

Water-Data Report 2007

06324000 CLEAR CREEK NEAR ARVADA, WY

Powder Basin
Clear Subbasin

LOCATION.--Lat 44°52'18", long 106°04'56" referenced to North American Datum of 1927, in SE ¼ sec.36, T.57 N., R.77 W., Sheridan County, WY, Hydrologic Unit 10090206, on right bank 600 ft downstream from Cabin Creek, 1.8 mi upstream from mouth, and 16 mi north of Arvada.

DRAINAGE AREA.--1,110 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1915 to April 1919 and April 1928 to May 1929 (no winter records), September 1939 to September 1982, January 2003 to current year.

REVISED RECORDS.--WSP 1309: 1928(M).

GAGE.--Water-stage recorder. Elevation of gage is 3,506.51 ft above NGVD of 1929. July 21, 1915 to April 30, 1919, nonrecording gage at same site at different datum. April 15, 1928 to May 26, 1929, nonrecording gage at site 0.2 mi upstream from station at different datum. September 13, 1939 to January 14, 1951, nonrecording gage at present site and datum. U.S. Geological Survey data collection platform with satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Some regulation by Cloud Peak Reservoir, capacity, 3,385 acre-ft, Willow Park Reservoir, capacity, 4,457 acre-ft, Kearny Lake, capacity, 1,860 acre-ft and Lake De Smet, capacity, 135,500 acre-ft. Diversions for irrigation of about 35,000 acres upstream from station. Diversion to Kendrick Canal about 4.5 mi upstream from station.

06324000 CLEAR CREEK NEAR ARVADA, WY—Continued

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	58	e40	e52	e48	e42	e44	64	138	268	e250	88	17
2	57	e38	e54	e47	e40	e43	109	203	490	e220	58	33
3	47	e46	e58	e49	e42	e45	111	284	402	206	38	71
4	43	e54	e64	e45	e45	e60	97	399	385	183	33	73
5	41	60	e62	e44	e48	e86	90	504	552	137	22	60
6	44	56	e64	e45	e46	e115	88	1,530	689	116	21	55
7	47	54	e66	e46	e45	e140	82	702	1,040	102	21	65
8	44	54	e68	e47	e43	e180	76	363	e1,300	94	19	78
9	43	56	e66	e47	e42	e140	72	296	e1,150	99	23	86
10	44	64	e64	e49	e44	e110	73	313	e900	89	23	98
11	42	71	e62	e44	e46	e150	77	365	e760	77	21	105
12	46	71	e62	e40	e44	e185	90	654	e700	65	16	102
13	46	69	e63	e37	e42	e145	91	1,060	e800	66	18	100
14	46	69	e60	e36	e40	e125	83	1,300	e900	53	18	108
15	46	e60	e54	e38	e39	e135	81	1,010	e1,010	39	16	120
16	48	e62	e50	e43	e43	e150	83	638	1,060	17	16	123
17	47	e64	e48	e45	e44	e120	90	477	1,100	8.4	13	124
18	47	e64	e45	e45	e41	111	93	418	1,090	6.2	16	123
19	48	e65	e42	e46	e42	106	109	447	1,020	6.5	19	110
20	52	67	e43	e45	e45	102	144	408	918	5.6	15	110
21	57	67	e46	e46	e44	98	168	580	728	10	14	116
22	55	68	e44	e47	e48	90	134	660	601	40	8.3	126
23	54	67	e42	e49	e46	85	126	593	558	59	6.7	126
24	50	66	e43	e51	e47	80	117	399	514	52	3.5	129
25	50	e60	e45	e54	e48	76	123	287	469	49	1.9	121
26	51	e55	e45	e45	e50	74	135	242	e420	85	3.3	124
27	54	e55	e44	e43	e48	73	124	202	e370	112	13	134
28	55	e50	e43	e47	e45	86	119	171	e340	188	22	135
29	52	e54	e44	e44	---	113	112	167	e310	185	18	131
30	48	e51	e45	e45	---	69	103	244	e280	137	19	131
31	e46	---	e46	e43	---	60	---	279	---	119	18	---
Total	1,508	1,777	1,634	1,400	1,239	3,196	3,064	15,333	21,124	2,875.7	641.7	3,034
Mean	48.6	59.2	52.7	45.2	44.2	103	102	495	704	92.8	20.7	101
Max	58	71	68	54	50	185	168	1,530	1,300	250	88	135
Min	41	38	42	36	39	43	64	138	268	5.6	1.9	17
Ac-ft	2,990	3,520	3,240	2,780	2,460	6,340	6,080	30,410	41,900	5,700	1,270	6,020

