

Water-Data Report 2007

11404300 Grizzly Creek below Diversion Dam, near Storrie, CA

Sacramento River Basin

LOCATION.--Lat 39°53'29", long 121°17'35" referenced to North American Datum of 1927, in SW ¼ NE ¼ sec.34, T.24 N., R.6 E., Plumas County, CA, Hydrologic Unit 18020121, Plumas National Forest, on right bank, 0.2 mi downstream from Grizzly Forebay Diversion Dam, and 2.4 mi southeast of Storrie.

DRAINAGE AREA.--14.4 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1985 to current year. Unpublished records for water years 1970, 1976-85 available in files of the U.S. Geological Survey.

REVISED RECORDS.--WDR CA-01-4 (discharge through Bucks Creek Powerplant).

GAGE.--Water-stage recorder and concrete control with V-notch sharp-crested weir, since Oct. 8, 1987. Elevation of gage is 4,320 ft above NGVD of 1929, from topographic map. Prior to Oct. 8, 1987, at datum 1.79 ft higher.

COOPERATION.--Records, including diversion to Bucks Creek Powerplant (station 11403700), were collected by Pacific Gas and Electric Co., under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 619.

REMARKS.--Flow regulated by diversion dam 0.2 mi upstream. There is considerable inflow upstream from the diversion dam from Bucks Creek Tunnel outlet and Grizzly Powerplant (station 11404240). Most of the flow is diverted to Bucks Creek Powerplant on North Fork Feather River. See schematic diagram of North Fork Feather River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,300 ft³/s, Jan. 1, 1997, gage height, 7.33 ft, from rating curve extended above 260 ft³/s, on basis of computation of peak flow over dam, maximum gage height, 9.54 ft, Feb. 17, 1986, datum then in use; minimum daily, 1.9 ft³/s, June 14, 1988.

