

09180000 DOLORES RIVER NEAR CISCO, UT

Dolores River Basin

LOCATION.--Lat 38°47'50", long 109°11'40" referenced to North American Datum of 1927, in SW ¼ SE ¼ sec.18, T.23 S., R.25 E., Grand County, Hydrologic Unit 14030004, on left bank 0.2 mi downstream from Line Canyon, 9.1 mi upstream from mouth, 13.5 mi downstream from Colorado-Utah State line, and 13.9 mi southeast of Cisco.

DRAINAGE AREA.--4,580 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1950 to current year. Monthly discharge only for some periods, published in WSP 1733.

REVISED RECORDS.--WDR UT-75-1: 1974.

GAGE.--Water-stage recorder. Elevation of gage is 4,165 ft above NGVD of 1929, from river-profile map. December 6, 1950 to April 18, 1967, at site 200 ft downstream at different datum; April 19, 1967 to September 3, 1975 at site 10 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by McPhee Reservoir, capacity 381,000 acre-ft, since 1986. Many diversions for irrigation above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,400 ft³/s, Apr 21, 1958, gage height, 9.84 ft at different datum; minimum daily discharge, 1.5 ft³/s, Jul 21, 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 18	1715	5,020	11.15
May 26	0130	*9,420	*13.16

Minimum daily discharge, 104 ft³/s, Dec 26.

0918000 DOLORES RIVER NEAR CISCO, UT—Continued

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

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	397	226	183	e170	201	258	511	e2,600	2,770	1,120	264	141
2	349	205	166	e173	189	246	464	e2,560	2,520	975	286	130
3	310	190	171	e165	180	250	496	e2,550	2,550	880	382	122
4	271	173	173	e163	170	247	648	e2,600	2,620	874	494	133
5	221	179	190	e170	168	233	925	e2,800	2,280	770	337	127
6	213	176	205	174	169	210	1,030	e2,840	2,020	713	331	166
7	365	169	209	166	182	211	1,090	e2,930	1,890	675	305	175
8	248	165	167	147	185	215	1,520	e3,000	1,720	646	349	164
9	212	183	170	143	181	236	2,410	e3,300	1,570	610	437	300
10	190	184	158	e160	171	296	2,600	e3,600	1,600	565	324	376
11	182	202	172	e170	164	391	1,770	e3,500	1,540	567	370	422
12	176	194	162	e200	181	563	1,320	e3,460	1,410	526	462	328
13	171	184	162	e260	212	715	1,280	e3,600	1,400	505	474	210
14	167	191	153	e180	232	789	1,830	e3,800	1,360	491	405	187
15	164	194	150	e190	273	798	2,830	e3,900	1,320	535	334	167
16	165	179	147	e200	304	692	3,430	e4,200	1,280	542	299	158
17	161	174	153	211	284	566	3,770	e4,800	1,350	504	285	157
18	156	179	168	201	271	523	4,340	e4,970	1,620	441	415	143
19	155	170	162	200	272	483	4,330	e4,870	2,150	417	311	140
20	155	180	172	199	321	458	3,800	e5,100	2,050	405	251	128
21	158	183	178	195	333	462	3,020	6,090	1,900	e330	228	134
22	157	185	182	183	374	441	2,410	7,060	1,890	312	212	131
23	160	186	195	189	359	414	2,340	7,650	1,970	296	194	146
24	163	185	120	186	363	427	2,920	8,670	1,950	313	191	157
25	164	195	128	188	340	454	3,620	9,020	1,960	548	183	171
26	168	178	104	192	319	491	3,490	9,030	1,870	464	173	147
27	168	200	138	211	296	449	e3,000	8,650	1,590	631	161	134
28	186	229	156	229	272	413	e2,700	7,770	1,370	464	183	200
29	233	215	171	226	---	462	e2,600	5,820	1,340	369	174	378
30	336	204	e200	222	---	588	e2,350	3,670	1,300	306	168	226
31	296	---	e280	221	---	565	---	3,200	---	278	150	---
Total	6,617	5,657	5,245	5,884	6,966	13,546	68,844	147,610	54,160	17,072	9,132	5,698
Mean	213	189	169	190	249	437	2,295	4,762	1,805	551	295	190
Max	397	229	280	260	374	798	4,340	9,030	2,770	1,120	494	422
Min	155	165	104	143	164	210	464	2,550	1,280	278	150	122
Ac-ft	13,120	11,220	10,400	11,670	13,820	26,870	136,600	292,800	107,400	33,860	18,110	11,300

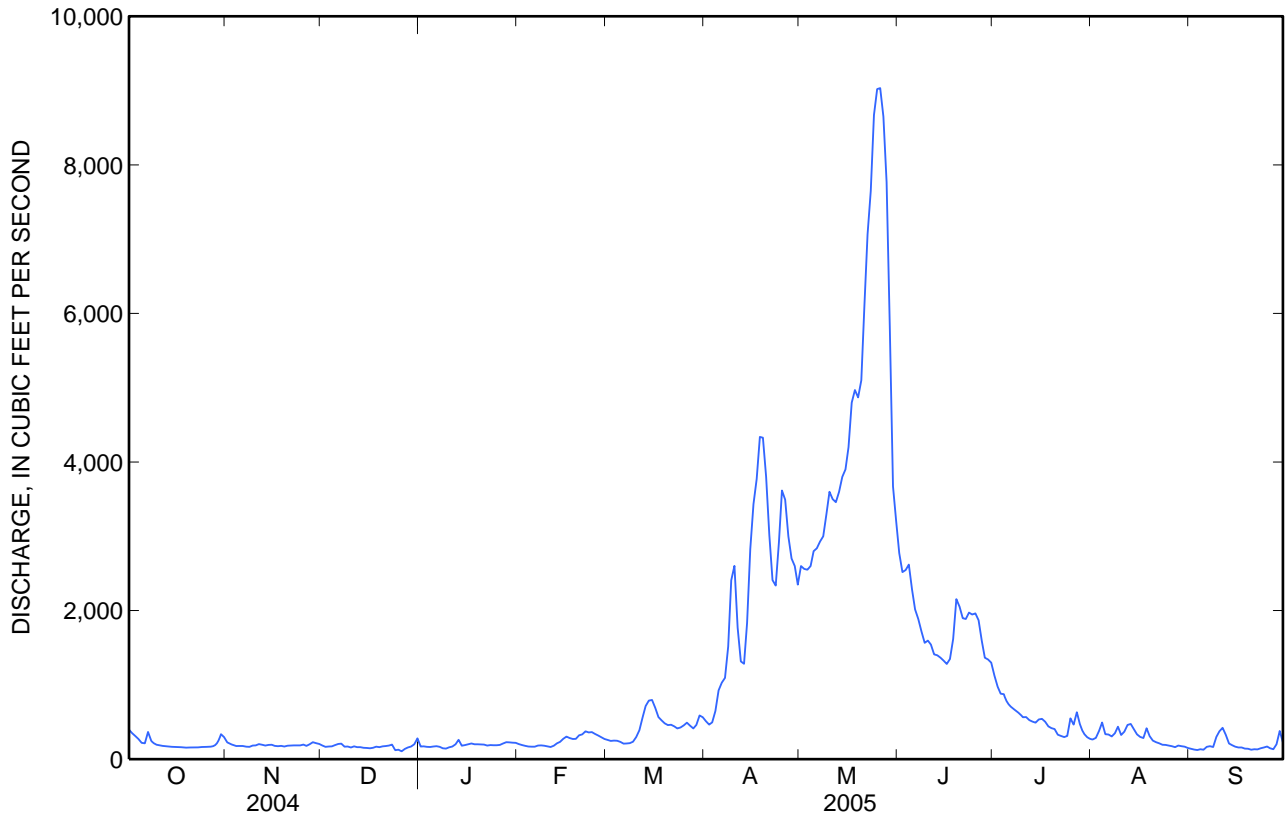
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	234	232	191	167	214	425	1,585	2,536	1,410	474	276	236
Max	617	894	606	370	518	1,037	5,338	8,803	3,895	1,827	917	779
(WY)	(1987)	(1987)	(1987)	(1987)	(1987)	(1997)	(1993)	(1993)	(1995)	(1995)	(1999)	(1999)
Min	112	115	93.5	92.3	112	132	177	113	76.5	5.41	9.57	80.6
(WY)	(2002)	(2004)	(2003)	(2003)	(2003)	(2002)	(1990)	(2002)	(2002)	(2002)	(2002)	(1989)

