



Water-Data Report 2006

09182400 CASTLE CREEK BELOW CASTLE VALLEY, NEAR MOAB, UT

Upper Colorado-Dolores Basin
Upper Colorado-Kane Springs Subbasin

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, UT, 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.

SURFACE-WATER 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. Peak discharges are poor.

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)
Aug 09	1800	61	7.08
Sep 22	1045	*82	*7.28

Minimum daily discharge, 2.6 ft³/s, Jul 15, 16, 17.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	e6.0	e5.0	6.1	6.1	5.2	5.0	5.3	4.2	3.9	3.2	3.6	e3.4
2	e5.8	4.7	6.4	5.9	5.4	4.9	5.8	4.3	3.7	3.3	3.5	e3.4
3	e5.8	e5.4	6.5	5.9	5.4	4.7	5.1	4.1	3.7	3.3	3.5	e3.5
4	e5.8	e5.9	5.8	5.8	5.1	4.2	5.0	4.0	3.5	3.1	3.5	e3.5
5	e5.7	6.1	5.3	5.6	5.0	4.2	5.2	4.2	3.4	3.2	3.6	e3.6
6	e5.7	5.9	5.7	5.5	5.0	4.5	5.9	4.1	3.3	3.3	3.6	e3.6
7	e5.6	5.6	5.6	5.6	5.1	5.1	5.6	4.3	3.5	4.1	3.9	3.6
8	e5.6	5.3	5.3	5.6	5.3	6.7	5.5	4.2	3.5	4.2	3.6	3.7
9	e5.6	5.5	5.1	5.5	5.2	6.1	5.1	3.9	3.6	3.7	9.4	3.6
10	e5.5	5.4	5.2	5.4	5.1	6.1	4.7	3.9	3.2	3.0	e5.2	3.7
11	e5.5	8.9	5.4	5.5	5.2	5.8	4.5	3.9	3.1	2.9	e4.4	3.6
12	e5.5	8.4	5.7	5.8	5.4	6.1	4.6	3.8	3.1	2.8	e4.3	3.6
13	e4.9	8.1	6.0	5.5	5.5	6.0	4.9	3.7	3.0	2.7	e4.2	3.6
14	e5.0	8.0	5.9	5.5	5.4	6.0	4.6	3.9	3.0	2.9	e4.3	3.6
15	e4.6	6.7	5.4	5.5	5.3	6.1	4.4	3.7	3.1	2.6	e4.5	4.1
16	e4.0	6.8	5.4	5.5	5.0	6.3	4.5	3.7	3.1	2.6	e4.6	3.8
17	e4.4	6.5	5.5	5.2	5.3	6.2	4.4	3.6	3.1	2.6	e4.7	3.8
18	e4.8	6.5	5.7	5.6	5.3	6.0	4.5	3.6	3.0	2.9	4.9	3.8
19	e5.0	6.5	5.9	5.6	5.2	6.1	4.8	3.8	3.0	3.3	4.5	3.7
20	e5.1	6.6	6.0	5.3	5.1	6.1	5.2	3.6	3.0	3.3	4.3	3.9
21	e4.6	7.0	5.9	5.1	5.2	6.2	5.2	3.7	3.0	3.3	4.2	3.9
22	e4.5	7.2	5.7	5.2	5.1	6.0	4.7	3.5	3.0	3.3	4.1	e15
23	e4.3	7.2	5.7	5.2	5.1	6.0	4.6	3.7	2.9	3.3	4.2	e5.0
24	e3.9	6.6	5.6	5.3	5.2	6.0	4.3	3.8	3.0	3.4	e4.2	e4.9
25	e4.1	6.3	5.6	5.4	5.2	5.9	4.3	3.7	3.0	3.3	e4.1	e4.8
26	e4.5	6.3	5.7	5.8	5.3	5.8	4.5	3.6	3.0	3.3	e3.9	e4.6
27	e4.8	6.1	5.9	5.3	5.0	6.0	4.4	3.6	3.0	3.3	e3.8	e4.5
28	5.2	5.7	5.8	5.2	5.0	6.0	4.3	3.6	3.0	3.3	e3.6	e4.4
29	e5.0	6.1	5.8	5.2	---	6.2	4.3	4.3	3.0	3.3	e3.4	e4.3
30	e5.0	6.1	5.6	5.1	---	6.1	4.4	4.9	3.1	3.3	3.2	e4.2
31	e4.4	---	5.8	5.1	---	5.9	---	4.1	---	3.4	3.3	---
Total	156.2	192.4	177.0	169.8	145.6	178.3	144.6	121.0	95.8	99.5	130.1	128.7
Mean	5.04	6.41	5.71	5.48	5.20	5.75	4.82	3.90	3.19	3.21	4.20	4.29
Max	6.0	8.9	6.5	6.1	5.5	6.7	5.9	4.9	3.9	4.2	9.4	15
Min	3.9	4.7	5.1	5.1	5.0	4.2	4.3	3.5	2.9	2.6	3.2	3.4
Ac-ft	310	382	351	337	289	354	287	240	190	197	258	255

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	5.82	7.04	6.98	6.82	6.69	6.70	5.80	5.85	6.02	4.86	4.54	5.11
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	5.71	5.48	5.20	5.06	4.07	3.80	3.19	3.21	3.32	3.17
(WY)	(2005)	(2005)	(2006)	(2006)	(2006)	(2003)	(2003)	(2004)	(2006)	(2006)	(2004)	(2004)

09182400 CASTLE CREEK BELOW CASTLE VALLEY, NEAR MOAB, UT—Continued**SUMMARY STATISTICS**

	Calendar Year 2005	Water Year 2006	Water Years 1992 - 2006	
Annual total	1,997.4	1,739.0		
Annual mean	5.47	4.76	6.00	
Highest annual mean			8.84	1993
Lowest annual mean			4.75	2004
Highest daily mean	15	Sep 28	15	Sep 22
Lowest daily mean	3.7	Apr 30	2.6	Jul 15
Annual seven-day minimum	3.8	Apr 30	2.7	Jul 11
Annual runoff (ac-ft)	3,960		3,450	4,350
10 percent exceeds	7.0		6.1	8.3
50 percent exceeds	5.3		4.9	5.9
90 percent exceeds	4.0		3.3	3.7

