Water-Data Report 2013

06446700 BEAR IN THE LODGE CREEK NEAR WANBLEE, SD

White Basin
Middle White Subbasin

LOCATION.--Lat 43°32'12.00", long 101°47'53.4" referenced to North American Datum of 1927, in NE ¼ SW ¼ SW ¼ sec.12, T.41 N., R.38 W., Jackson County, SD, Hydrologic Unit 10140202, at downstream end of culvert 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.--423 mi^2.

SURFACE-WATER RECORDS

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

REVISED RECORDS.--WDR SD-10-1: Drainage area.

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 with each discharge measurement.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 06446700, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/06446700.2013.pdf

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.98	5.7	9.8	e9.7	e11	e14	16	20	39	5.8	2.1	1.6
2	0.74	5.4	7.7	e9.9	e11	e16	16	19	32	5.5	2.2	1.7
3	0.80	5.3	6.7	e9.9	e12	e17	16	18	24	4.9	6.2	1.5
4	1.2	5.8	6.4	e9.7	e12	e17	16	17	19	4.7	4.3	1.3
5	1.2	6.0	6.4	e9.7	e12	e17	16	17	17	4.8	4.2	1.4
6	1.3	5.9	6.4	e9.9	e11	e18	16	17	15	4.9	25	1.2
7	2.0	6.0	6.1	e10	e11	e21	16	16	14	4.6	4.2	1.5
8	1.9	5.8	6.0	e11	e11	e19	e15	16	18	4.8	3.7	1.4
9	2.8	6.3	5.3	e11	e10	e18	e13	16	14	4.8	7.1	5.2
10	2.6	6.3	9.7	e9.3	e10	e17	e9.5	16	14	4.4	4.2	1.4
11	2.3	5.0	19	e9.0	e9.9	e19	e11	16	14	4.3	4.2	1.3
12	2.8	5.4	16	e8.8	e10	e18	e13	15	14	3.7	3.8	1.5
13	2.9	8.0	14	e8.9	e11	e19	e16	15	13	3.5	4.1	1.5
14	3.1	7.0	12	e8.8	e10	e20	e20	15	12	3.3	6.9	1.5
15	2.7	7.9	11	e9.9	e10	e21	e23	14	12	3.5	11	1.6
16	2.8	7.5	11	e9.9	e10	e18	e26	14	12	3.2	9.7	1.7
17	3.4	9.9	e6.9	e11	e11	e15	e29	14	11	3.0	5.2	1.7
18	3.0	8.0	e6.4	e11	e10	e16	30	16	11	2.7	4.3	1.6
19	2.5	7.3	e7.5	e9.9	e9.0	e15	30	28	10	2.6	4.1	1.5
20	3.6	7.2	e7.6	e9.2	e7.5	14	30	31	9.9	2.7	3.5	1.6
21	3.3	7.1	e9.5	e9.7	e7.9	15	30	30	98	3.9	3.3	1.7
22	3.9	7.0	e9.0	e10	e8.8	16	35	24	26	2.6	3.1	1.6
23	4.1	6.6	e8.8	e11	e9.5	15	38	23	15	3.3	3.1	1.4
24	5.3	7.0	e7.6	e11	e10	e14	34	22	11	2.5	2.8	2.0
25	7.7	7.3	e7.3	e12	e10	e13	31	21	9.3	2.8	2.7	2.3
26	5.6	7.6	e8.4	e13	e11	e13	29	18	8.3	2.8	2.5	2.5
27	5.1	7.4	e9.8	e13	e12	e15	27	17	7.7	2.9	2.6	2.3
28	5.2	11	e7.9	e12	e13	16	27	23	7.2	2.8	2.2	3.3
29	5.5	13	e9.2	e10	---	16	24	28	6.7	2.6	2.2	4.4
30	5.8	15	e9.2	e9.7	---	17	22	22	6.2	2.4	2.0	5.0
31	5.4	---	e9.9	e11	---	16	---	23	---	2.3	1.7	---
Total	101.52	220.7	278.5	318.9	291.6	515	674.5	601	520.3	112.6	148.2	60.2
Mean	3.27	7.36	8.98	10.3	10.4	16.6	22.5	19.4	17.3	3.63	4.78	2.01
Max	7.7	15	19	13	13	21	38	31	98	5.8	25	5.2
Min	0.74	5.0	5.3	8.8	7.5	13	9.5	14	6.2	2.3	1.7	1.2
Ac-ft	201	438	552	633	578	1,020	1,340	1,190	1,030	223	294	119

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2013, BY WATER YEAR (WY)