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	94.2	102	84.7	70.6	80.0	151	171	424	660	179	61.8	78.1
Max	246	286	296	292	232	450	436	1,427	2,229	863	256	274
(WY)	(1981)	(1981)	(1981)	(1981)	(1962)	(1943)	(1965)	(1978)	(1944)	(1928)	(1968)	(1915)
Min	17.5	31.6	25.0	22.8	25.0	37.2	20.4	1.79	1.00	1.63	0.76	2.04
(WY)	(1956)	(1917)	(1917)	(1980)	(1917)	(1982)	(1961)	(1960)	(2004)	(2006)	(2006)	(1955)

06324000 CLEAR CREEK NEAR ARVADA, WY—Continued

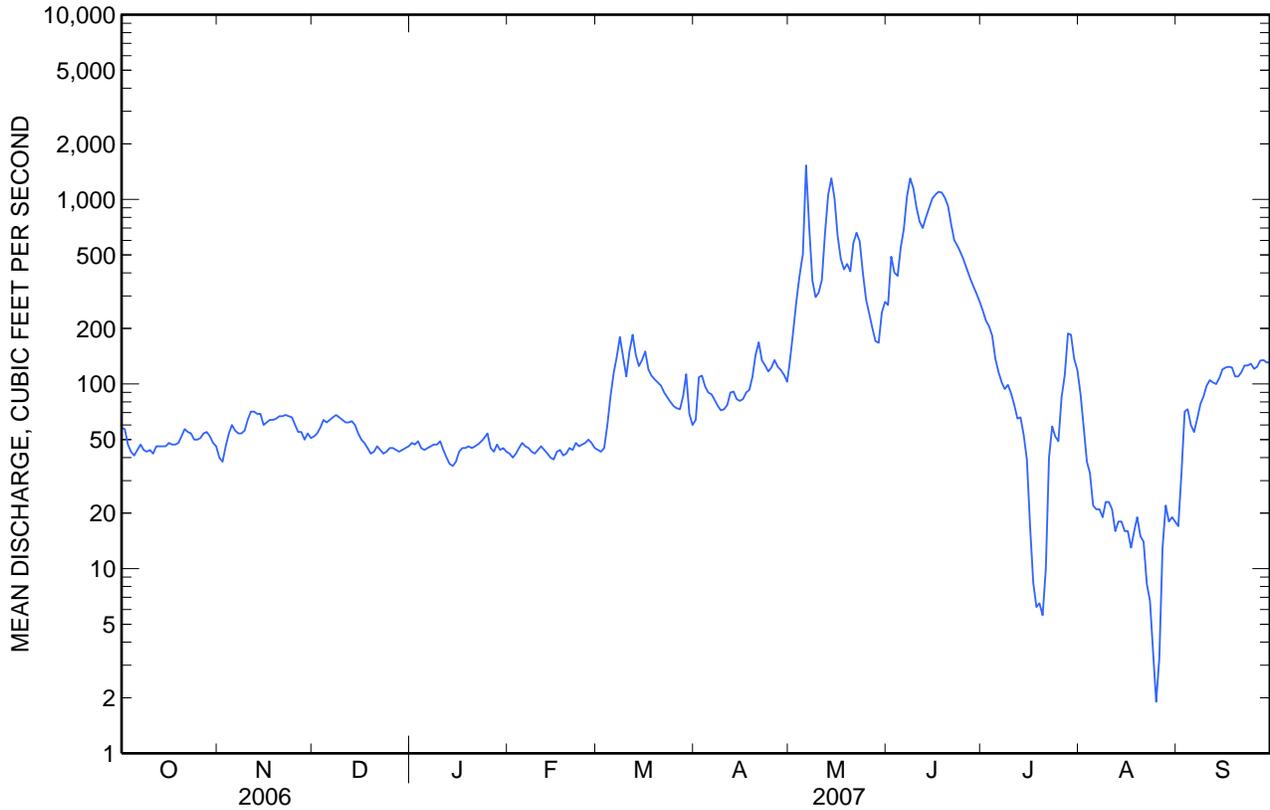
SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1915 - 2007	
Annual total	20,523.23		56,826.4			
Annual mean	56.2		156		176	
Highest annual mean					408	1944
Lowest annual mean					45.6	2004
Highest daily mean	344	May 25	1,530	May 6	4,880	Jun 17, 1963
Lowest daily mean	0.21	Aug 16	1.9	Aug 25	0.00	Jul 22, 1954 ^a
Annual seven-day minimum	0.24	Aug 10	7.2	Aug 21	0.00	May 8, 1960 ^b
Maximum peak flow			2,430	May 6	^c 9,600	Aug 5, 1954
Maximum peak stage			5.04	May 6	10.45	Aug 5, 1954
Annual runoff (ac-ft)	40,710		112,700		127,200	
10 percent exceeds	106		419		369	
50 percent exceeds	56		63		84	
90 percent exceeds	0.35		35		20	

^a Many days, some years.

