



Water-Data Report 2010

09180500 COLORADO RIVER NEAR CISCO, UT

Upper Colorado-Dolores Basin
Upper Colorado-Kane Springs Subbasin

LOCATION.--Lat 38°48'38", long 109°17'34" referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.17, T.23 S., R.24 E., Grand County, UT, Hydrologic Unit 14030005, on the left bank one mile downstream from Dolores River, 11 mi. south of Cisco, UT, 36 mi. downstream from Colorado-Utah state line, 97 mi. upstream from Green River, 235 mi. upstream from San Juan River, and at mile 1,022 from Arizona-Sonora border.

DRAINAGE AREA.--24,100 mi², approximately.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1895 to current year (1895 to 1910, calendar-year estimates only). Monthly discharge only for some periods, published in WSP 1313. Published as Grand River near Moab, October 1913 to November 1914, and as Grand River near Cisco, November 1914 to September 1917.

REVISED RECORDS.--WSP 918: 1913, 1937. WSP 1313: 1918-22.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 4,090 ft above NGVD of 1929, from river-profile map. Prior to November 10, 1914, several staff and chain gages at bridge near Moab, 31 mi downstream at datum 3,937.73 ft above NGVD of 1929.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversions above station for irrigation and power, including several transmountain diversions. Flow regulated by Blue Mesa Reservoir since November 27, 1965.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 76,800 ft³/s, Jun 19, 1917, gage height, 19.7 ft; minimum recorded, 558 ft³/s, Jul 21, 1934, gage height, 0.44 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood on Jul 4, 1884 reached a discharge of about 125,000 ft³/s, from flood record at Fruita, Colorado.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 26,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jun 9	2215	*30,600	*11.74

Minimum daily discharge, 2,460 ft³/s, Jan 8.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3,930	4,190	3,210	e2,510	e2,520	2,770	3,210	9,240	21,400	7,290	4,140	3,440
2	4,010	3,940	2,990	e2,500	e2,520	2,850	4,000	8,130	20,800	6,900	4,710	3,270
3	4,130	4,060	3,060	e2,500	e2,500	2,880	4,100	7,310	19,500	6,840	4,920	3,130
4	4,110	4,140	3,060	e2,500	e2,500	2,950	4,020	6,780	17,100	6,800	5,530	2,990
5	4,120	3,780	2,660	e2,500	e2,510	3,150	3,810	6,520	17,400	6,480	6,340	2,960
6	4,140	3,520	2,690	e2,490	e2,530	3,220	3,600	6,810	21,300	6,020	6,300	2,920
7	4,200	3,890	e2,600	e2,500	e2,550	3,230	3,430	7,140	25,900	5,470	5,530	2,890
8	4,230	3,650	e2,580	e2,460	e2,550	3,450	3,240	7,220	29,000	4,890	5,350	3,180
9	4,190	3,540	e2,560	e2,470	e2,550	3,760	3,620	7,070	30,300	4,490	5,380	3,400
10	4,140	3,490	e2,560	e2,470	e2,550	3,570	3,740	6,950	29,500	4,460	5,040	3,710
11	4,100	3,450	e2,540	e2,470	e2,550	3,350	4,550	7,740	28,200	4,550	4,650	3,680
12	4,090	3,410	e2,520	e2,480	e2,560	3,220	5,800	7,740	25,400	4,540	4,430	3,710
13	4,050	3,360	e2,550	e2,490	e2,600	3,310	7,030	7,540	22,600	4,590	4,280	3,680
14	3,990	3,410	e2,550	e2,490	e2,640	3,910	8,100	7,930	21,100	4,400	4,200	3,640
15	4,080	3,570	e2,500	e2,490	e2,650	3,640	7,490	8,460	19,300	4,260	4,000	3,530
16	4,270	3,540	e2,500	e2,500	e2,680	3,420	8,070	9,180	17,000	3,920	3,890	3,410
17	4,350	3,290	e2,500	e2,500	e2,710	3,310	9,380	9,600	15,000	3,660	4,220	3,320
18	4,330	3,270	e2,500	e2,500	2,920	3,210	10,900	10,100	13,900	3,350	4,280	3,260
19	4,270	3,020	e2,500	e2,520	2,880	3,210	11,500	11,800	12,800	3,080	4,220	3,170
20	4,300	3,080	e2,510	e2,520	3,070	3,410	11,200	12,000	12,200	2,940	4,300	3,160
21	4,390	3,140	e2,520	e2,530	3,210	3,410	11,400	11,800	12,000	2,770	5,320	3,110
22	4,330	3,270	e2,530	e2,530	3,160	3,150	12,500	12,300	11,900	2,700	5,250	3,130
23	4,450	3,360	e2,550	e2,540	2,900	2,840	13,900	14,300	11,100	3,590	4,750	3,970
24	4,440	3,340	e2,520	e2,530	2,620	3,080	12,000	14,400	10,400	3,890	4,430	4,150
25	4,430	3,260	e2,500	e2,520	2,470	3,170	9,770	15,200	9,800	3,630	4,050	4,030
26	4,490	3,040	e2,480	e2,520	2,590	3,240	8,860	13,300	9,440	3,450	3,790	4,020
27	4,370	2,940	e2,470	e2,520	2,790	3,140	8,120	12,100	9,160	3,280	3,540	3,910
28	4,550	3,170	e2,470	e2,520	2,770	3,010	8,180	13,500	8,970	3,260	3,420	3,780
29	4,710	3,310	e2,490	e2,520	---	2,970	8,640	16,800	8,440	3,470	3,430	3,620
30	4,780	3,170	e2,500	e2,510	---	2,940	9,750	20,900	7,730	3,720	3,550	3,560
31	4,620	---	e2,500	e2,510	---	2,930	---	22,000	---	3,820	3,540	---
Total	132,590	103,600	80,670	77,610	75,050	99,700	223,910	331,860	518,640	136,510	140,780	103,730
Mean	4,277	3,453	2,602	2,504	2,680	3,216	7,464	10,710	17,290	4,404	4,541	3,458
Max	4,780	4,190	3,210	2,540	3,210	3,910	13,900	22,000	30,300	7,290	6,340	4,150
Min	3,930	2,940	2,470	2,460	2,470	2,770	3,210	6,520	7,730	2,700	3,420	2,890
Ac-ft	263,000	205,500	160,000	153,900	148,900	197,800	444,100	658,200	1,029,000	270,800	279,200	205,700