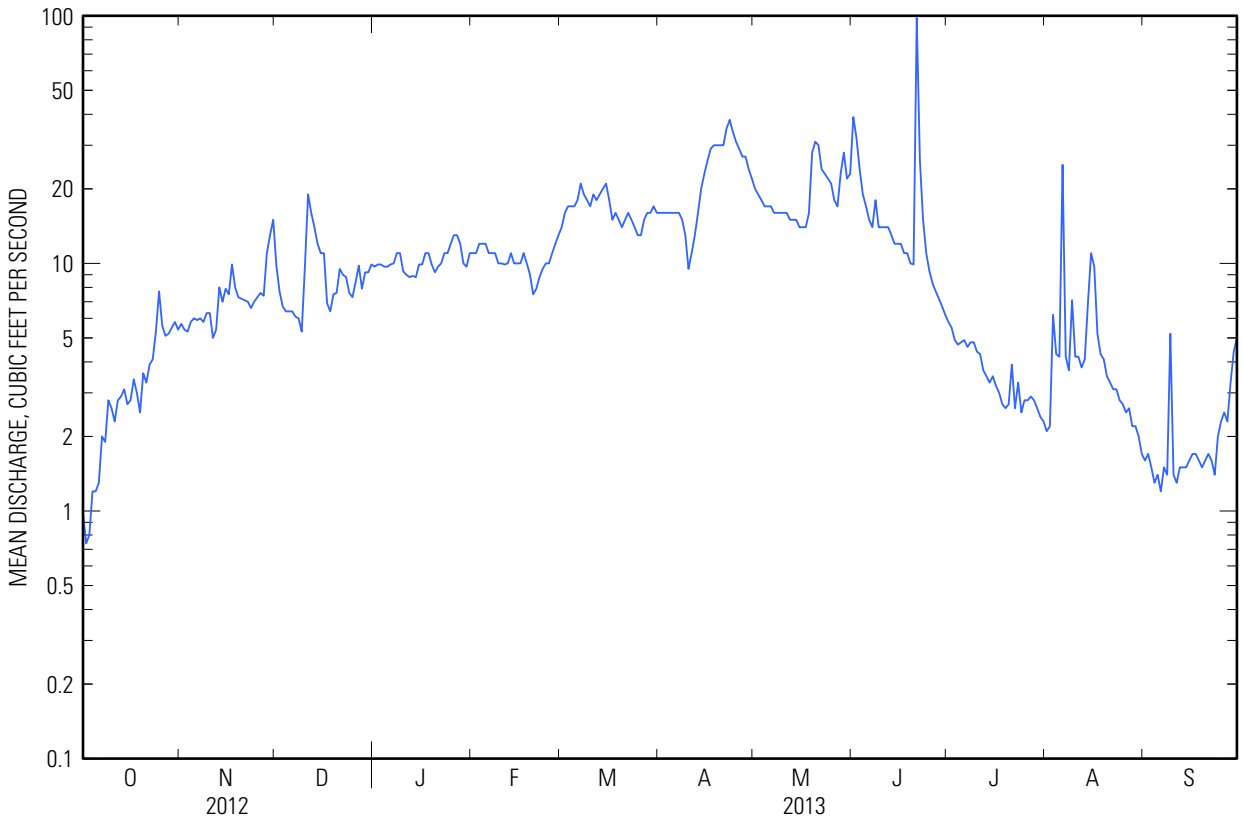
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	9.55	11.8	11.1	12.4	34.1	40.7	31.9	30.1	37.5	22.3	8.75	6.05
Max	21.1	30.4	20.5	29.8	156	121	65.7	74.6	306	153	27.7	13.5
(WY)	(1999)	(1999)	(1999)	(1997)	(1997)	(2011)	(2009)	(1997)	(1997)	(1997)	(1997)	(1999)
Min	3.27	4.16	2.08	1.01	7.11	10.6	11.1	8.00	3.88	1.49	0.66	0.82
(WY)	(2013)	(2007)	(2008)	(2008)	(2006)	(2006)	(2004)	(2004)	(2003)	(2006)	(2003)	(2012)

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

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1995 - 2013	
Annual total	4,274.02		3,843.02			
Annual mean	11.7		10.5		[a]21.3	
Highest annual mean					75.2	1997
Lowest annual mean					8.26	2004
Highest daily mean	39	Apr 15	98	Jun 21	900	Jun 3, 1997
Lowest daily mean	0.39	Sep 4	0.74	Oct 2	[b]0.00	Aug 14, 2006
Annual seven-day minimum	0.45	Sep 1	1.2	Oct 1	0.00	Aug 13, 2006
Maximum peak flow			430	Jun 21	1,100	Jun 3, 1997
Maximum peak stage			6.38	Jun 21	9.11	Jun 3, 1997
Annual runoff (ac-ft)	8,480		7,620		15,400	
10 percent exceeds	25		20		40	
50 percent exceeds	9.9		9.5		12	
90 percent exceeds	1.0		2.2		3.6	

[a] Median of annual mean discharges, 18 ft³/s.
[b] No flow for several days in some years.



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

WATER-QUALITY RECORDS

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

[ft^3/s, cubic feet per second; °C, degrees Celsius; µS/cm, microsiemens per centimeter]

Date	Sample start time	Discharge, instantaneous, ft^3/s (00061)	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)	Temperature, air, °C (00020)	Temperature, water, °C (00010)
10-17-2012	**1110**	4.0	532	13.0	9.8
11-21-2012	**0838**	7.4	617	8.5	3.4
12-17-2012	**1421**	6.9	554	10.5	0.0
01-10-2013	**1044**	9.3	513	10.5	0.1
02-20-2013	**1137**	7.5	280	-1.0	0.0
03-07-2013	**1448**	21	455	14.5	0.1
03-21-2013	**1241**	15	502	9.0	3.7
04-23-2013	**1514**	37	535	7.5	6.5
04-30-2013	**1227**	22	588	17.0	14.1
06-19-2013	**1745**	10	522	28.5	24.7
07-16-2013	**1336**	3.4	523	35.0	25.6
08-30-2013	**1002**	2.1	519	28.0	23.3

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