0918000 DOLORES RIVER NEAR CISCO, UT—Continued

SUMMARY STATISTICS

	Calendar Year 2004		Water Year 2005		Water Years 1987 - 2005	
Annual total	116,005		346,431			
Annual mean	317		949		666	
Highest annual mean					1,768	1993
Lowest annual mean					107	2002
Highest daily mean	1,340	Mar 26	9,030	May 26	12,900	May 18, 1993
Lowest daily mean	70	Sep 3	104	Dec 26	1.5	Jul 21, 2002
Annual seven-day minimum	73	Aug 29	138	Aug 31	1.7	Jul 16, 2002
Annual runoff (ac-ft)	230,100		687,100		482,600	
10 percent exceeds	754		2,830		1,700	
50 percent exceeds	180		280		223	
90 percent exceeds	113		161		106	





Water-Data Report UT-2005

09180500 COLORADO RIVER NEAR CISCO, UT

Colorado River Basin

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, Hydrologic Unit 14030005, on left bank 1 mi downstream from Dolores River, 11 mi south of Cisco, 36 mi downstream from Colorado-Utah State line, 97 mi upstream from Green River, and 235 mi upstream from San Juan River, at mile 1,022.3 from Arizona-Sonora.

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

WATER-DISCHARGE 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. 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)
May 25	0615	*40,200	*13.72

Minimum discharge, 1,960 ft³/s, Dec 25.

09180500 COLORADO RIVER NEAR CISCO, UT—Continued

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

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4,280	3,750	2,630	3,420	2,910	3,210	4,370	11,300	e20,000	14,100	3,850	3,030
2	4,930	3,640	2,270	2,920	2,860	3,150	4,020	10,900	18,200	12,900	3,860	2,990
3	4,800	3,540	2,310	2,760	2,710	3,080	4,180	10,500	18,100	12,300	4,120	2,970
4	4,740	3,370	2,110	2,650	2,610	3,110	4,360	10,300	20,600	12,000	4,310	3,120
5	4,770	3,480	2,220	2,660	2,600	3,130	4,670	10,300	19,700	11,000	4,110	3,250
6	4,840	3,830	2,830	2,740	2,680	3,090	4,990	10,800	17,500	10,300	4,410	3,280
7	5,070	3,490	2,930	2,720	2,750	3,120	5,090	11,800	16,200	9,570	4,720	3,280
8	4,500	3,380	2,960	2,610	2,800	3,170	5,740	13,200	15,700	8,920	4,340	3,210
9	4,040	3,580	2,930	2,560	2,780	3,250	7,570	13,800	15,200	8,230	4,270	3,720
10	3,610	3,380	2,860	3,060	2,820	3,280	8,230	13,900	15,100	7,820	3,890	5,100
11	3,530	3,380	2,970	4,230	2,850	3,390	7,480	15,200	16,100	7,560	4,210	4,860
12	3,540	3,460	2,910	6,450	3,060	3,490	6,620	16,400	15,700	6,940	4,660	4,570
13	3,480	3,350	2,800	5,520	3,170	3,620	6,150	15,300	16,000	6,360	4,570	4,130
14	3,340	3,510	2,760	3,900	3,260	3,760	6,570	14,300	15,000	6,050	4,460	3,890
15	3,430	3,490	2,740	3,220	3,250	3,880	7,860	14,300	13,600	6,020	4,130	3,770
16	3,470	3,400	2,680	3,050	3,330	3,670	9,630	14,900	13,300	6,060	4,240	3,760
17	3,320	3,340	2,670	3,030	3,290	e3,750	11,000	16,900	14,500	5,800	4,070	3,690
18	3,380	3,300	2,660	3,030	3,290	e4,100	12,700	20,600	16,100	5,580	4,180	3,610
19	3,570	3,190	2,450	3,110	3,240	4,090	14,300	21,100	17,900	5,340	3,990	3,540
20	3,530	3,080	2,420	2,990	3,390	4,040	14,300	21,600	19,000	4,960	3,770	3,460
21	3,390	3,030	2,360	3,000	3,590	4,180	13,800	26,000	18,600	4,660	3,700	3,730
22	3,500	3,090	2,400	3,000	3,570	4,100	11,500	31,800	18,100	4,420	3,590	4,600
23	3,400	3,150	2,370	2,980	3,570	3,870	10,200	35,900	18,900	4,180	3,570	4,070
24	3,400	3,050	2,120	2,950	3,580	3,950	10,000	38,400	19,500	4,180	3,440	4,150
25	3,450	3,000	1,960	2,910	3,460	4,210	e11,500	39,500	19,400	4,910	3,510	4,060
26	3,490	2,960	2,150	2,890	3,310	4,330	e13,900	38,600	18,100	5,920	3,540	3,880
27	3,580	3,110	2,280	3,000	3,280	4,230	e12,700	36,200	17,600	6,600	3,500	3,740
28	3,500	3,220	2,580	3,180	3,280	4,080	12,300	32,600	15,700	6,200	3,620	5,590
29	4,090	3,180	2,850	3,210	---	4,070	11,900	28,400	14,500	5,270	3,590	6,400
30	4,160	3,050	3,610	3,080	---	4,300	11,500	24,000	15,100	4,520	3,430	6,210
31	3,950	---	4,600	3,000	---	4,400	---	e22,600	---	4,060	3,210	---
Total	120,080	99,780	82,390	99,830	87,290	115,100	269,130	641,400	509,000	222,730	122,860	119,660
Mean	3,874	3,326	2,658	3,220	3,118	3,713	8,971	20,690	16,970	7,185	3,963	3,989
Max	5,070	3,830	4,600	6,450	3,590	4,400	14,300	39,500	20,600	14,100	4,720	6,400
Min	3,320	2,960	1,960	2,560	2,600	3,080	4,020	10,300	13,300	4,060	3,210	2,970
Ac-ft	238,200	197,900	163,400	198,000	173,100	228,300	533,800	1,272,000	1,010,000	441,800	243,700	237,300

