

Water-Data Report 2007

06386500 CHEYENNE RIVER NEAR SPENCER, WY

Cheyenne Basin
Angostura Reservoir Subbasin

LOCATION.--Lat 43°25'16", long 104°07'52" referenced to North American Datum of 1927, in NE ¼ NW ¼ NE ¼ sec.25, T.40 N., R.61 W., Niobrara County, WY, Hydrologic Unit 10120106, on right bank at downstream side of old highway bridge, 0.1 mi downstream from Sage Creek, 1.8 mi downstream from Robbers Roost Creek, and 17.0 mi northwest of Edgemont, SD.

DRAINAGE AREA.--5,270 mi², approximately.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1948 to September 1974, October 2003 to current year. Published as South Fork Cheyenne River near Spencer October 1949 to September 1951.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 3,600 ft above NGVD of 1929, from topographic map. Prior to October 18, 1955, water-stage recorder at site 400 ft upstream. October 18, 1955, to August 1, 1961, at site 2,500 ft upstream, and August 1, 1961, to August 22, 1962, at site 2,200 ft upstream, all at different datums.

REMARKS.--Records good except those for estimated periods, which are poor. Many small reservoirs above station used for stock and irrigation water, total capacity, about 45,000 acre-ft. Rain gage and satellite data-collection platform at station. Water temperature and specific conductance measured with each discharge measurement. Station operated by the Wyoming District from October 1948 to September 1974.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.03	0.02	e0.10	e0.14	e0.02	e0.10	8.2	7.9	5.9	0.00	0.00	0.18
2	0.03	0.03	e0.10	e0.22	e0.02	e0.10	5.9	6.1	5.0	0.00	0.00	0.09
3	0.02	0.02	e0.11	e0.25	e0.01	e0.10	4.5	5.1	4.2	0.00	0.02	0.05
4	0.02	0.02	e0.20	e0.30	e0.01	e0.80	3.6	5.6	3.5	0.00	0.01	0.03
5	0.02	0.02	e0.30	e0.26	e0.01	e1.9	3.1	5.9	3.1	0.00	0.00	0.02
6	0.02	0.02	e0.31	e0.26	e0.01	e2.7	3.3	16	3.1	0.00	0.00	0.02
7	0.02	0.02	e0.31	e0.28	e0.01	e2.7	2.2	863	3.7	0.00	0.00	0.02
8	0.02	0.02	e0.25	e0.30	e0.01	e2.2	1.9	323	2.6	0.00	0.00	0.01
9	0.02	0.02	e0.23	e0.26	e0.01	e2.1	1.8	124	2.0	24	0.00	0.02
10	0.03	0.04	e0.21	e0.24	e0.01	e2.7	1.4	62	1.6	0.79	0.00	0.03
11	0.03	0.04	e0.20	e0.22	e0.01	e3.6	1.3	38	1.2	0.23	0.00	0.02
12	0.03	0.03	e0.21	e0.16	e0.00	e6.6	1.1	30	1.0	0.14	0.00	0.02
13	0.02	0.03	e0.20	e0.10	e0.00	15	1.2	29	0.95	0.15	0.00	0.01
14	0.02	0.05	e0.19	e0.04	e0.00	14	1.1	24	1.9	0.13	0.00	0.01
15	0.02	0.06	e0.18	e0.04	e0.00	13	1.0	19	2.1	0.08	0.00	0.01
16	0.02	0.04	e0.17	e0.05	e0.00	14	1.1	19	2.2	0.07	0.00	0.01
17	0.02	0.03	e0.15	e0.05	e0.00	13	0.91	18	1.5	0.08	0.00	0.00
18	0.02	0.03	e0.16	e0.05	e0.00	8.9	0.87	16	0.87	2.0	0.00	0.00
19	0.02	0.07	e0.17	e0.06	e0.00	6.0	1.0	15	0.61	0.33	0.00	0.01
20	0.02	0.09	e0.20	e0.06	e0.00	6.1	1.0	14	0.38	0.12	0.00	0.00
21	0.02	0.10	e0.20	e0.06	e0.04	5.2	0.93	13	0.25	0.08	0.00	0.00
22	0.02	0.10	e0.20	e0.07	e0.06	4.6	0.92	13	0.18	0.07	0.00	0.00
23	0.02	0.10	e0.25	e0.07	e0.10	4.1	1.8	12	0.11	0.05	0.00	0.00
24	0.02	0.10	e0.25	e0.07	e0.14	4.7	4.7	11	0.05	0.04	31	0.00
25	0.03	0.09	e0.20	e0.07	e0.14	5.1	6.4	9.9	0.03	0.03	48	0.00
26	0.02	e0.08	e0.25	e0.06	e0.14	4.2	5.5	8.7	0.01	0.04	19	0.00
27	0.02	e0.08	e0.30	e0.05	e0.14	3.7	3.3	8.2	0.01	0.05	9.4	0.00
28	0.02	e0.08	e0.30	e0.04	e0.12	3.7	2.1	7.4	0.00	0.04	5.7	0.00
29	0.02	e0.07	e0.18	e0.03	---	5.3	6.7	6.5	0.00	0.02	2.7	0.00
30	0.02	e0.06	e0.14	e0.03	---	14	8.6	5.9	0.00	0.01	1.1	0.00
31	0.02	---	e0.14	e0.02	---	6.9	---	6.0	---	0.01	0.44	---
Total	0.68	1.56	6.36	3.91	1.01	177.10	87.43	1,742.2	48.05	28.56	117.37	0.56
Mean	0.02	0.05	0.21	0.13	0.04	5.71	2.91	56.2	1.60	0.92	3.79	0.02
Max	0.03	0.10	0.31	0.30	0.14	15	8.6	863	5.9	24	48	0.18
Min	0.02	0.02	0.10	0.02	0.00	0.10	0.87	5.1	0.00	0.00	0.00	0.00
Ac-ft	1.3	3.1	13	7.8	2.0	351	173	3,460	95	57	233	1.1

