Water-Data Report 2007

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 mi^2.

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. No regulation or diversion upstream from station.

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 13	1000	*65,800	*23.74
Dec 25	1915	56,900	22.57
Jan 03	1700	38,400	19.46

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	244	240	4,650	5,350	1,350	6,520	3,930	2,270	928	553	336	244
2	247	287	4,160	4,640	1,300	7,520	3,450	2,980	903	532	329	242
3	248	1,380	3,620	19,200	1,260	8,900	3,100	3,380	886	513	324	242
4	260	1,870	3,200	17,900	1,220	9,210	2,840	3,370	874	504	318	253
5	284	2,220	2,940	11,100	1,190	8,890	2,670	2,990	932	492	316	262
6	273	1,790	2,780	9,900	1,160	8,480	2,560	2,690	980	474	315	253
7	260	4,140	2,610	9,210	1,350	8,750	2,740	2,540	908	461	323	241
8	251	6,590	2,450	7,440	1,890	8,730	2,590	2,350	856	453	320	234
9	244	4,640	2,930	6,380	2,870	7,030	3,630	2,160	832	436	313	231
10	239	2,590	5,350	5,630	3,090	6,670	3,410	1,990	878	428	306	230
11	235	6,280	10,400	4,920	13,200	6,870	3,500	1,840	843	427	301	228
12	233	3,310	19,500	4,340	8,510	7,870	5,190	1,750	801	438	297	229
13	233	13,500	40,800	3,890	5,620	7,470	4,340	1,660	766	440	294	235
14	233	14,900	44,300	3,540	4,410	6,320	4,230	1,580	743	425	291	240
15	240	5,640	31,200	3,240	6,760	5,300	4,360	1,510	719	411	287	242
16	313	11,300	15,400	3,020	6,320	4,960	3,880	1,470	712	410	284	237
17	431	6,280	10,100	2,800	4,990	5,060	3,700	1,410	696	416	284	240
18	322	4,020	7,520	2,600	4,170	4,710	3,690	1,360	670	539	283	238
19	277	3,470	6,050	2,450	3,570	4,560	3,520	1,310	646	505	302	230
20	264	10,200	5,100	2,310	3,990	6,510	3,320	1,280	632	443	372	226
21	256	7,940	8,390	2,160	6,780	5,060	3,370	1,270	626	431	333	222
22	250	19,000	7,430	2,050	7,760	4,250	6,310	1,210	610	430	307	218
23	247	17,500	6,960	1,950	6,470	3,820	5,220	1,160	599	411	293	219
24	245	10,100	7,450	1,860	8,880	3,600	4,390	1,130	585	400	283	218
25	242	7,630	34,900	1,780	17,400	3,880	3,870	1,100	578	389	276	216
26	239	8,950	45,100	1,710	11,700	4,350	3,430	1,080	558	379	269	213
27	240	12,200	29,100	1,640	8,920	5,980	3,090	1,050	545	374	264	211
28	240	8,290	15,200	1,570	7,300	5,740	2,880	1,020	548	366	260	221
29	239	5,980	10,400	1,500	---	4,770	2,640	989	673	360	256	240
30	237	4,740	7,910	1,450	---	4,430	2,420	966	609	356	252	248
31	237	---	6,400	1,400	---	4,230	---	944	---	347	247	---
Total	8,003	206,977	404,300	148,930	153,430	190,440	108,270	53,809	22,136	13,543	9,235	7,003
Mean	258	6,899	13,040	4,804	5,480	6,143	3,609	1,736	738	437	298	233
Max	431	19,000	45,100	19,200	17,400	9,210	6,310	3,380	980	553	372	262
Min	233	240	2,450	1,400	1,160	3,600	2,420	944	545	347	247	211
Ac-ft	15,870	410,500	801,900	295,400	304,300	377,700	214,800	106,700	43,910	26,860	18,320	13,890

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	970	4,480	7,782	8,541	7,408	6,429	4,418	2,748	1,266	531	337	328
Max	11,770	23,620	21,740	21,930	22,680	15,760	11,960	7,550	3,876	1,217	715	1,471
(WY)	(1951)	(1974)	(1997)	(1953)	(1986)	(1938)	(1982)	(1933)	(1937)	(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)