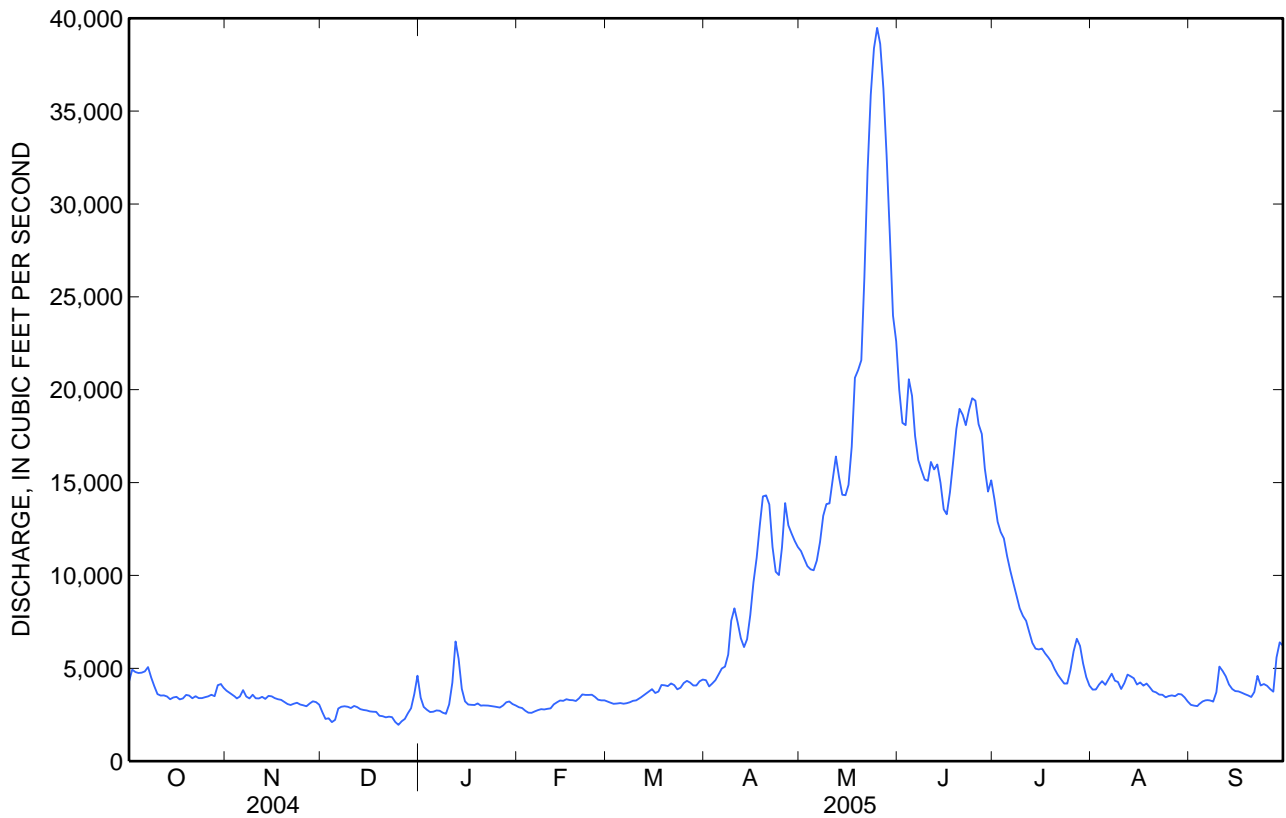
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3,999	3,811	3,280	3,083	3,238	3,800	8,159	18,940	21,470	8,800	4,268	3,718
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)

09180500 COLORADO RIVER NEAR CISCO, UT—Continued

SUMMARY STATISTICS

	Calendar Year 2004		Water Year 2005		Water Years 1914 - 2005	
Annual total	1,333,570		2,489,250			
Annual mean	3,644		6,820		7,221	
Highest annual mean					14,930	1984
Lowest annual mean					2,557	2002
Highest daily mean	10,400	May 12	39,500	May 25	73,200	Jun 19, 1917
Lowest daily mean	1,730	Jan 7	1,960	Dec 25	640	Jul 21, 1934
Annual seven-day minimum	1,820	Jan 7	2,230	Dec 21	736	Jul 15, 1934
Annual runoff (ac-ft)	2,645,000		4,937,000		5,231,000	
10 percent exceeds	6,060		15,700		18,000	
50 percent exceeds	3,100		3,880		3,840	
90 percent exceeds	2,210		2,830		2,240	



09180500 COLORADO RIVER NEAR CISCO, UT—Continued**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 district office. Temperature data was taken during October 23 to June 14, but was later deemed invalid.

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, 0.0°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 observed, 1,500 microsiemens/cm, Dec 25, 28; minimum observed, 330 microsiemens/cm, May 27.

WATER TEMPERATURE: Maximum observed, 27.0°C, Jul 21-24, Aug 2, Sep 7; minimum observed, 2.0°C, Dec 16 (may be lower in Dec and Jan when data was unavailable).

