



Water-Data Report 2009

11403500 Bucks Lake near Bucks Lodge, CA

Sacramento River Basin

LOCATION.--Lat 39°53'45", long 121°12'08" referenced to North American Datum of 1927, in SE ¼ NW ¼ sec.33, T.24 N., R.7 E., Plumas County, CA, Hydrologic Unit 18020121, Plumas National Forest, in outlet structure, 100 ft upstream from dam on Bucks Creek, 2.0 mi northwest of Bucks Lodge, and 15 mi west of Quincy.

DRAINAGE AREA.--28.6 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Water years 1927-28 (year-end contents only, published in WSP 1315-A), October 1928 to current year. Prior to October 1954, published as "Bucks Creek Reservoir near Bucks Ranch".

GAGE.--Water-stage recorder. Datum of gage is 3.50 ft below NGVD of 1929 (levels by Feather River Power Co.).

COOPERATION.--Records were collected by Pacific Gas and Electric Company, under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 619.

REMARKS.--Reservoir is formed by concrete-faced, rock-fill dam, completed in 1927; storage began in May 1927. Capacity, 101,400 acre-ft, between elevations 5,064.75 ft, sill of outlet gate, and 5,154.85 ft, spillway crest. Storage of 274 acre-ft is not available for release. Released water flows down Bucks Creek to Lower Bucks Lake (station 11403520), where most of the water is diverted to Bucks Creek Tunnel or Grizzly Powerplant (station 11404240), which discharges into Grizzly Creek. Figures given, including extremes, represent total contents at 2400 hours. See schematic diagram of North Fork Feather River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 107,278 acre-ft, May 17, 1996, elevation, 5,157.9 ft; minimum, 12,330 acre-ft, Feb. 27, 1929, elevation, 5,090.7 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 101,000 acre-ft, several days in June, maximum elevation, 5,154.46 ft, June 17, 18; minimum, 54,100 acre-ft, Jan. 3, 4, minimum elevation, 5,126.02 ft, Jan. 3.

**Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on survey by Feather River Power Co. in 1927)**

Elevation	Contents	Elevation	Contents	Elevation	Contents
5,090	11,742	5,110	32,519	5,140	75,894
5,095	16,183	5,120	45,472	5,150	92,950
5,100	21,180	5,130	59,997	5,160	111,220

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RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY OBSERVATION AT 2400 HOURS

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	67,800	62,300	55,500	54,200	56,500	64,700	74,800	85,500	e99,500	99,700	92,800	84,500
2	67,700	62,600	55,100	54,300	56,600	66,600	75,100	86,600	99,600	99,700	92,500	84,300
3	67,700	62,900	55,100	54,100	56,600	67,600	75,300	87,800	99,500	99,700	92,300	84,100
4	67,700	62,900	55,100	54,100	56,700	68,000	75,500	89,100	99,700	99,700	92,100	83,900
5	67,300	62,800	55,100	54,200	56,900	68,300	75,700	90,800	99,900	99,700	91,600	83,700
6	66,800	62,600	55,100	54,200	57,000	68,500	76,000	91,800	100,000	99,700	91,500	83,500
7	66,300	62,400	55,100	54,200	57,100	68,700	76,300	92,700	100,000	99,800	91,300	83,300
8	65,800	62,300	55,200	54,200	57,200	68,900	76,500	93,400	100,000	99,800	91,100	82,800
9	65,300	62,200	55,200	54,200	57,300	69,200	76,900	94,100	100,000	99,800	90,900	82,600
10	64,800	61,900	55,200	54,200	57,400	69,300	77,100	94,800	101,000	99,700	90,700	82,400
11	64,300	61,500	55,200	54,300	57,600	69,500	77,400	95,500	101,000	99,400	90,500	82,200
12	64,000	61,100	55,200	54,300	57,600	69,600	77,600	96,000	100,000	99,200	90,300	82,000
13	63,800	60,700	55,300	54,200	57,900	69,600	77,900	96,600	101,000	98,900	90,100	81,800
14	63,500	60,500	55,400	54,300	58,000	69,700	78,100	97,100	101,000	98,700	89,900	81,700
15	63,100	60,300	55,600	54,300	58,400	70,000	78,400	97,600	101,000	98,400	89,700	81,500
16	62,900	60,100	55,600	54,400	58,600	70,500	78,600	98,200	101,000	98,100	89,400	81,300
17	62,800	59,900	55,600	54,400	58,800	70,900	78,800	98,700	101,000	97,600	89,200	81,100
18	62,800	59,500	55,800	54,400	58,800	71,200	79,200	99,300	101,000	97,200	88,900	80,800
19	62,900	59,100	55,900	54,500	58,900	71,500	79,500	99,800	101,000	96,700	88,600	80,500
20	62,900	58,900	55,900	54,500	59,000	71,800	80,000	100,000	101,000	96,500	88,400	80,300
21	62,900	58,500	56,000	54,600	59,000	72,200	80,600	100,000	101,000	96,300	87,900	80,100
22	62,900	58,300	55,600	54,800	59,800	72,500	81,200	100,000	101,000	96,000	87,600	79,900
23	62,800	58,100	55,500	55,100	61,200	72,700	81,700	99,900	101,000	95,500	87,400	79,700
24	62,600	57,800	55,300	55,700	62,300	72,900	82,300	99,700	101,000	95,300	87,100	79,500
25	62,400	57,400	55,500	55,900	62,800	73,100	82,600	99,400	100,000	95,000	86,700	79,300
26	62,200	57,000	55,400	56,000	63,300	73,300	83,000	99,200	100,000	94,600	86,200	79,100
27	61,900	56,800	55,000	56,100	63,500	73,600	83,400	98,900	100,000	94,300	85,900	78,700
28	61,700	56,600	54,900	56,200	63,700	73,800	83,800	e99,000	99,900	94,100	85,700	78,300
29	61,500	56,300	54,700	56,300	---	74,100	84,100	e99,100	99,700	93,800	85,500	77,800
30	61,300	55,900	54,700	56,300	---	74,300	84,400	e99,200	99,600	93,600	85,000	77,500
31	61,400	---	54,300	56,400	---	74,500	---	e99,400	---	93,300	84,700	---
Max	67,800	62,900	56,000	56,400	63,700	74,500	84,400	100,000	101,000	99,800	92,800	84,500
Min	61,300	55,900	54,300	54,100	56,500	64,700	74,800	85,500	99,500	93,300	84,700	77,500
Elevation, in feet, at end of month	5,130.94	5,127.28	5,126.15	5,127.63	5,132.42	5,139.17	5,145.10	---	5,153.74	5,150.18	5,145.26	5,140.96
Change in contents, in acre-feet	-6,400	-5,500	-1,600	+2,100	+7,300	+10,800	+9,900	+15,000	+200	-6,300	-8,600	-7,200

	Calendar Year 2008	Water Year 2009
Max	80,900	101,000
Min	51,400	54,100
Change in contents, in acre-feet	+1,700	+9,700

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