

11517500 Shasta River near Yreka, CA

Klamath River Basin

LOCATION.--Lat 41°49'23", long 122°35'40" referenced to North American Datum of 1927, in SE ¼ NE ¼ sec.24, T.46 N., R.7 W., Siskiyou County, CA, Hydrologic Unit 18010207, on right bank, 0.5 mi upstream from mouth, 7 mi north of Yreka, and 24 mi downstream from Lake Shastina.

DRAINAGE AREA.--793 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1933 to December 1941, December 1944 to current year.

CHEMICAL DATA: Water years 1959-79, 2002-03 (seasonal records only).

DISSOLVED OXYGEN: Water years 2002-04 (seasonal records only).

pH: Water years 2002-04 (seasonal records only).

SPECIFIC CONDUCTANCE: Water years 2002-04 (seasonal records only).

WATER TEMPERATURE: Water years 1965-79, 2002-04 (seasonal records only).

SEDIMENT DATA: Water years 1955-56, 1958-62.

REVISED RECORDS.--WSP 1929: Drainage area.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Elevation of gage is 2,000 ft above NGVD of 1929, from topographic map. Prior to Nov. 2, 1933, nonrecording gage at same site and datum.

REMARKS.--Records good. Low flow completely regulated by Lake Shastina (formerly Lake Dwinell) beginning in 1928; storage limited to 50,000 acre-ft. Small powerplant, 5.6 mi upstream, has operated intermittently since summer of 1987. Many diversions upstream from station for irrigation. See schematic diagram of Klamath River and Trinity River Basins available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,500 ft³/s, Dec. 22, 1964, gage height, 12.92 ft, in gage well, 13.85 ft, from floodmarks, from rating curve extended above 4,100 ft³/s, on basis of slope-area measurement of peak flow; minimum daily, 1.5 ft³/s, Aug. 24, 1981, July 17, 1985.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 630 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 2	0715	*595	*4.66

11517500 Shasta River near Yreka, CA—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	90	140	201	175	193	175	202	45	38	22	15	23
2	116	141	457	174	190	176	225	38	25	20	13	23
3	117	142	402	173	188	177	208	35	33	17	14	25
4	114	143	523	172	189	178	182	39	29	18	16	19
5	112	146	468	172	192	172	172	48	26	34	19	20
6	111	148	287	181	194	173	168	51	28	29	23	25
7	112	148	232	185	193	178	158	86	31	20	18	28
8	114	147	207	186	194	175	142	93	31	24	20	33
9	113	147	194	190	192	172	134	114	27	17	18	31
10	115	147	187	192	190	173	118	99	29	15	22	24
11	124	147	186	192	187	172	96	92	24	17	48	22
12	122	147	186	185	184	170	102	87	15	15	63	18
13	123	145	183	178	182	170	101	80	19	10	46	21
14	124	145	179	175	182	174	95	63	28	15	31	21
15	124	145	178	174	182	174	102	58	22	13	13	21
16	124	146	176	173	182	172	75	53	21	16	16	28
17	125	147	181	172	183	170	81	43	23	13	13	38
18	126	149	175	171	183	170	80	49	22	21	12	25
19	127	147	172	171	183	167	67	40	21	13	18	27
20	133	151	171	170	184	165	63	42	15	12	15	27
21	134	156	175	170	183	163	65	41	18	15	14	35
22	136	156	185	170	183	166	55	50	16	17	15	43
23	137	155	187	175	181	165	54	38	22	18	17	50
24	136	153	189	180	180	167	48	35	29	18	24	38
25	134	151	198	195	178	169	38	27	34	16	31	40
26	133	149	194	204	177	174	45	32	37	15	59	40
27	135	149	188	204	176	175	47	49	30	13	48	60
28	136	150	184	198	176	174	51	46	24	14	46	65
29	138	155	184	196	---	172	52	36	21	12	52	74
30	139	183	184	197	---	167	50	48	16	13	46	95
31	139	---	179	195	---	171	---	47	---	17	38	---
Total	3,863	4,475	6,992	5,645	5,181	5,316	3,076	1,704	754	529	843	1,039
Mean	125	149	226	182	185	171	103	55.0	25.1	17.1	27.2	34.6
Max	139	183	523	204	194	178	225	114	38	34	63	95
Min	90	140	171	170	176	163	38	27	15	10	12	18
Ac-ft	7,660	8,880	13,870	11,200	10,280	10,540	6,100	3,380	1,500	1,050	1,670	2,060

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	151	193	276	332	331	308	201	140	100	44.4	38.7	71.8
Max	351	361	1,223	1,234	1,002	946	753	678	564	147	111	182
(WY)	(1963)	(1985)	(1965)	(1997)	(1958)	(1983)	(1974)	(1998)	(1998)	(1995)	(1941)	(1978)
Min	90.7	117	120	110	133	97.7	31.8	24.5	17.9	10.1	8.35	23.1
(WY)	(1989)	(1937)	(1937)	(1937)	(1934)	(1977)	(1992)	(1992)	(1955)	(1960)	(1939)	(2009)

11517500 Shasta River near Yreka, CA—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1934 - 2013	
Annual total	48,681		39,417			
Annual mean	133		108		182	
Highest annual mean					364	1974
Lowest annual mean					77.9	1934
Highest daily mean	523	Dec 4	523	Dec 4	10,400	Dec 23, 1964
Lowest daily mean	10	Jul 11	10	Jul 13	1.5	Aug 24, 1981
Annual seven-day minimum	17	Jul 10	14	Jul 27	5.5	Aug 9, 1939
Maximum peak flow			595	Dec 2	21,500	Dec 22, 1964
Maximum peak stage			4.66	Dec 2	12.92	Dec 22, 1964
Instantaneous low flow					1.5	Aug 24, 1981
Annual runoff (ac-ft)	96,560		78,180		131,700	
10 percent exceeds	230		187		340	
50 percent exceeds	139		117		152	
90 percent exceeds	29		17		26	