WATER-QUALITY DATA
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Residue on evap. at 180degC wat flt mg/L (70300)
Nov								
15...	0915	2.59	3,570	8.3	1,200	6.0	8.0	775
Dec								
16...	0900	2.17	2,730	8.3	1,280	.0	2.0	822
Mar								
17...	0830	2.73	3,740	8.4	940	3.0	6.0	603
Apr								
26...	0900	6.76	14,000	8.0	430	14.0	10.5	263
May								
31...	0830	9.04	22,400	8.3	390	18.5	15.0	235
Jul								
12...	0750	4.09	6,810	8.3	730	23.0	22.0	452
Aug								
22...	0735	2.62	3,540	8.3	1,130	18.5	21.0	735

09180500 COLORADO RIVER NEAR CISCO, UT—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY INSTANTANEOUS VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	1,280	1,030	1,210	1,120	940	590	435	---	---	1,110
2	---	---	---	1,180	1,200	1,130	---	610	---	520	---	1,120
3	1,090	1,220	1,370	1,250	1,180	1,100	930	630	---	---	---	1,160
4	1,060	1,210	1,450	1,250	1,200	1,100	940	650	450	550	---	1,140
5	1,070	1,220	1,480	1,280	1,220	1,110	900	640	465	560	---	1,200
6	1,020	1,220	1,470	1,310	1,230	1,110	840	650	495	590	---	1,210
7	980	1,150	1,460	1,310	1,220	1,100	780	620	510	620	---	1,190
8	990	1,200	1,370	1,310	1,240	1,100	---	590	510	640	---	1,160
9	1,030	1,240	1,320	1,330	1,240	1,050	740	590	500	660	---	1,230
10	1,080	1,190	1,270	1,300	1,200	1,100	640	---	500	680	---	1,290
11	1,150	1,230	1,260	1,240	1,190	1,070	670	540	500	700	---	1,180
12	1,180	1,280	1,250	---	1,150	1,040	670	520	540	720	---	1,160
13	1,200	1,260	1,280	1,060	1,130	1,000	690	530	570	740	---	1,090
14	1,190	1,220	1,260	1,030	1,120	980	680	550	580	790	---	1,070
15	1,190	1,200	1,290	1,100	1,150	960	650	550	590	800	---	1,090
16	1,190	1,170	1,300	1,220	1,100	970	630	550	590	---	---	1,100
17	1,180	1,180	1,310	1,180	1,090	980	600	530	570	800	---	1,110
18	1,180	1,190	1,290	1,210	1,080	940	570	500	520	810	---	1,120
19	1,210	1,180	1,310	1,220	1,080	900	530	460	475	820	1,040	1,150
20	1,210	1,150	1,310	1,210	1,060	890	500	450	445	840	1,050	1,110
21	1,190	1,160	1,280	1,210	1,070	---	470	430	430	850	1,080	1,130
22	1,210	1,190	1,330	1,200	1,080	910	490	390	430	900	1,070	---
23	1,230	1,240	1,320	1,210	1,110	920	520	360	---	930	1,090	1,160
24	1,230	1,220	1,430	1,180	1,110	900	540	---	430	970	1,080	1,160
25	1,240	1,240	1,500	1,200	1,090	930	540	340	430	980	1,110	1,150
26	1,240	1,230	1,490	1,200	1,100	910	530	---	440	980	1,080	1,190
27	1,240	1,240	1,480	1,200	1,110	920	---	330	460	1,000	1,100	1,150
28	1,220	1,210	1,500	1,190	1,100	940	540	---	485	---	1,100	1,080
29	1,210	1,260	1,430	1,190	---	930	---	400	500	990	1,080	1,140
30	1,180	1,270	1,300	1,180	---	940	570	420	500	910	1,120	1,210
31	1,200	---	---	1,180	---	910	---	---	---	960	---	---
Mean	1,160	1,210	1,360	1,210	1,140	999	658	516	494	789	1,080	1,150
Max	1,240	1,280	1,500	1,330	1,240	1,130	940	650	590	1,000	1,120	1,290
Min	980	1,150	1,250	1,030	1,060	890	470	330	430	520	1,040	1,070

09180500 COLORADO RIVER NEAR CISCO, UT—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY INSTANTANEOUS VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	---	---	---	26.0	23.0
2	---	---	---	---	---	---	---	---	---	20.0	27.0	22.0
3	17.0	---	---	---	---	---	---	---	---	---	---	22.0
4	17.0	---	---	---	---	---	---	---	---	19.0	24.0	22.0
5	17.0	---	---	---	---	---	---	---	---	19.0	24.0	23.0
6	17.0	---	---	---	---	---	---	---	---	20.0	25.0	25.0
7	17.0	---	---	---	---	---	---	---	---	21.0	25.0	27.0
8	17.0	---	---	---	---	---	---	---	---	22.0	25.0	24.0
9	17.0	---	---	---	---	---	---	---	---	23.0	25.0	21.0
10	17.0	---	---	---	---	---	---	---	---	23.0	26.0	20.0
11	17.0	---	---	---	---	---	---	---	---	23.0	25.0	20.0
12	16.0	---	---	---	---	---	---	---	---	24.0	25.0	19.0
13	15.0	---	---	---	---	---	---	---	---	24.0	25.0	20.0
14	15.0	---	---	---	---	---	---	---	---	25.0	---	19.0
15	16.0	---	---	---	---	---	---	---	19.0	25.0	25.0	19.0
16	15.0	---	---	---	---	---	---	---	19.0	---	24.0	19.0
17	14.0	---	---	---	---	---	---	---	19.0	26.0	24.0	19.0
18	14.0	---	---	---	---	---	---	---	18.0	26.0	24.0	18.0
19	14.0	---	---	---	---	---	---	---	19.0	26.0	24.0	18.0
20	14.0	---	---	---	---	---	---	---	19.0	26.0	23.0	19.0
21	14.0	---	---	---	---	---	---	---	19.0	27.0	24.0	19.0
22	14.0	---	---	---	---	---	---	---	19.0	27.0	24.0	---
23	---	---	---	---	---	---	---	---	---	27.0	24.0	19.0
24	---	---	---	---	---	---	---	---	19.0	27.0	24.0	19.0
25	---	---	---	---	---	---	---	---	18.0	25.0	24.0	18.0
26	---	---	---	---	---	---	---	---	18.0	26.0	24.0	19.0
27	---	---	---	---	---	---	---	---	19.0	24.0	24.0	19.0
28	---	---	---	---	---	---	---	---	19.0	---	24.0	18.0
29	---	---	---	---	---	---	---	---	19.0	25.0	23.0	18.0
30	---	---	---	---	---	---	---	---	19.0	25.0	23.0	18.0
31	---	---	---	---	---	---	---	---	---	25.0	---	---
Mean	15.7	---	---	---	---	---	---	---	18.8	24.1	24.4	20.2
Max	17.0	---	---	---	---	---	---	---	19.0	27.0	27.0	27.0
Min	14.0	---	---	---	---	---	---	---	18.0	19.0	23.0	18.0



Water-Data Report UT-2005

09182400 CASTLE CREEK BELOW CASTLE VALLEY, NEAR MOAB, UT

Colorado River Basin

LOCATION.--Lat 38°40'26", long 109°26'58" referenced to North American Datum of 1927, in SE ¼ SW ¼ NE ¼ sec.35, T.24 S., R.22 E., Grand County, Hydrologic Unit 14030005, a tributary between Dolores River and Green River, on left bank and 16.5 mi northwest of Moab.