^b Some years.

^c From rating curve extended above 2,500 ft³/s on basis of slope-area measurement of peak flow.



06324000 CLEAR CREEK NEAR ARVADA, WY—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1949-54, 1967-92, October 2000 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 2003 to current year (seasonal, except 2006).

WATER TEMPERATURE: April 2003 to current year (seasonal, except 2006).

INSTRUMENTATION.--Water-quality monitor for specific conductance and water temperature.

REMARKS.--Specific conductance excellent October 1-10, March 22-27, April 13-18, April 27 to May 2, May 12-21, May 25 to June 28, July 13-22, 26, 27, and August 10 to September 30; good March 28 to April 12, April 19-26, May 3-11, 22-24, June 29 to July 12, July 23-25, and July 28 to August 2; fair August 3-7; and poor August 8, 9.

Water temperature records excellent October 1-3 and March 22 to September 30; good October 4-10. Water-temperature records represent water temperature at sensor within 0.2°C.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 2,120 microsiemens per centimeter at 25°C ($\mu\text{S}/\text{cm}$), August 16, 2006; minimum recorded, 196 $\mu\text{S}/\text{cm}$, May 25, 2005.

WATER TEMPERATURE: Maximum recorded, 33.8°C, July 19, 2003; minimum recorded, -0.1°C, many days 2003 and 2006.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,700 $\mu\text{S}/\text{cm}$, August 30; minimum recorded, 215 $\mu\text{S}/\text{cm}$, May 15.

WATER TEMPERATURE: Maximum recorded, 31.9°C, July 20; minimum recorded, 0.0°C, March 29, 30.

06324000 CLEAR CREEK NEAR ARVADA, WY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 1 of 4

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

Date	Time	Instan- taneous dis- charge, cfs (00061)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	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)
Oct													
11...	1710	42	--	671	12.0	111	8.6	1,210	.0	6.5	540	119	57.7
25...	1430	61	--	665	11.7	113	8.4	1,360	10.0	7.5	630	140	67.0
Nov													
08...	0820	53	--	659	11.0	100	8.8	1,320	4.5	5.0	590	136	60.7
30...	1500	51	--	664	13.3	105	8.2	1,490	2.0	.0	700	163	70.8
Dec													
13...	0840	63	--	669	13.3	104	8.0	1,090	-5.0	.0	510	119	51.2
20...	0930	43	--	672	14.1	110	8.1	1,210	-5.0	.0	550	128	55.4
Jan													
10...	0805	49	--	660	12.1	96	8.1	1,030	2.0	.0	460	108	45.4
24...	1515	E51	--	673	12.7	99	8.0	1,130	10.0	.0	490	115	48.9
Feb													
08...	0840	43	--	673	12.1	94	7.8	1,110	-10.0	.0	510	120	51.8
20...	1400	E45	--	--	13.1	--	8.0	996	10.0	.5	450	105	45.6
Mar													
08...	0840	192	--	667	12.5	98	7.9	674	7.0	.0	260	60.8	26.4
21...	1040	97	--	670	10.3	97	8.5	845	10.5	7.0	360	84.6	36.6
Apr													
12...	0815	87	--	667	10.4	95	8.5	1,190	1.5	5.5	510	113	56.2
26...	1015	137	--	668	9.1	99	8.4	1,070	14.0	13.0	440	98.1	46.4
May													
11...	0825	363	--	672	8.3	99	8.3	866	19.0	17.5	340	77.8	36.4
24...	1420	372	--	671	10.0	111	8.2	332	16.0	14.0	140	33.3	12.8
Jun													
07...	1005	1,080	--	658	9.4	107	8.1	357	10.0	14.5	140	34.3	14.0
20...	1045	948	--	671	8.5	101	7.9	305	27.5	17.5	120	31.7	10.4
Jul													
12...	0725	66	--	673	7.0	89	8.2	962	20.0	21.0	400	98.3	38.3
25...	1020	42	--	670	7.8	108	8.3	1,110	31.5	25.0	450	104	47.0
Aug													
09...	0815	25	--	669	7.0	90	8.2	1,240	21.0	21.0	530	118	56.8
22...	1020	9.0	--	669	8.3	104	8.2	1,400	28.5	19.5	600	131	67.3
Sep													
07...	0930	59	--	672	8.4	101	8.4	981	20.0	18.0	410	97.7	41.3
10...	1355	98	4.2	675	10.3	116	8.4	972	--	15.0	--	--	--
19...	0845	110	--	670	8.8	98	8.3	847	15.0	14.0	240	58.8	22.5