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2007, BY WATER YEAR (WY)*

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2.17	0.87	0.34	3.00	14.0	14.8	29.5	165	202	106	46.3	25.4
Max	28.4	19.9	5.94	84.9	120	80.0	502	1,663	1,260	680	409	292
(WY)	(1963)	(1974)	(1974)	(1974)	(1963)	(1955)	(1955)	(1962)	(1962)	(1958)	(1955)	(1973)
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)	(1951)	(1950)	(1949)	(1949)	(1950)	(1951)	(1951)	(1951)	(1966)	(2006)	(1959)	(1953)

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SUMMARY STATISTICS

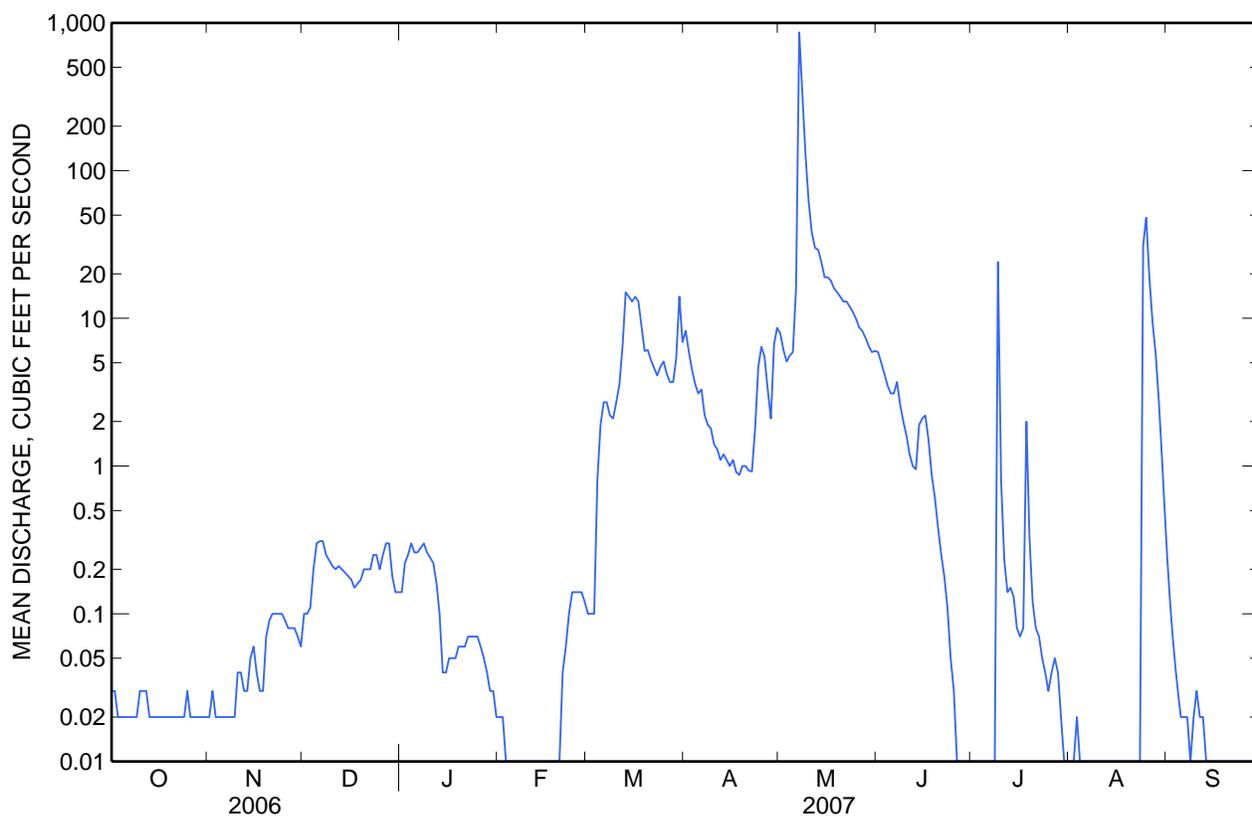
	Calendar Year 2006		Water Year 2007		Water Years 1949 - 2007*	
Annual total	910.26		2,214.79			
Annual mean	2.49		6.07		^a 50.8	
Highest annual mean					280	1962
Lowest annual mean					0.09	2004
Highest daily mean	741	Aug 7	863	May 7	12,100	May 27, 1962
Lowest daily mean	0.00	Jan 8	0.00	Feb 12	^b 0.00	Oct 4, 1948
Annual seven-day minimum	0.00	Jan 8	0.00	Feb 12	0.00	Oct 4, 1948
Maximum peak flow			1,290		16,000	
Maximum peak stage			8.92		^c 13.74	
Annual runoff (ac-ft)	1,810		4,390		36,840	
10 percent exceeds	0.25		8.0		59	
50 percent exceeds	0.02		0.10		0.00	
90 percent exceeds	0.00		0.00		0.00	

* Excludes 1975-2003. See PERIOD OF RECORD.

^a Median of annual mean discharges, 26 ft³/s.

^b No flow at times in most years.

^c Site and datum then in use.



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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analysis: Water years 1951-54, 1969-70, and 1972-79, 2005-present. Sediment records: Periodic samples taken May 1971 to July 1974, March 2004 to present.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 2004 to current year(seasonal).

pH: March 2004 to current year(seasonal).

WATER TEMPERATURE: March 2004 to current year(seasonal).

DISSOLVED OXYGEN: March 2004 to current year(seasonal).

TURBIDITY: March 2004 to current year(seasonal).

REMARKS.--No flow February 12-20, June 28 to July 8, August 1-2, August 5-23, September 17-18 and September 20-30. Data published in the tables below are rated as follows: specific conductance excellent except for May 24 to June 6, June 17-24, August 24-31 which are good and July 9 which is poor; pH excellent except July 9 and August 24 to September 1 which are good; temperature excellent; dissolved oxygen excellent except for April 19-24, June 12-16 and July 9 which are good, April 25 to May 2, June 17-20, July 19-31 and August 28-31 which are fair, and May 3-15 and June 21-25 which are poor; turbidity, excellent except for April 22 to May 3, June 9-11, July 22-23 and August 24-28 which are good, May 4-25, June 12-14, July 24-26 and August 29 to September 16 which are fair, June 15-24 and July 27-31 which are poor. Daily records are collected at 15-minute intervals using multi-parameter water-quality instrument from April to October. Satellite data-collection platform at station.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 8,760 $\mu\text{S}/\text{cm}$, April 21, 2005; minimum, 233 $\mu\text{S}/\text{cm}$, August 7, 2006.

pH: Maximum, 9.4 standard units, August 13, 14, 2005 and May 7, 2007; minimum, 5.8 standard units, July 9, 2007.

