

11522500 Salmon River at Somes Bar, CA

Klamath River Basin

LOCATION.--Lat 41°22'36", long 123°28'33" referenced to North American Datum of 1927, Siskiyou County, CA, Hydrologic Unit 18010210, unsurveyed, Humboldt Meridian, in Klamath National Forest, on left bank at Somes Bar, and 1.0 mi upstream from mouth.

DRAINAGE AREA.--751 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1911 to September 1915, October 1927 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

CHEMICAL ANALYSES: Water years 1959-64.

WATER TEMPERATURE: Water year 1966-79.

SEDIMENT DATA: Water years 1955-56.

REVISED RECORDS.--WSP 1285: 1912, 1914, 1915 (instantaneous maximum discharge), 1946 (instantaneous maximum discharge), 1948 (instantaneous maximum discharge). WDR CA-72-1: 1970-71 (peaks above base).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 482.97 ft above NGVD of 1929. Prior to October 1927, nonrecording gage at different datum. October 1927 to Dec. 22, 1964, water-stage recorder at site 0.5 mi upstream at datum 6.54 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. No storage or large diversion upstream from station. See schematic diagram of Klamath River and Trinity River Basins available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 133,000 ft³/s, Dec. 22, 1964 (result of failure of upstream debris dam), gage height, 46.6 ft, present site and datum, from floodmarks, from rating curve extended above 33,000 ft³/s; minimum daily, 60 ft³/s, Sept. 21-24, 2001.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 2	1000	*26,300	*15.45

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	155	759	5,600	1,400	1,860	1,190	3,210	1,710	853	455	e183	154
2	153	569	16,000	1,340	1,810	1,220	2,830	1,570	851	434	e185	151
3	152	438	6,380	1,300	1,740	1,310	2,620	1,580	833	413	e187	150
4	151	385	8,840	1,290	1,720	1,350	3,370	1,660	804	404	e183	149
5	151	350	13,800	1,240	1,700	1,380	4,340	1,630	803	381	e178	151
6	154	324	6,610	1,230	1,650	1,680	4,250	1,620	806	364	178	150
7	159	305	4,260	1,210	1,640	1,540	4,440	2,100	772	347	173	148
8	160	309	3,180	1,250	1,560	1,450	3,900	1,900	759	334	171	144
9	162	314	2,570	1,350	1,470	1,370	3,370	2,380	737	323	181	139
10	165	294	2,190	1,470	1,410	1,340	3,100	1,980	711	309	202	134
11	163	284	1,950	1,450	1,360	1,360	3,070	1,950	674	297	201	130
12	160	283	1,820	1,390	1,310	1,480	2,780	1,860	609	e287	187	128
13	163	328	1,610	1,320	1,270	1,600	2,620	1,740	571	e283	182	127
14	168	361	1,490	1,280	1,260	1,760	2,420	1,520	552	e276	178	127
15	171	337	1,380	1,190	1,270	1,900	2,270	1,350	530	e267	174	125
16	260	314	1,480	1,170	1,300	1,880	2,120	1,280	515	e259	172	126
17	243	384	2,580	1,200	1,320	1,800	1,950	1,200	508	e251	168	130
18	206	535	2,340	1,270	1,290	1,690	1,850	1,100	501	e243	167	146
19	186	607	2,000	1,330	1,300	1,620	1,840	1,040	504	e236	162	146
20	182	2,480	1,980	1,330	1,230	2,740	1,820	985	503	e231	155	152
21	180	3,040	2,310	1,340	1,190	2,880	1,820	957	476	e226	154	301
22	255	1,460	3,070	1,360	1,160	2,250	1,890	960	457	e220	170	315
23	321	977	3,000	1,580	1,180	1,990	1,870	901	452	e213	177	267
24	353	793	2,880	3,260	1,120	1,850	1,820	840	485	e211	177	242
25	313	732	2,480	3,050	1,100	1,770	1,800	819	575	e211	201	252
26	268	655	2,340	3,660	1,070	1,740	1,800	835	849	e210	202	256
27	285	590	2,120	3,140	1,050	1,750	1,980	1,030	766	208	190	230
28	349	601	1,940	2,670	1,090	1,890	2,130	1,430	605	201	174	210
29	365	1,280	1,770	2,320	---	1,950	2,060	1,140	527	197	168	1,090
30	349	6,010	1,640	2,110	---	2,020	2,000	1,020	484	194	163	3,440
31	423	---	1,510	1,970	---	3,290	---	906	---	190	158	---
Total	6,925	26,098	113,120	52,470	38,430	55,040	77,340	42,993	19,072	8,675	5,501	9,410
Mean	223	870	3,649	1,693	1,372	1,775	2,578	1,387	636	280	177	314
Max	423	6,010	16,000	3,660	1,860	3,290	4,440	2,380	853	455	202	3,440
Min	151	283	1,380	1,170	1,050	1,190	1,800	819	452	190	154	125
Ac-ft	13,740	51,770	224,400	104,100	76,230	109,200	153,400	85,280	37,830	17,210	10,910	18,660

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	339	1,044	2,238	2,963	2,886	2,935	3,029	3,127	1,915	625	262	200
Max	2,297	5,961	10,480	11,260	11,190	9,615	5,741	6,174	4,354	1,906	839	528
(WY)	(1963)	(1974)	(1965)	(1970)	(1958)	(1972)	(1938)	(1938)	(1953)	(1953)	(1983)	(1983)
Min	102	130	175	190	255	448	710	786	402	146	81.6	80.2
(WY)	(2002)	(1937)	(1937)	(1937)	(1977)	(1977)	(1977)	(1977)	(1992)	(1931)	(1931)	(2001)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1912 - 2013	
Annual total	721,495		455,074			
Annual mean	1,971		1,247		1,792	
Highest annual mean					3,754	1974
Lowest annual mean					339	1977
Highest daily mean	16,200	Mar 30	16,000	Dec 2	100,000	Dec 22, 1964
Lowest daily mean	151	Oct 4	125	Sep 15	60	Sep 21, 2001
Annual seven-day minimum	153	Sep 30	128	Sep 11	61	Sep 18, 2001
Maximum peak flow			26,300	Dec 2	133,000	Dec 22, 1964
Maximum peak stage			15.45	Dec 2	46.60	Dec 22, 1964
Annual runoff (ac-ft)	1,431,000		902,600		1,298,000	
10 percent exceeds	4,650		2,570		4,190	
50 percent exceeds	1,200		977		1,050	
90 percent exceeds	182		163		180	

