

ESCALANTE RIVER BASIN

1

09339000 BOULDER CREEK NEAR BOULDER, UT

LOCATION.--Lat 37°46'55", long 111°21'34", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 9, T. 35 S., R. 5 E., Garfield County, Hydrologic Unit 14070005, Grand Staircase Escalante National Monument, on right bank 0.4 mi downstream of Deer Creek, 3.8 mi upstream of mouth, and 11 mi south of Boulder.

DRAINAGE AREA.--173 mi².

PERIOD OF RECORD.--July 1950 to September 1955. December 2002 to September 2003.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 5,260 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for flows greater than 60 ft³/s and estimated daily discharges, which are poor.EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,650 ft³/s, Jul 25, 1955, gage height, 10.24 ft; minimum daily, 5.0 ft³/s, several days in Jul 2003.EXTREMES FOR CURRENT YEAR.--Maximum discharge, 665 ft³/s, Aug 14, gage height, 5.45 ft; minimum daily discharge, 5.0 ft³/s, several days in Jul.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	e33	e25	31	21	12	e15	5.4	6.3	6.8
2	---	---	---	e33	e25	32	20	12	e11	5.4	11	7.0
3	---	---	---	e32	e25	32	20	11	e8.0	5.6	7.0	7.2
4	---	---	---	e31	e25	31	19	10	e7.0	5.4	6.5	6.8
5	---	---	---	e31	e25	31	17	10	e7.0	5.4	6.0	6.8
6	---	---	---	e31	e25	31	17	10	e7.0	5.3	5.6	8.3
7	---	---	---	e29	e25	30	17	10	e7.0	5.1	5.7	9.6
8	---	---	---	e29	e25	30	15	10	e7.0	5.2	7.1	7.8
9	---	---	---	e29	e26	31	14	10	e7.0	5.1	8.7	7.4
10	---	---	e29	e31	e27	32	15	11	e7.0	5.0	6.7	7.3
11	---	---	e29	e33	e28	33	15	9.9	e7.0	e5.0	6.1	7.1
12	---	---	e29	e31	e28	35	16	9.5	6.8	e5.0	6.1	7.4
13	---	---	e29	e29	e32	36	16	9.1	e6.7	e5.0	6.2	7.1
14	---	---	e30	e29	e30	38	17	9.1	6.6	e5.0	25	7.0
15	---	---	e30	e29	e29	36	16	122	6.5	e5.0	12	7.1
16	---	---	e29	e29	e29	50	15	e15	6.3	5.0	8.9	7.0
17	---	---	e30	e29	e29	44	14	e12	6.2	5.1	7.9	6.6
18	---	---	e29	e29	e29	36	14	e10	6.5	5.0	7.0	6.7
19	---	---	e27	e29	e29	34	17	e10	6.7	5.0	6.6	7.2
20	---	---	e27	e29	e29	29	34	e40	6.4	5.3	6.7	7.3
21	---	---	e28	e29	e29	28	33	13	177	6.5	5.3	6.8
22	---	---	e29	e29	e29	30	33	13	233	6.4	15	6.8
23	---	---	e27	e29	e29	30	32	15	230	6.2	7.0	7.2
24	---	---	e28	e29	e29	31	35	16	176	6.1	6.2	7.9
25	---	---	e29	e29	e29	31	30	15	213	6.4	6.0	7.4
26	---	---	e28	e29	e29	48	30	17	129	6.4	5.7	7.0
27	---	---	e27	e29	e29	32	31	14	249	6.3	6.2	6.9
28	---	---	e30	e28	e28	31	30	13	239	6.1	10	7.1
29	---	---	e33	e27	---	27	13	142	6.1	8.9	13	7.6
30	---	---	e31	e27	---	23	12	57	5.6	13	8.7	8.2
31	---	---	e33	e27	---	19	---	e25	---	7.0	7.2	---
TOTAL	---	---	---	917	806	1,010	470	2,222.6	210.8	193.6	249.0	218.1
MEAN	---	---	---	29.6	28.8	32.6	15.7	71.7	7.03	6.25	8.03	7.27
MAX	---	---	---	33	48	50	21	249	15	15	25	9.6
MIN	---	---	---	27	25	19	12	9.1	5.6	5.0	5.6	6.6
AC-FT	---	---	---	1,820	1,600	2,000	932	4,410	418	384	494	433

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950-1955, 2003, BY WATER YEAR (WY)

MEAN	13.0	23.9	31.1	32.3	32.7	32.7	20.2	39.5	15.2	10.5	12.6	11.6
MAX	13.8	34.2	49.2	43.7	41.7	38.2	46.0	79.2	47.6	15.0	22.9	24.2
(WY)	(1953)	(1954)	(1953)	(1953)	(1953)	(1952)	(1952)	(1952)	(1952)	(1955)	(1951)	(1952)
MIN	10.5	15.5	21.8	22.6	20.5	25.8	12.1	14.2	7.03	6.25	7.96	7.27
(WY)	(1951)	(1955)	(1955)	(1955)	(1954)	(1954)	(1953)	(1953)	(2003)	(2003)	(1950)	(2003)

SUMMARY STATISTICS

WATER YEARS 1950-1955, 2003

ANNUAL MEAN	23.0											
HIGHEST ANNUAL MEAN	32.0											
LOWEST ANNUAL MEAN	17.6											
HIGHEST DAILY MEAN	249	May 27, 2003										
LOWEST DAILY MEAN	5.0	Jul 10, 2003										
ANNUAL SEVEN-DAY MINIMUM	5.0	Jul 10, 2003										
ANNUAL RUNOFF (AC-FT)	16,680											
10 PERCENT EXCEEDS	41											
50 PERCENT EXCEEDS	16											
90 PERCENT EXCEEDS	8.4											

e Estimated