WATER TEMPERATURE: Maximum, 34.8°C, June 22, 2005.

DISSOLVED OXYGEN: Maximum, 16.6 mg/L, June 16, 2004; minimum, 0.2 mg/L, August 17, 2006.

TURBIDITY: Maximum, > 1,500 FN units, many times in most years; minimum, 2.0 FN units, June 30, 2004.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 5,880 $\mu\text{S}/\text{cm}$, October 12; minimum, 379 $\mu\text{S}/\text{cm}$, May 7.

pH: Maximum, 9.4 standard units, May 7; minimum, 5.8 standard units, July 9.

WATER TEMPERATURE: Maximum, 32.6°C, June 24.

DISSOLVED OXYGEN: Maximum, 16.2 mg/L, July 25; minimum, 1.7 mg/L, July 20.

TURBIDITY: Maximum, >1,410 FN units, May 11 and August 26; minimum, 12 FN units, April 12.

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SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	5,590	5,460	5,520	---	---	---	---	---	---	---	---	---
2	5,500	5,420	5,450	---	---	---	---	---	---	---	---	---
3	5,540	5,380	5,450	---	---	---	---	---	---	---	---	---
4	5,530	5,440	5,470	---	---	---	---	---	---	---	---	---
5	5,460	5,390	5,430	---	---	---	---	---	---	---	---	---
6	5,520	5,380	5,430	---	---	---	---	---	---	---	---	---
7	5,790	5,380	5,530	---	---	---	---	---	---	---	---	---
8	5,770	5,600	5,650	---	---	---	---	---	---	---	---	---
9	5,700	4,470	5,460	---	---	---	---	---	---	---	---	---
10	5,590	4,550	5,180	---	---	---	---	---	---	---	---	---
11	5,800	5,590	5,740	---	---	---	---	---	---	---	---	---
12	5,880	5,570	5,710	---	---	---	---	---	---	---	---	---
13	5,750	5,570	5,630	---	---	---	---	---	---	---	---	---
14	5,760	5,530	5,630	---	---	---	---	---	---	---	---	---
15	5,860	5,580	5,680	---	---	---	---	---	---	---	---	---
16	5,680	5,430	5,610	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

06386500 CHEYENNE RIVER NEAR SPENCER, WY—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	5,050	4,670	4,800
2	---	---	---	---	---	---	---	---	---	4,690	4,610	4,650
3	---	---	---	---	---	---	---	---	---	4,690	4,640	4,660
4	---	---	---	---	---	---	---	---	---	---	4,440	---
5	---	---	---	---	---	---	---	---	---	4,460	4,130	4,350
6	---	---	---	---	---	---	---	---	---	4,770	3,800	4,190
7	---	---	---	---	---	---	---	---	---	5,050	379	965
8	---	---	---	---	---	---	---	---	---	511	448	464
9	---	---	---	---	---	---	---	---	---	967	484	587
10	---	---	---	---	---	---	---	---	---	975	614	793
11	---	---	---	---	---	---	4,890	4,820	4,850	1,270	975	1,140
12	---	---	---	---	---	---	4,950	4,770	4,860	1,540	1,270	1,390
13	---	---	---	---	---	---	4,850	4,790	4,820	1,810	1,540	1,650
14	---	---	---	---	---	---	4,900	4,840	4,870	2,110	1,810	1,970
15	---	---	---	---	---	---	---	---	---	2,540	2,110	2,280
16	---	---	---	---	---	---	---	---	---	2,650	2,460	2,540
17	---	---	---	---	---	---	---	---	---	2,750	2,550	2,650
18	---	---	---	---	---	---	5,160	---	---	2,920	2,750	2,840
19	---	---	---	---	---	---	---	---	---	3,070	2,920	3,000
20	---	---	---	---	---	---	5,130	5,070	5,100	3,160	3,070	3,110
21	---	---	---	---	---	---	5,120	5,090	5,110	3,220	3,160	3,190
22	---	---	---	---	---	---	5,150	5,120	5,130	3,210	3,140	3,170
23	---	---	---	---	---	---	---	---	---	3,280	3,160	3,220
24	---	---	---	---	---	---	4,870	4,690	4,810	3,340	3,280	3,310
25	---	---	---	---	---	---	4,700	4,500	4,610	3,420	3,320	3,360
26	---	---	---	---	---	---	4,630	4,470	4,520	3,500	3,420	3,470
27	---	---	---	---	---	---	5,380	4,630	---	3,600	3,500	3,550
28	---	---	---	---	---	---	5,440	5,340	5,410	3,680	3,600	3,630
29	---	---	---	---	---	---	5,780	---	---	3,660	3,580	3,620
30	---	---	---	---	---	---	5,530	5,060	5,330	3,770	3,660	3,720
31	---	---	---	---	---	---	---	---	---	3,760	3,700	3,740
Month	---	---	---	---	---	---	---	---	---	---	379	---