DRAINAGE AREA.--58.1 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 4,120 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair, except for estimated daily discharges, which are poor. Small diversions for irrigation are above and below the station. This year there were several more peaks over the base but the gage height and discharge could not be determined due to problems with the orifice.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 321 ft³/s, Sep 13, 1997, gage height, 7.46 ft; minimum daily discharge, 2.9 ft³/s, Jul 31, Sep 2, 3, 2004.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 9	0715	*319	*7.90

Minimum daily discharge, 3.2 ft³/s, Oct 20, 21.

09182400 CASTLE CREEK BELOW CASTLE VALLEY, NEAR MOAB, UT—Continued

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

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3.4	3.8	5.3	e6.1	e5.5	5.2	5.3	3.8	7.4	7.7	e9.1	4.1
2	3.4	4.2	5.3	e6.1	e5.4	5.2	5.5	3.8	7.6	7.4	e5.6	3.9
3	3.4	3.6	5.2	e6.0	e5.5	5.2	5.6	3.8	9.1	6.0	e4.7	4.1
4	3.3	3.6	5.3	e5.9	e5.4	5.3	5.6	3.8	10	5.3	e4.6	4.1
5	3.5	3.6	5.7	e6.0	e5.4	5.1	5.7	3.7	8.5	5.0	e4.6	4.3
6	3.5	3.6	5.6	e5.9	e5.3	5.1	5.7	3.7	7.2	4.9	e4.4	4.1
7	3.5	3.7	5.6	e5.8	e5.4	5.1	5.6	3.9	5.9	5.0	e4.4	4.0
8	3.5	3.8	5.7	e5.7	e5.4	5.1	5.6	4.0	5.7	4.8	e4.5	4.4
9	3.5	5.7	5.5	e5.7	e5.3	5.0	5.7	4.0	5.8	4.8	e4.5	e7.0
10	3.5	4.0	5.2	e5.6	e5.3	5.0	4.9	4.1	5.9	4.6	e7.0	e12
11	3.3	3.8	5.5	e5.6	e5.3	5.1	4.7	4.2	7.7	4.7	e5.2	e6.6
12	3.4	4.0	5.5	e5.6	e5.2	4.8	4.5	4.0	7.8	4.5	e4.3	e6.2
13	3.4	4.0	5.7	e5.5	e5.3	5.0	4.5	3.8	6.9	e4.6	e4.4	e6.0
14	3.3	4.1	5.6	e5.6	e5.3	5.0	4.4	4.1	5.9	e4.5	e4.3	e5.9
15	3.4	4.4	5.6	e5.5	e5.2	5.0	4.4	3.8	5.7	e4.3	e4.3	e5.8
16	3.5	4.8	5.5	e5.5	e5.2	5.0	4.5	3.7	5.5	e4.3	e6.0	e5.7
17	3.4	4.8	5.7	e5.6	e5.3	4.6	4.3	3.7	6.1	e4.2	e4.8	e5.5
18	3.4	4.8	5.7	e5.5	e5.4	4.1	4.0	3.8	6.1	e4.0	e4.4	e5.3
19	3.3	4.9	5.8	e5.5	e5.3	4.4	3.9	4.0	5.9	e4.0	3.8	e5.2
20	3.2	5.1	5.8	e5.4	e5.2	4.6	3.8	4.0	5.6	e4.1	4.1	e5.1
21	3.2	5.0	5.8	e5.5	e5.2	4.5	4.1	4.6	5.5	e4.2	4.1	e4.9
22	3.6	4.9	5.8	e5.5	e5.2	4.4	3.9	6.1	5.6	e4.3	4.1	e4.7
23	3.5	4.9	5.8	e5.4	e5.3	4.6	3.9	7.5	7.2	e4.4	4.1	e4.6
24	3.5	4.9	5.7	e5.5	e5.3	4.7	4.3	8.6	8.0	e4.4	4.1	e4.5
25	3.7	5.0	5.8	e5.5	e5.2	5.9	4.5	10	7.1	e8.8	4.0	e4.6
26	3.7	5.1	5.9	e5.6	e5.3	6.6	4.5	12	7.0	e5.2	4.0	e4.6
27	3.8	5.2	6.2	e5.7	e5.3	5.8	3.9	12	6.8	e4.9	3.8	e4.7
28	4.7	5.7	6.8	e5.6	e5.3	6.0	3.9	10	7.1	e4.8	4.0	e15
29	4.2	5.3	e7.0	e5.6	---	5.4	3.8	9.9	7.2	e4.7	4.0	e10
30	3.7	5.3	6.6	e5.5	---	5.6	3.7	10	6.9	e4.6	3.9	e6.6
31	3.5	---	6.2	e5.6	---	5.3	---	8.6	---	e4.5	3.8	---
Total	109.2	135.6	178.4	175.1	148.7	157.7	138.7	177.0	204.7	153.5	142.9	173.5
Mean	3.52	4.52	5.75	5.65	5.31	5.09	4.62	5.71	6.82	4.95	4.61	5.78
Max	4.7	5.7	7.0	6.1	5.5	6.6	5.7	12	10	8.8	9.1	15
Min	3.2	3.6	5.2	5.4	5.2	4.1	3.7	3.7	5.5	4.0	3.8	3.9
Ac-ft	217	269	354	347	295	313	275	351	406	304	283	344