06324000 CLEAR CREEK NEAR ARVADA, WY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 2 of 4

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

Date	Potas- sium, water, fltrd, mg/L (00935)	Sodium adsorp- tion ratio (00931)	Sodium frac- tion of cations percent (00932)	Sodium, water, fltrd, mg/L (00930)	Alka- linity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Alka- linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Residue water, dis- solved, tons/d (70302)
Oct													
11...	5.25	1.3	22	69.1	222	221	3.41	.20	4.25	490	882	1.32	110
25...	5.85	1.3	21	76.9	243	264	4.35	.19	6.00	539	998	1.44	174
Nov													
08...	5.05	1.3	21	72.6	256	250	4.36	.21	7.60	503	940	1.38	146
30...	5.60	1.4	20	82.5	295	292	4.21	.20	9.89	569	1,080	1.57	158
Dec													
13...	4.08	1.2	20	60.2	239	221	3.70	.23	9.78	391	771	1.17	146
20...	4.33	1.2	20	63.4	231	250	3.63	.17	10.5	430	846	1.20	103
Jan													
10...	3.71	1.1	21	55.9	227	219	3.44	.19	9.76	367	725	1.08	105
24...	4.27	1.2	21	59.1	239	226	3.86	.20	11.1	387	765	1.15	--
Feb													
08...	4.09	1.2	20	60.1	232	223	3.85	.20	10.3	379	763	1.14	97.1
20...	4.02	1.1	21	55.0	217	206	4.36	.21	10.2	336	684	1.01	--
Mar													
08...	7.78	1.1	25	40.5	141	136	3.69	.13	6.80	221	449	.69	262
21...	4.01	1.0	21	45.5	176	169	3.29	.18	3.24	290	569	.85	163
Apr													
12...	4.82	1.4	24	74.2	228	212	5.04	.18	3.18	455	839	1.27	220
26...	4.62	1.3	23	60.6	200	197	4.76	.21	4.53	388	725	1.10	299
May													
11...	4.17	1.2	25	53.2	157	147	3.92	.16	5.89	297	567	.86	617
24...	1.67	.6	21	17.3	75	84	1.18	E.09	8.04	85.1	210	.30	224
Jun													
07...	1.85	.8	24	21.5	77	84	1.33	E.10	8.01	110	241	.33	709
20...	1.66	.5	19	13.3	72	74	1.33	.10	7.72	79.3	190	.27	510
Jul													
12...	4.84	1.1	20	48.5	167	165	3.01	.29	2.84	349	644	1.00	131
25...	5.83	1.2	22	59.3	173	169	3.10	.30	5.60	425	751	1.06	88.4
Aug													
09...	5.95	1.4	23	73.8	180	171	3.65	.20	5.29	454	820	1.28	63.8
22...	6.50	1.6	24	88.4	185	181	3.84	.24	3.76	591	1,000	1.48	26.4
Sep													
07...	4.98	1.1	21	51.9	165	163	2.75	.23	3.68	363	663	.98	115
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	2.95	.8	20	27.8	132	149	2.47	.21	2.18	286	492	.80	175

