Water-Data Report 2010

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 mi^2.

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 fair. 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 ft^3/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 ft^3/s; minimum daily, 60 ft^3/s, Sept. 21-24, 2001.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jun 4	1245	*15,100	*11.17

11522500 Salmon River at Somes Bar, CA—Continued

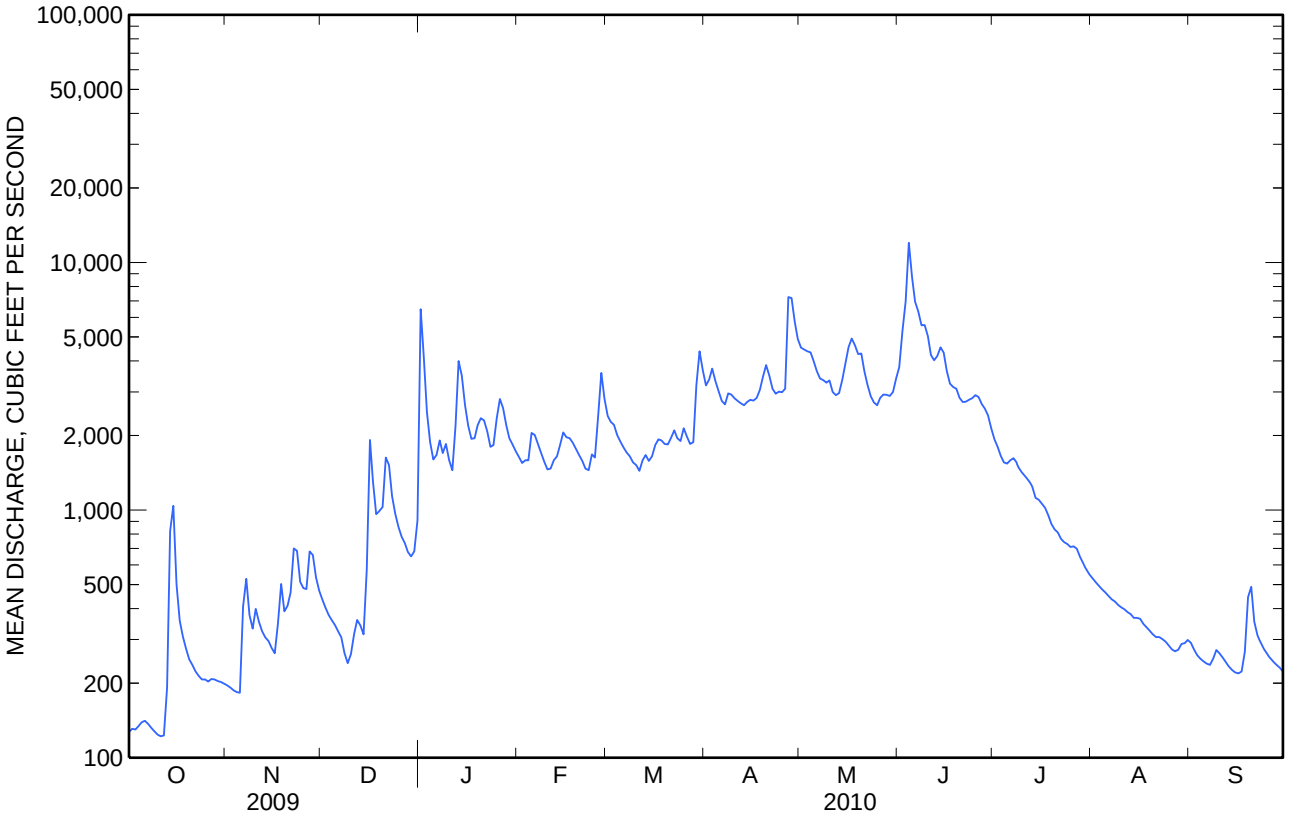
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	127	196	434	6,470	1,640	2,400	3,190	4,530	3,780	1,930	527	291
2	131	192	404	4,200	1,550	2,270	3,370	4,450	5,280	1,800	511	273
3	130	187	377	2,490	1,590	2,210	3,730	4,380	6,950	1,660	495	259
4	134	184	359	1,880	1,590	2,010	3,320	4,330	12,000	1,560	478	251
5	139	183	343	1,600	2,050	1,890	3,020	4,000	8,730	1,540	465	245
6	141	408	323	1,670	2,010	1,790	2,760	3,640	6,940	1,590	450	240
7	137	528	306	1,910	1,850	1,710	2,670	3,400	6,340	1,620	436	237
8	132	377	264	1,700	1,700	1,650	2,960	3,350	5,580	1,560	427	251
9	128	332	241	1,850	1,570	1,560	2,930	3,270	5,590	1,460	415	272
10	124	399	262	1,590	1,460	1,520	2,830	3,340	5,040	1,400	405	264
11	122	354	316	1,450	1,470	1,440	2,760	3,000	4,230	1,360	398	253
12	123	324	360	2,200	1,590	1,590	2,700	2,910	4,030	1,300	387	244
13	192	306	342	4,000	1,650	1,670	2,650	2,970	4,190	1,240	380	233
14	822	296	315	3,490	1,830	1,580	2,730	3,360	4,540	1,120	367	226
15	1,040	277	574	2,660	2,060	1,650	2,790	3,920	4,320	1,100	367	221
16	502	264	1,920	2,190	1,970	1,830	2,770	4,540	3,650	1,060	364	219
17	358	349	1,300	1,940	1,950	1,930	2,840	4,930	3,240	1,020	347	223
18	308	503	962	1,950	1,870	1,910	3,060	4,630	3,140	951	336	268
19	275	390	992	2,200	1,770	1,850	3,450	4,270	3,090	879	326	445
20	250	411	1,030	2,350	1,670	1,840	3,850	4,290	2,840	836	315	490
21	237	464	1,630	2,300	1,580	1,960	3,490	3,640	2,730	812	307	354