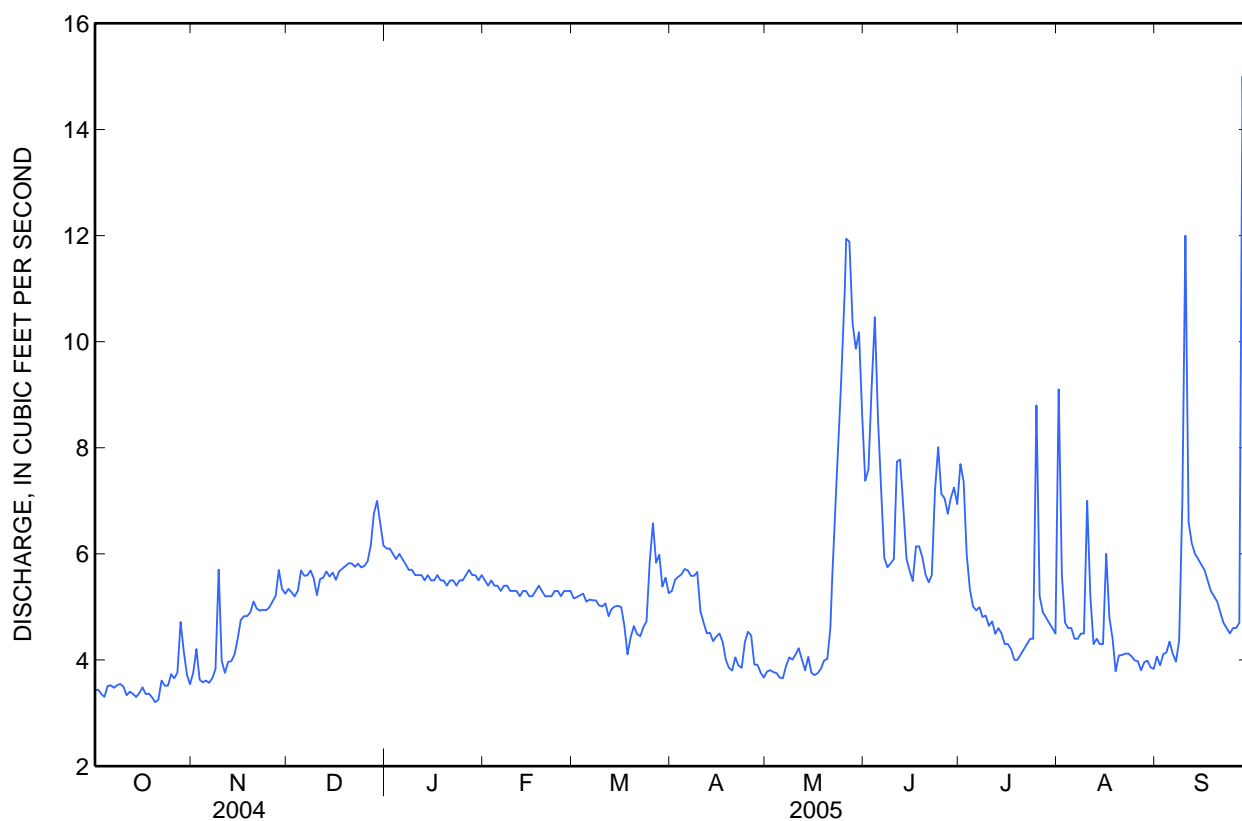
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	5.88	7.09	7.08	6.93	6.81	6.77	5.87	5.99	6.22	4.98	4.57	5.17
Max	8.33	8.95	8.36	8.53	8.37	8.77	8.43	17.2	15.4	9.85	6.72	7.50
(WY)	(1998)	(1998)	(1996)	(1993)	(1998)	(1998)	(1993)	(1993)	(1993)	(1995)	(1997)	(1997)
Min	3.52	4.52	5.75	5.64	5.31	5.06	4.07	3.80	3.24	3.31	3.32	3.17
(WY)	(2005)	(2005)	(2005)	(1999)	(2005)	(2003)	(2003)	(2004)	(2004)	(1994)	(2004)	(2004)

09182400 CASTLE CREEK BELOW CASTLE VALLEY, NEAR MOAB, UT—Continued

SUMMARY STATISTICS

	Calendar Year 2004		Water Year 2005		Water Years 1992 - 2005	
Annual total	1,639.6		1,895.0			
Annual mean	4.48		5.19		6.09	
Highest annual mean					8.84	1993
Lowest annual mean					4.75	2004
Highest daily mean	7.8	Jan 2	15	Sep 28	34	May 27, 1993
Lowest daily mean	2.9	Jul 31	3.2	Oct 20	2.9	Jul 31, 2004
Annual seven-day minimum	3.0	Jul 29	3.3	Oct 15	3.0	Jul 29, 2004
Annual runoff (ac-ft)	3,250		3,760		4,410	
10 percent exceeds	6.4		6.8		8.3	
50 percent exceeds	3.8		5.1		6.0	
90 percent exceeds	3.1		3.7		3.7	



09183500 MILL CREEK AT SHELEY TUNNEL, NEAR MOAB, UT

Colorado River Basin

LOCATION.--Lat 38°28'59", long 109°24'12" referenced to North American Datum of 1927, in NW ¼ NW ¼ SW ¼ sec.4, T.27 S., R.23 E., San Juan County, Hydrologic Unit 14030005, a tributary between Dolores River and Green River, on the left bank 1,000 ft above Sheley Tunnel, and 9 mi southeast of Moab.

DRAINAGE AREA.--26.8 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1954 to September 1959, October 1987 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,500 ft above NGVD of 1929, from a topographic map. Prior to October 1, 1987 at different site and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Small diversion for irrigation above the station. Sheley Tunnel, which diverts water from Mill Creek for K. E. McDougald Reservoir, is located 1,000 ft below the gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,080 ft³/s, Aug 8, 1993, gage height, 7.66 ft from floodmarks, from rating curve extended above 340 ft³/s, on basis of slope-area measurement of peak flow; minimum recorded, 2.1 ft³/s, Apr 5, 1955 and Aug 26, 27, 28, 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 90 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 25	0200	111	3.34
Jul 25	1800	*297	*4.43
Aug 10	1445	99	3.24
Aug 16	0515	190	3.87

Minimum daily discharge, 3.7 ft³/s, Feb 2.

