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.--Records fair except for discharges below 10 ft^3/s, which are poor. 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 29	0745	*15,100	*20.68
Mar 25	1900	9,450	18.09

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 11482500, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/11482500.2011.pdf

11482500 Redwood Creek at Orick, CA—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	29	359	2,050	2,950	573	764	2,950	1,010	559	181	57	29
2	29	307	3,600	2,390	547	1,100	2,500	938	541	167	56	28
3	29	271	3,130	2,110	518	1,930	2,030	893	498	156	55	25
4	28	244	2,230	1,740	503	1,930	1,650	844	467	147	55	25
5	27	224	1,790	1,480	490	1,820	1,480	816	440	137	55	24
6	26	210	1,560	1,350	479	4,110	1,360	790	429	133	54	23
7	25	1,090	1,280	1,240	469	3,140	1,450	761	414	126	53	22
8	24	901	1,190	1,140	456	3,850	1,290	725	394	119	53	22
9	24	617	1,160	1,050	446	3,780	1,140	683	377	116	52	21
10	24	1,550	2,370	969	434	3,890	1,040	630	364	112	52	20
11	25	1,040	2,160	906	425	3,790	1,020	605	353	108	50	20
12	24	672	1,960	883	414	2,970	962	589	337	106	48	19
13	23	515	1,850	1,700	402	2,680	954	568	321	105	47	19
14	21	427	3,800	2,180	417	2,940	907	556	308	102	46	20
15	21	374	3,300	1,570	1,560	3,890	1,970	550	294	101	46	19
16	20	334	2,460	1,630	3,150	6,500	4,080	557	279	99	44	19
17	20	304	2,040	1,750	2,350	4,780	3,830	539	267	98	43	19
18	20	342	2,220	1,500	1,940	4,930	4,140	534	254	100	41	19
19	20	380	3,630	1,330	1,600	5,060	3,310	511	244	103	40	19
20	20	548	5,060	1,180	1,310	4,460	2,530	491	235	101	39	18
21	20	907	4,040	1,060	1,090	4,520	2,110	478	224	96	37	18
22	21	1,260	3,590	980	946	3,930	1,710	463	210	92	36	17
23	28	4,430	2,720	906	847	3,330	1,490	449	203	88	36	16
24	1,700	2,140	2,260	837	889	4,160	1,480	435	196	83	35	17
25	1,530	1,440	2,040	782	968	7,020	1,770	446	188	80	34	19
26	599	1,120	2,770	736	862	7,450	1,950	475	182	79	34	21
27	412	2,240	2,620	690	773	6,110	1,550	493	175	77	33	20
28	425	2,230	4,520	656	739	5,490	1,350	500	224	75	32	19
29	1,010	1,610	11,900	641	---	4,390	1,240	470	228	69	32	19
30	584	1,240	6,260	664	---	3,790	1,110	439	202	63	31	18
31	425	---	3,810	604	---	3,370	---	478	---	59	30	---
Total	7,233	29,326	95,370	39,604	25,597	121,874	56,353	18,716	9,407	3,278	1,356	614
Mean	233	978	3,076	1,278	914	3,931	1,878	604	314	106	43.7	20.5
Max	1,700	4,430	11,900	2,950	3,150	7,450	4,140	1,010	559	181	57	29
Min	20	210	1,160	604	402	764	907	435	175	59	30	16
Ac-ft	14,350	58,170	189,200	78,550	50,770	241,700	111,800	37,120	18,660	6,500	2,690	1,220

