

11532500 Smith River near Crescent City, CA

Smith River Basin

LOCATION.--Lat 41°47'30", long 124°04'30" referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.9, T.16 N., R.1 E., Del Norte County, CA, Hydrologic Unit 18010101, in Humboldt meridian, in Redwood National Park, on right bank, opposite mouth of Cedar Creek, 1.6 mi downstream from South Fork, and 7 mi east of Crescent City.

DRAINAGE AREA.--614 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1931 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

CHEMICAL DATA: Water years 1952-93.

BIOLOGICAL DATA: Water years 1978-81.

SPECIFIC CONDUCTANCE: Water years 1979-81.

WATER TEMPERATURE: Water years 1966-81.

SEDIMENT DATA: Water years 1955-56, 1977-93.

REVISED RECORDS.--WSP 1929: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 79.26 ft above NGVD of 1929. Prior to Oct. 9, 1991, at site 1.1 mi upstream at datum 10.35 ft higher.

REMARKS.--Records good except for June 17 to July 22 and Aug. 21 to Sept. 4, which are fair. No regulation or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 228,000 ft³/s, Dec. 22, 1964, gage height, 48.5 ft, from floodmarks, from rating curve extended above 110,000 ft³/s, on basis of slope-area measurement at gage height 39.51 ft, former site and datum; minimum daily, 160 ft³/s, Oct. 24, 25, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Nov. 30, 1926, reached a stage of 41.40 ft, at datum 10.35 ft higher, from floodmarks, discharge, 166,000 ft³/s, from rating extension above 39.51 ft.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 36,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 20	1045	47,600	21.02
Nov 29	2215	45,600	20.65
Dec 2	0615	*77,900	*25.86
Sep 30	0400	40,200	19.62

11532500 Smith River near Crescent City, 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	260	4,900	33,900	3,930	3,160	2,600	2,800	1,290	1,390	742	376	279
2	257	2,570	51,200	3,530	2,890	2,370	2,570	1,220	1,230	695	380	287
3	253	1,650	20,100	3,230	2,670	2,210	2,360	1,180	1,120	651	374	289
4	251	1,250	24,700	3,000	2,500	2,030	3,380	1,130	1,030	607	363	277
5	254	1,020	36,300	2,870	2,460	2,310	12,000	1,090	956	568	356	271
6	259	877	15,800	2,760	2,690	6,620	12,500	1,090	868	560	351	270
7	264	776	9,910	2,650	3,190	6,100	13,400	1,140	814	547	345	266
8	263	844	7,200	2,780	3,230	4,580	12,700	1,050	775	537	349	260
9	266	1,000	5,630	3,560	2,990	3,680	8,580	997	738	525	353	253
10	265	952	4,670	4,050	2,750	3,200	6,440	962	721	508	363	247
11	263	908	4,120	3,460	2,530	2,960	5,240	933	692	493	358	244
12	261	911	4,090	3,070	2,340	2,930	4,400	903	675	478	347	244
13	282	1,880	3,550	2,770	2,200	2,790	3,810	879	657	467	340	245
14	302	1,760	3,220	2,540	2,090	2,620	3,370	861	643	459	333	245
15	293	1,380	3,000	2,350	2,050	2,480	3,060	836	625	451	328	246
16	1,650	1,150	6,410	2,250	2,000	2,330	2,760	849	612	446	325	247
17	713	2,000	22,000	2,280	1,910	2,210	2,510	847	600	443	328	248
18	426	4,000	10,600	2,380	1,810	2,020	2,320	819	601	442	322	254
19	359	4,800	7,240	2,360	1,950	1,900	2,180	800	715	433	314	253
20	353	33,200	8,950	2,300	1,780	7,090	2,090	770	712	420	304	268
21	343	21,900	14,900	2,210	1,690	7,130	1,980	795	621	412	300	453
22	512	10,000	16,400	2,150	1,650	4,590	1,890	874	585	406	299	475
23	1,560	5,780	17,600	4,420	1,960	3,590	1,800	805	571	401	327	531
24	3,120	4,180	14,400	8,170	1,880	3,030	1,710	778	616	406	315	537
25	2,660	3,560	10,800	6,280	1,860	2,670	1,640	759	797	412	307	583
26	1,390	2,940	13,900	8,830	1,800	2,440	1,590	799	1,580	397	309	553
27	1,190	2,500	9,960	6,600	1,730	2,360	1,550	1,310	1,660	389	299	426
28	1,200	2,410	7,650	5,260	1,950	2,350	1,470	3,360	1,140	381	296	367
29	1,090	15,900	6,170	4,520	---	2,280	1,410	2,340	927	376	290	5,650
30	977	34,400	5,170	3,980	---	2,190	1,350	2,150	815	375	291	20,100
31	1,520	---	4,460	3,530	---	2,520	---	1,660	---	375	286	---
Total	23,056	171,398	404,000	114,070	63,710	100,180	124,860	35,276	25,486	14,802	10,228	34,868
Mean	744	5,713	13,030	3,680	2,275	3,232	4,162	1,138	850	477	330	1,162
Max	3,120	34,400	51,200	8,830	3,230	7,130	13,400	3,360	1,660	742	380	20,100
Min	251	776	3,000	2,150	1,650	1,900	1,350	759	571	375	286	244
Ac-ft	45,730	340,000	801,300	226,300	126,400	198,700	247,700	69,970	50,550	29,360	20,290	69,160

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	972	4,415	7,794	8,432	7,182	6,547	4,496	2,758	1,306	535	338	336
Max	11,770	23,620	21,740	21,930	22,680	15,760	11,960	7,550	4,988	1,217	715	1,471
(WY)	(1951)	(1974)	(1997)	(1953)	(1986)	(1938)	(1982)	(1933)	(2010)	(1947)	(1947)	(1978)
Min	185	200	264	767	1,076	1,602	1,406	835	524	336	226	198
(WY)	(1965)	(1937)	(1977)	(1977)	(1977)	(1988)	(1977)	(1947)	(1987)	(1987)	(1959)	(1939)

11532500 Smith River near Crescent City, CA—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1932 - 2013	
Annual total	1,862,362		1,121,934			
Annual mean	5,088		3,074		3,746	
Highest annual mean					7,027	1974
Lowest annual mean					975	1977
Highest daily mean	71,200	Jan 19	51,200	Dec 2	180,000	Dec 22, 1964
Lowest daily mean	251	Oct 4	244	Sep 11	160	Oct 24, 1964
Annual seven-day minimum	257	Sep 30	245	Sep 10	163	Oct 20, 1964
Maximum peak flow			77,900	Dec 2	228,000	Dec 22, 1964
Maximum peak stage			25.86	Dec 2	^a 48.50	Dec 22, 1964
Instantaneous low flow					203	Oct 30, 2003
Annual runoff (ac-ft)	3,694,000		2,225,000		2,714,000	
10 percent exceeds	13,800		6,610		8,880	
50 percent exceeds	1,810		1,390		1,590	
90 percent exceeds	305		292		266	

^a From Floodmark.

