11482500 Redwood Creek at Orick, CA

Redwood Creek Basin

LOCATION.--Lat 41°17′58″, long 124°03′00″ referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.34, T.11 N., R.1 E., Humboldt County, CA, Hydrologic Unit 18010102, Humboldt meridian, on right bank, on U.S. Highway 101, 300 ft downstream from Prairie Creek, 0.8 mi north of Orick, and 3.7 mi upstream from mouth.

DRAINAGE AREA.--277 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1911 to September 1913, October 1953 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1315-B: 1912-13.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 5.16 ft above NGVD of 1929. Sept. 10, 1911, to Aug. 9, 1913, nonrecording gage at different datum. October 1953 to Apr. 16, 1987, at site 0.9 mi downstream at same datum. May 7 to Aug. 3, 1987, nonrecording gage at same site and datum.

REMARKS.--Record good. No regulation or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 50,500 ft^3/s, Dec. 22, 1964, former site, from outside high-water marks, maximum gage height, 28.22 ft, Jan. 1, 1997; minimum daily, 2.1 ft^3/s, Oct. 20-22, 1987.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 18, 1953, reached a stage of 23.95 ft, former site, from floodmarks, discharge, 50,000 ft^3/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 9,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 2	1145	*20,200	*22.91

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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	17	170	4,280	1,460	794	504	586	288	175	74	21	12
2	16	148	12,600	1,290	738	489	536	272	159	69	21	11
3	15	119	5,360	1,150	693	475	493	257	147	65	20	11
4	14	99	3,880	1,040	664	460	669	245	138	62	20	10
5	14	84	6,090	952	644	477	1,470	234	130	58	20	10
6	14	69	3,870	888	622	1,260	1,410	228	123	55	19	9.6
7	13	56	2,710	826	705	1,360	1,540	251	118	53	19	9.6
8	13	87	1,890	787	734	1,010	2,660	232	112	51	19	9.4
9	12	166	1,420	868	660	846	1,770	219	107	49	20	9.1
10	12	165	1,170	1,000	616	743	1,340	210	101	45	20	8.8
11	14	141	1,060	952	583	685	1,120	200	98	42	19	8.4
12	16	117	1,220	890	550	647	967	190	95	41	19	8.6
13	19	132	1,040	819	525	619	851	182	93	39	19	8.9
14	23	144	928	764	503	590	767	176	92	38	18	9.1
15	24	130	861	710	483	569	710	169	90	37	17	9.0
16	173	116	1,080	680	466	542	660	170	88	35	16	8.4
17	111	232	3,280	662	455	523	609	169	85	35	16	9.0
18	74	478	2,690	644	442	492	568	162	83	34	16	9.2
19	42	319	1,840	621	522	469	535	156	91	33	15	9.3
20	29	820	2,470	593	522	669	509	150	92	32	14	13
21	23	1,450	5,310	569	473	847	482	163	87	31	14	43
22	92	888	6,380	547	456	655	455	179	81	30	14	81
23	204	532	5,090	747	519	574	427	163	78	29	14	73
24	261	389	4,140	1,310	507	529	401	150	85	28	14	60
25	162	315	3,570	1,040	477	501	380	142	94	27	13	51
26	108	266	4,610	1,320	459	494	362	149	121	25	13	47
27	89	231	3,990	1,180	439	488	345	221	128	24	12	38
28	72	274	3,240	1,080	466	491	328	333	106	23	12	32
29	59	1,900	2,660	987	---	473	314	275	91	21	12	357
30	50	4,420	2,150	913	---	452	302	250	81	21	12	2,110
31	63	---	1,740	850	---	506	---	203	---	21	12	---
Total	1,848	14,457	102,619	28,139	15,717	19,439	23,566	6,388	3,169	1,227	510	3,085.4
Mean	59.6	482	3,310	908	561	627	786	206	106	39.6	16.5	103
Max	261	4,420	12,600	1,460	794	1,360	2,660	333	175	74	21	2,110
Min	12	56	861	547	439	452	302	142	78	21	12	8.4
Ac-ft	3,670	28,680	203,500	55,810	31,170	38,560	46,740	12,670	6,290	2,430	1,010	6,120

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	136	924	2,146	2,454	2,114	1,936	1,250	628	259	86.2	39.4	35.6
Max	1,559	5,219	8,981	6,041	6,320	5,565	4,026	1,732	1,213	199	91.6	149
(WY)	(1963)	(1974)	(1965)	(1956)	(1986)	(1975)	(1963)	(1912)	(1993)	(2005)	(1968)	(1986)
Min	2.91	35.3	42.1	180	190	297	251	188	77.3	35.7	9.89	4.44
(WY)	(1988)	(1960)	(1977)	(1977)	(1977)	(1988)	(1988)	(1987)	(1987)	(1987)	(1992)	(1992)

