

11451000 CACHE CREEK NEAR LOWER LAKE, CA

LOCATION.—Lat 38°55'27", long 122°33'53", in sec.6, T.12 N., R.6 W., Lake County, Hydrologic Unit 18020116, on left bank, 500 ft downstream from Cache Creek Dam, 1.9 mi downstream from Copsey Creek, and 2.5 mi northeast of Lower Lake.

DRAINAGE AREA.—528 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—May 1944 to current year.

GAGE.—Water-stage recorder and rain gage (station 385525122335501). Datum of gage is 1,279.34 ft above NGVD of 1929. Prior to Oct. 2, 1987, at datum 1.00 ft higher.

REMARKS.—Records fair. Flow regulated by Clear Lake (station 11450000) from Cache Creek Dam, 500 ft upstream. See schematic diagram of lower Sacramento River Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 10,200 ft³/s, Feb. 17, 1998, gage height, 11.01 ft, present datum; no flow Nov. 8–20, 1977, Apr. 5, 6, 1987.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	4.9	4.2	1510	16	20	426	3000	609	504	442	362
2	6.0	4.7	4.3	1770	16	20	83	2990	302	522	458	397
3	5.7	4.5	4.4	1770	16	21	21	3030	231	532	487	408
4	5.8	4.3	107	1760	16	21	365	3050	537	518	520	392
5	5.8	4.1	102	1760	17	21	495	2950	586	494	518	378
6	5.6	4.0	6.5	1750	18	24	491	2670	560	461	507	379
7	5.5	4.1	5.6	1740	19	24	154	985	548	443	508	379
8	5.5	4.0	5.5	1730	21	21	22	488	534	498	485	379
9	5.5	4.0	5.5	1730	19	21	22	196	506	551	436	372
10	5.5	4.1	5.5	1780	16	21	21	20	479	552	405	365
11	5.4	4.0	5.3	1760	17	21	22	20	484	587	396	407
12	5.5	3.9	5.2	1750	17	21	1000	60	490	627	398	403
13	5.5	3.8	5.5	1810	17	20	2710	194	457	637	419	320
14	5.6	3.8	7.6	1790	17	20	2770	281	451	612	443	319
15	5.5	3.8	5.6	1800	17	2240	2780	322	451	635	457	323
16	5.4	3.8	981	1800	18	2800	2730	273	453	644	463	299
17	5.3	3.9	9.1	1800	18	1070	1110	229	482	642	460	231
18	5.3	4.0	8.1	1790	18	23	41	229	504	660	420	134
19	5.1	4.0	8.2	1790	18	20	362	118	502	621	388	141
20	5.0	3.9	7.9	1770	18	721	483	18	491	587	390	151
21	4.8	3.9	7.1	1760	18	893	485	18	469	576	390	138
22	4.7	4.1	7.1	1780	19	345	857	18	458	580	443	132
23	4.6	4.1	7.2	1820	19	250	989	266	458	603	480	134
24	4.7	4.2	7.4	1800	19	797	2230	515	454	603	447	133
25	4.6	4.0	7.6	1190	19	724	2640	581	459	561	344	122
26	4.6	3.9	7.6	626	19	138	2430	560	482	501	314	99
27	4.4	4.0	7.6	199	19	20	1670	559	498	473	347	75
28	4.5	4.1	7.9	14	20	20	2640	576	499	464	370	40
29	4.7	4.0	8.0	15	---	20	3050	583	497	440	369	73
30	4.7	4.1	465	15	---	21	3020	589	502	424	369	161
31	4.8	---	1210	16	---	383	---	590	---	422	352	---
TOTAL	161.9	122.0	3036.5	44395	501	10781	36119	25978	14433	16974	13225	7646
MEAN	5.22	4.07	98.0	1432	17.9	348	1204	838	481	548	427	255
MAX	6.3	4.9	1210	1820	21	2800	3050	3050	609	660	520	408
MIN	4.4	3.8	4.2	14	16	20	21	18	231	422	314	40
AC-FT	321	242	6020	88060	994	21380	71640	51530	28630	33670	26230	15170
a	0.00	3.71	17.90	2.71	2.00	3.73	5.36	0.85	0.00	0.02	0.56	0.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2003, BY WATER YEAR (WY)

MEAN	32.5	15.3	107	626	812	804	537	340	382	401	322	169
MAX	191	683	2584	3047	4988	4919	3538	951	702	651	514	325
(WY)	1996	1984	1984	1997	1998	1983	1958	1983	2000	1998	1999	1995
MIN	0.40	0.17	0.14	0.18	0.17	0.32	0.42	0.40	0.29	0.41	0.71	0.55
(WY)	1978	1978	1991	1991	1991	1955	1990	1990	1991	1977	1977	1977

SUMMARY STATISTICS

FOR 2002 CALENDAR YEAR

FOR 2003 WATER YEAR

WATER YEARS 1945 - 2003

ANNUAL TOTAL	82219.8	173372.4	
ANNUAL MEAN	225	475	
HIGHEST ANNUAL MEAN			1342 1983
LOWEST ANNUAL MEAN			0.67 1990
HIGHEST DAILY MEAN	1920	Jan 6	3050 Apr 29
LOWEST DAILY MEAN	3.8	Nov 13	3.8 Nov 13
ANNUAL SEVEN-DAY MINIMUM	3.9	Nov 11	3.9 Nov 11
MAXIMUM PEAK FLOW			4810 Dec 16
MAXIMUM PEAK STAGE			8.97 Dec 16
ANNUAL RUNOFF (AC-FT)	163100	343900	273000
10 PERCENT EXCEEDS	518	1750	633
50 PERCENT EXCEEDS	16	302	60
90 PERCENT EXCEEDS	4.6	4.7	1.2

a Precipitation, in inches.

11451000 CACHE CREEK NEAR LOWER LAKE, CA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—January 2000 to September 2000.

CHEMICAL DATA: February 2000 to September 2000.

SEDIMENT DATA: January 2000 to September 2000.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

(NOT PREVIOUSLY PUBLISHED)

Date	Time	Instan- taneous dis- charge, cfs (00061)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, deg C (00010)	Alka- linity, wat flt Gran, field, mg/L as CaCO3 (29802)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)
FEB 29...	0920	1910	7.6	185	9.0	74.0	.48	.59	.02
MAR 17...	0940	--	7.8	255	--	106	.28	.52	.04

Date	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, unfltrd mg/L (00665)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)
FEB 29...	<.05	<.010	.02	.035	.111	.5	3.7
MAR 17...	<.05	<.010	<.01	.011	.048	.4	3.2

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

(NOT PREVIOUSLY PUBLISHED)

Date	Time	Instan- taneous dis- charge, cfs (00061)	Temper- ature, deg C (00010)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment load, tons/d (80155)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)
JAN						
07...	SS 1345	3.6	7.0	18	.17	71
20...	SS 1815	4.3	7.5	7	.08	84
26...	SS 1330	4.7	10.0	25	.32	77
FEB						
08...	SS 1610	6.3	9.5	26	.44	91
17...	SS 1650	7.9	9.5	26	.55	85
29...	SS 0920	1910	9.0	53	273	95
MAR						
08...	SS 1000	--	8.5	40	--	88
17...	SS 0940	--	--	31	--	97
APR						
05...	SS 1740	18	15.5	11	.53	84
MAY						
11...	SS 1720	468	16.5	8	10	72
JUN						
14...	SS 0940	730	22.5	36	71	47

< Actual value is known to be less than value shown.

SS Suspended-sediment data determined from a sample collected and processed according to National Water Quality Assessment (NAWQA) protocol.