

Water-Data Report 2013

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 mi².

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 (station 11396090), 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. 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 ft³/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 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	8.9	7.0	10	6.9	7.0	6.8	8.6	9.1	8.7	8.6	8.9	8.5
2	9.0	5.9	259	6.8	7.0	6.8	8.8	9.1	8.6	8.6	8.9	8.6
3	9.1	6.4	138	6.8	7.0	6.8	8.9	9.0	8.6	8.6	8.9	8.6
4	9.1	6.4	7.8	6.8	6.8	6.8	8.9	8.9	8.6	8.6	8.9	8.8
5	8.9	6.4	8.3	6.8	6.9	6.8	8.9	8.9	8.6	8.8	8.9	8.9
6	8.9	6.4	7.6	6.8	6.9	7.1	8.9	8.9	8.6	9.1	8.9	8.9
7	8.8	6.4	7.3	6.8	7.0	7.0	8.9	8.9	8.6	9.1	8.9	8.9
8	8.7	6.4	7.0	6.8	7.0	7.0	8.9	8.9	8.6	9.1	8.9	8.9
9	8.6	6.4	7.0	6.9	7.0	6.9	8.9	8.9	8.6	9.1	8.9	8.8
10	8.6	6.4	6.8	6.8	7.0	6.7	8.9	8.9	8.6	9.1	8.9	8.8
11	8.5	6.5	6.8	6.8	7.0	6.6	8.9	8.9	8.6	9.1	8.8	8.9
12	8.4	6.6	6.9	6.8	7.0	6.6	8.9	8.9	8.6	8.8	8.9	8.9
13	8.5	6.6	6.8	6.8	16	6.6	9.0	8.9	8.6	8.6	8.9	8.8
14	8.6	6.6	6.8	6.8	22	6.6	9.1	8.9	8.6	8.6	8.9	8.6
15	8.6	6.6	6.6	6.8	21	6.6	9.1	8.9	8.6	8.6	8.9	8.7
16	8.8	6.6	6.7	6.8	21	6.6	9.1	8.9	8.7	8.6	8.9	8.7
17	8.8	7.7	7.5	6.8	24	6.6	9.1	8.9	8.8	8.6	8.9	8.6
18	8.6	6.9	7.2	6.8	23	6.6	9.1	8.9	8.8	8.6	8.9	8.6
19	8.6	6.6	7.0	6.8	26	6.6	9.1	8.9	8.9	8.6	8.9	8.6
20	8.7	7.1	7.0	6.8	23	7.2	9.1	8.9	8.9	8.6	8.9	8.6
21	8.7	7.2	7.1	6.8	22	6.9	9.1	8.9	8.9	8.6	8.9	8.8
22	9.2	6.8	8.3	6.7	19	6.8	9.1	8.9	8.8	8.6	8.9	8.8
23	9.0	6.6	9.9	6.8	20	6.8	9.1	8.9	8.9	8.6	8.9	8.8
24	8.8	6.6	9.7	6.8	19	6.8	9.1	8.9	8.9	8.6	8.8	8.8
25	8.4	6.6	8.7	6.8	7.3	6.7	9.1	8.9	8.9	8.6	8.6	8.9
26	8.3	6.6	8.3	6.9	6.8	7.7	9.1	8.9	8.6	8.6	8.5	8.9
27	8.2	6.6	7.9	7.0	6.8	9.2	9.1	8.9	8.6	8.6	8.4	8.9
28	8.3	6.9	7.6	7.0	6.8	8.6	9.1	8.9	8.6	8.6	8.4	8.9
29	8.3	7.7	7.4	7.0	---	8.6	9.1	8.9	8.6	8.7	8.4	8.9
30	8.2	54	7.3	7.0	---	8.6	9.1	8.8	8.6	8.9	8.4	8.9
31	8.3	---	7.0	7.0	---	8.7	---	8.8	---	8.9	8.4	---
Total	268.4	247.5	617.3	212.0	367.3	220.7	270.1	276.2	260.6	270.7	272.5	263.3
Mean	8.66	8.25	19.9	6.84	13.1	7.12	9.00	8.91	8.69	8.73	8.79	8.78
Max	9.2	54	259	7.0	26	9.2	9.1	9.1	8.9	9.1	8.9	8.9
Min	8.2	5.9	6.6	6.7	6.8	6.6	8.6	8.8	8.6	8.6	8.4	8.5
Ac-ft	532	491	1,220	421	729	438	536	548	517	537	541	522
Diversion, in acre-feet, through Woodleaf Powerhouse	11,070	15,710	30,290	30,690	6,100	14,580	7,930	4,660	2,340	4,630	11,990	13,370

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
Mean	3.78	8.61	66.0	93.4	170	175	191	129	29.9	6.42	4.23	5.13
Max	13.4	121	544	485	562	467	423	441	153	34.7	10.2	15.3
(WY)	(1928)	(1951)	(1956)	(1956)	(1958)	(1938)	(1938)	(1952)	(1952)	(1952)	(1961)	(1960)
Min	.20	.000	.000	.15	.50	25.7	4.68	1.21	1.33	.20	.10	.10
(WY)	(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	^a 6.90 Dec 22, 1955
Annual runoff (ac-ft)	52,890
10 percent exceeds	212
50 percent exceeds	8.4
90 percent exceeds	.30

^a Site then in use

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	12.1	6.80	34.2	45.1	61.9	73.3	76.2	67.6	38.1	6.35	5.06	5.25
Max	392	179	417	674	512	573	836	510	750	57.5	22.2	34.4
(WY)	(1963)	(1963)	(1998)	(1997)	(1986)	(1983)	(2006)	(2011)	(1995)	(2011)	(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 2012	Water Year 2013	Water Years 1962 - 2013
Annual total	8,415.7	3,546.6	
Annual mean	23.0	9.72	35.9
Highest annual mean			200 1995
Lowest annual mean			0.49 1964
Highest daily mean	653 Apr 27	259 Dec 2	4,490 Jan 1, 1997
Lowest daily mean	5.5 Jan 1	5.9 Nov 2	0.00 Oct 21, 1961
Annual seven-day minimum	5.5 Jan 1	6.3 Nov 2	0.00 Oct 21, 1961
Maximum peak flow		485 Dec 2	5,760 Jan 1, 1997
Maximum peak stage		7.42 Dec 2	13.50 Jan 1, 1997
Annual runoff (ac-ft)	16,690	7,030	25,980
Total diversion (ac-ft) ^a	160,600	153,400	
10 percent exceeds	9.7	9.1	14
50 percent exceeds	8.7	8.6	4.1
90 percent exceeds	5.7	6.8	0.24

^a Diversion, in acre-feet, through Woodleaf Powerhouse (station 11396090), provided by South Feather Water and Power Agency.

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