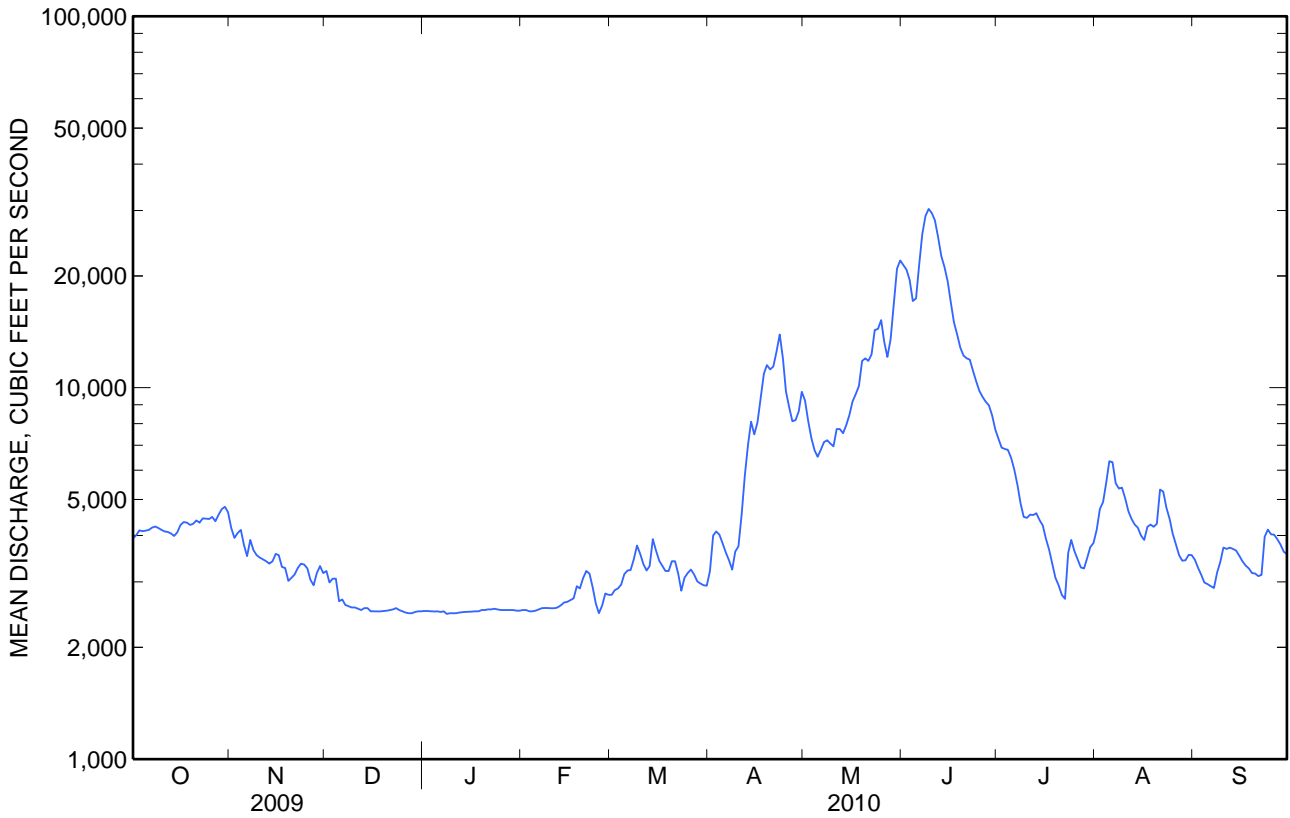
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914-17, 1923-2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	4,047	3,813	3,286	3,090	3,248	3,807	8,130	18,780	21,180	8,686	4,277	3,749
Max	9,416	7,601	6,588	6,371	6,326	8,412	22,590	42,090	55,530	31,750	11,400	11,330
(WY)	(1942)	(1987)	(1987)	(1985)	(1985)	(1985)	(1942)	(1984)	(1917)	(1957)	(1984)	(1929)
Min	1,353	1,730	2,023	1,876	1,843	2,009	1,638	2,322	2,504	1,057	1,017	1,078
(WY)	(1935)	(1935)	(2003)	(2003)	(2003)	(1977)	(1977)	(1977)	(2002)	(1934)	(1934)	(1934)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1914-17, 1923-2010	
Annual total	2,622,690		2,024,650			
Annual mean	7,185		5,547		7,181	
Highest annual mean					14,930	1984
Lowest annual mean					2,557	2002
Highest daily mean	30,700	May 26	30,300	Jun 9	73,200	Jun 19, 1917
Lowest daily mean	2,470	Dec 27	2,460	Jan 8	640	Jul 21, 1934
Annual seven-day minimum	2,490	Dec 25	2,480	Jan 8	736	Jul 15, 1934
Annual runoff (ac-ft)	5,202,000		4,016,000		5,203,000	
10 percent exceeds	18,700		11,800		17,700	
50 percent exceeds	4,130		3,640		3,890	
90 percent exceeds	3,060		2,510		2,270	



