

## 11396000 Lost Creek near Clipper Mills, CA

Sacramento River Basin

LOCATION.--Lat 39°34'25", long 121°08'26" referenced to North American Datum of 1927, in SE ¼ SW ¼ sec.24, T.20 N., R.7 E., Butte County, CA, Hydrologic Unit 18020123, in Plumas National Forest, on left bank, 0.3 mi downstream from Pinkard Creek above Lost Creek Reservoir, and 2.8 mi north of Clipper Mills.

DRAINAGE AREA.--30.0 mi<sup>2</sup>.

### **SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1927 to September 1941, October 1948 to current year. Records for Woodleaf Powerplant from February 1963 to September 1966 in files of the U.S. Geological Survey.

REVISED RECORDS.--WSP 1395: 1954. WSP 1931: Drainage area.

GAGE.--Water-stage recorder. Sharp-crested weir for low-water control since June 20, 1987. Elevation of gage is 3,170 ft above NGVD of 1929, from topographic map. Prior to June 20, 1987, at site 100 ft downstream at same datum.

COOPERATION.--Records, including diversion through Woodleaf Powerhouse, provided by South Feather Water and Power Agency, under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 2088.

REMARKS.--Flow regulated by Sly Creek Reservoir (station 11395400) 1.5 mi upstream and Lost Creek Reservoir 0.3 mi upstream, usable capacity, 5,920 acre-ft with flashboards. Water is diverted into Sly Creek Reservoir through South Fork Diversion Tunnel from South Fork Feather River and through Slate Creek Tunnel (station 11413250) from North Yuba River Basin. Woodleaf Tunnel diverts from Lost Creek Reservoir to Woodleaf Powerhouse (station 11396090). Oroville-Wyandotte Canal (station 11395500) diverts from Woodleaf Penstock for irrigation and domestic use. Records represent seepage, release, and spill from Lost Creek Reservoir to Lost Creek. See schematic diagram of South Fork Feather River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,760 ft<sup>3</sup>/s, Jan. 1, 1997, gage height, 13.50 ft; no flow at times in some years.

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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	10	9.8	5.3	5.6	5.8	6.5	8.6	8.9	8.8	8.5	9.3	9.1
2	10	7.9	5.3	5.5	5.9	6.5	8.6	9.1	8.8	8.4	9.1	9.1
3	10	6.1	5.3	5.6	5.9	6.4	8.6	9.1	8.8	8.4	9.0	9.2
4	9.9	6.1	5.3	6.0	5.9	6.3	8.6	9.1	8.8	8.4	9.0	9.3
5	9.8	6.1	5.3	5.7	5.9	6.3	8.6	9.0	8.9	8.5	8.9	9.3
6	9.8	5.8	5.3	5.7	5.9	6.3	8.6	9.8	8.7	8.4	8.8	9.3
7	9.8	5.4	5.3	5.7	6.1	6.4	8.7	10	8.6	8.4	8.8	9.3
8	9.9	5.3	5.3	5.7	6.4	6.5	8.7	9.9	8.5	8.4	8.8	9.3
9	10	5.3	6.1	5.7	7.8	6.5	8.8	9.7	8.7	8.4	8.8	9.6
10	10	5.3	5.8	5.6	9.3	6.5	9.5	9.4	8.8	8.4	8.8	10
11	10	5.3	5.7	5.5	8.6	6.5	9.0	9.3	8.6	8.4	8.8	10
12	10	5.3	6.0	5.4	7.1	6.4	8.9	9.3	8.4	8.3	8.8	9.6
13	9.9	5.6	6.1	5.3	6.7	6.3	8.8	9.3	8.4	8.2	8.9	9.5
14	9.8	5.5	5.8	5.3	6.5	6.2	9.0	9.8	8.4	8.2	9.1	9.5
15	9.8	5.3	6.0	5.3	6.4	6.1	8.8	9.7	8.4	8.2	9.1	9.4
16	9.8	5.5	5.7	5.3	6.2	6.1	8.8	9.6	8.6	8.9	9.1	9.3
17	9.7	5.5	5.7	5.3	6.1	6.1	8.9	9.7	8.6	9.5	9.1	9.3
18	9.5	5.5	5.5	5.3	6.1	6.1	9.0	9.7	8.6	9.5	9.1	9.3
19	9.5	5.5	5.3	5.3	6.1	6.1	8.8	9.5	8.6	9.5	9.1	9.3
20	9.5	5.5	5.3	5.3	6.1	6.1	8.8	9.3	8.6	9.5	9.1	9.3
21	9.6	5.4	5.6	5.3	6.1	6.1	9.0	9.2	8.6	9.5	9.1	9.3
22	9.8	5.4	5.6	5.3	6.3	6.1	9.9	8.8	8.6	9.5	9.1	9.3
23	9.8	5.5	5.3	5.3	6.1	6.1	9.4	8.8	8.6	9.5	9.1	9.4
24	9.8	5.5	5.3	5.3	6.3	6.1	9.3	8.8	8.6	9.5	9.1	9.3
25	9.8	5.5	5.3	5.3	7.3	6.1	9.2	8.8	8.6	9.4	9.1	9.3
26	9.8	5.6	5.5	5.3	7.2	6.3	9.1	8.8	8.6	9.3	9.0	9.3
27	9.8	5.7	6.1	5.3	7.0	6.2	9.1	8.8	8.6	9.3	9.1	9.3
28	9.8	5.5	5.7	5.3	6.6	6.1	8.9	8.8	8.5	9.3	9.1	9.4
29	9.8	5.4	5.7	5.3	---	6.1	8.8	8.7	8.5	9.3	9.1	9.6
30	9.8	5.3	5.7	5.5	---	7.3	8.8	8.8	8.6	9.3	9.1	9.5
31	9.8	---	5.7	5.7	---	8.6	---	8.8	---	9.3	9.1	---
<b>Total</b>	304.3	172.4	172.9	169.0	183.7	197.3	267.6	286.3	258.4	275.6	279.5	281.7
<b>Mean</b>	9.82	5.75	5.58	5.45	6.56	6.36	8.92	9.24	8.61	8.89	9.02	9.39
<b>Max</b>	10	9.8	6.1	6.0	9.3	8.6	9.9	10	8.9	9.5	9.3	10
<b>Min</b>	9.5	5.3	5.3	5.3	5.8	6.1	8.6	8.7	8.4	8.2	8.8	9.1
<b>Ac-ft</b>	604	342	343	335	364	391	531	568	513	547	554	559
<b>Diversion, in acre-feet, through Woodleaf Powerhouse</b>	13,620	22,840	19,360	13,970	15,190	11,750	11,690	10,640	10,900	13,660	15,450	10,140