06324000 CLEAR CREEK NEAR ARVADA, WY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 4

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

Date	Residue on evap. at 180degC wat flt mg/L (70300)	Biomass peri- phyton, ashfree drymass g/m2 (49954)	Peri- phyton biomass ash weight, g/m2 (00572)	Peri- phyton biomass dry weight, g/m2 (00573)	Biomass chloro- phyll ratio, peri- phyton, number (70950)	Chloro- phyll a peri- phyton, chromo- fluoro, mg/m2 (70957)	Pheo- phytin a, peri- phyton, mg/m2 (62359)	Alum- inum, water, unfltrd recover -able, µg/L (01105)	Arsenic water, fltrd, µg/L (01000)	Arsenic water, unfltrd µg/L (01002)	Barium, water, unfltrd recover -able, µg/L (01007)	Beryll- ium, water, unfltrd recover -able, µg/L (01012)	Iron, water, fltrd, µg/L (01046)
Oct													
11...	968	--	--	--	--	--	--	60	.56	1.3	33.1	<.06	36
25...	1,060	--	--	--	--	--	--	50	.54	1.6	30.9	<.06	45
Nov													
08...	1,020	--	--	--	--	--	--	46	.42	.75	31.4	<.06	29
30...	1,150	--	--	--	--	--	--	59	.51	1.1	41.4	<.06	23
Dec													
13...	857	--	--	--	--	--	--	29	.43	.77	28.6	<.06	26
20...	885	--	--	--	--	--	--	30	.37	.94	33.1	<.06	29
Jan													
10...	796	--	--	--	--	--	--	25	.31	.72	29.3	<.06	29
24...	848	--	--	--	--	--	--	35	.35	.91	31.6	<.06	16
Feb													
08...	837	--	--	--	--	--	--	24	.30	.86	34.2	<.06	28
20...	740	--	--	--	--	--	--	83	.25	.69	32.1	<.06	30
Mar													
08...	505	--	--	--	--	--	--	870	.79	1.6	35.4	.10	65
21...	622	--	--	--	--	--	--	70	.48	.67	27.1	<.06	69
Apr													
12...	935	--	--	--	--	--	--	50	.49	.69	37.2	<.06	83
26...	809	--	--	--	--	--	--	218	.61	.88	43.4	<.06	42
May													
11...	630	--	--	--	--	--	--	769	.71	1.5	58.0	.09	23
24...	223	--	--	--	--	--	--	443	.48	1.0	25.7	E.05	64
Jun													
07...	243	--	--	--	--	--	--	3,920	.49	3.1	89.0	.33	29
20...	199	--	--	--	--	--	--	718	.49	1.2	36.9	.08	28
Jul													
12...	735	--	--	--	--	--	--	159	.68	1.0	56.3	<.06	12
25...	780	--	--	--	--	--	--	135	.82	.95	53.6	<.06	6
Aug													
09...	945	--	--	--	--	--	--	56	.87	1.0	61.6	<.06	E4
22...	1,090	--	--	--	--	--	--	25	.64	.79	53.9	<.06	<6
Sep													
07...	721	--	--	--	--	--	--	43	.65	.83	36.4	<.06	E5
10...	--	18.0	640	660.7	1,190	15.2	4.8	--	--	--	--	--	--
19...	590	--	--	--	--	--	--	58	.37	.66	34.3	<.06	12

06324000 CLEAR CREEK NEAR ARVADA, WY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006
TO SEPTEMBER 2007

Part 4 of 4

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

Date	Mangan- ese, water, fltred, µg/L (01056)	Selen- ium, water, unfltred µg/L (01147)
Oct		
11...	15.5	.57
25...	19.0	.90
Nov		
08...	17.6	.59
30...	20.6	.78
Dec		
13...	14.7	.55
20...	16.8	.58
Jan		
10...	15.7	.52
24...	21.2	.59
Feb		
08...	23.2	.57
20...	24.6	.49
Mar		
08...	39.4	.38
21...	46.2	.33
Apr		
12...	46.9	.48
26...	22.2	.48
May		
11...	8.2	.59
24...	12.4	.27
Jun		
07...	5.3	.45
20...	6.4	.19
Jul		
12...	11.4	.49
25...	11.7	.49
Aug		
09...	9.5	.55
22...	14.5	.54
Sep		
07...	6.4	.45
10...	--	--
19...	3.9	.34

06324000 CLEAR CREEK NEAR ARVADA, 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
	October			November			December			January		
1	1,190	1,160	1,180	---	---	---	---	---	---	---	---	---
2	1,190	1,130	1,160	---	---	---	---	---	---	---	---	---
3	1,130	1,120	1,130	---	---	---	---	---	---	---	---	---
4	1,140	1,110	1,130	---	---	---	---	---	---	---	---	---
5	1,120	1,100	1,110	---	---	---	---	---	---	---	---	---
6	1,170	1,110	1,140	---	---	---	---	---	---	---	---	---
7	1,190	1,170	1,180	---	---	---	---	---	---	---	---	---
8	1,210	1,190	1,210	---	---	---	---	---	---	---	---	---
9	1,220	1,200	1,210	---	---	---	---	---	---	---	---	---
10	1,220	1,190	1,210	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