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SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	3,780	3,720	3,750	---	---	---	---	---	---	---	---	---
2	3,870	3,760	3,810	---	---	---	---	---	---	---	---	---
3	3,990	3,850	3,900	---	---	---	---	---	---	---	---	---
4	4,090	3,970	4,020	---	---	---	---	---	---	---	---	---
5	4,140	4,050	4,080	---	---	---	---	---	---	---	---	---
6	4,160	3,980	4,090	---	---	---	---	---	---	---	---	---
7	4,150	4,100	4,120	---	---	---	---	---	---	---	---	---
8	4,190	4,130	4,150	---	---	---	---	---	---	---	---	---
9	4,270	4,180	4,220	1,150	503	---	---	---	---	---	---	---
10	4,370	4,260	4,300	---	---	---	---	---	---	---	---	---
11	4,460	4,370	4,410	---	---	---	---	---	---	---	---	---
12	4,510	4,450	4,470	---	---	---	---	---	---	---	---	---
13	4,520	4,420	4,470	---	---	---	---	---	---	---	---	---
14	4,560	4,480	4,530	---	---	---	---	---	---	---	---	---
15	4,540	4,420	4,480	---	---	---	---	---	---	---	---	---
16	4,430	4,260	4,330	---	---	---	---	---	---	---	---	---
17	4,260	3,530	3,890	---	---	---	---	---	---	---	---	---
18	3,540	3,280	3,380	---	---	---	---	---	---	---	---	---
19	3,280	3,140	3,220	---	---	---	---	---	---	---	---	---
20	3,340	3,120	3,250	4,780	4,460	4,550	---	---	---	---	---	---
21	---	---	---	4,640	4,440	4,480	---	---	---	---	---	---
22	3,390	2,000	2,660	4,650	4,510	4,550	---	---	---	---	---	---
23	2,170	1,970	2,070	4,600	4,500	4,550	---	---	---	---	---	---
24	---	---	---	4,580	4,440	4,500	4,480	897	1,440	---	---	---
25	---	---	---	4,550	4,450	4,490	923	741	837	---	---	---
26	---	---	---	4,530	4,440	4,490	880	737	792	---	---	---
27	---	---	---	4,620	4,470	4,560	1,150	880	1,010	---	---	---
28	---	---	---	4,620	4,440	4,560	1,480	1,150	1,310	---	---	---
29	---	---	---	4,540	4,460	4,490	1,810	1,480	1,670	---	---	---
30	---	---	---	4,570	4,460	4,500	2,060	1,190	1,750	---	---	---
31	---	---	---	4,560	4,480	4,540	1,290	1,170	1,210	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

06386500 CHEYENNE RIVER NEAR SPENCER, WY—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	7.8	7.7	---	---	---	---	---	---	---	---	---	---
2	7.8	7.6	---	---	---	---	---	---	---	---	---	---
3	8.0	7.7	---	---	---	---	---	---	---	---	---	---
4	8.0	7.9	---	---	---	---	---	---	---	---	---	---
5	8.0	7.8	---	---	---	---	---	---	---	---	---	---
6	7.9	7.6	---	---	---	---	---	---	---	---	---	---
7	8.0	7.7	---	---	---	---	---	---	---	---	---	---
8	8.0	8.0	---	---	---	---	---	---	---	---	---	---
9	8.1	7.9	---	---	---	---	---	---	---	---	---	---
10	8.0	7.8	---	---	---	---	---	---	---	---	---	---
11	8.1	7.9	---	---	---	---	---	---	---	---	---	---
12	8.1	7.9	---	---	---	---	---	---	---	---	---	---
13	7.9	7.8	---	---	---	---	---	---	---	---	---	---
14	7.8	7.6	---	---	---	---	---	---	---	---	---	---
15	7.7	7.5	---	---	---	---	---	---	---	---	---	---
16	7.8	7.4	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

06386500 CHEYENNE RIVER NEAR SPENCER, WY—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	---	---	8.3	8.1	8.5	8.3	---	---	---	---	8.1	7.7
2	---	---	8.3	8.2	8.4	8.2	---	---	---	---	---	---
3	---	---	8.3	8.2	8.3	8.2	---	---	---	---	---	---
4	---	---	8.2	8.1	8.3	8.2	---	---	---	---	---	---
5	---	---	8.2	8.1	8.3	8.1	---	---	---	---	---	---
6	---	---	8.7	8.1	8.2	8.1	---	---	---	---	---	---
7	---	---	9.4	8.0	8.4	8.2	---	---	---	---	---	---
8	---	---	8.0	7.8	8.3	8.1	---	---	---	---	---	---
9	---	---	7.9	7.8	8.2	8.1	8.1	5.8	---	---	---	---
10	8.2	8.2	7.9	7.8	8.1	8.1	---	---	---	---	---	---
11	8.3	8.1	7.9	7.8	8.2	8.0	---	---	---	---	---	---
12	8.2	8.1	8.1	7.9	8.2	8.0	---	---	---	---	---	---
13	8.2	8.1	8.2	8.1	8.1	8.0	---	---	---	---	---	---
14	8.1	8.0	8.3	8.2	8.0	8.0	---	---	---	---	---	---
15	8.1	8.0	8.3	8.2	8.0	8.0	---	---	---	---	---	---
16	8.2	8.0	8.4	8.2	8.1	8.0	---	---	---	---	---	---
17	8.2	8.1	8.4	8.3	8.2	8.0	---	---	---	---	---	---
18	8.3	8.1	8.3	8.2	8.2	8.1	---	---	---	---	---	---
19	8.2	8.2	8.3	8.2	8.1	8.1	7.5	6.7	---	---	---	---
20	8.2	8.1	8.2	8.2	8.1	8.0	7.0	6.7	---	---	---	---
21	8.1	8.0	8.2	8.2	8.2	8.0	7.0	6.7	---	---	---	---
22	8.1	8.0	8.3	8.2	8.1	8.0	7.0	6.8	---	---	---	---
23	8.2	8.0	8.3	8.2	8.2	8.0	7.0	6.8	---	---	---	---
24	8.1	8.0	8.3	8.2	8.0	7.9	7.1	6.7	7.6	7.2	---	---
25	8.2	8.0	8.2	8.2	8.0	7.9	7.2	6.6	7.5	7.2	---	---
26	8.3	8.0	8.3	8.1	---	---	7.3	6.7	7.7	7.4	---	---
27	8.3	8.2	8.2	8.1	---	---	7.0	6.7	7.8	7.6	---	---
28	8.3	8.2	8.2	8.1	---	---	7.1	6.7	8.1	7.6	---	---
29	8.3	8.2	8.4	8.0	---	---	7.0	6.7	8.2	8.0	---	---
30	8.3	8.2	8.5	8.3	---	---	7.0	6.6	8.3	7.8	---	---
31	---	---	8.5	8.4	---	---	7.3	6.8	8.3	7.9	---	---
Month	---	---	9.4	7.8	---	---	---	---	---	---	---	---

