11481500 Redwood Creek near Blue Lake, CA

Redwood Creek Basin

LOCATION.--Lat 40°54′22″, long 123°48′51″ referenced to North American Datum of 1927, in SE ¼ NE ¼ sec.15, T.6 N., R.3 E., Humboldt County, CA, Hydrologic Unit 18010102, on right bank, 400 ft upstream from Lupton Creek, and 9.1 mi east of town of Blue Lake.

DRAINAGE AREA.--67.7 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1953 to September 1958, October 1972 to September 1993, October 1997 to current year.

REVISED RECORDS.--WDR CA-78-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 850 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair. No regulation or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,200 ft^3/s, Mar. 18, 1975, gage height, 13.70 ft, from rating curve extended above 6,400 ft^3/s; minimum daily, 0.69 ft^3/s, Sept. 30, 1993.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,300 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 13	1045	*3,030	*7.03
Jan 3	1800	2,820	6.81

11481500 Redwood Creek near Blue Lake, CA—Continued

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	2.1	3.5	163	270	83	566	330	201	49	23	9.4	3.6
2	2.6	4.4	144	241	80	628	293	267	47	22	8.5	3.6
3	2.6	11	124	1,110	76	677	265	247	45	21	8.0	3.6
4	3.0	20	111	1,210	73	734	246	235	45	20	7.5	3.7
5	3.4	11	104	725	71	716	232	211	48	19	7.3	4.2
6	3.4	8.9	98	611	70	675	221	192	54	18	7.4	4.2
7	3.1	9.7	91	550	88	724	221	178	50	17	8.1	3.7
8	3.0	36	86	456	151	689	207	165	46	16	7.9	3.5
9	2.8	27	181	400	237	574	215	153	43	16	7.4	3.3
10	2.4	15	475	361	483	531	191	141	44	14	7.1	3.1
11	2.0	49	450	317	1,180	539	265	132	43	14	6.8	2.9
12	1.9	28	805	279	586	611	338	124	40	15	6.6	3.0
13	1.9	326	1,960	252	417	606	274	118	38	15	6.6	3.3
14	2.0	371	1,540	231	333	532	323	110	36	14	6.3	3.6
15	2.5	117	1,340	212	406	453	310	103	34	13	6.0	3.8
16	5.6	409	731	199	351	434	270	99	34	14	5.8	3.9
17	8.7	166	492	185	298	429	276	93	33	15	6.0	4.0
18	5.8	100	360	173	268	399	313	89	31	38	5.9	3.9
19	4.4	72	288	166	238	374	305	85	30	25	6.4	3.8
20	4.1	129	238	160	231	469	282	83	29	19	7.3	4.0
21	3.8	173	396	143	860	365	334	82	28	17	6.7	4.0
22	3.5	375	355	138	958	315	547	77	28	16	6.4	3.6
23	3.3	426	320	127	659	289	424	72	27	15	6.0	3.7
24	3.3	212	325	121	798	278	356	69	26	14	5.5	3.9
25	3.4	157	328	115	1,300	293	315	66	26	14	5.0	3.7
26	3.4	290	962	110	886	343	285	63	25	13	4.7	3.3
27	3.4	493	1,110	105	729	417	261	61	24	13	4.6	3.1
28	3.4	293	629	100	616	382	243	59	23	12	4.6	3.1
29	3.2	206	457	95	---	378	224	56	26	11	4.2	3.7
30	3.2	166	371	90	---	378	207	53	25	11	3.9	4.5
31	3.4	---	316	86	---	362	---	51	---	10	3.7	---
Total	104.6	4,704.5	15,350	9,338	12,526	15,160	8,573	3,735	1,077	514	197.6	109.3
Mean	3.37	157	495	301	447	489	286	120	35.9	16.6	6.37	3.64
Max	8.7	493	1,960	1,210	1,300	734	547	267	54	38	9.4	4.5
Min	1.9	3.5	86	86	70	278	191	51	23	10	3.7	2.9
Ac-ft	207	9,330	30,450	18,520	24,850	30,070	17,000	7,410	2,140	1,020	392	217

