



Water-Data Report CA-2005

## 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, 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 mi<sup>2</sup>.

### WATER-DISCHARGE 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. No regulation or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 228,000 ft<sup>3</sup>/s, Dec. 22, 1964, gage height, 48.5 ft, from floodmarks, from rating curve extended above 110,000 ft<sup>3</sup>/s, on basis of slope-area measurement at gage height 39.51 ft, former site and datum; minimum daily, 160 ft<sup>3</sup>/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 ft<sup>3</sup>/s, from rating extension above 39.51 ft.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 36,000 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Dec 09	0800	*86,600	*26.16
No other peak greater than base discharge			

## 11532500 SMITH RIVER NEAR CRESCENT CITY, CA—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	240	832	492	6,410	3,860	2,330	7,060	2,880	2,070	1,310	520	309
2	238	797	471	5,790	3,420	2,650	5,950	2,730	1,950	1,250	516	304
3	237	1,730	454	4,440	3,160	2,400	6,920	2,580	1,840	1,200	504	305
4	234	1,460	441	3,650	3,040	2,280	8,040	2,680	1,740	1,150	491	314
5	231	1,140	439	3,100	2,850	2,110	6,620	3,080	1,700	1,110	481	308
6	227	949	1,170	2,780	2,620	1,940	5,800	3,270	2,060	1,070	472	299
7	229	826	11,000	3,120	2,620	1,810	7,060	3,260	2,050	1,050	463	296
8	258	734	60,100	4,310	2,340	1,720	17,800	7,600	1,810	1,010	455	292
9	549	672	63,500	5,460	2,160	1,640	17,900	7,920	1,790	995	445	293
10	388	641	20,200	5,560	2,010	1,550	10,100	8,320	1,760	983	438	293
11	295	606	10,200	4,470	1,900	1,480	8,010	6,680	1,640	948	429	315
12	260	565	6,760	3,770	1,800	1,420	7,420	5,250	1,540	906	421	312
13	242	548	5,110	3,260	1,790	1,360	7,130	4,400	1,450	876	413	298
14	234	518	6,400	2,870	1,730	1,260	6,960	3,830	1,390	838	404	290
15	227	499	5,200	2,700	1,660	1,190	6,190	3,700	1,330	811	400	287
16	221	493	4,100	3,240	1,590	1,120	6,140	5,060	1,370	783	395	295
17	353	472	3,410	4,810	1,530	1,080	7,310	5,370	2,270	757	391	332
18	1,050	456	2,930	6,790	1,490	1,040	6,210	10,600	5,440	729	386	326
19	1,720	444	2,590	7,040	1,500	1,570	5,320	12,800	5,420	702	384	301
20	1,840	428	2,340	6,270	1,900	9,120	4,730	8,930	4,160	683	378	288
21	877	416	2,110	5,630	2,000	10,200	4,310	6,970	3,260	663	373	278
22	649	405	1,930	5,010	1,770	9,640	4,170	5,690	2,740	654	368	273
23	3,700	398	1,780	4,770	1,640	7,730	4,200	4,810	2,380	648	358	272
24	2,040	391	1,650	4,590	1,550	6,100	4,040	4,160	2,120	624	348	269
25	1,260	483	1,560	4,530	1,480	4,870	3,720	3,680	1,930	603	342	264
26	3,840	604	2,560	4,810	1,420	4,150	3,500	3,320	1,790	585	338	259
27	2,340	601	2,650	4,380	1,400	9,480	3,490	3,030	1,680	571	330	260
28	1,540	577	2,690	5,740	2,080	18,400	3,820	2,790	1,590	560	323	256
29	1,200	531	2,620	7,900	---	25,900	3,380	2,570	1,480	550	321	253
30	1,050	509	3,810	5,580	---	13,400	3,070	2,380	1,390	539	324	250
31	960	---	4,960	4,460	---	8,950	---	2,220	---	527	316	---
<b>Total</b>	28,729	19,725	235,627	147,240	58,310	159,890	196,370	152,560	65,140	25,685	12,527	8,691
<b>Mean</b>	927	658	7,601	4,750	2,082	5,158	6,546	4,921	2,171	829	404	290
<b>Max</b>	3,840	1,730	63,500	7,900	3,860	25,900	17,900	12,800	5,440	1,310	520	332
<b>Min</b>	221	391	439	2,700	1,400	1,040	3,070	2,220	1,330	527	316	250
<b>Ac-ft</b>	56,980	39,120	467,400	292,100	115,700	317,100	389,500	302,600	129,200	50,950	24,850	17,240

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2005, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	986	4,444	7,591	8,503	7,435	6,414	4,404	2,767	1,267	532	338	330
<b>Max</b>	11,770	23,620	21,740	21,930	22,680	15,760	11,960	7,550	3,876	1,217	715	1,471
<b>(WY)</b>	(1951)	(1974)	(1997)	(1953)	(1986)	(1938)	(1982)	(1933)	(1937)	(1947)	(1947)	(1978)
<b>Min</b>	185	200	264	767	1,076	1,602	1,406	835	524	336	226	198
<b>(WY)</b>	(1965)	(1937)	(1977)	(1977)	(1977)	(1988)	(1977)	(1947)	(1987)	(1987)	(1959)	(1939)

11532500 SMITH RIVER NEAR CRESCENT CITY, CA—Continued

SUMMARY STATISTICS

	Calendar Year 2004		Water Year 2005		Water Years 1932 - 2005	
<b>Annual total</b>	1,132,073		1,110,494			
<b>Annual mean</b>	3,093		3,042		3,736	
<b>Highest annual mean</b>					7,027	1974
<b>Lowest annual mean</b>					975	1977
<b>Highest daily mean</b>	63,500	Dec 9	63,500	Dec 9	180,000	Dec 22, 1964
<b>Lowest daily mean</b>	221	Oct 16	221	Oct 16	160	Oct 24, 1964
<b>Annual seven-day minimum</b>	234	Oct 1	234	Oct 1	163	Oct 20, 1964
<b>Maximum peak flow</b>			86,600	Dec 9	228,000	Dec 22, 1964
<b>Maximum peak stage</b>			26.16	Dec 9	48.50	Dec 22, 1964
<b>Instantaneous low flow</b>					203	Oct 30, 2003
<b>Annual runoff (ac-ft)</b>	2,245,000		2,203,000		2,706,000	
<b>10 percent exceeds</b>	7,160		6,770		8,800	
<b>50 percent exceeds</b>	1,120		1,650		1,570	
<b>90 percent exceeds</b>	260		305		265	

