

SEVIER LAKE BASIN

10219000 SEVIER RIVER NEAR JUAB, UT

LOCATION.--Lat 39°22'29", long 112°02'20", in SE¹/₄SW¹/₄SE¹/₄ sec. 35, T. 16 S., R. 2 W., Juab County, Hydrologic Unit 16030005, on right bank 0.5 mi downstream from Sevier Bridge Dam and 11.6 mi southwest of Juab.

DRAINAGE AREA.--5,165 mi².

PERIOD OF RECORD.--September 1911 to current year.

GAGE.--Water-stage recorder and rubble masonry control since April 16, 1914. Elevation of gage is 4,940 ft above NGVD of 1929, by barometer. Prior to April 16, 1914, staff gage 500 ft upstream at different datum. April 16, 1914 to April 7, 1938, water-stage recorder at present site and datum. April 8, 1938 to March 31, 1942, water-stage recorder at site 1,300 ft upstream at different datum. April 1, 1942 to June 15, 1961, water-stage recorder on left bank same site and datum. Since June 16, 1961 water-stage recorder on right bank at different datum.

REMARKS.--Records good, except for estimated daily discharges which are fair. Flow regulated by Sevier Bridge Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,190 ft³/s, Jun 25, 1983, gage height, 10.90 ft; no flow many days during April 1990.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 673 ft³/s, Apr 15, gage height, 6.37 ft; minimum daily discharge, 3.8 ft³/s, Nov 8-10, Dec 25-26, Jan 6.

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	5.7	4.2	6.3	5.4	4.9	5.2	5.1	520	480	405	273	72
2	5.7	4.2	6.5	e5.7	5.1	5.1	5.1	520	480	404	180	26
3	5.7	4.2	6.7	5.7	5.1	5.1	5.1	518	477	483	191	16
4	5.7	4.2	6.8	5.7	5.1	5.1	5.1	518	474	583	192	10
5	5.7	4.2	7.2	3.9	5.4	5.1	5.7	519	370	582	191	9.6
6	5.7	4.2	7.2	3.8	5.7	5.2	5.7	518	238	579	109	104
7	5.7	4.3	7.8	4.0	5.8	5.4	5.7	513	236	577	224	80
8	5.3	3.8	7.8	4.2	6.4	5.4	79	505	233	576	125	38
9	5.2	3.8	8.1	4.3	6.8	5.1	340	502	233	575	194	19
10	5.2	3.8	8.1	4.5	6.8	4.8	344	503	231	572	193	7.3
11	4.7	4.0	8.3	4.4	6.8	5.1	345	500	231	572	191	4.9
12	4.6	4.2	8.4	4.5	6.8	5.1	451	497	231	569	191	4.3
13	4.7	4.3	8.8	4.6	6.8	5.4	658	496	231	569	186	4.4
14	4.6	4.4	8.3	4.6	6.8	5.2	660	497	231	568	188	5.3
15	4.6	4.4	7.9	4.6	6.9	5.1	658	496	231	515	202	5.9
16	4.6	4.6	8.1	4.6	7.4	5.1	369	496	231	466	244	6.3
17	4.2	4.8	8.1	4.6	6.8	5.1	12	495	231	465	348	6.5
18	4.2	4.9	8.1	5.2	5.5	5.1	12	494	232	465	348	6.7
19	4.2	5.2	7.0	5.2	5.1	5.0	12	493	231	464	345	7.2
20	4.2	5.5	5.4	4.9	5.1	5.1	12	490	231	462	342	7.7
21	4.2	5.7	4.6	4.5	5.1	5.1	12	491	231	461	341	7.3
22	4.2	6.0	4.6	4.2	5.1	5.1	11	492	277	459	341	7.7
23	4.2	5.8	4.4	4.2	5.4	5.2	10	490	410	391	341	7.7
24	4.2	5.7	3.9	4.2	5.1	5.1	10	489	409	314	341	7.8
25	4.2	5.8	3.8	4.5	5.2	5.1	10	490	410	314	344	7.6
26	4.2	5.6	3.8	4.6	5.1	5.1	10	488	407	312	427	7.7
27	4.2	5.9	4.1	4.4	5.1	5.1	10	488	407	313	568	8.0
28	4.2	5.9	4.4	4.6	5.2	5.1	10	488	408	315	529	8.1
29	4.2	6.5	4.6	4.5	---	5.2	10	487	407	314	446	8.1
30	4.3	6.5	4.6	4.4	---	5.1	258	485	404	313	356	8.1
31	4.3	---	5.0	4.6	---	5.1	---	482	---	314	194	---
TOTAL	146.6	146.6	198.7	143.1	162.4	159.1	4340.5	15460	9533	14271	8685	519.2
MEAN	4.729	4.887	6.410	4.616	5.800	5.132	144.7	498.7	317.8	460.4	280.2	17.31
MAX	5.7	6.5	8.8	5.7	7.4	5.4	660	520	480	583	568	104
MIN	4.2	3.8	3.8	3.8	4.9	4.8	5.1	482	231	312	109	4.3
AC-FT	291	291	394	284	322	316	8610	30660	18910	28310	17230	1030

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 2002, BY WATER YEAR (WY)

	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	61.24	36.14	38.89	65.69	75.29	124.0	304.9	722.6	605.4	539.3	371.3	162.8																																																																															
MAX	640	439	757	1295	1184	1535	1783	3135	4178	3293	1599	737																																																																															
(WY)	1923	1999	1986	1984	1984	1983	1984	1983	1983	1983	1983	1923																																																																															
MIN	1.00	0.60	0.45	0.76	0.94	1.01	2.00	305	138	65.4	25.0	1.34																																																																															
(WY)	1961	1965	1965	1965	1965	1965	1941	1995	1964	1934	1934	1961																																																																															

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1912 - 2002	
ANNUAL TOTAL	69959.1		53765.2			
ANNUAL MEAN	191.7		147.3		260.1	
HIGHEST ANNUAL MEAN					1322	
LOWEST ANNUAL MEAN					94.2	
HIGHEST DAILY MEAN	1010	May 13	660	Apr 14	4920	Jun 25 1983
LOWEST DAILY MEAN	1.3	Apr 13	3.8	Nov 8	0.00	Mar 7 1918
ANNUAL SEVEN-DAY MINIMUM	1.4	Apr 10	4.0	Nov 5	0.00	Apr 9 1990
ANNUAL RUNOFF (AC-FT)	138800		106600		188500	
10 PERCENT EXCEEDS	604		492		755	
50 PERCENT EXCEEDS	6.5		7.2		40	
90 PERCENT EXCEEDS	2.0		4.3		2.0	

e Estimated