

SEVIER LAKE BASIN

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10219000 SEVIER RIVER NEAR JUAB, UT

LOCATION.--Lat 39°22'29", long 112°02'20", in SE^{1/4}SW^{1/4}SE^{1/4} 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, 823 ft³/s, May 8, gage height, 6.84 ft; minimum daily discharge, 0.11 ft³/s, Mar 7-17.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	1.1	0.20	e0.29	e0.30	e0.13	0.65	586	287	334	242	7.5
2	2.5	1.1	0.20	e0.30	e0.29	e0.13	0.54	590	288	332	196	5.2
3	2.3	0.98	0.20	e0.30	e0.28	e0.13	0.54	605	287	332	50	4.8
4	2.3	0.94	0.20	e0.31	e0.28	e0.13	0.44	725	288	336	151	5.1
5	2.1	0.80	0.20	e0.31	e0.28	e0.12	0.43	812	286	335	142	5.0
6	2.1	0.80	0.20	e0.31	e0.28	e0.12	0.35	814	285	283	203	5.3
7	1.9	0.61	0.20	e0.31	e0.28	e0.11	0.34	799	430	232	296	5.8
8	1.8	0.54	0.20	e0.32	e0.27	e0.11	0.34	819	532	228	384	6.0
9	1.8	0.54	0.20	e0.33	e0.26	e0.11	0.34	819	539	154	431	5.3
10	1.7	0.54	0.20	e0.33	e0.25	e0.11	0.34	786	549	72	430	4.3
11	1.5	0.54	0.20	e0.33	e0.24	e0.11	0.34	692	550	69	426	2.8
12	1.5	0.43	0.20	e0.33	e0.23	e0.11	0.30	688	463	68	425	2.9
13	1.4	0.38	0.20	e0.33	e0.22	e0.11	0.27	598	379	210	421	3.0
14	1.2	0.34	0.20	e0.33	e0.21	e0.11	0.27	409	334	212	417	2.8
15	1.1	0.34	0.20	e0.33	e0.20	e0.11	0.23	308	331	257	356	2.6
16	1.1	0.30	0.20	e0.33	e0.19	e0.11	0.20	264	331	341	302	2.9
17	1.1	0.22	0.20	e0.34	e0.19	e0.11	0.20	264	331	404	228	3.2
18	1.1	0.21	0.20	e0.35	e0.18	0.98	0.20	356	329	305	209	3.8
19	0.96	0.20	0.20	e0.36	e0.16	1.9	0.20	436	330	206	185	3.7
20	0.96	0.20	0.20	e0.37	e0.16	0.88	0.20	435	329	177	227	3.9
21	0.96	0.20	0.20	e0.37	e0.16	0.80	0.20	431	330	150	244	3.3
22	0.86	0.20	0.20	e0.37	e0.16	0.97	0.16	435	391	150	189	3.5
23	0.80	0.20	0.20	e0.36	e0.16	1.4	0.14	433	432	114	216	3.3
24	0.80	0.20	0.20	e0.35	e0.15	0.92	0.14	386	431	101	241	3.5
25	0.80	0.20	e0.22	e0.34	e0.14	0.80	0.14	313	433	103	205	3.8
26	0.80	0.20	e0.24	e0.33	e0.14	0.80	82	296	435	214	207	3.7
27	0.80	0.20	e0.25	e0.33	e0.14	0.68	206	294	417	396	154	2.9
28	50	0.20	e0.26	e0.33	e0.14	0.66	202	293	334	419	66	0.36
29	1.7	0.20	e0.27	e0.33	e0.14	0.66	200	294	333	413	33	23
30	1.4	0.20	e0.28	e0.32	---	0.66	387	291	333	356	8.1	73
31	1.3	---	e0.29	e0.31	---	0.66	---	290	---	355	8.8	---
TOTAL	93.34	13.11	6.61	10.25	6.08	14.74	1,084.50	15,561	11,347	7,658	7,292.9	206.26
MEAN	3.01	0.44	0.21	0.33	0.21	0.48	36.1	502	378	247	235	6.88
MAX	50	1.1	0.29	0.37	0.30	1.9	387	819	550	419	431	73
MIN	0.80	0.20	0.20	0.29	0.14	0.11	0.14	264	285	68	8.1	0.36
AC-FT	185	26	13	20	12	29	2,150	30,870	22,510	15,190	14,470	409

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 2004, BY WATER YEAR (WY)

MEAN	60.0	35.4	38.1	64.3	73.7	121	301	717	601	537	368	160
(WY)	(1923)	(1999)	(1986)	(1984)	(1984)	(1983)	(1984)	(1984)	(1983)	(1983)	(1983)	(1923)
MAX	640	439	757	1,295	1,184	1,535	1,783	3,135	4,178	3,293	1,599	737
(WY)	(1961)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(1941)	(1995)	(1964)	(1934)	(1961)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1912 - 2004
ANNUAL TOTAL	60,882.66	43,293.79	
ANNUAL MEAN	167	118	
HIGHEST ANNUAL MEAN			258
LOWEST ANNUAL MEAN			1,322
HIGHEST DAILY MEAN	820	Jul 22	94.2
LOWEST DAILY MEAN	0.20	Nov 19	4,920
ANNUAL SEVEN-DAY MINIMUM	0.20	Nov 19	0.00
ANNUAL RUNOFF (AC-FT)	120,800	85,870	186,600
10 PERCENT EXCEEDS	567	414	749
50 PERCENT EXCEEDS	7.3	1.0	38
90 PERCENT EXCEEDS	0.21	0.20	2.0

e Estimated