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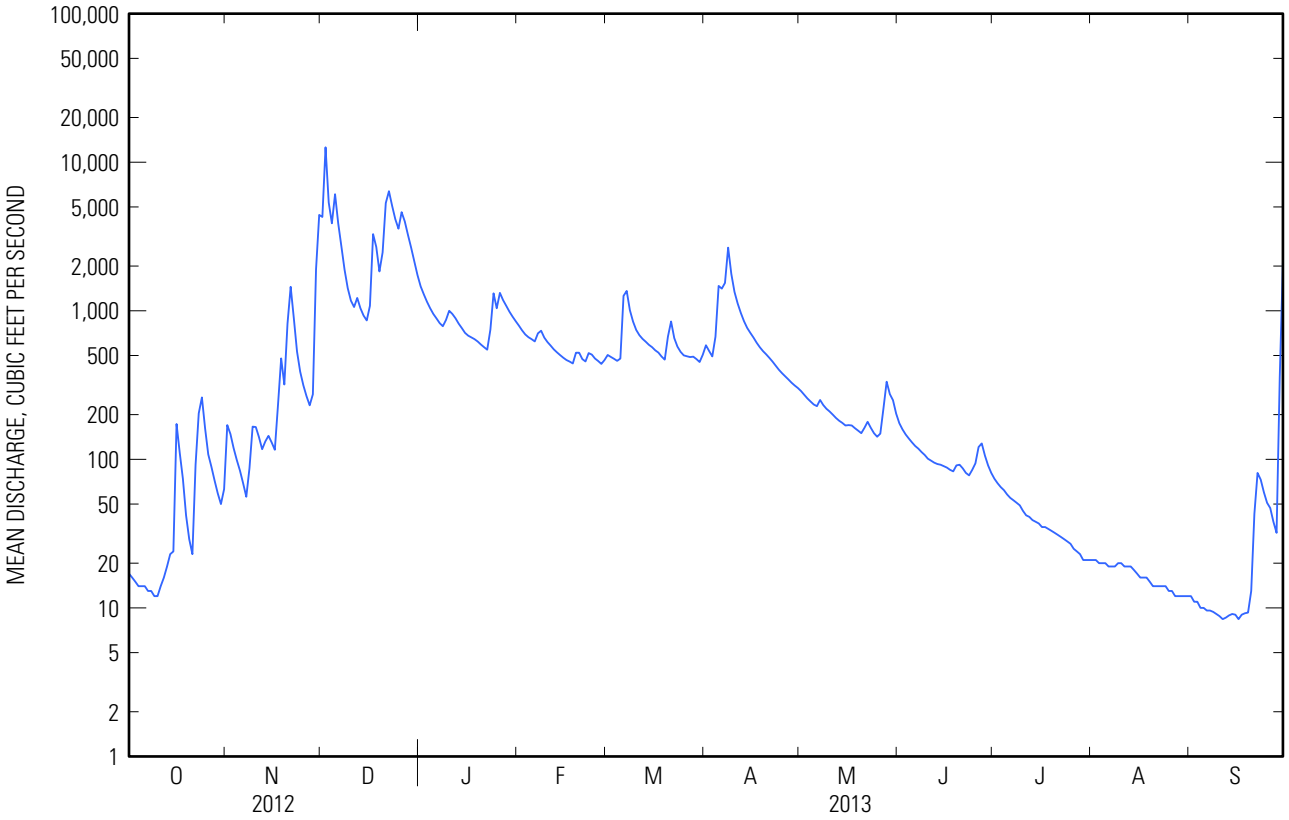
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1911 - 2013	
Annual total	416,330		220,164.4			
Annual mean	1,138		603		997	
Highest annual mean					1,726	1974
Lowest annual mean					192	1977
Highest daily mean	12,600	Dec 2	12,600	Dec 2	43,200	Dec 22, 1964
Lowest daily mean	12	Oct 9	8.4	Sep 11	2.1	Oct 20, 1987
Annual seven-day minimum	13	Oct 4	8.7	Sep 10	2.2	Oct 17, 1987
Maximum peak flow			20,200	Dec 2	50,500	Dec 22, 1964
Maximum peak stage			22.91	Dec 2	28.22	Jan 1, 1997
Annual runoff (ac-ft)	825,800		436,700		722,000	
10 percent exceeds	3,490		1,330		2,690	
50 percent exceeds	357		204		311	
90 percent exceeds	29		14		23	



WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1955-56, 1959 to current year.
CHEMICAL DATA: Water years 1959-66, 1973-81.
WATER TEMPERATURE: Water years 1966-92, 2001.
SEDIMENT DATA: Water years 1955-56, 1970-81 (daily), 1982-92, 2001 (storm season only), 1993-2000, 2002 to current year (storm season only).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1965 to September 1970.
SUSPENDED-SEDIMENT DISCHARGE: March 1970 to September 1981 (daily), October 1981 to September 1992, October 2000 to April 2001 (storm season only).

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATION: Maximum daily mean, 9,610 mg/L, Mar. 18, 1975; minimum daily mean, 0 mg/L, Nov. 10-12, 1986, Apr. 20, 29, 30, 1987, several days during 1989-90, many days during 1991 and 2001.
SEDIMENT LOAD: Maximum daily, 1,070,000 tons, Mar. 18, 1975; minimum daily, 0 ton, Nov. 10-12, 1986, Apr. 20, 29, 30, 1987, several days during 1989-90, many days during 1991 and 2001

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

[ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm, millimeters; °C, degrees Celsius; A, average]

Sample date-time	Discharge, instantaneous, ft^3/s (00061)	Temperature, water, °C (00010)	Suspended sediment concentration, mg/L (80154)	Suspended sediment discharge, tons per day (80155)	Suspended sediment, sieve diameter, percent smaller than 0.0625 mm (70331)
12-05-2012 1158	6,870	11.7	502	9,310	75
12-05-2012 1200	6,870	11.7	A 512	A 9,500	A 75
12-05-2012 1202	6,870	11.7	523	9,700	74
04-08-2013 1137	2,810	9.3	172	1,300	78
04-08-2013 1138	2,810	9.3	A 172	A 1,300	A 77
04-08-2013 1139	2,810	9.3	173	1,310	76