06386500 CHEYENNE RIVER NEAR SPENCER, WY—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	13.4	8.9	11.2	---	---	---	---	---	---	---	---	---
2	13.5	10.1	12.0	---	---	---	---	---	---	---	---	---
3	13.0	8.7	11.6	---	---	---	---	---	---	---	---	---
4	10.7	7.9	9.2	---	---	---	---	---	---	---	---	---
5	11.6	8.2	9.9	---	---	---	---	---	---	---	---	---
6	14.4	10.0	12.1	---	---	---	---	---	---	---	---	---
7	14.1	10.1	12.6	---	---	---	---	---	---	---	---	---
8	10.6	7.6	9.1	---	---	---	---	---	---	---	---	---
9	8.6	5.8	7.2	---	---	---	---	---	---	---	---	---
10	8.4	5.7	6.7	---	---	---	---	---	---	---	---	---
11	6.5	2.0	4.5	---	---	---	---	---	---	---	---	---
12	4.9	2.0	3.6	---	---	---	---	---	---	---	---	---
13	6.7	3.8	5.1	---	---	---	---	---	---	---	---	---
14	7.0	4.4	5.6	---	---	---	---	---	---	---	---	---
15	9.2	4.9	6.7	---	---	---	---	---	---	---	---	---
16	9.6	6.1	8.1	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

06386500 CHEYENNE RIVER NEAR SPENCER, WY—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	20.9	12.1	16.3
2	---	---	---	---	---	---	---	---	---	21.5	11.9	16.2
3	---	---	---	---	---	---	---	---	---	20.2	11.7	15.6
4	---	---	---	---	---	---	---	---	---	19.0	10.6	15.0
5	---	---	---	---	---	---	---	---	---	18.3	12.7	14.4
6	---	---	---	---	---	---	---	---	---	13.7	10.5	12.0
7	---	---	---	---	---	---	---	---	---	11.3	7.7	9.8
8	---	---	---	---	---	---	---	---	---	15.6	7.9	11.7
9	---	---	---	---	---	---	---	---	---	20.0	12.0	16.0
10	---	---	---	---	---	---	---	---	---	21.5	14.3	17.7
11	---	---	---	---	---	---	7.7	2.2	4.4	24.6	14.6	19.4
12	---	---	---	---	---	---	14.5	0.2	6.3	26.0	16.7	20.7
13	---	---	---	---	---	---	14.9	5.2	9.3	26.1	16.7	21.0
14	---	---	---	---	---	---	17.9	4.5	10.9	20.2	13.4	15.7
15	---	---	---	---	---	---	19.8	7.5	13.4	21.6	10.8	15.8
16	---	---	---	---	---	---	19.6	9.1	13.3	23.7	12.3	17.3
17	---	---	---	---	---	---	18.3	7.5	12.1	25.1	13.0	18.3
18	---	---	---	---	---	---	19.3	8.1	12.7	27.5	14.8	20.4
19	---	---	---	---	---	---	15.0	8.8	11.3	27.1	17.1	21.4
20	---	---	---	---	---	---	15.4	6.9	11.1	28.8	17.3	22.2
21	---	---	---	---	---	---	20.1	9.4	14.0	25.0	17.3	20.2
22	---	---	---	---	---	---	21.1	10.6	14.6	19.9	14.6	16.9
23	---	---	---	---	---	---	12.0	9.5	10.7	17.8	11.7	14.5
24	---	---	---	---	---	---	13.1	8.5	10.3	22.3	9.8	15.7
25	---	---	---	---	---	---	20.3	7.0	13.2	20.2	11.8	15.5
26	---	---	---	---	---	---	17.9	9.2	13.2	22.2	9.5	15.2
27	---	---	---	---	---	---	18.8	7.8	13.2	26.8	12.4	19.1
28	---	---	---	---	---	---	23.6	10.2	16.6	27.8	16.5	21.1
29	---	---	---	---	---	---	24.1	12.9	18.0	21.7	15.4	18.4
30	---	---	---	---	---	---	21.5	13.6	17.5	17.8	12.5	14.9
31	---	---	---	---	---	---	---	---	---	13.7	11.2	12.4
Month	---	---	---	---	---	---	---	---	---	28.8	7.7	16.8

06386500 CHEYENNE RIVER NEAR SPENCER, WY—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	20.0	10.7	14.8	---	---	---	---	---	---	---	---	---
2	24.6	13.1	18.5	---	---	---	---	---	---	---	---	---
3	27.3	15.8	21.1	---	---	---	---	---	---	---	---	---
4	25.6	16.6	20.9	---	---	---	---	---	---	---	---	---
5	26.6	16.4	21.1	---	---	---	---	---	---	---	---	---
6	21.3	16.2	19.0	---	---	---	---	---	---	---	---	---
7	16.2	10.9	13.3	---	---	---	---	---	---	---	---	---
8	22.2	8.6	15.4	---	---	---	---	---	---	---	---	---
9	25.9	13.7	19.9	---	10.4	---	---	---	---	---	---	---
10	26.3	15.6	21.2	---	---	---	---	---	---	---	---	---
11	27.1	17.9	22.6	---	---	---	---	---	---	---	---	---
12	21.4	18.7	20.3	---	---	---	---	---	---	---	---	---
13	26.3	15.9	20.5	---	---	---	---	---	---	---	---	---
14	28.3	16.3	22.2	---	---	---	---	---	---	---	---	---
15	28.6	18.4	23.4	---	---	---	---	---	---	---	---	---
16	28.3	18.5	22.9	---	---	---	---	---	---	---	---	---
17	29.8	18.8	22.8	---	---	---	---	---	---	---	---	---
18	24.3	15.6	19.7	---	---	---	---	---	---	---	---	---
19	28.1	15.9	22.0	24.2	---	---	---	---	---	---	---	---
20	30.6	18.6	24.4	20.7	18.3	18.8	---	---	---	---	---	---
21	30.8	20.5	24.5	19.6	18.1	18.5	---	---	---	---	---	---
22	32.1	18.7	24.3	20.0	18.3	18.7	---	---	---	---	---	---
23	31.5	18.1	23.9	19.9	18.4	18.9	---	---	---	---	---	---
24	32.6	18.1	24.0	19.7	18.4	18.8	22.3	17.9	19.3	---	---	---
25	31.4	17.6	23.8	20.7	18.7	19.3	23.3	15.9	19.4	---	---	---
26	---	---	---	19.6	18.7	19.1	26.7	17.7	21.9	---	---	---
27	---	---	---	19.3	18.2	18.7	22.7	19.3	20.4	---	---	---
28	---	---	---	20.1	18.1	18.8	22.3	17.4	19.2	---	---	---
29	---	---	---	20.6	18.1	18.9	20.9	14.7	17.3	---	---	---
30	---	---	---	21.4	17.8	19.0	24.2	15.8	19.6	---	---	---
31	---	---	---	19.9	18.5	19.0	23.3	16.3	19.8	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