06324000 CLEAR CREEK NEAR ARVADA, 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	---	---	---	---	---	---	998	904	934	979	958	970
2	---	---	---	---	---	---	1,060	998	1,050	958	788	892
3	---	---	---	---	---	---	1,030	976	991	788	598	685
4	---	---	---	---	---	---	988	952	967	629	497	539
5	---	---	---	---	---	---	963	954	957	499	371	409
6	---	---	---	---	---	---	984	957	971	893	404	632
7	---	---	---	---	---	---	1,020	984	1,000	727	619	670
8	---	---	---	---	---	---	1,040	1,020	1,020	821	727	776
9	---	---	---	---	---	---	1,080	1,040	1,060	900	821	866
10	---	---	---	---	---	---	1,120	1,080	1,100	---	887	---
11	---	---	---	---	---	---	1,160	1,120	1,140	887	704	811
12	---	---	---	---	---	---	1,200	1,160	1,180	704	396	527
13	---	---	---	---	---	---	1,200	1,150	1,180	396	277	321
14	---	---	---	---	---	---	1,150	1,120	1,140	277	230	247
15	---	---	---	---	---	---	1,230	1,120	1,150	246	215	226
16	---	---	---	---	---	---	1,290	1,230	1,270	296	246	268
17	---	---	---	---	---	---	1,290	1,280	1,280	344	296	321
18	---	---	---	---	---	---	1,280	1,260	1,270	375	344	363
19	---	---	---	---	---	---	1,260	1,230	1,240	370	350	364
20	---	---	---	---	---	---	1,240	1,190	1,220	384	349	369
21	---	---	---	---	---	---	1,190	1,090	1,140	373	294	344
22	---	---	---	898	869	883	1,090	1,070	1,080	297	279	289
23	---	---	---	932	898	914	1,070	1,050	1,060	304	292	300
24	---	---	---	953	926	934	1,060	1,050	1,060	375	304	331
25	---	---	---	987	953	973	1,060	1,050	1,060	472	375	424
26	---	---	---	1,020	987	1,010	1,060	1,030	1,040	551	472	516
27	---	---	---	1,030	1,020	1,020	1,030	993	1,020	613	551	582
28	---	---	---	1,030	981	1,010	998	975	989	672	613	645
29	---	---	---	981	943	961	987	971	978	724	672	700
30	---	---	---	948	934	940	986	969	979	747	708	732
31	---	---	---	937	899	910	---	---	---	708	506	579
Month	---	---	---	---	---	---	1,290	904	1,080	---	215	---

06324000 CLEAR CREEK NEAR ARVADA, 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
	June			July			August			September		
1	576	506	541	601	575	589	896	864	882	1,480	1,340	1,400
2	587	408	504	628	592	610	942	890	915	1,400	1,340	1,370
3	443	408	421	639	615	627	968	942	958	1,440	1,260	1,320
4	488	443	468	655	634	642	1,010	968	995	1,440	1,100	1,300
5	490	374	429	678	655	664	1,040	1,000	1,020	1,100	986	1,020
6	397	353	379	723	678	702	1,090	1,040	1,060	994	979	986
7	854	333	395	755	723	742	1,130	1,090	1,110	1,050	985	1,010
8	546	314	389	793	755	781	1,210	1,130	1,180	1,080	1,050	1,060
9	389	348	373	819	787	806	1,230	1,210	1,220	1,070	993	1,030
10	348	317	325	824	805	816	1,230	1,210	1,220	993	981	989
11	317	292	297	839	812	827	1,240	1,210	1,230	982	933	963
12	386	286	296	882	826	853	1,270	1,240	1,250	937	914	930
13	289	266	274	912	878	894	1,320	1,270	1,290	916	897	908
14	287	272	279	932	910	918	1,330	1,280	1,320	937	900	923
15	290	271	283	950	928	936	1,280	1,250	1,270	918	901	910
16	276	266	271	996	950	971	1,250	1,230	1,240	---	873	---
17	274	261	266	1,020	995	1,000	1,270	1,240	1,250	874	842	859
18	262	252	257	1,060	1,020	1,040	1,290	1,260	1,270	842	810	821
19	258	254	256	1,070	1,050	1,060	1,320	1,280	1,290	831	812	823
20	332	245	301	1,080	1,060	1,070	1,320	1,270	1,290	859	831	846
21	383	332	355	1,120	1,080	1,090	1,330	1,270	1,290	867	855	860
22	433	383	409	1,270	1,120	1,210	1,410	1,330	1,380	885	858	874
23	452	433	443	1,390	1,270	1,340	1,420	1,400	1,410	870	858	865
24	470	449	457	1,390	1,160	1,270	1,510	1,420	1,460	874	865	870
25	490	470	479	1,160	1,100	1,120	1,580	1,500	1,540	868	864	866
26	503	490	497	1,150	1,100	1,120	1,590	1,470	1,540	881	868	873
27	522	503	515	1,160	1,050	1,120	1,490	1,390	1,430	890	881	886
28	546	522	538	1,060	987	1,020	1,540	1,470	1,520	887	869	875
29	580	545	564	987	940	968	1,660	1,500	1,580	884	867	877
30	584	563	574	942	846	892	1,700	1,640	1,680	868	856	862
31	---	---	---	865	848	857	1,640	1,480	1,590	---	---	---
Month	854	245	394	1,390	575	921	1,700	864	1,280	---	810	---

