

ESCALANTE RIVER BASIN

161

09337500 ESCALANTE RIVER NEAR ESCALANTE, UT

LOCATION.--Lat 37°46'41", long 111°34'26", in NE¹/4NW¹/4SE¹/4 sec. 9, T. 35 S., R. 3 E., Garfield County, Hydrologic Unit 14070005, Bureau of Land Management, on left bank 150 ft downstream from Pine Creek and 1.5 mi northeast of Escalante.

DRAINAGE AREA.--320 mi².

PERIOD OF RECORD.--August 1909 to April 1913, October 1942 to September 1955, December 1971 to current year. Published as Escalante Creek near Escalante 1909-13.

REVISED RECORDS.--WSP 1149: 1943(M), 1944, 1945(M). WDR UT-73-1: 1972.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 5,670 ft above NGVD of 1929, from topographic map. Prior to April 30, 1913, staff at approximately same site at different datum.

REMARKS.--Records fair except for daily discharges less than 2.0 ft³/s and estimated daily discharges, which are poor. Regulation of low flows by diversion into Wide Hollow Reservoir (an off-stream storage site about 4 mi upstream; capacity about 2,300 acre-feet) and by diversion on Pine Creek for irrigation of about 2,300 acres.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,550 ft³/s, Aug 24, 1998, gage height, 11.05 ft, from rating curve extended above 150 ft³/s on basis of slope-area measurements at gage heights, 5.31 ft, 6.25 ft, 7.59 ft, and 11.05 ft; minimum daily, 0.07 ft³/s, Jul 11, 1990.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 716 ft³/s, Jul 23, gage height, 4.70 ft; minimum daily discharge, 0.18 ft³/s, Aug 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	6.2	5.0	e4.5	e9.0	6.0	2.2	1.3	0.48	0.25	0.50	0.22
2	1.2	6.2	5.4	e4.1	e10	4.5	2.3	1.5	0.53	0.24	e0.70	0.22
3	1.1	5.9	6.0	e4.1	e11	3.3	3.3	1.6	0.88	0.25	e0.60	1.9
4	1.1	5.9	6.4	e4.8	e12	5.6	2.1	1.6	1.1	0.29	e0.50	0.79
5	1.1	5.9	6.2	6.4	e13	4.7	1.9	1.6	0.82	0.31	e0.46	0.50
6	1.2	5.9	8.5	5.3	e13	7.0	1.9	1.5	0.80	0.35	e0.43	0.68
7	1.1	6.0	6.2	5.3	e5.5	5.7	1.9	1.6	0.97	0.36	e0.38	22
8	2.2	6.2	5.8	5.2	7.1	4.4	1.9	1.4	0.70	0.24	e0.35	9.2
9	1.9	6.3	5.9	5.1	9.6	5.5	1.9	1.2	0.59	0.23	e0.32	1.1
10	2.1	6.6	5.7	5.1	10	4.2	1.8	1.2	0.61	0.24	e0.28	0.58
11	2.0	6.5	5.8	4.8	9.9	4.7	1.8	1.1	0.65	0.23	e0.26	0.53
12	2.0	6.2	e5.0	6.0	12	4.7	1.9	1.1	0.71	0.21	e0.24	3.7
13	2.7	6.4	e4.2	5.3	11	6.7	1.9	1.3	0.70	0.20	e0.23	0.98
14	3.3	6.5	e4.7	4.6	11	6.0	1.8	1.4	0.68	0.20	e0.20	0.48
15	2.9	6.5	e4.7	5.5	11	5.3	1.9	1.4	0.56	0.25	0.20	0.40
16	3.4	6.5	e4.6	4.9	9.9	5.7	1.9	1.4	0.41	0.40	0.21	0.40
17	3.8	6.5	e5.0	e3.4	9.1	5.5	1.8	1.3	0.39	0.93	0.20	0.40
18	4.0	6.5	e4.5	e3.0	8.8	5.8	1.8	1.2	0.41	1.1	e0.22	0.40
19	4.0	6.2	e3.5	e2.6	8.3	5.4	1.6	1.2	0.41	0.64	e0.20	0.40
20	2.5	5.5	e3.4	e2.6	8.8	3.0	1.6	1.1	0.35	0.56	e0.60	0.39
21	2.5	6.7	e3.4	e3.5	8.6	5.8	1.7	1.1	0.41	0.56	e0.36	0.39
22	3.2	7.1	e3.4	e4.8	8.4	4.9	1.9	1.2	0.66	0.52	0.21	0.39
23	4.3	6.6	e3.3	e5.7	8.5	2.7	1.8	1.2	0.73	15	0.22	0.39
24	4.7	5.3	e3.1	e5.0	8.7	2.6	1.8	1.2	0.71	7.8	0.23	0.39
25	4.9	7.0	e3.0	e5.4	8.4	2.6	1.8	0.91	0.69	1.2	0.23	0.38
26	5.1	4.9	e3.3	e5.4	9.1	2.6	1.8	0.68	0.68	2.3	0.22	0.39
27	4.6	4.6	e3.3	e5.0	7.5	2.5	1.8	0.69	0.67	2.6	0.19	0.39
28	5.0	4.1	e3.3	e7.0	7.4	2.4	1.8	0.61	0.66	0.55	0.18	0.44
29	6.0	4.2	e3.8	e7.0	---	2.2	1.8	0.54	0.45	0.36	0.19	7.2
30	6.2	4.6	e4.6	e8.0	---	2.4	1.6	0.55	0.26	0.36	0.22	2.7
31	6.2	---	e4.7	e8.0	---	2.2	---	0.55	---	0.36	0.23	---
TOTAL	97.5	179.5	145.7	157.4	266.6	136.6	57.0	36.23	18.67	39.09	9.56	58.33
MEAN	3.145	5.983	4.700	5.077	9.521	4.406	1.900	1.169	0.622	1.261	0.308	1.944
MAX	6.2	7.1	8.5	8.0	13	7.0	3.3	1.6	1.1	15	0.70	22
MIN	1.1	4.1	3.0	2.6	5.5	2.2	1.6	0.54	0.26	0.20	0.18	0.22
AC-FT	193	356	289	312	529	271	113	72	37	78	19	116

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943-55, 1973-2002, BY WATER YEAR (WY)

MEAN	7.698	6.935	7.262	8.533	10.45	12.48	13.82	23.01	17.95	6.162	8.455	7.116
MAX	29.9	23.8	18.1	26.4	23.8	39.7	54.8	124	125	30.5	30.8	39.4
(WY)	1973	1988	1943	1950	1943	1989	1993	1973	1983	1944	1983	1998
MIN	0.90	0.80	0.77	0.96	1.21	0.67	1.23	0.88	0.48	0.47	0.31	0.73
(WY)	1991	1991	1991	1991	1993	1991	1990	1954	1990	1978	2002	1955

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1943-55, 1973-2002

ANNUAL TOTAL	4801.4	1202.18		
ANNUAL MEAN	13.15	3.294		
HIGHEST ANNUAL MEAN			10.97	
LOWEST ANNUAL MEAN			30.7	1973
HIGHEST DAILY MEAN	117	May 19	1.49	1991
LOWEST DAILY MEAN	1.1	Sep 29	367	Sep 11 1998
ANNUAL SEVEN-DAY MINIMUM	1.1	Sep 29	0.07	Jul 11 1990
ANNUAL RUNOFF (AC-FT)	9520	2380	0.18	Aug 26 1990
10 PERCENT EXCEEDS	28	7.0	24	
50 PERCENT EXCEEDS	5.5	2.2	5.0	
90 PERCENT EXCEEDS	1.6	0.32	1.0	

e Estimated