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WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1941 to September 1952, October 1954 to September 1981, March 1982 to current year.

WATER TEMPERATURE: May 1949 to September 1959, October 1964 to September 1981, March 1982 to current year.

SUSPENDED-SEDIMENT DISCHARGE: May 1930 to September 1984.

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available in files of USGS Utah Water Science Center office, Salt Lake City, Utah.

Temperature records excellent.

Published specific conductance records good except Jun. 9-18, which are fair; and Jun. 19-20, which are poor.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 4,820 microsiemens/cm, Dec 13, 1957; minimum daily, 291 microsiemens/cm, May 31, 1953.

WATER TEMPERATURE: Maximum observed, 29.0°C, Jul 29, 1966; minimum, -0.2°C, on many days during winter period most years.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 69,000 mg/L, Oct 27, 1951; minimum daily mean, 4 mg/L, Aug 22, 1960.

SEDIMENT LOADS: Maximum daily, 2,790,000 tons, Oct 14, 1941; minimum daily, 14 tons, Aug 22, 1960.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,680 microsiemens/cm, Sep 8; minimum, 316 microsiemens/cm, Jun 10-11.

WATER TEMPERATURE: Maximum, 27.6°C, Jul 18-19, 27; minimum, -0.2 °C, on many days during winter.

09180500 COLORADO RIVER NEAR CISCO, UT—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	1,130	1,120	1,130	1,140	1,120	1,130	1,350	1,290	1,330	1,340	1,270	1,300
2	1,130	1,120	1,130	1,170	1,140	1,150	1,280	1,260	1,270	1,420	1,340	1,380
3	1,130	1,120	1,130	1,200	1,170	1,190	1,320	1,280	1,300	1,360	1,300	1,330
4	1,130	1,120	1,120	1,230	1,200	1,210	1,310	1,280	1,300	1,350	1,280	1,310
5	1,170	1,120	1,130	1,230	1,210	1,220	1,300	1,280	1,290	1,310	1,230	1,270
6	1,170	1,160	1,160	1,240	1,210	1,220	1,290	1,280	1,280	1,270	1,240	1,260
7	1,190	1,150	1,170	1,270	1,240	1,260	1,290	1,280	1,290	1,280	1,220	1,250
8	1,150	1,140	1,140	1,280	1,250	1,260	1,300	1,290	1,300	1,270	1,230	1,250
9	1,150	1,110	1,120	1,260	1,240	1,250	1,370	1,290	1,310	1,260	1,220	1,230
10	1,110	1,100	1,100	1,270	1,250	1,260	1,460	1,380	1,430	1,360	1,250	1,310
11	1,120	1,100	1,110	1,270	1,260	1,270	1,550	1,470	1,520	1,450	1,280	1,370
12	1,130	1,120	1,130	1,280	1,270	1,280	1,550	1,500	1,510	1,300	1,220	1,270
13	1,140	1,130	1,140	1,280	1,270	1,280	1,500	1,430	1,460	1,310	1,220	1,270
14	1,140	1,130	1,140	1,290	1,270	1,280	1,450	1,390	1,430	1,380	1,270	1,320
15	1,150	1,140	1,150	1,300	1,270	1,280	1,400	1,370	1,390	1,380	1,330	1,360
16	1,160	1,150	1,150	1,320	1,280	1,300	1,420	1,400	1,410	1,370	1,290	1,330
17	1,150	1,140	1,150	1,320	1,300	1,310	1,400	1,300	1,350	1,320	1,260	1,290
18	1,140	1,120	1,130	1,320	1,300	1,310	1,300	1,280	1,290	1,320	1,280	1,300
19	1,130	1,110	1,120	1,340	1,320	1,330	1,300	1,290	1,290	1,310	1,240	1,260
20	1,120	1,110	1,120	1,370	1,320	1,350	---	---	---	1,240	1,180	1,190