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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	7.9	9.9	7.9	7.1	7.9	7.9	8.9	8.9	7.9	7.9	8.9	7.9
2	7.9	9.9	7.9	7.1	7.9	7.9	8.5	8.9	7.9	7.9	8.9	7.9
3	7.9	9.9	7.9	7.1	7.9	7.9	8.4	8.9	7.9	7.9	8.9	7.9
4	7.9	9.9	7.9	7.1	7.9	7.9	8.9	8.9	7.9	7.9	8.9	7.9
5	7.9	9.9	8.2	7.1	7.9	7.9	8.9	8.9	7.9	7.9	8.9	7.9
6	8.4	9.9	8.9	7.1	7.9	7.9	8.9	8.9	7.9	7.9	8.9	7.9
7	8.8	9.9	8.9	7.1	8.0	7.9	8.9	8.9	7.9	7.9	8.9	7.9
8	8.7	9.9	9.2	7.3	8.1	7.9	8.9	8.9	7.9	7.9	8.9	7.9
9	8.6	9.9	9.9	7.9	47	7.9	8.9	8.7	7.9	7.9	8.9	7.9
10	7.8	9.9	9.7	7.9	281	7.9	8.9	8.3	7.9	7.9	8.9	7.9
11	7.9	10	9.1	7.9	104	7.9	8.9	7.9	7.9	7.9	8.9	7.9
12	8.5	9.9	9.9	7.9	7.9	7.9	8.9	7.9	7.9	7.9	8.9	7.9
13	8.9	9.9	9.9	7.8	7.9	7.9	8.9	7.9	7.9	8.1	8.9	7.9
14	8.9	9.9	30	7.5	7.9	8.6	8.9	7.9	7.9	8.9	8.9	7.9
15	8.9	9.9	98	7.9	7.9	8.9	8.9	7.9	7.9	8.5	8.9	7.9
16	9.2	9.9	7.1	7.9	7.9	8.9	8.9	8.6	7.9	8.5	8.9	7.9
17	9.4	9.9	7.1	7.9	7.9	8.9	8.9	8.9	7.9	8.5	8.9	7.9
18	8.9	9.0	7.1	7.9	7.9	8.9	8.9	8.9	7.9	8.9	8.9	7.9
19	8.9	9.2	7.1	7.9	7.9	8.9	8.9	8.9	7.9	8.4	8.9	7.9
20	8.9	9.5	7.1	8.0	7.9	8.9	8.9	8.9	7.9	7.9	8.3	7.9
21	8.9	9.9	7.1	7.9	7.9	8.9	8.9	8.9	7.9	7.9	7.9	7.9
22	8.9	9.9	7.1	7.9	7.9	8.9	8.9	8.9	7.9	7.9	7.9	7.9
23	8.9	9.9	7.1	7.9	7.9	8.9	8.9	8.1	7.9	7.9	7.9	7.9
24	8.9	9.6	7.1	7.9	7.9	8.9	8.9	7.9	7.9	7.9	7.9	7.9
25	8.9	9.1	7.1	7.2	8.0	8.9	8.9	7.9	7.9	8.4	7.9	7.9
26	9.1	9.0	7.1	7.1	7.9	9.2	8.9	7.9	7.9	8.6	7.9	7.9
27	9.9	8.2	7.1	7.1	7.9	8.9	8.9	7.9	7.9	8.9	7.9	7.9
28	9.9	7.9	7.1	7.1	7.9	8.9	8.9	7.9	7.9	8.9	7.9	8.1
29	9.9	7.9	7.1	7.2	---	8.9	8.9	7.9	7.9	8.9	7.6	7.9
30	9.9	7.9	7.1	7.9	---	8.9	8.9	7.9	7.9	8.9	7.1	7.9
31	9.9	---	7.1	7.9	---	8.9	---	7.9	---	8.9	7.5	---
Total	273.3	285.4	356.9	234.5	629.9	262.9	266.1	261.0	237.0	255.6	262.8	237.2
Mean	8.82	9.51	11.5	7.56	22.5	8.48	8.87	8.42	7.90	8.25	8.48	7.91
Max	9.9	10	98	8.0	281	9.2	8.9	8.9	7.9	8.9	8.9	8.1
Min	7.8	7.9	7.1	7.1	7.9	7.9	8.4	7.9	7.9	7.9	7.1	7.9
Ac-ft	542	566	708	465	1,250	521	528	518	470	507	521	470
Diversion, in acre-feet, to Bucks Creek Powerplant	4,900	9,060	11,490	6,850	5,160	5,560	4,670	3,610	697	4,650	8,350	6,040

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	4.94	5.26	27.6	39.7	48.5	33.5	18.0	56.7	31.9	8.28	4.75	4.49
Max	11.8	19.7	284	650	396	174	215	537	286	61.0	13.0	8.10
(WY)	(1996)	(1999)	(1997)	(1997)	(1997)	(1995)	(1995)	(2006)	(1998)	(1998)	(2006)	(2006)
Min	2.01	2.01	2.09	2.11	2.17	2.20	2.10	2.03	2.01	2.08	2.03	2.00
(WY)	(1995)	(1988)	(1994)	(1994)	(1994)	(1988)	(1987)	(1987)	(1992)	(1992)	(1992)	(1992)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1986 - 2007	
Annual total	23,898.2		3,562.6			
Annual mean	65.5		9.76		23.5	
Highest annual mean					125	1997
Lowest annual mean					2.58	1994
Highest daily mean	757	May 17	281	Feb 10	4,810	Jan 1, 1997
Lowest daily mean	7.1	Dec 16	7.1	Dec 16	1.9	Jun 14, 1988
Annual seven-day minimum	7.1	Dec 16	7.1	Dec 16	2.0	May 2, 1987
Maximum peak flow			510	Feb 10	6,300	Jan 1, 1997
Maximum peak stage			2.86	Feb 10	9.54	Feb 17, 1986
Annual runoff (ac-ft)	47,400		7,070		17,060	
Annual diversion (ac-ft)^a	153,900		71,050			
10 percent exceeds	371		9.4		8.9	
50 percent exceeds	8.8		7.9		4.4	
90 percent exceeds	8.1		7.9		2.1	

^a Diversion, in acre-feet, to Bucks Creek Powerplant (station 11403700).