06386500 CHEYENNE RIVER NEAR SPENCER, WY—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

06386500 CHEYENNE RIVER NEAR SPENCER, WY—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	9.9	8.0	8.9
2	---	---	---	---	---	---	---	---	---	9.7	8.2	8.8
3	---	---	---	---	---	---	---	---	---	9.8	8.4	9.0
4	---	---	---	---	---	---	---	---	---	10.1	8.4	9.2
5	---	---	---	---	---	---	---	---	---	9.9	8.3	8.9
6	---	---	---	---	---	---	---	---	---	10.6	8.5	9.6
7	---	---	---	---	---	---	---	---	---	9.0	6.1	8.0
8	---	---	---	---	---	---	---	---	---	9.5	8.0	8.8
9	---	---	---	---	---	---	---	---	---	8.7	7.0	7.9
10	---	---	---	---	---	---	---	---	---	8.2	7.1	7.6
11	---	---	---	---	---	---	11.9	9.8	11.0	8.0	6.6	7.5
12	---	---	---	---	---	---	11.8	9.6	10.7	7.9	6.9	7.5
13	---	---	---	---	---	---	10.6	9.3	9.9	8.0	7.1	7.6
14	---	---	---	---	---	---	10.3	8.5	9.5	8.9	7.2	8.5
15	---	---	---	---	---	---	9.7	8.2	8.9	9.6	7.9	8.8
16	---	---	---	---	---	---	9.9	8.2	9.1	---	---	---
17	---	---	---	---	---	---	10.3	8.9	9.4	---	---	---
18	---	---	---	---	---	---	10.2	8.6	9.1	---	---	---
19	---	---	---	---	---	---	10.0	9.0	9.5	---	---	---
20	---	---	---	---	---	---	10.1	8.8	9.4	---	---	---
21	---	---	---	---	---	---	9.7	8.5	9.1	---	---	---
22	---	---	---	---	---	---	9.5	8.5	8.9	---	---	---
23	---	---	---	---	---	---	10.3	8.6	9.5	---	---	---
24	---	---	---	---	---	---	10.6	9.5	9.9	---	---	---
25	---	---	---	---	---	---	10.6	8.6	9.8	---	---	---
26	---	---	---	---	---	---	9.9	8.6	9.2	---	---	---
27	---	---	---	---	---	---	10.0	8.5	9.4	---	---	---
28	---	---	---	---	---	---	9.3	7.9	8.7	---	---	---
29	---	---	---	---	---	---	9.4	7.5	8.3	---	---	---
30	---	---	---	---	---	---	9.3	7.5	8.4	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

06386500 CHEYENNE RIVER NEAR SPENCER, WY—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	10.5	8.0	9.6	---	---	---	---	---	---	---	---	---
8	11.0	9.0	10.2	---	---	---	---	---	---	---	---	---
9	10.5	8.6	9.6	9.5	---	---	---	---	---	---	---	---
10	10.4	8.3	9.4	---	---	---	---	---	---	---	---	---
11	10.2	8.4	9.2	---	---	---	---	---	---	---	---	---
12	10.6	8.5	9.5	---	---	---	---	---	---	---	---	---
13	11.3	8.9	10.1	---	---	---	---	---	---	---	---	---
14	10.9	8.4	9.8	---	---	---	---	---	---	---	---	---
15	10.6	8.4	9.4	---	---	---	---	---	---	---	---	---
16	10.8	8.4	9.6	---	---	---	---	---	---	---	---	---
17	10.8	8.5	9.5	---	---	---	---	---	---	---	---	---
18	11.6	8.9	10.4	---	---	---	---	---	---	---	---	---
19	11.9	9.1	10.4	3.7	---	---	---	---	---	---	---	---
20	11.7	8.8	10.2	4.7	1.7	2.6	---	---	---	---	---	---
21	11.4	8.6	9.9	6.3	1.8	3.3	---	---	---	---	---	---
22	12.4	8.9	10.4	7.8	2.4	4.5	---	---	---	---	---	---
23	12.4	9.1	10.6	11.2	2.3	5.1	---	---	---	---	---	---
24	12.6	9.2	10.6	7.9	2.5	3.7	---	---	---	---	---	---
25	13.2	9.2	11.1	16.2	3.1	7.8	---	---	---	---	---	---
26	---	---	---	10.4	3.2	5.9	---	---	---	---	---	---
27	---	---	---	11.3	3.2	6.4	---	---	---	---	---	---
28	---	---	---	10.1	3.6	6.7	---	---	---	---	---	---
29	---	---	---	10.9	3.1	4.3	9.0	7.8	8.5	---	---	---
30	---	---	---	12.4	3.2	5.3	9.6	7.2	8.2	---	---	---
31	---	---	---	7.9	---	---	9.6	6.8	8.4	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

06386500 CHEYENNE RIVER NEAR SPENCER, WY—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
 WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
 [>, greater than]