06324000 CLEAR CREEK NEAR ARVADA, 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	17.3	12.5	14.8	---	---	---	---	---	---	---	---	---
2	15.5	12.5	14.0	---	---	---	---	---	---	---	---	---
3	14.3	11.6	12.5	---	---	---	---	---	---	---	---	---
4	13.5	10.4	11.9	---	---	---	---	---	---	---	---	---
5	16.0	10.4	13.2	---	---	---	---	---	---	---	---	---
6	16.9	13.1	15.1	---	---	---	---	---	---	---	---	---
7	16.8	14.0	15.3	---	---	---	---	---	---	---	---	---
8	14.0	11.2	12.3	---	---	---	---	---	---	---	---	---
9	11.7	8.8	9.6	---	---	---	---	---	---	---	---	---
10	10.2	6.9	8.5	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

06324000 CLEAR CREEK NEAR ARVADA, 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	---	---	---	---	---	---	10.7	4.3	7.3	20.5	15.3	17.9
2	---	---	---	---	---	---	8.6	6.7	8.0	20.0	16.7	18.6
3	---	---	---	---	---	---	7.9	5.6	6.6	19.2	16.2	17.8
4	---	---	---	---	---	---	8.1	4.7	6.3	17.2	14.4	15.8
5	---	---	---	---	---	---	6.5	4.8	5.7	16.0	9.6	12.8
6	---	---	---	---	---	---	5.9	3.5	4.6	9.6	6.6	7.6
7	---	---	---	---	---	---	7.7	2.0	4.5	12.5	6.6	9.2
8	---	---	---	---	---	---	9.8	3.1	6.1	17.1	10.6	13.5
9	---	---	---	---	---	---	11.2	5.9	8.3	20.2	14.2	17.1
10	---	---	---	---	---	---	11.4	7.7	9.2	21.5	16.9	19.0
11	---	---	---	---	---	---	8.6	6.2	7.3	22.1	17.5	19.9
12	---	---	---	---	---	---	8.8	5.4	6.8	21.7	18.4	20.0
13	---	---	---	---	---	---	12.3	5.5	8.6	19.6	16.3	17.7
14	---	---	---	---	---	---	14.6	7.6	10.7	16.3	12.2	13.8
15	---	---	---	---	---	---	15.3	10.4	12.4	13.9	10.4	12.1
16	---	---	---	---	---	---	15.9	10.9	13.0	16.0	11.4	13.6
17	---	---	---	---	---	---	17.3	11.3	13.9	19.3	13.7	16.3
18	---	---	---	---	---	---	17.0	12.4	14.5	20.9	15.8	18.3
19	---	---	---	---	---	---	14.1	9.1	11.6	21.1	16.8	19.0
20	---	---	---	---	---	---	13.0	7.4	10.2	21.2	17.0	19.2
21	---	---	---	---	---	---	14.2	10.5	12.4	19.8	16.2	17.5
22	---	---	---	9.0	5.8	7.3	16.1	10.6	13.2	16.2	13.2	14.3
23	---	---	---	10.4	6.0	7.9	13.7	10.7	12.2	13.2	11.2	12.1
24	---	---	---	12.0	6.4	8.9	13.3	9.9	11.3	15.8	10.2	12.9
25	---	---	---	13.5	8.1	10.6	15.8	9.8	12.8	15.2	12.9	14.0
26	---	---	---	14.6	10.3	12.1	14.5	11.9	13.2	17.9	12.0	14.8
27	---	---	---	14.7	9.9	12.1	15.7	10.1	12.7	20.4	14.8	17.6
28	---	---	---	12.0	3.7	8.2	18.4	12.4	15.2	21.5	17.5	19.2
29	---	---	---	3.7	0.0	1.7	20.7	14.9	17.6	18.4	15.8	17.0
30	---	---	---	6.9	0.0	2.9	20.4	16.4	18.3	16.3	14.6	15.4
31	---	---	---	9.1	1.4	5.0	---	---	---	15.1	12.7	13.6
Month	---	---	---	---	---	---	20.7	2.0	10.5	22.1	6.6	15.7

