7.9	0.5	1.8	2.2	741	14.9	110	230	65	166	
APR 20...	1430	7470	709	8.1	15.0	9.5	3.5	732	11.9	109	230	67	162	
MAY 11...	1430	17000	710	8.5	12.0	10.6	4.4	736	11.6	108	240	74	162	
JUL 20...	1300	11900	722	8.2	34.0	22.4	5.4	730	8.2	100	230	65	160	
SEP 14...	1315	20900	745	8.3	27.0	23.0	3.2	735	8.1	98	230	74	157	
OCT 27...		161	3.0	1.8	55.6	23.1	63.9	37	2	5.22	178	3	183	11.0
FEB 16...		167	3.3	0.3	56.3	21.9	63.8	37	2	4.97	199	1	166	11.2
APR 20...		161	1.6	0.6	56.8	21.3	65.4	38	2	4.85	192	3	185	11.0
MAY 11...		161	2.1	0.8	57.0	22.8	64.8	37	2	4.74	192	3	182	10.8
JUL 20...		162	1.0	0.3	56.5	20.6	66.8	39	2	4.95	196	--	188	10.8
SEP 14...		157	3.0	0.7	55.8	22.3	68.5	38	2	5.56	182	5	201	11.4
OCT 27...		0.7	4.9	437	444	7,980	<0.010	0.19	0.19	<0.008	<0.06	0.011	0.004	<0.006
FEB 16...		0.6	4.4	429	462	8,740	E.009	0.23	0.22	<0.008	<0.06	0.008	E.004	<0.006
APR 20...		0.6	4.1	446	463	9,350	E.009	0.24	0.22	<0.008	<0.06	E.012	<0.004	<0.006
MAY 11...		0.6	4.3	444	461	21,200	E.009	0.20	0.33	<0.008	<0.06	E.02	0.005	<0.006
JUL 20...		0.6	4.4	449	460	14,800	E.005	0.23	0.25	<0.008	E.06	0.034	0.005	<0.006
SEP 14...		0.7	5.3	465	479	27,000	<0.010	0.33	0.34	E.004	<0.06	0.014	0.004	<0.012

06453305 MISSOURI RIVER BELOW CHOTEAU CREEK, NEAR VERDEL, NE—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Malathion, water, fltrd, ug/L (39532)	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Molinate, water, fltrd, 0.7u GF ug/L (82671)	Parathion, water, fltrd, ug/L (39542)	Methyl parathion, water, fltrd, 0.7u GF ug/L (82667)	Napropamide, water, fltrd, 0.7u GF ug/L (82684)	Pebulate, water, fltrd, 0.7u GF ug/L (82669)	Pendimethalin, water, fltrd, 0.7u GF ug/L (82683)	cis-Permethrin, water, fltrd, 0.7u GF ug/L (82687)	Phorate, water, fltrd, 0.7u GF ug/L (82664)	Prometon, water, fltrd, ug/L (04037)	Propyzamide, water, fltrd, 0.7u GF ug/L (82676)
OCT 27...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB 16...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 20...	<0.027	<0.006	<0.006	<0.003	<0.010	<0.015	<0.007	<0.004	<0.022	<0.006	<0.011	<0.01	<0.004
MAY 11...	<0.027	E.005	<0.006	<0.003	<0.010	<0.015	<0.007	<0.004	<0.022	<0.006	<0.011	<0.01	<0.004
JUL 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 14...	--	--	--	--	--	--	--	--	--	--	--	--	--
Date	Propachlor, water, fltrd, ug/L (04024)	Propanil, water, fltrd, 0.7u GF ug/L (82679)	Propargite, water, fltrd, 0.7u GF ug/L (82685)	Simazine, water, fltrd, ug/L (04035)	Tebu-thiuron, water, fltrd, 0.7u GF ug/L (82670)	Terbacil, water, fltrd, 0.7u GF ug/L (82665)	Terbufos, water, fltrd, 0.7u GF ug/L (82675)	Thio-bencarb, water, fltrd, 0.7u GF ug/L (82681)	Tri-allate, water, fltrd, 0.7u GF ug/L (82678)	Tri-flur-alin, water, fltrd, 0.7u GF ug/L (82661)	Suspended sediment concentration mg/L (80154)	Suspnd. sedi-ment, sieve diametr percent <.063mm (70331)	
OCT 27...	--	--	--	--	--	--	--	--	--	--	19	99	
FEB 16...	--	--	--	--	--	--	--	--	--	--	105	50	
APR 20...	<0.025	<0.011	<0.02	<0.005	<0.02	<0.034	<0.02	<0.010	<0.006	<0.009	5	95	
MAY 11...	<0.025	<0.011	<0.02	<0.005	<0.02	<0.034	<0.02	<0.010	<0.006	<0.009	9	96	
JUL 20...	--	--	--	--	--	--	--	--	--	--	23	94	
SEP 14...	--	--	--	--	--	--	--	--	--	--	11	95	
Date	Time	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Sulfate, water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Ammonia, water, fltrd, mg/L as N (00608)	Nitrite, water, fltrd, mg/L as N (00613)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)	Ortho-phosphate, water, fltrd, mg/L as P (00671)
MAY a11...	1425	E.02	<0.008	<0.20	<0.010	<0.01	0.01	<0.01	<0.04	<0.010	<0.002	<0.016	<0.006
Date	Arsenic, water, fltrd, ug/L (01000)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Zinc, water, fltrd, ug/L (01090)					
MAY a11...	<0.2	<0.4	<6	<0.2	<0.4	E.03	<0.4	1.3					

< Less than.

a Field blank sample collected for quality-control purposes.

E Estimated value.

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