

Water-Data Report 2007

09338900 DEER CREEK NEAR BOULDER, UT

Upper Colorado-Dirty Devil Basin
Escalante Subbasin

LOCATION.--Lat 37°51'12", long 111°21'16" referenced to North American Datum of 1927, in NW ¼ SE ¼ NE ¼ sec.16, T.34 S., R.5 E., Garfield County, UT, Hydrologic Unit 14070005, Grand Staircase Escalante National Monument, on right bank 150 ft downstream from Burr Trail crossing and 6.3 mi east of Boulder.

DRAINAGE AREA.--62.7 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements and annual maximums, water years 1959-74. September 2001 to May 8, 2007 (discontinued).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 5,670 ft above NGVD of 1929, from topographic map. July 8, 1959 to September 30, 1974, crest-stage gage at site 160 ft downstream on left bank at datum 8.00 ft higher.

REMARKS.--Records good except for flows above 133 ft³/s, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,820 ft³/s, Aug 3, 1961, gage height, 14.00 ft, from rating curve extended above about 5 ft³/s on basis of slope-area measurements at gage heights 11.50 ft, 12.50 ft, and 14.00 ft (datum then in use); minimum daily, some flow in most years but dry on occasion.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 934 ft³/s, Oct 6, gage height, 8.56 ft; minimum daily discharge, 5.3 ft³/s, May 3, 8.

09338900 DEER CREEK NEAR BOULDER, UT—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	6.0	11	7.6	11	9.0	9.1	16	5.6	---	---	---	---
2	5.9	11	7.8	11	9.3	9.8	16	5.6	---	---	---	---
3	7.0	11	7.7	11	9.5	9.4	15	5.3	---	---	---	---
4	6.3	11	7.9	11	9.1	10	14	5.4	---	---	---	---
5	e20	11	8.4	11	9.3	10	14	5.6	---	---	---	---
6	e402	9.9	9.6	9.8	9.8	10	12	5.5	---	---	---	---
7	e38	9.8	10	10	10	9.8	8.3	5.4	---	---	---	---
8	12	9.3	11	10	9.9	10	7.7	5.3	---	---	---	---
9	e135	9.6	10	11	9.8	9.9	7.9	---	---	---	---	---
10	18	11	10	11	10	9.1	7.2	---	---	---	---	---
11	16	11	10	11	11	8.1	7.3	---	---	---	---	---
12	14	12	10	11	9.9	8.0	7.1	---	---	---	---	---
13	10	11	11	9.9	9.9	6.7	6.9	---	---	---	---	---
14	22	9.5	11	9.1	9.3	6.7	6.3	---	---	---	---	---
15	e30	8.9	11	9.6	9.3	6.7	6.3	---	---	---	---	---
16	e10	9.8	11	11	10	6.6	6.4	---	---	---	---	---
17	e35	9.2	11	11	9.4	6.7	6.4	---	---	---	---	---
18	e15	9.0	10	10	9.5	6.7	6.3	---	---	---	---	---
19	e12	8.8	11	10	9.2	6.7	6.2	---	---	---	---	---
20	e10	9.0	11	11	9.1	6.7	6.2	---	---	---	---	---
21	e10	9.3	11	10	9.9	7.2	6.2	---	---	---	---	---
22	e10	9.9	11	9.1	9.8	6.8	6.2	---	---	---	---	---
23	e10	10	11	9.4	9.5	7.2	6.9	---	---	---	---	---
24	e11	9.7	11	9.7	8.1	7.3	6.3	---	---	---	---	---
25	e11	10	10	9.8	10	7.0	6.1	---	---	---	---	---
26	11	9.8	10	9.8	9.7	8.1	6.1	---	---	---	---	---
27	11	9.0	11	9.8	9.3	13	5.9	---	---	---	---	---
28	11	10	11	9.3	9.4	13	5.8	---	---	---	---	---
29	11	7.8	11	9.0	---	13	5.6	---	---	---	---	---
30	11	7.1	11	9.0	---	13	5.6	---	---	---	---	---
31	11	---	11	9.0	---	17	---	---	---	---	---	---
Total	942.2	295.4	316.0	314.3	268.0	279.3	244.2	---	---	---	---	---
Mean	30.4	9.85	10.2	10.1	9.57	9.01	8.14	---	---	---	---	---
Max	402	12	11	11	11	17	16	---	---	---	---	---
Min	5.9	7.1	7.6	9.0	8.1	6.6	5.6	---	---	---	---	---
Ac-ft	1,870	586	627	623	532	554	484	---	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	13.5	10.9	11.3	12.1	11.2	12.3	11.3	12.0	7.08	5.69	7.92	10.2
Max	30.4	15.6	14.1	19.4	16.6	17.3	21.7	28.6	16.7	10.7	16.2	16.4
(WY)	(2007)	(2006)	(2006)	(2005)	(2005)	(2005)	(2006)	(2005)	(2005)	(2005)	(2005)	(2005)
Min	5.60	6.97	9.59	9.57	7.51	8.67	6.04	5.32	4.09	4.34	5.10	4.84
(WY)	(2004)	(2004)	(2002)	(2002)	(2003)	(2003)	(2002)	(2002)	(2003)	(2002)	(2003)	(2003)

09338900 DEER CREEK NEAR BOULDER, UT—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Years 2001 - 2007	
Annual total	4,417.6			
Annual mean	12.1		10.4	
Highest annual mean			16.5	2005
Lowest annual mean			7.55	2003
Highest daily mean	402	Oct 6	402	Oct 6, 2006
Lowest daily mean	2.5	Aug 21	2.5	Aug 21, 2006
Annual seven-day minimum	2.6	Aug 28	2.6	Aug 28, 2006
Annual runoff (ac-ft)	8,760		7,510	
10 percent exceeds	17		17	
50 percent exceeds	10		8.5	
90 percent exceeds	4.3		4.3	