06324000 CLEAR CREEK NEAR ARVADA, 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	15.7	11.9	13.6	27.8	22.9	25.4	---	23.4	---	26.0	20.4	23.1
2	18.3	13.5	15.9	28.6	24.1	26.3	28.5	22.5	25.3	26.6	20.1	23.3
3	21.2	15.6	18.3	28.6	24.1	26.5	28.4	23.1	25.8	26.0	20.2	23.0
4	21.9	17.9	19.9	28.9	24.2	26.6	28.6	22.7	25.6	25.6	20.6	22.9
5	22.1	18.7	20.4	29.0	24.2	26.6	28.8	22.4	25.4	23.3	19.4	21.1
6	20.5	17.0	18.9	29.9	24.0	26.9	28.1	22.6	25.1	21.7	18.6	20.1
7	17.0	13.5	14.7	28.4	24.6	26.5	27.6	22.0	24.7	23.1	17.4	19.9
8	13.5	11.4	12.4	28.9	23.3	25.7	27.6	21.2	24.3	19.9	15.7	17.5
9	15.9	11.8	13.7	29.5	23.9	26.3	27.2	20.7	24.0	15.7	13.0	14.4
10	17.6	14.1	15.9	26.2	21.3	23.5	26.4	21.4	23.9	16.9	11.7	14.0
11	19.1	15.7	17.4	26.8	20.2	23.4	26.3	20.4	23.1	18.4	12.7	15.3
12	18.6	16.7	17.3	27.8	20.9	24.2	27.8	20.1	23.7	18.7	14.0	16.2
13	18.0	15.2	16.6	28.5	21.7	24.9	25.0	21.6	23.4	17.0	14.0	15.4
14	18.5	16.1	17.3	29.6	22.0	25.6	25.7	21.4	23.5	16.6	11.7	14.1
15	19.9	17.4	18.5	30.1	22.7	26.4	26.5	20.4	23.2	18.4	13.2	15.7
16	20.0	18.1	19.0	30.2	23.3	26.9	26.4	19.9	23.0	18.6	---	---
17	19.0	16.7	17.9	29.9	24.3	26.7	24.4	22.1	23.2	18.3	14.6	16.4
18	18.0	15.2	16.6	31.3	23.2	26.9	28.1	20.9	23.7	16.6	15.2	15.8
19	19.2	15.6	17.3	30.3	23.8	26.5	27.6	21.4	23.9	17.3	13.8	15.5
20	20.6	16.7	18.6	31.9	22.7	27.0	25.2	20.0	22.6	19.3	14.5	16.7
21	22.5	18.8	20.6	31.7	23.2	27.4	24.9	19.5	22.1	18.4	15.0	16.5
22	24.7	20.0	22.3	30.9	23.7	27.2	22.5	18.0	20.0	18.4	13.7	16.0
23	25.0	21.0	22.9	30.3	23.8	27.1	23.1	17.5	19.8	16.7	14.6	16.0
24	25.6	21.1	23.3	30.4	23.7	26.8	24.2	17.1	20.1	14.6	11.2	12.8
25	26.0	22.5	24.0	27.7	23.3	25.7	26.5	14.7	20.1	14.3	9.5	11.8
26	24.4	20.4	22.5	25.2	23.8	24.3	27.0	16.2	21.0	15.1	11.3	13.0
27	23.6	19.5	21.7	25.7	22.4	23.9	24.6	18.0	21.0	15.7	11.8	13.6
28	25.2	20.0	22.6	27.2	21.9	24.6	21.6	18.2	19.7	15.0	11.9	13.6
29	26.1	21.6	23.8	28.0	22.7	25.4	24.0	16.0	19.8	16.0	12.4	14.0
30	26.7	21.9	24.3	27.9	23.0	25.5	26.4	18.5	22.1	15.6	12.1	13.8
31	---	---	---	28.1	23.1	25.5	26.6	19.8	23.0	---	---	---
Month	26.7	11.4	18.9	31.9	20.2	25.9	---	14.7	---	26.6	---	---