21	1,170	1,110	1,120	1,340	1,320	1,330	---	---	---	1,230	1,170	1,200
22	1,120	1,110	1,110	1,380	1,340	1,360	---	---	---	1,230	1,170	1,210
23	1,130	1,120	1,120	1,380	1,350	1,370	---	---	---	1,220	1,170	1,190
24	1,120	1,110	1,110	1,360	1,300	1,340	---	---	---	1,290	1,200	1,250
25	1,120	1,100	1,110	1,310	1,300	1,300	---	---	---	1,210	1,180	1,190
26	1,110	1,090	1,100	1,310	1,250	1,280	---	---	---	1,230	1,180	1,200
27	1,100	1,090	1,100	1,260	1,250	1,260	---	---	---	1,230	1,180	1,210
28	1,110	1,100	1,100	1,290	1,250	1,260	---	---	---	1,250	1,180	1,220
29	1,120	1,110	1,120	1,330	1,290	1,320	---	---	---	1,180	1,140	1,160
30	1,120	1,110	1,110	1,370	1,320	1,350	---	---	---	1,360	1,180	1,240
31	1,120	1,120	1,120	---	---	---	1,280	1,260	1,270	1,380	1,290	1,340
Month	1,190	1,090	1,130	1,380	1,120	1,280	---	---	---	1,450	1,140	1,270

09180500 COLORADO RIVER NEAR CISCO, UT—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	1,300	1,260	1,280	1,300	1,260	1,280	1,360	1,320	1,340	556	492	531
2	1,290	1,240	1,270	1,270	1,230	1,250	1,350	1,320	1,340	597	556	585
3	1,280	1,240	1,260	1,280	1,220	1,250	1,360	1,280	1,330	638	595	622
4	1,300	1,240	1,270	1,290	1,200	1,240	1,300	1,190	1,230	687	638	666
5	1,320	1,240	1,290	1,300	1,210	1,260	1,220	1,170	1,190	700	675	687
6	1,320	1,230	1,270	1,330	1,240	1,290	1,170	1,120	1,130	688	653	675
7	1,330	1,210	1,260	1,320	1,230	1,280	1,200	1,120	1,140	670	630	649
8	1,260	1,170	1,230	1,270	1,210	1,240	1,220	1,190	1,200	641	607	626
9	1,190	1,120	1,170	1,320	1,220	1,290	1,340	1,220	1,280	637	613	625
10	1,170	1,120	1,150	1,310	1,240	1,280	1,400	1,280	1,330	639	609	620
11	1,170	1,120	1,150	1,280	1,240	1,260	1,360	1,130	1,190	640	625	634
12	1,160	1,120	1,150	1,330	1,260	1,310	1,130	805	944	631	608	619
13	1,170	1,120	1,150	1,360	1,330	1,350	881	698	803	658	629	646
14	1,160	1,110	1,140	1,340	1,260	1,290	761	633	684	661	647	656
15	1,170	1,110	1,140	1,380	1,280	1,310	671	570	639	655	647	651
16	1,140	1,110	1,120	1,380	1,320	1,350	584	486	540	664	637	654
17	1,150	1,120	1,130	1,330	1,280	1,310	513	442	480	648	629	638
18	1,150	1,140	1,150	1,340	1,290	1,310	457	418	439	637	597	625
19	1,150	1,130	1,140	1,340	1,270	1,290	437	391	414	613	546	577
20	1,190	1,140	1,170	1,320	1,280	1,300	427	392	412	555	547	551
21	1,190	1,130	1,150	1,320	1,300	1,310	428	380	406	567	554	561
22	1,180	1,140	1,170	1,330	1,290	1,310	417	381	396	565	541	553
23	1,180	1,150	1,160	1,310	1,280	1,300	407	379	393	548	500	524
24	1,220	1,160	1,190	1,300	1,270	1,280	410	391	399	500	480	488
25	1,220	1,200	1,210	1,340	1,280	1,310	440	401	427	487	464	476
26	1,280	1,220	1,250	1,350	1,320	1,330	479	432	462	479	454	464
27	1,300	1,260	1,280	1,330	1,300	1,320	505	477	490	526	479	509
28	1,310	1,250	1,280	1,320	1,280	1,290	528	489	502	599	504	530
29	---	---	---	1,300	1,270	1,280	516	470	504	511	413	462
30	---	---	---	1,360	1,290	1,320	538	498	516	413	349	376
31	---	---	---	1,370	1,330	1,350	---	---	---	358	342	350
Month	1,330	1,110	1,200	1,380	1,200	1,290	1,400	379	785	700	342	575