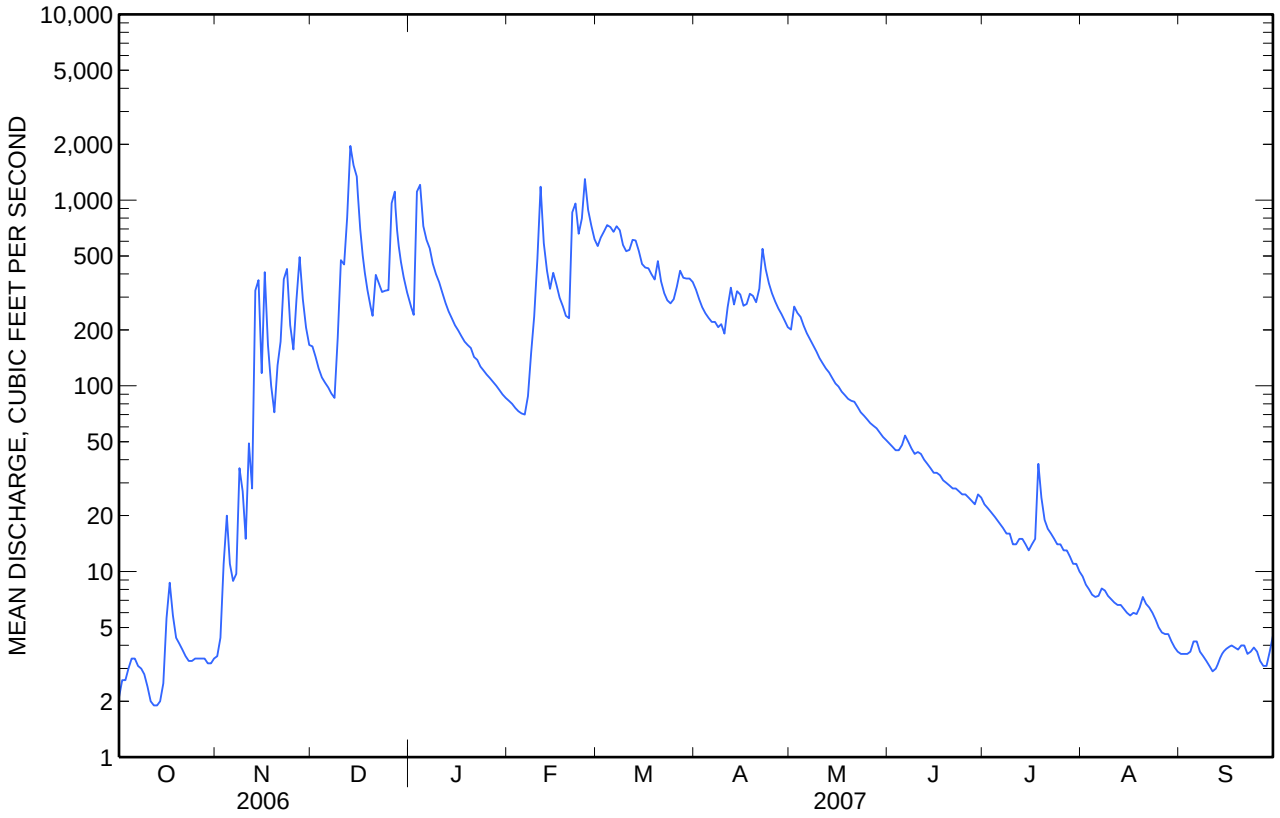
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	32.0	218	462	507	554	464	306	162	65.9	20.8	9.04	7.80
Max	226	1,179	1,563	1,628	1,479	1,306	748	392	253	46.4	27.4	29.2
(WY)	(1974)	(1974)	(1956)	(1956)	(1958)	(1975)	(1982)	(2003)	(1993)	(1993)	(1983)	(1986)
Min	1.82	15.2	12.3	31.3	42.2	81.5	62.6	53.0	22.3	9.21	3.14	1.72
(WY)	(2003)	(1977)	(1977)	(1977)	(1977)	(1988)	(1988)	(1992)	(1987)	(2002)	(1992)	(2002)