09183500 MILL CREEK AT SHELEY TUNNEL, NEAR MOAB, UT—Continued

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

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	6.9	5.9	e4.1	4.7	3.9	4.0	4.9	17	75	48	14	9.5
2	6.7	5.3	e4.3	4.5	3.7	3.9	5.2	16	74	46	14	9.5
3	6.6	6.1	e4.5	4.4	3.8	4.0	6.0	16	80	44	14	9.6
4	6.5	6.1	e4.7	4.5	4.0	4.0	7.3	18	73	40	14	9.6
5	6.6	6.0	4.7	4.5	4.2	4.0	7.0	21	67	35	13	9.6
6	6.6	6.0	5.1	4.4	4.1	4.0	7.0	30	62	33	13	9.4
7	6.6	5.9	5.1	4.3	4.3	4.2	8.2	27	62	32	13	9.3
8	6.5	6.3	5.2	4.4	4.2	4.3	10	25	60	31	13	13
9	6.5	e14	5.1	4.4	4.1	4.4	9.6	31	60	30	12	13
10	6.3	6.5	5.0	4.8	4.2	4.6	9.0	37	57	29	19	14
11	6.2	6.1	5.0	5.7	4.1	4.7	8.0	33	55	27	16	8.9
12	6.0	5.8	5.0	4.7	4.3	4.9	8.0	27	56	26	15	8.8
13	5.9	6.0	5.0	3.9	4.2	5.0	8.8	26	51	25	14	8.7
14	5.9	5.7	4.9	4.1	4.1	4.8	10	33	48	24	14	8.7
15	5.9	5.6	4.8	4.4	4.1	4.6	13	38	49	24	12	8.3
16	5.8	5.6	4.7	4.4	4.1	4.8	18	50	60	23	e20	8.4
17	5.8	5.6	4.8	4.4	3.9	4.8	23	56	65	23	e12	8.3
18	5.9	5.5	4.7	4.3	3.9	4.6	25	57	69	22	e14	8.4
19	5.8	5.3	4.7	4.3	4.1	4.5	25	62	67	22	13	8.3
20	5.6	5.3	4.7	4.4	4.1	4.7	22	76	65	21	12	8.2
21	5.6	5.3	4.7	4.4	3.9	4.6	17	90	63	21	12	8.2
22	6.6	5.3	e4.4	4.4	4.0	4.6	17	96	72	20	12	8.6
23	6.4	5.3	e4.3	4.4	4.0	4.7	19	102	81	19	12	8.4
24	6.6	5.2	e4.2	4.4	3.9	4.8	28	102	75	20	11	8.2
25	6.6	5.3	e4.3	4.2	3.9	5.2	24	104	71	31	11	8.1
26	6.5	5.3	4.7	4.3	4.1	8.0	21	101	65	18	11	7.8
27	6.5	5.2	4.7	4.5	3.9	5.2	21	94	61	16	11	7.1
28	9.4	5.3	4.6	4.4	4.0	5.2	19	91	58	15	11	7.6
29	6.6	4.3	5.4	4.3	---	6.3	18	95	54	15	10	7.3
30	6.3	e4.3	4.7	4.2	---	5.1	17	92	51	15	10	7.1
31	6.3	---	4.6	4.2	---	4.9	---	81	---	14	9.7	---
Total	198.0	175.4	146.7	137.2	113.1	147.4	436.0	1,744	1,906	809	401.7	269.9
Mean	6.39	5.85	4.73	4.43	4.04	4.75	14.5	56.3	63.5	26.1	13.0	9.00
Max	9.4	14	5.4	5.7	4.3	8.0	28	104	81	48	20	14
Min	5.6	4.3	4.1	3.9	3.7	3.9	4.9	16	48	14	9.7	7.1
Ac-ft	393	348	291	272	224	292	865	3,460	3,780	1,600	797	535

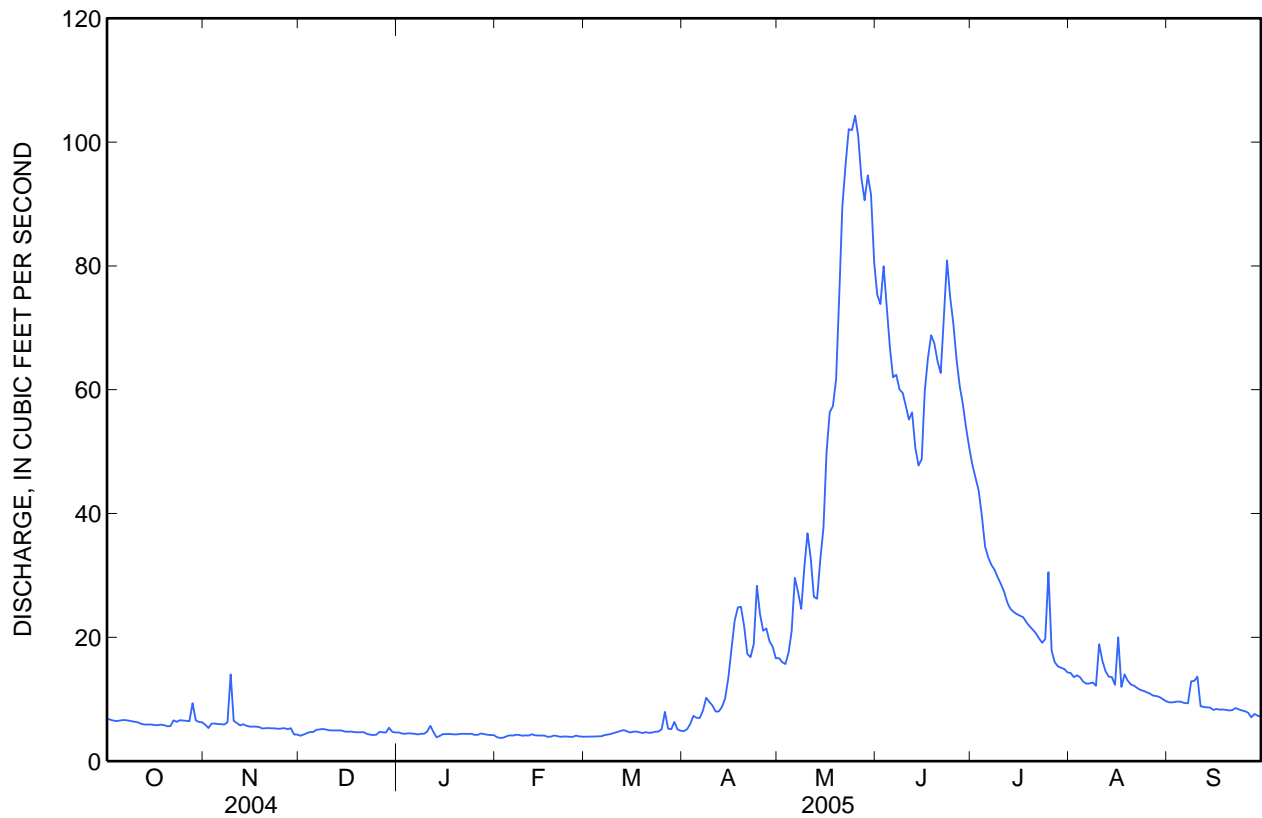
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955-59, 1988-2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	7.90	7.02	6.37	5.86	5.49	6.07	10.6	27.7	26.7	13.9	9.73	8.24
Max	15.4	15.6	11.0	8.82	8.06	9.43	22.2	70.5	67.9	40.7	18.7	13.5
(WY)	(1998)	(1988)	(1988)	(1988)	(1988)	(1988)	(1958)	(1958)	(1957)	(1995)	(1993)	(1993)
Min	3.63	3.63	3.71	3.66	3.59	3.85	5.42	6.54	4.40	2.78	2.48	3.92
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(1990)	(2002)	(2002)	(2002)	(2002)	(2002)