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	138	943	2,157	2,484	2,160	1,938	1,238	635	262	86.4	39.6	34.6
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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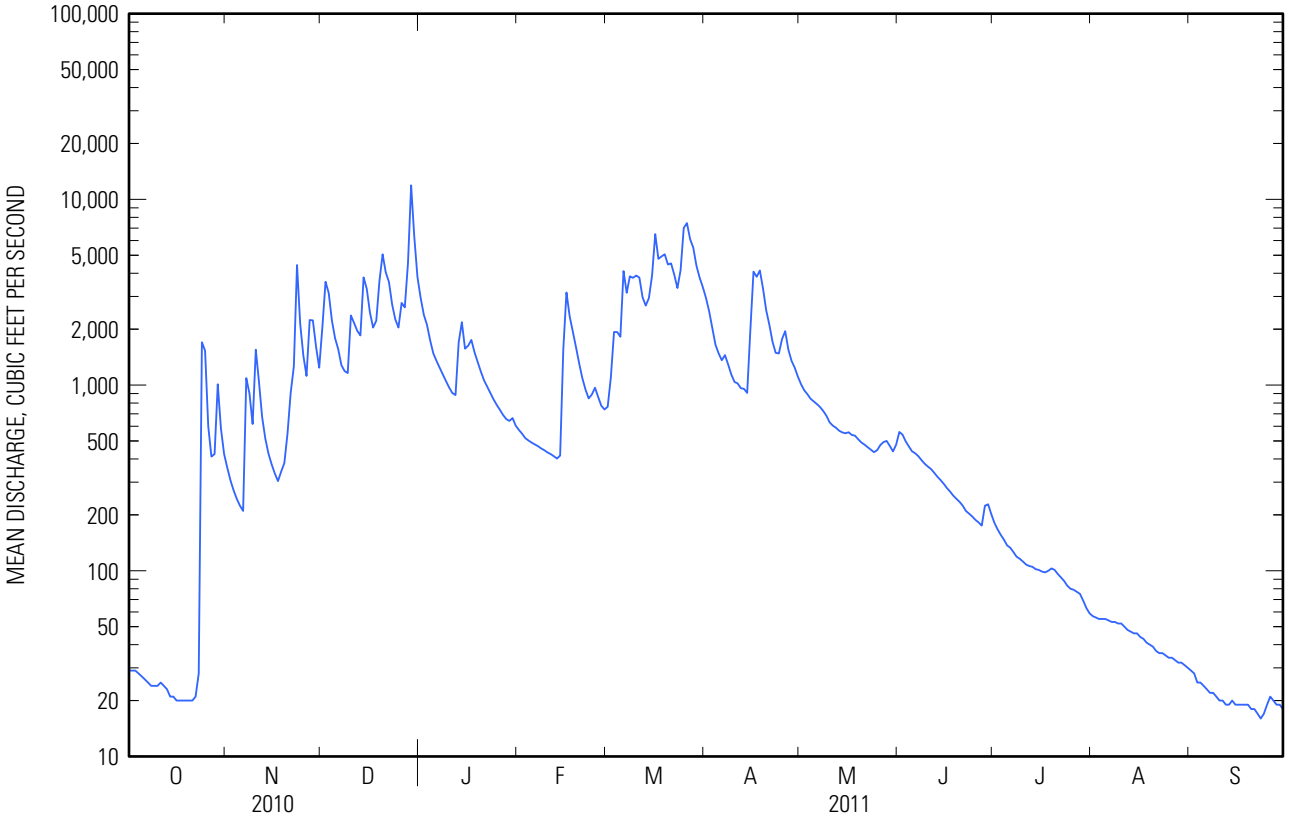
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1911 - 2011	
Annual total	428,180		408,728			
Annual mean	1,173		1,120		1,005	
Highest annual mean					1,726	1974
Lowest annual mean					192	1977
Highest daily mean	11,900	Dec 29	11,900	Dec 29	43,200	Dec 22, 1964
Lowest daily mean	20	Oct 16	16	Sep 23	2.1	Oct 20, 1987
Annual seven-day minimum	20	Oct 15	18	Sep 18	2.2	Oct 17, 1987
Maximum peak flow			15,100	Dec 29	50,500	Dec 22, 1964
Maximum peak stage			20.68	Dec 29	28.22	Jan 1, 1997
Annual runoff (ac-ft)	849,300		810,700		728,300	
10 percent exceeds	2,820		3,320		2,700	
50 percent exceeds	901		515		315	
90 percent exceeds	35		24		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 2010 TO SEPTEMBER 2011

Part 1 of 2

[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, fall diameter (deionized water), percent smaller than 0.002 mm (70337)	Suspended sediment, fall diameter (deionized water), percent smaller than 0.004 mm (70338)	Suspended sediment, fall diameter (deionized water), percent smaller than 0.008 mm (70339)	Suspended sediment, fall diameter (deionized water), percent smaller than 0.016 mm (70340)	Suspended sediment, fall diameter (deionized water), percent smaller than 0.031 mm (70341)
11-23-2010 1450	4,340	8.7	288	3,370	--	--	--	--	--
11-23-2010 1452	4,340	8.7	A 297	A 3,480	--	--	--	--	--
11-23-2010 1455	4,340	8.7	306	3,590	--	--	--	--	--
12-29-2010 1455	11,100	8.0	848	25,400	20	26	37	50	62
12-29-2010 1457	11,100	8.0	A 870	A 26,100	A 20	A 26	A 36	A 48	A 60
12-29-2010 1500	11,100	8.0	893	26,800	19	25	35	47	57

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PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 2 of 2

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

Sample date-time	Suspended sediment, sieve diameter, percent smaller than 0.0625 mm (70331)	Suspended sediment, sieve diameter, percent smaller than 0.125 mm (70332)	Suspended sediment, sieve diameter, percent smaller than 0.25 mm (70333)	Suspended sediment, sieve diameter, percent smaller than 0.5 mm (70334)	Suspended sediment, sieve diameter, percent smaller than 1 mm (70335)	Suspended sediment, sieve diameter, percent smaller than 2 mm (70336)	Suspended sediment, sieve diameter, percent smaller than 4 mm (69314)
11-23-2010 1450	74	81	90	97	100	--	--
11-23-2010 1452	A 74	A 81	A 90	A 97	A 100	--	--
11-23-2010 1455	75	82	91	97	100	--	--
12-29-2010 1455	72	81	91	99	100	--	--
12-29-2010 1457	A 70	A 79	A 90	A 98	A 99	A 99	A 100
12-29-2010 1500	68	77	89	97	98	98	100