11481500 Redwood Creek near Blue Lake, CA—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1954 - 2007	
Annual total	110,954.0		71,389.0			
Annual mean	304		196		233	
Highest annual mean					423	1956
Lowest annual mean					44.2	1977
Highest daily mean	3,970	Feb 2	1,960	Dec 13	8,360	Mar 18, 1975
Lowest daily mean	1.8	Sep 14	1.9	Oct 12	0.69	Sep 30, 1993
Annual seven-day minimum	2.2	Oct 9	2.2	Oct 9	0.94	Sep 23, 2002
Maximum peak flow			3,030	Dec 13	12,200	Mar 18, 1975
Maximum peak stage			7.03	Dec 13	13.70	Mar 18, 1975
Instantaneous low flow			1.6	Oct 11		
Annual runoff (ac-ft)	220,100		141,600		168,500	
10 percent exceeds	808		535		593	
50 percent exceeds	131		83		74	
90 percent exceeds	3.3		3.6		5.7	



WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973 to current year.
CHEMICAL DATA: Water years 1974-75.
WATER TEMPERATURE: Water years 1973-92, 2001-02.
SEDIMENT DATA: Water years 1973-92, 2001-02, 2003 to current year (storm season only).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1972 to September 1992 (storm season only).
SUSPENDED-SEDIMENT DISCHARGE: October 1972 to September 1992, October 2000 to April 2002.

REMARKS.--Periodic total load sampling above 1,200 ft^3/s.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 33.5°C, Aug. 2, 1977; minimum recorded, 0.5°C, Jan. 9, 1997.
SEDIMENT CONCENTRATION: Maximum daily mean, 11,200 mg/L, Mar. 18, 1975; minimum daily mean, 0 mg/L, at times in several years.
SEDIMENT LOAD: Maximum daily, 276,000 tons, Mar. 18, 1975; minimum daily, 0 ton, at times in several years.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Date	Time	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)	Suspnd. sediment, sieve diametr percent <.063mm (70331)	Suspnd. sediment, sieve diametr percent <.125mm (70332)	Suspnd. sediment, sieve diametr percent <.25mm (70333)	Suspnd. sediment, sieve diametr percent <.5 mm (70334)	Suspnd. sediment, sieve diametr percent <1 mm (70335)	Suspnd. sediment, sieve diametr percent <2 mm (70336)
Dec											
14...	1325	1,410	10.0	280	1,070	62	69	77	88	98	100

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 1 of 3

[Remark codes: <, less than.]

Date	Time	Sampling method, code (82398)	Sampler type, code (84164)	Bag mesh size, bedload sampler mm (30333)	Tether line used in samplng (yes=1) code (04117)	Startng time, 24 hour clock, hr-min (82073)	Ending time, 24 hour clock, hr-min (82074)	Rest time on bed for bed load sample, seconds (04120)	Horizontal width of vertical, feet (04121)	Compstd samples in x-sec bedload measmnt number (04118)	Verticals in composite sample, number (04119)	Number of sampling points, count (00063)	Location in X-sect. looking dwnstrm ft from l bank (00009)
Dec													
14...	1040	1000	1100	.250	.0	1025	1055	15	4.0	2	21	21	2.00
14...	1115	1000	1100	.250	.0	1100	1130	15	4.0	2	21	21	2.00

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PARTICLE-SIZE DISTRIBUTION OF BEDLOAD
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 2 of 3
[Remark codes: <, less than.]

Date	Stream width, feet (00004)	Instan-taneous dis-charge, cfs (00061)	Temper-ature, water, deg C (00010)	Bedload sedimnt dschrge average unit cmposit t/d/ft (04122)	Bedload sedi-ment dis-charge, tons/d (80225)	Bedload sedi-ment, sieve diametr percent <.25mm (80228)	Bedload sedi-ment, sieve diametr percent <.5 mm (80229)	Bedload sedi-ment, sieve diametr percent <1 mm (80230)	Bedload sedi-ment, sieve diametr percent <2 mm (80231)	Bedload sedi-ment, sieve diametr percent <4 mm (80232)	Bedload sedi-ment, sieve diametr percent <8 mm (80233)	Bedload sedi-ment, sieve diametr percent <16 mm (80234)	Bedload sedi-ment, sieve diametr percent <32 mm (80235)
Dec													
14...	83.0	1,580	10.0	18.9	1,420	<1	2	6	12	26	48	74	93
14...	83.0	1,530	10.0	14.9	1,420	<1	3	13	30	47	60	77	93

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 3 of 3
[Remark codes: <, less than.]

Date	Bedload sedi-ment, sieve diametr percent <64 mm (80236)
Dec	
14...	100
14...	100