09183500 MILL CREEK AT SHELEY TUNNEL, NEAR MOAB, UT—Continued

SUMMARY STATISTICS

	Calendar Year 2004		Water Year 2005		Water Years 1955-59, 1988-2005	
Annual total	2,742.0		6,484.4			
Annual mean	7.49		17.8		11.3	
Highest annual mean					20.4	1993
Lowest annual mean					4.73	2002
Highest daily mean	27	May 11	104	May 25	141	May 27, 1993
Lowest daily mean	3.8	Feb 12	3.7	Feb 2	2.2	Aug 26, 2002
Annual seven-day minimum	4.0	Feb 7	4.0	Feb 21	2.3	Aug 23, 2002
Annual runoff (ac-ft)	5,440		12,860		8,200	
10 percent exceeds	15		57		22	
50 percent exceeds	5.9		7.0		7.2	
90 percent exceeds	4.1		4.2		4.5	





Water-Data Report UT-2005

09183600 MILL CREEK BELOW SHELEY TUNNEL, NEAR MOAB, UT

Colorado River Basin

LOCATION.--Lat 38°29'08.64", long 109°24'37.56" referenced to North American Datum of 1927, in NE ¼ SW ¼ NE ¼ sec.5, T.27 S., R.23 E., San Juan County, Hydrologic Unit 14030005, a tributary between Dolores River and Green River, on the left bank 600 ft below Sheley Tunnel, and 9 mi southeast of Moab.

DRAINAGE AREA.--27.6 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 2003 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,341 ft above NGVD of 1929, from GPS.

REMARKS.--Records good except for estimated daily discharges, which are poor. Sheley Tunnel, which diverts water from Mill Creek for K. E. McDougald Reservoir, is located 600 ft above the gage. All of the flow can be diverted through the tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 293 ft³/s, Jul 25, 2005, gage height, 4.66 ft; minimum daily discharge, 0.57 ft³/s, Mar 15, 2005.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 293 ft³/s, Jul 25, gage height, 4.66 ft; minimum daily discharge, 0.57 ft³/s, Mar 15.

09183600 MILL CREEK BELOW SHELEY TUNNEL, NEAR MOAB, UT—Continued

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

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3.4	4.0	e3.7	3.5	3.6	3.2	2.3	3.3	57	34	6.3	4.1
2	3.4	3.6	e4.0	3.5	3.6	3.1	3.1	3.3	53	32	6.2	4.1
3	3.4	3.6	e4.2	3.5	3.6	3.1	3.2	3.4	58	23	6.1	4.1
4	3.4	3.6	e4.3	3.5	3.6	3.1	3.0	3.5	52	12	6.2	4.1
5	3.4	3.5	4.3	3.5	3.6	2.0	2.8	3.7	48	8.9	6.1	4.1
6	3.4	3.5	4.3	3.5	3.6	0.59	2.6	5.4	46	6.4	6.1	4.0
7	3.6	3.5	4.4	3.5	3.6	1.4	2.7	5.3	46	6.5	6.0	4.0
8	3.6	3.5	4.5	3.5	3.6	3.7	2.8	5.1	41	6.6	5.9	3.9
9	3.5	14	4.5	3.5	3.6	3.7	2.7	5.8	33	6.6	5.9	4.4
10	3.5	5.7	4.5	3.5	3.6	3.6	2.7	13	31	6.6	5.0	4.5
11	3.5	3.9	4.5	3.6	3.6	3.5	3.0	6.3	32	6.6	3.6	4.0
12	3.4	3.9	4.5	3.5	3.6	3.5	2.9	6.2	32	6.6	3.6	4.3
13	3.4	3.8	4.5	3.5	3.6	2.4	3.0	5.4	31	6.6	3.5	4.3
14	3.2	3.6	4.0	3.5	3.6	0.76	2.8	4.2	34	5.4	3.5	4.3
15	2.8	3.6	3.6	3.6	3.7	0.57	2.6	3.5	35	4.7	3.5	4.3
16	3.0	3.6	3.6	3.6	3.7	1.0	2.7	5.4	31	4.7	13	4.3
17	3.0	3.6	3.7	3.6	3.6	2.7	2.9	18	29	4.7	2.9	4.3
18	4.1	3.5	3.7	3.6	3.7	2.7	4.8	10	29	4.7	2.5	4.3
19	3.9	3.5	3.7	3.5	3.7	2.7	5.0	8.4	32	4.7	3.2	4.3
20	3.4	3.6	3.7	3.6	3.7	2.7	4.0	24	34	4.7	4.3	4.3
21	3.5	3.6	3.7	3.6	3.6	2.5	4.1	51	36	4.7	4.2	4.3
22	3.5	3.5	3.7	3.6	3.6	3.0	4.0	55	50	4.7	4.1	4.3
23	3.6	3.5	e3.4	3.6	3.6	3.4	3.8	56	48	4.7	4.0	4.3
24	3.6	3.5	e3.0	3.6	3.7	3.4	2.8	48	37	4.7	3.8	4.3
25	3.6	3.5	e3.1	3.6	3.5	3.4	1.8	47	36	21	3.8	4.3
26	3.6	3.5	e3.2	3.6	3.3	3.3	2.5	36	35	15	3.8	4.3
27	3.6	3.4	3.3	3.7	3.3	2.3	4.2	33	39	7.6	3.7	4.2
28	5.2	3.6	3.5	3.6	3.2	3.0	4.1	27	41	6.5	3.6	4.2
29	4.9	e3.5	3.6	3.6	---	3.3	3.2	25	39	6.5	4.0	4.3
30	4.7	e2.7	3.5	3.7	---	2.9	3.4	29	38	6.5	4.1	4.2
31	4.7	---	3.5	3.7	---	2.4	---	47	---	6.4	4.1	---
Total	112.8	119.4	119.7	110.5	100.3	82.92	95.5	597.2	1,183	284.3	146.6	126.7
Mean	3.64	3.98	3.86	3.56	3.58	2.67	3.18	19.3	39.4	9.17	4.73	4.22
Max	5.2	14	4.5	3.7	3.7	3.7	5.0	56	58	34	13	4.5
Min	2.8	2.7	3.0	3.5	3.2	0.57	1.8	3.3	29	4.7	2.5	3.9
Ac-ft	224	237	237	219	199	164	189	1,180	2,350	564	291	251

09183600 MILL CREEK BELOW SHELEY TUNNEL, NEAR MOAB, UT—Continued