22	223	700	1,520	2,080	1,470	2,100	3,090	3,200	2,740	766	307	312
23	214	685	1,140	1,800	1,450	1,950	2,950	2,880	2,790	742	301	292
24	207	513	967	1,830	1,680	1,900	3,010	2,720	2,830	730	294	275
25	207	484	856	2,340	1,630	2,140	2,990	2,650	2,910	710	284	263
26	203	480	780	2,810	2,390	1,980	3,090	2,840	2,860	714	274	252
27	208	681	735	2,580	3,580	1,850	7,250	2,930	2,680	698	269	245
28	207	659	678	2,200	2,810	1,880	7,180	2,920	2,570	647	273	237
29	204	534	650	1,950	---	3,190	5,760	2,890	2,410	611	288	231
30	202	472	682	1,840	---	4,380	4,910	3,000	2,140	576	290	223
31	199	---	909	1,730	---	3,680	---	3,410	---	551	299	---
Total	7,626	12,132	21,971	73,250	51,430	63,310	104,100	110,590	130,160	34,543	11,382	8,089
Mean	246	404	709	2,363	1,837	2,042	3,470	3,567	4,339	1,114	367	270
Max	1,040	700	1,920	6,470	3,580	4,380	7,250	4,930	12,000	1,930	527	490
Min	122	183	241	1,450	1,450	1,440	2,650	2,650	2,140	551	269	219
Ac-ft	15,130	24,060	43,580	145,300	102,000	125,600	206,500	219,400	258,200	68,520	22,580	16,040

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	337	1,050	2,219	2,984	2,935	2,923	2,989	3,137	1,910	619	261	199
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)

11522500 Salmon River at Somes Bar, CA—Continued

SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1912 - 2010	
Annual total	434,561		628,583			
Annual mean	1,191		1,722		1,791	
Highest annual mean					3,754	1974
Lowest annual mean					339	1977
Highest daily mean	7,870	May 5	12,000	Jun 4	100,000	Dec 22, 1964
Lowest daily mean	104	Sep 28	122	Oct 11	60	Sep 21, 2001
Annual seven-day minimum	108	Sep 23	130	Oct 6	61	Sep 18, 2001
Maximum peak flow			15,100	Jun 4	133,000	Dec 22, 1964
Maximum peak stage			11.17	Jun 4	46.60	Dec 22, 1964
Annual runoff (ac-ft)	862,000		1,247,000		1,298,000	
10 percent exceeds	2,810		3,700		4,190	
50 percent exceeds	822		1,550		1,040	
90 percent exceeds	139		237		179