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	100	61	68	---	---	---	---	---	---	---	---	---
2	62	60	61	---	---	---	---	---	---	---	---	---
3	62	59	61	---	---	---	---	---	---	---	---	---
4	63	56	58	---	---	---	---	---	---	---	---	---
5	56	55	55	---	---	---	---	---	---	---	---	---
6	57	54	55	---	---	---	---	---	---	---	---	---
7	59	53	55	---	---	---	---	---	---	---	---	---
8	54	51	52	---	---	---	---	---	---	---	---	---
9	68	50	54	---	---	---	---	---	---	---	---	---
10	68	53	56	---	---	---	---	---	---	---	---	---
11	54	50	51	---	---	---	---	---	---	---	---	---
12	52	48	50	---	---	---	---	---	---	---	---	---
13	56	50	50	---	---	---	---	---	---	---	---	---
14	54	50	51	---	---	---	---	---	---	---	---	---
15	52	51	51	---	---	---	---	---	---	---	---	---
16	53	50	51	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

06386500 CHEYENNE RIVER NEAR SPENCER, WY—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
 WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
 [>, greater than]

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	43	23	28
2	---	---	---	---	---	---	---	---	---	42	20	30
3	---	---	---	---	---	---	---	---	---	55	19	29
4	---	---	---	---	---	---	---	---	---	36	18	25
5	---	---	---	---	---	---	---	---	---	56	18	26
6	---	---	---	---	---	---	---	---	---	240	18	40
7	---	---	---	---	---	---	---	---	---	>1,290	130	>1,230
8	---	---	---	---	---	---	---	---	---	>1,340	>1,260	>1,300
9	---	---	---	---	---	---	---	---	---	>1,390	>1,290	>1,340
10	---	---	---	---	---	---	---	---	---	>1,400	>1,320	>1,350
11	---	---	---	---	---	---	23	14	15	>1,410	930	>1,230
12	---	---	---	---	---	---	39	12	19	990	570	830
13	---	---	---	---	---	---	40	14	24	640	410	530
14	---	---	---	---	---	---	78	21	32	500	310	380
15	---	---	---	---	---	---	46	26	36	330	180	240
16	---	---	---	---	---	---	47	26	36	220	170	190
17	---	---	---	---	---	---	32	15	20	180	110	140
18	---	---	---	---	---	---	62	16	25	140	96	120
19	---	---	---	---	---	---	52	23	36	150	98	120
20	---	---	---	---	---	---	49	34	41	170	95	120
21	---	---	---	---	---	---	53	32	39	140	110	130
22	---	---	---	---	---	---	42	19	33	140	110	130
23	---	---	---	---	---	---	34	20	26	130	100	120
24	---	---	---	---	---	---	44	28	35	140	89	110
25	---	---	---	---	---	---	50	25	35	200	120	150
26	---	---	---	---	---	---	64	29	38	---	---	---
27	---	---	---	---	---	---	73	34	48	---	---	---
28	---	---	---	---	---	---	77	43	57	---	---	---
29	---	---	---	---	---	---	90	48	60	---	---	---
30	---	---	---	---	---	---	56	30	44	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

06386500 CHEYENNE RIVER NEAR SPENCER, WY—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

[>, greater than]

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	---	---	---	---	---	---	---	---	---	50	36	41
2	---	---	---	---	---	---	---	---	---	110	35	50
3	---	---	---	---	---	---	---	---	---	67	44	52
4	---	---	---	---	---	---	---	---	---	45	39	42
5	---	---	---	---	---	---	---	---	---	40	36	38
6	---	---	---	---	---	---	---	---	---	39	36	37
7	64	28	51	---	---	---	---	---	---	37	34	36
8	55	16	25	---	---	---	---	---	---	39	34	35
9	56	25	42	---	---	---	---	---	---	49	34	38
10	63	27	45	---	---	---	---	---	---	40	37	38
11	76	30	50	---	---	---	---	---	---	38	35	37
12	74	34	50	---	---	---	---	---	---	37	33	35
13	72	28	45	---	---	---	---	---	---	40	31	33
14	85	40	65	---	---	---	---	---	---	40	30	32
15	78	38	59	---	---	---	---	---	---	34	31	32
16	80	39	58	---	---	---	---	---	---	31	30	30
17	86	40	64	---	---	---	---	---	---	---	---	---
18	88	46	62	---	---	---	---	---	---	---	---	---
19	74	36	51	---	37	---	---	---	---	---	---	---
20	63	36	48	39	36	37	---	---	---	---	---	---
21	67	36	49	37	34	35	---	---	---	---	---	---
22	61	32	43	140	29	39	---	---	---	---	---	---
23	51	31	38	510	29	63	---	---	---	---	---	---
24	57	38	43	38	35	37	>1,370	>1,320	>1,340	---	---	---
25	---	---	---	38	34	36	>1,380	>1,310	>1,340	---	---	---
26	---	---	---	210	34	48	>1,410	1,230	>1,360	---	---	---
27	---	---	---	140	30	37	>1,370	750	>1,060	---	---	---
28	---	---	---	190	32	50	780	360	540	---	---	---
29	---	---	---	37	31	35	360	180	260	---	---	---
30	---	---	---	38	30	34	680	76	150	---	---	---
31	---	---	---	34	30	33	82	50	68	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

06386500 CHEYENNE RIVER NEAR SPENCER, WY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

[Remark codes: E, estimated.]

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, IR LED light, 90 deg, FNU (63680)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd std units (00400)	Specific conductance, wat unf μS/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)
Oct										
17...	1245	E.02	--	--	--	5,720	--	4.1	--	--
Dec										
05...	1455	.30	--	--	--	6,480	8.0	.4	--	--
Apr										
10...	1325	1.7	19	10.7	8.2	4,720	--	--	--	--
May										
07...	1320	854	--	--	--	--	17.0	--	14,000	32,400
08...	1220	265	--	--	--	--	--	--	6,030	4,320
11...	1240	36	1,380	7.1	8.0	1,170	26.0	20.0	1,650	162
Jun										
06...	1620	3.0	46	7.9	8.2	4,080	17.0	19.7	--	--
28...	1215	--	14	9.7	8.0	4,700	--	25.4	--	--
Jul										
19...	1355	.29	520	2.8	6.8	3,720	30.0	30.0	--	--
Aug										
28...	1240	5.6	520	7.3	7.5	1,300	23.0	18.7	466	7.0

06386500 CHEYENNE RIVER NEAR SPENCER, WY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 1 of 3

[Remark codes: <, less than; E, estimated.]