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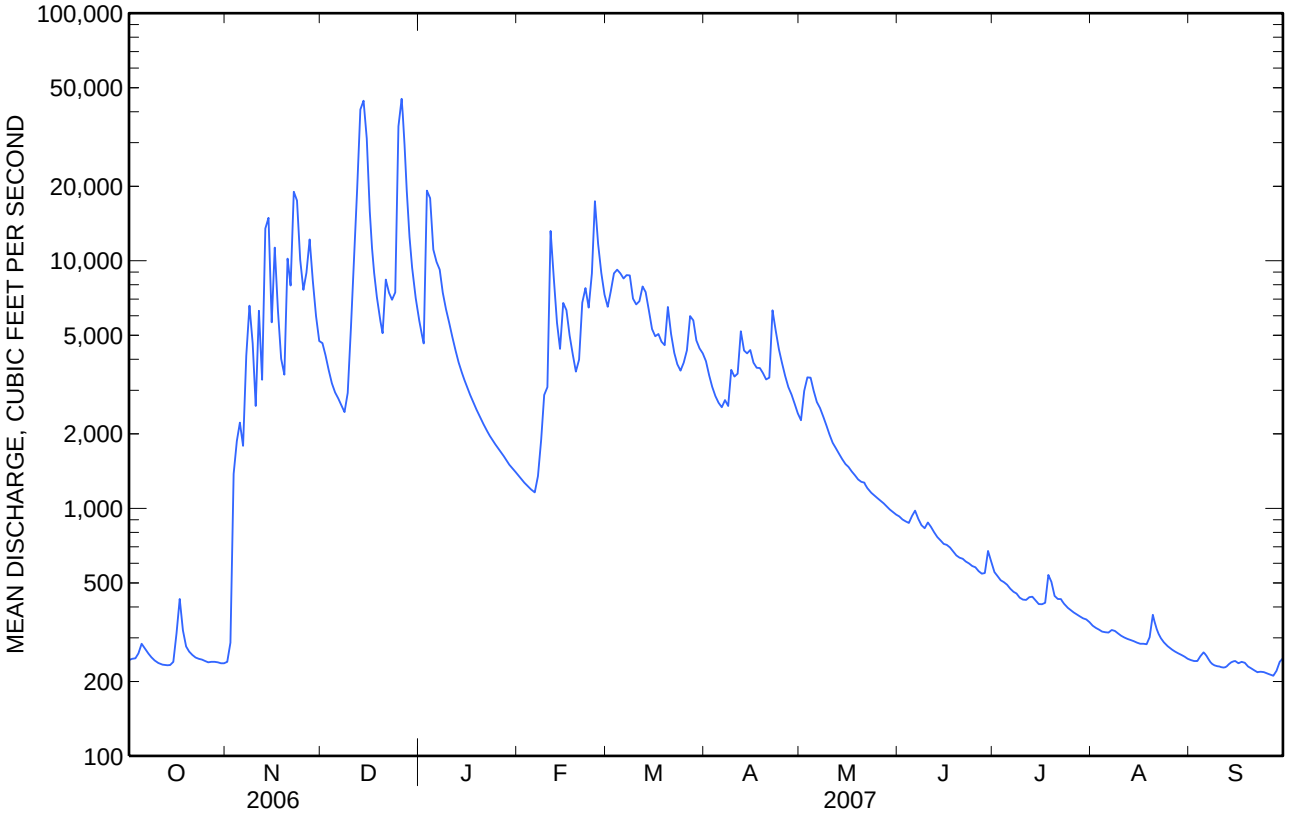
SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1932 - 2007	
Annual total	1,882,575		1,326,076			
Annual mean	5,158		3,633		3,755	
Highest annual mean					7,027	1974
Lowest annual mean					975	1977
Highest daily mean	45,100	Dec 26	45,100	Dec 26	180,000	Dec 22, 1964
Lowest daily mean	233	Oct 12	211	Sep 27	160	Oct 24, 1964
Annual seven-day minimum	237	Oct 9	217	Sep 22	163	Oct 20, 1964
Maximum peak flow			65,800	Dec 13	228,000	Dec 22, 1964
Maximum peak stage			23.74	Dec 13	[a]48.50	Dec 22, 1964
Instantaneous low flow					203	Oct 30, 2003
Annual runoff (ac-ft)	3,734,000		2,630,000		2,720,000	
10 percent exceeds	13,200		8,600		8,860	
50 percent exceeds	2,500		1,510		1,580	
90 percent exceeds	265		242		265	

[a] From Floodmark.