Water-Data Report 2008

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^2.

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 ft^3/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 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	9.5	8.8	6.7	6.7	6.8	7.6	8.5	9.1	9.5	9.1	9.1	9.5
2	9.7	7.5	6.7	6.5	6.7	7.3	8.5	9.1	9.4	9.3	9.4	9.5
3	10	6.5	6.7	6.6	6.8	7.2	8.8	9.1	9.5	9.3	9.5	9.5
4	11	6.5	7.1	9.1	6.7	7.2	9.1	9.1	9.6	9.3	9.5	9.4
5	11	6.5	6.7	7.6	6.7	7.2	9.1	9.1	9.5	9.3	9.5	9.3
6	10	6.5	6.9	7.2	6.7	7.1	9.1	9.1	9.5	9.5	9.5	9.4
7	11	6.5	6.9	6.8	6.5	7.0	9.1	9.1	9.5	9.5	9.5	9.5
8	12	6.5	6.7	6.7	6.5	7.0	9.1	9.1	9.5	9.5	9.5	9.4
9	10	6.5	6.7	6.4	6.3	7.0	9.1	9.1	9.5	9.5	9.4	9.3
10	9.7	6.5	6.7	6.6	6.3	7.0	9.1	9.1	9.5	9.5	9.3	9.3
11	9.3	6.7	6.7	6.7	6.3	7.0	9.1	8.9	9.5	9.5	9.3	9.3
12	9.3	6.5	6.6	6.7	6.3	7.0	9.1	8.7	9.4	9.5	9.3	9.3
13	9.3	6.5	6.5	6.7	6.6	7.3	9.1	8.8	9.3	9.5	9.3	9.3
14	9.3	6.5	6.3	6.7	6.7	7.3	9.1	9.0	9.3	9.5	9.3	9.3
15	9.3	6.5	6.3	6.7	6.7	7.2	9.1	9.1	9.3	9.5	9.3	9.3
16	9.6	6.5	6.2	6.7	6.7	7.2	9.1	10	9.2	9.4	9.3	9.3
17	9.8	6.5	6.3	6.5	6.7	7.2	9.1	10	9.1	9.3	9.5	9.3
18	9.6	6.5	6.7	6.4	6.7	7.1	9.1	10	9.1	9.3	9.5	9.3
19	9.5	6.5	6.3	6.3	6.7	7.0	9.1	10	9.1	9.3	9.5	9.3
20	9.3	6.3	6.7	6.3	7.0	7.1	9.1	10	9.1	9.3	9.5	9.3
21	9.3	6.3	6.2	6.3	7.1	6.9	9.1	9.8	9.1	9.3	9.5	9.3
22	9.3	6.3	6.1	6.3	7.7	6.7	9.1	9.7	9.2	9.3	9.5	9.3
23	9.3	6.6	6.1	6.3	7.7	6.7	9.3	9.5	9.1	9.3	9.5	9.3
24	9.1	6.7	6.3	6.3	10	6.9	9.2	9.7	9.1	9.3	9.5	9.3
25	9.1	8.3	6.3	6.5	9.2	6.9	9.1	9.7	9.1	9.3	9.4	9.3
26	9.1	6.7	6.3	7.0	8.5	6.7	9.1	9.4	9.1	9.3	9.5	9.3
27	9.1	6.7	6.3	8.6	8.1	6.7	9.1	9.3	9.1	9.3	9.5	9.4
28	9.2	6.7	6.5	8.5	7.8	6.8	9.1	9.3	9.1	9.3	9.5	9.3
29	8.9	6.7	6.6	7.6	7.7	7.0	9.1	9.3	9.1	9.3	9.5	9.3
30	8.9	6.7	6.7	7.3	---	7.0	9.1	9.3	9.1	9.3	9.5	9.3
31	8.8	---	6.7	7.2	---	7.9	---	9.5	---	9.2	9.5	---
Total	298.3	201.0	202.5	213.8	206.2	219.2	271.8	290.0	278.5	290.1	292.4	280.2
Mean	9.62	6.70	6.53	6.90	7.11	7.07	9.06	9.35	9.28	9.36	9.43	9.34
Max	12	8.8	7.1	9.1	10	7.9	9.3	10	9.6	9.5	9.5	9.5
Min	8.8	6.3	6.1	6.3	6.3	6.7	8.5	8.7	9.1	9.1	9.1	9.3
Ac-ft	592	399	402	424	409	435	539	575	552	575	580	556
Diversion, in acre-feet, through Woodleaf Powerhouse												
	15,040	5,190	6,180	6,970	4,820	9,020	5,180	25,880	15,040	18,160	19,860	17,260