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SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	362	344	354	702	667	684	1,280	1,100	1,190	1,190	1,180	1,180
2	368	353	360	729	700	714	1,220	1,100	1,170	1,180	1,170	1,180
3	378	349	369	753	724	742	1,160	1,070	1,110	1,190	1,170	1,180
4	412	367	389	765	749	758	1,140	989	1,070	1,190	1,170	1,180
5	412	398	406	788	761	774	1,050	984	1,010	1,180	1,170	1,180
6	401	349	381	804	787	795	1,020	984	1,000	1,190	1,180	1,180
7	349	329	341	847	804	822	1,030	1,020	1,020	1,190	1,170	1,180
8	341	327	335	883	831	862	1,040	1,030	1,040	1,680	1,180	1,280
9	340	325	334	927	883	902	1,040	1,040	1,040	1,360	1,230	1,270
10	329	316	320	978	927	954	1,040	1,030	1,030	1,260	1,230	1,240
11	327	316	321	1,010	977	994	1,060	1,020	1,040	1,240	1,180	1,210
12	352	318	333	1,030	1,000	1,010	1,060	1,050	1,060	1,220	1,200	1,220
13	383	352	370	1,050	1,020	1,030	1,070	1,060	1,060	1,210	1,170	1,190
14	409	380	393	1,040	1,020	1,030	1,080	1,060	1,070	1,170	1,160	1,160
15	429	409	419	1,050	1,030	1,040	1,090	1,070	1,080	1,170	1,150	1,150
16	462	429	443	1,060	1,040	1,040	1,090	1,020	1,070	1,150	1,140	1,150
17	493	462	478	1,080	1,050	1,060	1,110	1,080	1,100	1,150	1,140	1,140
18	515	492	503	---	---	---	1,090	1,050	1,080	1,150	1,140	1,140
19	528	513	520	1,210	---	---	1,100	1,050	1,080	1,150	1,150	1,150
20	535	525	530	1,260	1,200	1,240	1,090	1,050	1,080	1,160	1,150	1,160
21	533	517	529	1,240	1,200	1,230	1,140	1,060	1,090	1,170	1,160	1,170
22	537	522	529	1,210	1,180	1,200	1,120	1,050	1,070	1,180	1,160	1,170
23	540	529	535	1,240	1,210	1,230	1,270	1,110	1,210	1,480	1,160	1,260
24	565	535	549	1,240	1,200	1,210	1,110	1,040	1,060	1,250	1,170	1,200
25	592	559	571	1,200	1,140	1,170	1,070	1,050	1,060	1,250	1,170	1,190
26	606	583	594	1,140	1,110	1,120	1,100	1,070	1,090	1,260	1,160	1,220
27	620	599	607	1,130	1,120	1,120	1,120	1,100	1,110	1,190	1,150	1,180
28	639	615	622	1,400	1,130	1,190	1,150	1,120	1,130	1,150	1,140	1,150
29	649	630	637	1,210	1,140	1,170	1,160	1,150	1,160	1,140	1,130	1,140
30	670	644	655	1,290	1,160	1,210	1,220	1,160	1,170	1,150	1,130	1,140
31	---	---	---	1,160	1,090	1,120	1,220	1,180	1,190	---	---	---
Month	670	316	458	---	---	---	1,280	984	1,090	1,680	1,130	1,180

