

SEVIER LAKE BASIN

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10189000 EAST FORK SEVIER RIVER NEAR KINGSTON, UT

LOCATION.--Lat $38^{\circ}11'47''$, long $112^{\circ}08'49''$, in NE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 13, T. 30 S., R. 3 W., Piute County, Hydrologic Unit 16030002, on right bank about 2,200 ft upstream from bridge on State Highway 22, 2.3 mi east of Kingston, 4.7 mi upstream from mouth, and 10 mi downstream from Otter Creek Reservoir.

DRAINAGE AREA.--1,207 mi².

PERIOD OF RECORD.--March 1913 to current year.

REVISED RECORDS.--WSP 750: 1931-32. WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Crest-stage gage installed August 1, 2001. Elevation of gage is 6,160 ft above NGVD of 1929, from river-profile map. Prior to April 29, 1914, staff gage at site 0.8 mi upstream. April 29, 1914 to June 2, 1939, water-stage recorder 4,700 ft downstream. June 3, 1939 to July 29, 1970, water-stage recorder 3,200 ft downstream. Prior to July 29, 1970 at different datums. July 30, 1970 to July 12, 1983, water-stage recorder 760 ft downstream and July 12, 1983 to April 6, 1999, about 700 ft downstream at same datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions upstream for irrigation and storage in Otter Creek Reservoir (capacity 52,700 acre-feet) 10 mi upstream; some flow regulated by reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,030 ft³/s, May 12, 1941, gage height, 5.05 ft, datum then in use, from rating curve extended above 1,500 ft³/s, site and ; minimum, 1.0 ft³/s, Jan 25, 1976, gage height, 0.52 ft, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 356 ft³/s, Jun 12, gage height, 5.70 ft; minimum daily discharge, 7.0 ft³/s, Jan 5.

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	21	10	e10	e9.0	e12	11	11	85	210	195	24	42
2	14	10	e9.0	e9.0	e12	11	11	163	210	191	28	36
3	16	10	e9.0	e9.0	e12	11	10	167	208	188	33	23
4	16	10	e10	e7.5	e12	11	10	168	201	188	32	23
5	14	9.9	e10	e7.0	e12	11	11	167	196	184	27	21
6	15	9.9	9.6	e7.5	e12	11	11	205	198	186	26	19
7	14	10	9.7	e9.0	e12	11	12	218	182	186	26	21
8	13	9.8	e9.0	e9.0	e12	11	12	173	155	187	33	27
9	14	9.5	e10	e9.0	e12	11	11	206	154	185	27	25
10	13	9.6	e10	e9.0	e12	11	11	217	155	184	37	15
11	12	9.5	e10	e9.0	e12	11	12	219	157	187	40	14
12	12	9.5	e10	e8.5	e12	31	12	220	216	195	41	13
13	12	11	e10	e8.0	e12	14	20	219	166	200	34	13
14	11	11	e10	e8.0	e13	12	27	216	144	198	49	13
15	12	11	e9.5	e8.5	e14	12	30	214	142	200	58	18
16	12	11	e9.5	e8.5	e14	12	34	215	143	189	61	25
17	12	10	e10	e9.0	e14	11	37	213	143	178	58	24
18	12	10	e10	e9.0	e14	12	39	212	143	167	58	19
19	14	10	e10	e8.5	e14	17	40	213	143	170	56	20
20	15	10	e10	e8.5	e14	12	39	209	143	163	52	21
21	15	9.9	e10	e8.0	e14	11	43	208	142	160	46	23
22	13	9.6	e9.5	e8.0	e13	11	45	205	140	151	52	23
23	13	e11	e10	e9.0	e14	11	46	215	149	145	54	23
24	12	e12	e10	e10	e12	11	40	214	197	140	53	22
25	12	e12	10	e10	e12	11	39	212	196	135	50	22
26	13	e11	e9.0	e10	11	12	41	208	190	133	48	22
27	12	e12	e8.5	e12	11	12	45	206	191	122	47	22
28	12	e12	e8.5	e12	11	11	45	201	192	113	51	22
29	12	e12	e9.0	e12	11	11	47	206	195	95	49	24
30	11	e12	e9.0	e12	---	11	53	208	199	65	48	23
31	10	---	e9.5	e12	---	11	---	209	---	26	46	---
TOTAL	409	315.2	298.3	285.5	362	377	844	6,211	5,200	5,006	1,344	658
MEAN	13.2	10.5	9.62	9.21	12.5	12.2	28.1	200	173	161	43.4	21.9
MAX	21	12	10	12	14	31	53	220	216	200	61	42
MIN	10	9.5	8.5	7.0	11	11	10	85	140	26	24	13
AC-FT	811	625	592	566	718	748	1,670	12,320	10,310	9,930	2,670	1,310

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2004, BY WATER YEAR (WY)

MEAN	35.7	26.4	21.8	21.6	25.9	38.8	73.7	166	151	166	134	81.9
MAX	241	151	128	156	146	171	398	1,109	551	365	335	242
(WY)	(1923)	(1985)	(1939)	(1939)	(1986)	(1983)	(1942)	(1922)	(1983)	(1915)	(1999)	(1917)
MIN	9.12	8.97	8.25	7.00	7.19	11.7	15.0	28.4	28.0	31.3	18.0	18.4
(WY)	(1962)	(1965)	(1973)	(1960)	(1977)	(1956)	(1935)	(1945)	(1957)	(1936)	(1934)	(1934)

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10189000 EAST FORK SEVIER RIVER NEAR KINGSTON, UT—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1914 - 2004
ANNUAL TOTAL	25,813.5	21,310.0	78.9
ANNUAL MEAN	70.7	58.2	201
HIGHEST ANNUAL MEAN			33.5
LOWEST ANNUAL MEAN			1922
HIGHEST DAILY MEAN	222	Jul 23	1,740
LOWEST DAILY MEAN	8.5	Dec 27	May 12, 1941
ANNUAL SEVEN-DAY MINIMUM	9.1	Dec 25	Feb 25, 1977
ANNUAL RUNOFF (AC-FT)	51,200	42,270	Feb 25, 1977
10 PERCENT EXCEEDS	197	196	5.5
50 PERCENT EXCEEDS	17	14	5.5
90 PERCENT EXCEEDS	10	9.5	33
			208
			13

e Estimated