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	

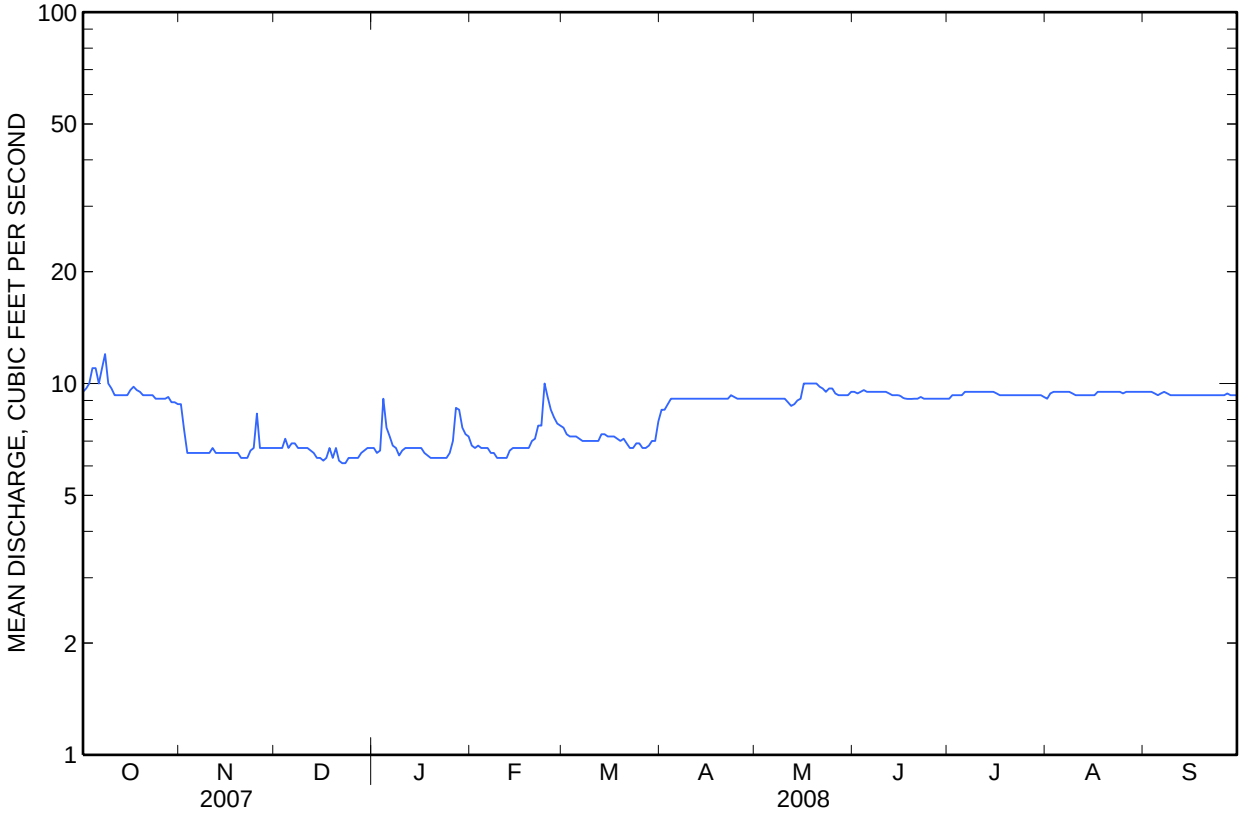
[a] Site then in use.

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	12.4	6.74	36.9	49.3	67.7	73.8	69.8	56.2	35.4	5.04	4.60	4.87
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 2007		Water Year 2008		Water Years 1962 - 2008	
Annual total	2,900.9		3,044.0			
Annual mean	7.95		8.32		35.0	
Highest annual mean					200	1995
Lowest annual mean					0.49	1964
Highest daily mean	12	Oct 8	12	Oct 8	4,490	Jan 1, 1997
Lowest daily mean	5.3	Jan 13	6.1	Dec 22	0.00	Oct 21, 1961
Annual seven-day minimum	5.3	Jan 13	6.2	Dec 21	0.00	Oct 21, 1961
Maximum peak flow			44	Nov 25	5,760	Jan 1, 1997
Maximum peak stage			5.60	Nov 25	13.50	Jan 1, 1997
Annual runoff (ac-ft)	5,750		6,040		25,390	
Total diversion (ac-ft)[a]	139,800		148,600			
10 percent exceeds	9.5		9.5		13	
50 percent exceeds	8.6		9.1		3.5	
90 percent exceeds	6.0		6.5		0.20	

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

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