09180500 COLORADO RIVER NEAR CISCO, UT—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	15.0	13.5	14.2	6.6	4.6	5.5	3.3	1.8	2.7	-0.1	-0.1	-0.1
2	14.2	12.0	13.1	7.3	5.1	6.2	2.9	1.5	---	-0.1	-0.1	-0.1
3	13.8	11.8	12.7	8.0	5.8	6.9	2.3	0.8	1.4	-0.1	-0.2	-0.1
4	13.8	11.9	12.8	8.6	6.4	7.5	1.0	0.0	0.2	-0.1	-0.2	-0.1
5	13.7	11.8	12.7	8.9	7.0	8.0	0.0	0.0	0.0	-0.1	-0.2	-0.1
6	13.5	11.6	12.5	9.4	7.2	8.3	0.1	0.0	0.0	-0.1	-0.2	-0.1
7	12.6	10.9	11.8	9.8	7.6	8.8	0.0	0.0	0.0	-0.1	-0.2	-0.1
8	12.9	10.8	11.8	9.6	8.0	8.9	0.1	0.0	0.0	-0.1	-0.2	-0.1
9	12.8	10.7	11.6	9.4	7.8	8.7	0.0	0.0	0.0	-0.1	-0.1	-0.1
10	12.5	10.3	11.4	9.3	7.6	8.6	0.0	0.0	0.0	-0.1	-0.1	-0.1
11	12.3	10.5	11.4	9.4	7.8	8.7	0.0	0.0	0.0	-0.1	-0.2	-0.1
12	12.5	10.6	11.6	9.8	8.3	9.1	0.0	0.0	0.0	-0.1	-0.2	-0.1
13	13.3	11.2	12.2	9.5	8.7	9.1	0.1	0.0	0.0	-0.1	-0.2	-0.1
14	13.2	12.0	12.6	9.3	8.4	8.9	0.0	0.0	0.0	-0.1	-0.2	-0.1
15	14.2	12.2	13.1	8.5	7.1	7.8	0.0	0.0	0.0	-0.1	-0.2	-0.1
16	14.4	12.3	13.3	7.1	5.6	6.2	0.0	0.0	0.0	-0.1	-0.2	-0.1
17	14.4	12.3	13.2	6.0	4.6	5.3	0.0	0.0	0.0	-0.1	-0.2	-0.1
18	14.2	12.2	13.1	5.1	3.5	4.4	0.0	0.0	0.0	-0.1	-0.2	-0.1
19	14.3	12.4	13.4	5.0	3.2	4.2	0.0	0.0	0.0	-0.1	-0.2	-0.1
20	13.6	12.9	13.2	4.8	3.0	4.0	0.0	0.0	0.0	-0.1	-0.2	-0.1
21	13.4	12.2	12.8	4.7	3.1	4.0	0.0	0.0	0.0	-0.1	-0.2	-0.1
22	13.3	11.6	12.4	4.8	3.4	4.2	0.0	0.0	0.0	-0.1	-0.1	-0.1
23	12.7	11.3	12.0	4.8	3.3	4.1	0.0	0.0	0.0	-0.1	-0.2	-0.1
24	12.2	10.9	11.6	4.3	2.9	3.6	0.0	0.0	0.0	-0.1	-0.2	-0.1
25	12.2	10.8	11.3	3.6	2.3	3.1	0.0	0.0	0.0	-0.1	-0.2	-0.1
26	11.6	10.2	10.8	3.5	1.8	2.7	0.0	0.0	0.0	-0.1	-0.2	-0.1
27	10.3	8.6	9.5	3.4	1.6	2.6	0.0	0.0	0.0	-0.1	-0.2	-0.1
28	8.6	7.6	8.2	3.3	2.0	2.8	0.0	0.0	0.0	-0.1	-0.2	-0.1
29	7.6	6.3	7.0	3.8	2.4	3.1	0.0	-0.1	-0.1	-0.1	-0.2	-0.1
30	7.2	5.8	6.4	3.8	2.0	3.0	0.0	-0.1	-0.1	-0.1	-0.2	-0.1
31	6.5	5.2	5.8	---	---	---	-0.1	-0.1	-0.1	-0.1	-0.2	-0.1
Month	15.0	5.2	11.6	9.8	1.6	5.9	3.3	-0.1	---	-0.1	-0.2	-0.1