Date	Time	Instan- taneous dis- charge, cfs (00061)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat unf µS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)
Oct													
10...	1410	.04	669	10.8	107	8.3	5,240	5.0	8.5	1,200	272	122	11.2
Nov													
06...	1355	.01	666	--	--	7.9	4,900	10.0	5.5	1,100	260	110	11.2
Dec													
11...	1330	.55	667	10.9	87	7.8	6,000	.0	.0	1,600	360	160	14.1
Jan													
08...	1315	1.2	673	11.4	90	7.9	5,420	3.0	.0	1,300	310	129	12.2
Feb													
06...	1245	.00	--	--	--	--	--	--	--	--	--	--	--
Mar													
06...	1405	3.7	671	11.6	91	7.8	3,470	16.0	.0	840	205	80.6	8.07
Apr													
10...	1435	1.3	659	11.2	110	8.4	4,760	5.0	7.5	1,100	243	110	10.5
May													
09...	1635	121	666	7.2	91	7.9	541	22.0	20.0	120	31.1	10.7	6.82
Jun													
05...	1515	2.6	660	8.1	116	8.2	4,210	24.0	25.5	860	195	90.6	12.6
15...	0940	9.2	668	7.8	101	8.1	4,550	--	20.4	--	--	--	--
Jul													
10...	1230	.52	672	8.1	111	7.9	3,200	24.0	24.0	730	173	71.3	12.7
Aug													
07...	1430	.00	--	--	--	--	--	--	--	--	--	--	--
Sep													
05...	1320	.00	--	--	--	--	--	--	--	--	--	--	--

06386500 CHEYENNE RIVER NEAR SPENCER, WY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 2 of 3

[Remark codes: <, less than; E, estimated.]

Date	Sodium adsorp- tion ratio (00931)	Sodium frac- tion of cations percent (00932)	Sodium, water, flt'd, mg/L (00930)	Alka- linity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Chlor- ide, water, flt'd, mg/L (00940)	Fluor- ide, water, flt'd, mg/L (00950)	Silica, water, flt'd, mg/L (00955)	Sulfate water, flt'd, mg/L (00945)	Residue water, flt'd, sum of consti- tuents mg/L (70301)	Residue water, flt'd, tons/ acre-ft (70303)	Residue water, dis- solved, tons/d (70302)	Residue on evap. at 180degC wat flt mg/L (70300)	Biomass peri- phyton, ashfree drymass g/m2 (49954)
Oct 10...	10	60	815	267	94.4	.56	9.32	2,690	4,170	6.22	.49	4,570	--
Nov 06...	10	61	800	247	98.0	.51	6.41	2,560	3,990	5.90	.12	4,340	--
Dec 11...	11	58	999	342	120	.66	8.79	3,170	5,040	7.22	7.88	5,310	--
Jan 08...	11	59	872	397	113	.61	9.34	2,810	4,500	6.53	15.5	4,800	--
Feb 06...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar 06...	7.4	56	494	246	68.6	.45	6.30	1,610	2,620	3.99	29.3	2,940	--
Apr 10...	10	61	757	269	96.0	.53	4.71	2,390	3,770	5.47	14.1	4,020	--
May 09...	2.3	50	59.0	100	5.27	.42	5.52	150	329	.49	119	363	--
Jun 05...	9.7	62	653	284	99.0	.62	6.58	1,900	3,130	4.60	23.7	3,380	--
Jun 15...	--	--	--	--	--	--	--	--	--	--	--	--	11.0
Jul 10...	7.3	57	454	150	51.1	.66	6.87	1,540	2,400	3.55	3.67	2,610	--
Aug 07...	--	--	--	--	--	--	--	--	--	--	--	--	--
Sep 05...	--	--	--	--	--	--	--	--	--	--	--	--	--

06386500 CHEYENNE RIVER NEAR SPENCER, WY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 3

[Remark codes: <, less than; E, estimated.]

Date	Periphyton biomass ash weight, g/m2 (00572)	Periphyton biomass dry weight, g/m2 (00573)	Biomass chlorophyll ratio, periphyton, number (70950)	Chlorophyll a periphyton, chromo-fluoro, mg/m2 (70957)	Pheophytin a, periphyton, mg/m2 (62359)	Aluminum, water, unfltrd recover-able, µg/L (01105)	Arsenic water, fltrd, µg/L (01000)	Barium, water, unfltrd recover-able, µg/L (01007)	Beryllium, water, unfltrd recover-able, µg/L (01012)	Iron, water, fltrd, µg/L (01046)	Manganese, water, fltrd, µg/L (01056)	Selenium, water, unfltrd, µg/L (01147)
Oct												
10...	--	--	--	--	--	56	.68	28.6	<.18	E13	598	.31
Nov												
06...	--	--	--	--	--	120	.63	23.6	<.18	<18	420	.27
Dec												
11...	--	--	--	--	--	232	2.1	26.9	<.18	<30	599	1.5
Jan												
08...	--	--	--	--	--	352	.64	23.6	<.18	<18	601	1.2
Feb												
06...	--	--	--	--	--	--	--	--	--	--	--	--
Mar												
06...	--	--	--	--	--	293	.46	19.7	<.12	9	344	.78
Apr												
10...	--	--	--	--	--	90	.69	22.6	<.12	19	475	.63
May												
09...	--	--	--	--	--	34,400	.82	513	4.36	47	5.7	1.9
Jun												
05...	--	--	--	--	--	670	1.0	63.0	<.12	<18	164	.60
15...	440	451.5	2,780	4.0	1.8	--	--	--	--	--	--	--
Jul												
10...	--	--	--	--	--	479	1.1	71.9	E.09	E18	353	1.0
Aug												
07...	--	--	--	--	--	--	--	--	--	--	--	--
Sep												
05...	--	--	--	--	--	--	--	--	--	--	--	--