

SEVIER LAKE BASIN

1

10205030 SALINA CREEK NEAR EMERY, UT

LOCATION.--Lat 38°54'43", long 111°31'47", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 12, T. 22 S., R. 3 E., Sevier County, Hydrologic Unit 16030003, Fish Lake National Forest, on right bank 0.1 mi downstream of Skumpah Creek and 2.5 mi upstream from Natural Resources Conservation Service retention dam, 15.3 mi west of Emery, and 18.4 mi east of Salina.

DRAINAGE AREA.--51.8 mi².

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Crest-stage gage since Aug 21, 2000. Elevation of gage is 7,000 ft above NGVD of 1929, from topographic map. Prior to June 9, 1971, at site 300 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. No diversion above station. Slight regulation from small reservoirs at headwaters.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 740 ft³/s, Jul 27, 1989, gage height, 5.85 ft, present datum from rating curve extended above 150 ft³/s on basis of slope-area measurement of peak flow; minimum discharge, 0.80 ft³/s, Nov 9, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 135 ft³/s, May 22, gage height, 4.10 ft; minimum daily discharge, 1.6 ft³/s, Dec 26.

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	6.2	6.2	e3.8	2.0	4.8	e4.4	5.5	14	44	17	12	10
2	6.4	e5.5	e3.4	1.9	4.7	e4.6	5.7	14	39	18	11	11
3	7.2	e5.0	e3.0	1.7	e4.6	e4.8	5.5	15	34	17	12	10
4	6.7	e4.8	e2.8	1.7	e4.4	5.3	e5.2	14	32	16	11	10
5	6.6	e4.8	e2.8	2.3	e4.4	5.0	5.4	13	29	14	11	10
6	6.5	e4.6	e2.6	3.6	e3.8	4.7	5.2	12	26	13	11	10
7	6.5	e5.5	e3.0	4.6	e3.4	4.6	5.0	12	24	13	11	10
8	6.5	6.3	e3.4	e4.6	e3.2	4.7	5.0	12	21	13	11	10
9	6.5	7.3	e2.8	e4.4	e3.2	5.0	5.4	13	21	13	11	10
10	6.5	5.8	e2.8	5.5	e3.6	4.9	5.8	12	20	13	11	10
11	6.5	5.8	e3.0	5.4	e4.2	4.8	6.4	13	19	13	11	9.8
12	6.5	e5.3	e3.8	5.0	e5.0	4.9	8.1	17	18	12	11	9.7
13	6.5	6.1	e3.0	e4.6	5.9	5.2	10	21	17	12	11	9.7
14	6.5	6.0	e3.8	e5.0	5.9	5.3	12	24	16	12	11	9.7
15	6.5	5.9	5.8	5.6	5.3	5.1	10	41	16	12	11	9.7
16	6.5	e5.5	e4.8	e5.5	4.9	4.9	7.8	60	15	12	10	9.7
17	6.5	e5.7	e4.4	e6.0	4.8	5.0	7.9	62	15	12	10	9.7
18	6.5	e5.5	e3.8	e5.5	4.8	4.8	7.6	74	15	11	10	9.7
19	6.5	e5.2	e3.0	e5.0	e4.8	4.7	7.0	88	15	11	10	9.7
20	6.4	e5.7	e2.4	e4.6	5.5	4.6	6.8	84	15	11	10	9.7
21	6.2	e6.0	e2.0	e5.0	5.0	4.7	8.0	90	15	11	11	9.6
22	6.2	6.1	e2.0	5.3	4.7	4.7	8.2	96	14	11	12	9.2
23	6.2	6.0	e1.9	5.2	e4.6	4.8	7.3	83	14	15	11	8.9
24	6.2	6.0	e1.8	5.2	e4.4	4.8	8.0	77	14	12	11	8.9
25	6.2	6.0	e1.7	5.2	e4.6	4.9	13	73	14	12	11	8.9
26	6.2	e5.5	e1.6	4.9	e4.6	5.0	17	78	14	12	11	8.9
27	6.2	e3.8	e1.8	4.8	4.7	5.0	17	78	13	12	11	8.9
28	6.2	e3.4	e2.6	4.8	e4.6	5.0	17	76	13	12	11	8.9
29	6.2	e2.8	e2.2	4.6	---	e4.8	16	67	13	12	11	8.9
30	e5.8	e3.0	e1.8	4.8	---	e4.6	15	58	13	11	11	8.9
31	e6.0	---	e1.8	4.8	---	5.1	---	50	---	13	10	---
TOTAL	198.1	161.1	89.4	139.1	128.4	150.7	263.8	1,441	588	398	338	288.1
MEAN	6.39	5.37	2.88	4.49	4.59	4.86	8.79	46.5	19.6	12.8	10.9	9.60
MAX	7.2	7.3	5.8	6.0	5.9	5.3	17	96	44	18	12	11
MIN	5.8	2.8	1.6	1.7	3.2	4.4	5.0	12	13	11	10	8.9
AC-FT	393	320	177	276	255	299	523	2,860	1,170	789	670	571

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2003, BY WATER YEAR (WY)

MEAN	9.87	8.26	7.04	6.52	6.33	7.42	14.7	64.4	43.3	16.9	13.5	11.3
MAX	18.9	16.0	14.1	13.6	10.8	16.0	51.6	275	162	50.3	34.4	25.4
(WY)	(1985)	(1985)	(1985)	(1985)	(1985)	(1988)	(1985)	(1984)	(1983)	(1983)	(1983)	(1984)
MIN	3.57	3.24	2.88	2.58	2.49	4.25	5.31	5.12	3.70	4.67	4.09	3.55
(WY)	(1978)	(1978)	(2003)	(1977)	(1977)	(1977)	(1964)	(1977)	(1977)	(1977)	(1977)	(1977)

SUMMARY STATISTICS

FOR 2002 CALENDAR YEAR

FOR 2003 WATER YEAR

WATER YEARS 1964 - 2003

ANNUAL TOTAL	2,667.5	4,183.7	
ANNUAL MEAN	7.31	11.5	
HIGHEST ANNUAL MEAN			17.5
LOWEST ANNUAL MEAN			53.0
HIGHEST DAILY MEAN	36	May 7	434
LOWEST DAILY MEAN	1.6	Dec 26	1.5
ANNUAL SEVEN-DAY MINIMUM	1.8	Dec 21	1.7
ANNUAL RUNOFF (AC-FT)	5,290	8,300	12,700
10 PERCENT EXCEEDS	12	17	33
50 PERCENT EXCEEDS	6.4	6.5	9.3
90 PERCENT EXCEEDS	3.4	3.6	5.1

e Estimated