09180500 COLORADO RIVER NEAR CISCO, UT—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	-0.1	-0.2	-0.1	6.4	3.5	5.0	11.1	9.3	9.9	11.1	9.2	10.2
2	-0.1	-0.2	-0.1	6.5	3.9	5.4	11.1	8.2	9.6	11.2	9.6	10.4
3	-0.1	-0.2	-0.1	7.6	4.8	6.3	10.1	8.5	9.4	12.4	9.7	10.9
4	-0.1	-0.2	-0.1	7.8	4.9	6.5	10.6	8.6	9.6	14.2	11.0	12.5
5	-0.1	-0.2	-0.1	8.2	5.6	6.9	11.2	8.9	10.0	15.1	12.5	13.7
6	-0.1	-0.2	-0.1	8.0	5.4	6.8	10.2	8.0	9.0	15.2	13.4	14.1
7	-0.1	-0.2	-0.1	7.2	5.4	6.4	10.0	6.7	8.4	14.3	12.1	13.2
8	-0.1	-0.2	-0.1	6.9	5.7	6.4	11.7	7.1	9.4	13.6	11.9	12.7
9	-0.1	-0.2	-0.1	7.9	5.5	6.8	12.8	8.7	10.9	14.3	11.9	13.0
10	-0.1	-0.2	-0.1	7.6	5.9	6.8	13.6	9.9	11.8	14.4	12.5	13.3
11	-0.1	-0.1	-0.1	8.2	5.4	6.9	14.5	11.0	12.8	13.9	12.8	13.2
12	-0.1	-0.2	-0.1	8.3	5.3	7.0	13.9	12.2	13.0	12.8	11.5	12.1
13	-0.1	-0.1	-0.1	8.3	5.7	7.2	12.5	11.1	11.8	13.4	11.4	12.4
14	0.0	-0.1	-0.1	7.9	6.0	6.9	12.0	10.0	10.8	13.7	12.1	12.8
15	0.3	-0.1	0.1	8.7	5.9	7.3	12.6	10.1	11.2	14.9	12.6	13.5
16	1.9	0.3	1.1	10.1	6.4	8.3	12.2	10.5	11.3	15.0	12.8	13.8
17	2.3	1.2	1.8	10.7	7.4	9.2	12.9	10.7	11.7	16.1	13.4	14.6
18	2.8	1.6	2.2	11.3	8.2	9.9	13.3	10.9	11.9	15.2	14.3	14.8
19	3.1	2.1	2.6	11.0	9.1	10.1	13.3	11.1	12.1	15.2	13.8	14.3
20	3.3	2.7	3.0	9.9	7.6	8.9	12.6	11.2	11.9	15.2	13.4	14.3
21	3.3	2.5	2.9	9.8	6.6	8.3	12.8	11.4	12.1	16.4	14.2	15.2
22	3.9	2.3	3.1	10.4	7.0	8.8	12.3	10.8	11.5	16.2	14.7	15.4
23	3.5	1.8	2.6	10.1	8.0	9.3	11.3	10.2	10.8	14.7	13.3	14.1
24	3.1	1.6	---	10.9	8.1	9.6	12.4	10.1	11.1	13.7	13.0	13.3
25	3.8	1.7	2.8	10.5	7.6	9.3	12.6	10.6	11.6	13.9	12.3	13.1
26	4.0	1.9	3.0	10.0	8.2	9.2	13.5	10.9	12.1	14.2	13.0	13.6
27	3.7	2.0	3.0	10.5	7.8	9.2	13.7	11.7	12.7	15.4	13.5	14.4
28	5.7	3.0	4.3	11.1	7.6	9.5	14.1	12.0	12.9	16.2	15.0	15.6
29	---	---	---	11.6	7.9	9.9	12.9	11.5	12.1	16.0	15.1	15.6
30	---	---	---	11.6	8.7	---	11.5	10.2	10.6	15.2	14.2	14.7
31	---	---	---	11.9	9.8	11.0	---	---	---	14.8	13.5	14.2
Month	5.7	-0.2	---	11.9	3.5	---	14.5	6.7	11.1	16.4	9.2	13.5