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1961, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	3.78	8.61	66.0	93.4	170	175	191	129	29.9	6.42	4.23	5.13
<b>Max</b>	13.4	121	544	485	562	467	423	441	153	34.7	10.2	15.3
<b>(WY)</b>	(1928)	(1951)	(1956)	(1956)	(1958)	(1938)	(1938)	(1952)	(1952)	(1952)	(1961)	(1960)
<b>Min</b>	.20	.000	.000	.15	.50	25.7	4.68	1.21	1.33	.20	.10	.10
<b>(WY)</b>	(1935)	(1960)	(1960)	(1960)	(1937)	(1933)	(1931)	(1931)	(1934)	(1939)	(1934)	(1934)

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## SUMMARY STATISTICS

Water Years 1928 - 1961		
Annual mean	73.0	
Highest annual mean	167	1938
Lowest annual mean	6.78	1931
Highest daily mean	3,840	Dec 22, 1955
Lowest daily mean	.00	Jul 30, 1940
Annual seven-day minimum	.00	Nov 1, 1959
Maximum peak flow	5,000	Dec 22, 1955
Maximum peak stage	<sup>a</sup> 6.90	Dec 22, 1955
Annual runoff (ac-ft)	52,890	
10 percent exceeds	212	
50 percent exceeds	8.4	
90 percent exceeds	.30	

<sup>a</sup> Site then in use

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	12.4	6.74	37.5	50.2	69.1	75.2	71.2	57.2	35.9	4.95	4.49	4.77
Max	392	179	417	674	512	573	836	454	750	16.0	22.2	34.4
(WY)	(1963)	(1963)	(1998)	(1997)	(1986)	(1983)	(2006)	(1995)	(1995)	(1962)	(1966)	(1997)
Min	0.01	0.03	0.09	0.10	0.35	0.33	0.22	0.13	0.10	0.10	0.00	0.00
(WY)	(1965)	(1975)	(1975)	(1962)	(1964)	(1964)	(1968)	(1968)	(1966)	(1963)	(1964)	(1963)

## SUMMARY STATISTICS

	Calendar Year 2006	Water Year 2007	Water Years 1962 - 2007
Annual total	45,964.2	2,848.7	
Annual mean	126	7.80	35.6
Highest annual mean			200
Lowest annual mean			0.49
Highest daily mean	1,400	Apr 16	10
Lowest daily mean	5.3	Nov 8	5.3
Annual seven-day minimum	5.3	Nov 30	5.3
Maximum peak flow			68
Maximum peak stage			5.83
Annual runoff (ac-ft)	91,170	5,650	25,810
Total diversion (ac-ft) <sup>a</sup>	284,000	169,200	
10 percent exceeds	405	9.7	14
50 percent exceeds	9.8	8.6	3.5
90 percent exceeds	5.6	5.3	0.20

<sup>a</sup> Diversion, in acre-feet, through Woodleaf Powerplant, provided by South Feather Water and Power Agency.

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