09180500 COLORADO RIVER NEAR CISCO, UT—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	14.8	13.6	14.2	22.9	21.3	22.0	25.6	24.2	24.9	21.3	18.4	19.9
2	15.2	13.6	14.4	23.0	20.9	21.8	25.2	23.9	24.5	21.7	18.2	20.0
3	15.8	14.1	14.9	22.7	21.0	21.7	25.5	23.2	24.2	22.6	18.6	20.6
4	16.3	14.8	15.6	22.0	20.4	21.2	25.0	23.2	24.0	22.8	19.2	21.1
5	17.6	15.7	16.6	22.2	19.5	20.8	24.0	22.6	23.3	22.2	19.3	20.9
6	18.1	16.9	17.5	22.5	19.7	21.0	24.3	22.2	23.0	21.5	18.5	20.1
7	17.7	16.5	17.2	22.5	20.7	21.5	22.8	21.4	22.1	20.3	17.7	19.2
8	17.5	16.4	16.9	23.1	20.7	21.8	23.8	21.3	22.3	19.1	17.4	18.3
9	17.4	16.2	16.8	24.1	21.1	22.4	24.1	21.9	22.9	19.6	17.3	18.4
10	17.3	16.4	16.7	24.1	21.5	22.6	23.5	21.7	22.5	18.6	17.0	17.9
11	16.5	15.6	16.1	24.6	21.9	23.0	23.5	21.3	22.3	19.0	16.4	17.6
12	15.8	14.8	15.4	24.9	21.9	23.2	23.4	21.1	22.2	18.9	16.1	17.5
13	14.8	14.0	14.3	24.6	22.2	23.3	23.3	20.7	21.9	19.5	16.5	18.0
14	14.9	13.5	14.2	25.6	22.6	23.9	23.2	20.5	21.8	19.8	16.8	18.3
15	16.0	14.3	15.1	26.4	23.1	24.6	23.6	20.5	22.0	20.1	17.4	18.8
16	16.9	15.6	16.3	26.8	23.5	25.1	23.1	21.0	22.1	20.3	17.4	18.9
17	17.4	15.6	16.6	26.9	23.4	25.1	23.8	20.8	22.3	20.5	17.4	19.0
18	18.4	16.6	17.5	27.6	23.9	25.7	23.0	21.2	22.1	20.3	17.4	19.0
19	18.7	17.2	18.0	27.6	23.6	25.8	22.9	21.2	22.0	20.4	17.2	18.9
20	18.9	17.6	18.3	27.5	24.6	26.0	23.6	20.8	22.0	20.1	17.6	19.0
21	18.8	17.6	18.2	26.3	24.1	25.2	23.6	21.3	22.3	20.2	17.5	18.9
22	18.9	17.6	18.3	27.0	24.0	25.5	22.4	21.4	22.0	19.3	17.5	18.4
23	19.4	17.8	18.5	26.6	23.7	25.3	23.4	21.1	22.0	19.4	16.9	18.1
24	20.2	18.5	19.2	27.1	23.8	25.4	23.0	20.4	21.6	19.0	16.7	17.8
25	20.1	18.8	19.3	27.4	23.8	25.6	23.8	20.5	22.0	19.1	16.8	17.9
26	21.1	19.3	20.0	27.4	24.0	25.7	24.1	20.9	22.4	19.2	16.6	17.8
27	21.8	20.0	20.7	27.6	24.0	25.8	24.0	21.1	22.6	19.5	16.8	18.1
28	22.5	20.1	21.1	27.2	24.4	25.9	23.1	21.5	22.3	19.7	17.0	18.3
29	23.1	20.7	21.7	26.9	24.5	25.7	22.0	20.0	21.1	19.5	17.0	18.2
30	23.1	21.0	21.9	27.5	24.2	25.8	21.2	19.4	20.3	19.4	16.7	18.1
31	---	---	---	26.9	24.8	25.9	21.3	18.8	20.0	---	---	---
Month	23.1	13.5	17.4	27.6	19.5	24.0	25.6	18.8	22.4	22.8	16.1	18.8

09180500 COLORADO RIVER NEAR CISCO, UT—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 1 of 2

[CaCO₃, calcium carbonate; SiO₂, silicon dioxide; ft, feet; ft³/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; μS/cm, microsiemens per centimeter]

Date	Discharge, instantaneous, ft ³ /s (00061)	pH, water, unfiltered, field, standard units (00400)	Specific conduc- tance, water, unfiltered, μS/cm at 25 °C (00095)	Tempera- ture, water, °C (00010)	Gage height, ft (00065)	Dissolved solids dried at 180 °C, water, filtered, mg/L (70300)	Dissolved solids, water, filtered, sum of constituen ts, milligrams per liter (70301)	Calcium, water, filtered, mg/L (00915)	Magne- sium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)
11-16-2009	3,460	8.5	1,310	5.8	2.32	854	804	104	34.6	4.36
03-22-2010	3,120	--	1,330	10.1	2.20	369	801	87.5	31.5	4.61
04-19-2010	11,300	--	515	13.2	5.36	320	302	45.7	12.9	3.04
05-19-2010	12,100	--	554	15.1	5.77	340	333	55.3	14.8	2.57
06-21-2010	12,300	--	528	18.7	6.02	320	315	53.6	12.9	2.01
07-23-2010	3,830	--	1,250	26.4	2.71	834	781	112	32.2	4.53
08-11-2010	4,670	--	1,060	22.5	3.08	706	683	107	27.2	3.80
09-29-2010	3,550	--	1,180	18.2	2.52	808	754	112	31.8	4.10

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 2 of 2

[CaCO₃, calcium carbonate; SiO₂, silicon dioxide; ft, feet; ft³/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; μS/cm, microsiemens per centimeter]

Date	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, mg/L as CaCO ₃ (29801)	Sodium, water, filtered, mg/L (00930)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Silica, water, filtered, mg/L as SiO ₂ (00955)	Sulfate, water, filtered, mg/L (00945)
11-16-2009	124	158	136	.39	7.65	297
03-22-2010	129	173	166	.35	9.07	269
04-19-2010	38.7	101	39.0	.18	8.86	92.5
05-19-2010	39.1	110	35.0	.24	10.3	110
06-21-2010	35.4	97	35.7	.23	8.86	108
07-23-2010	103	158	122	.42	8.76	303
08-11-2010	71.5	157	68.0	.40	12.2	299
09-29-2010	94.6	167	92.7	.45	9.76	309