

11401050 Butt Valley Reservoir near Caribou, CA

Sacramento River Basin

LOCATION.--Lat 40°06'59", long 121°08'42" referenced to North American Datum of 1927, in SE ¼ SW ¼ sec.12, T.26 N., R.7 E., Plumas County, CA, Hydrologic Unit 18020121, on center intake tower in Butt Valley Reservoir, 2.5 mi north of Caribou, and 5.4 mi southwest of Canyon Dam.

DRAINAGE AREA.--83.5 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1985 to current year. Unpublished records for water years 1983-85 available in files of the U.S. Geological Survey.

REVISED RECORDS.--WDR CA-00-4 (discharge through Caribou Powerplants).

GAGE.--Water-stage recorder. Datum of gage is 10.23 ft below NGVD of 1929 (levels by Great Western Power Co.).

COOPERATION.--Records, including monthly discharge through Caribou Powerplants (station 11401110), 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. 2105.

REMARKS.--Lake is formed by earthfill dam. Storage began in 1924. Usable capacity, 49,900 acre-ft, between elevations 4,075.9 ft, invert of outlet tunnel, and 4,132.1 ft, crest of spillway. Water is diverted by tunnel and penstock to Caribou Powerplants (station 11401110). 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, 52,667 acre-ft, Feb. 18, 19, 1986, elevation, 4,133.80 ft; minimum, 4,284 acre-ft, Mar. 3, 1997, elevation, 4,094.95 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 46,200 acre-ft, Oct. 12, 15-17, maximum elevation, 4,129.78 ft, Oct. 15; minimum, 23,300 acre-ft, Mar. 10, elevation, 4,113.95 ft.

**Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on surveys by Great Western Power Co. in 1923 and 1924)**

Elevation	Contents	Elevation	Contents	Elevation	Contents
4,090	1,754	4,110	18,395	4,130	46,591
4,100	8,024	4,120	31,592	4,137	57,891

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RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY OBSERVATION AT 2400 HOURS

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	39,400	42,500	38,500	33,200	30,700	35,600	26,100	31,000	32,500	28,700	36,400	41,600
2	40,800	42,000	39,000	34,200	33,000	34,200	26,200	31,100	32,500	29,000	36,300	43,300
3	41,800	41,700	39,100	35,500	35,700	32,700	26,300	31,200	32,400	29,300	36,500	44,300
4	43,300	41,300	39,600	36,800	37,100	31,200	26,400	31,300	32,200	29,600	36,700	44,100
5	43,800	40,800	39,700	38,200	40,400	29,700	26,600	31,400	32,100	29,900	37,300	44,100
6	43,900	40,300	39,800	38,200	42,400	28,300	26,800	31,600	32,000	30,200	37,300	43,700
7	44,000	40,100	39,900	37,400	44,400	27,100	27,000	31,700	31,900	30,300	37,100	43,100
8	44,300	39,600	39,800	37,200	45,100	24,800	27,000	31,900	31,900	30,200	36,500	42,900
9	44,600	39,000	39,600	37,300	44,900	23,600	27,100	32,000	31,800	30,100	36,000	42,300
10	45,200	38,000	39,500	38,700	45,000	23,300	27,100	32,100	31,700	29,900	35,600	41,700
11	45,800	37,100	38,500	40,100	45,100	23,500	27,300	32,300	31,600	30,100	34,600	41,100
12	46,200	36,600	38,900	40,800	45,000	23,700	27,500	32,400	31,500	30,500	33,700	40,500
13	46,000	36,000	38,700	40,700	45,200	23,900	27,800	32,500	31,400	30,900	33,000	40,200
14	46,100	36,200	38,600	41,200	45,100	24,200	28,100	32,600	31,300	31,400	32,200	39,700
15	46,200	35,700	37,900	40,100	45,400	24,300	28,400	32,700	31,300	31,900	32,500	39,200
16	46,200	35,800	37,200	39,100	44,400	24,400	28,500	32,900	31,100	32,300	34,300	39,100
17	46,200	36,200	37,200	38,300	44,500	24,200	28,800	33,000	30,500	33,000	35,800	38,700
18	46,100	36,000	37,000	37,400	44,900	24,300	29,100	33,100	30,200	33,300	37,100	38,200
19	45,800	36,400	37,000	36,900	43,700	24,400	29,300	33,300	30,000	33,800	38,100	38,300
20	44,700	36,700	37,100	36,200	42,400	24,500	29,400	33,400	29,600	34,200	38,800	38,500
21	44,500	36,900	36,900	35,700	42,400	24,600	29,600	33,400	29,300	35,000	39,000	39,100
22	44,600	36,800	36,700	35,600	42,500	24,700	29,700	33,300	28,900	35,400	39,300	39,400
23	45,200	36,600	36,700	35,600	42,600	24,800	29,800	33,200	28,700	35,600	39,700	39,800
24	44,800	37,200	36,200	33,900	42,300	25,000	29,900	33,200	28,400	35,900	39,800	40,000
25	44,500	36,800	34,600	33,600	41,800	25,200	30,000	33,200	28,200	35,800	40,300	40,400
26	44,000	37,300	32,800	33,200	40,600	25,400	30,100	33,200	28,100	35,700	40,500	40,500
27	43,800	37,700	31,100	31,800	39,300	25,600	30,300	32,600	28,000	35,800	40,100	41,000
28	43,400	37,900	30,900	31,500	37,800	25,700	30,500	32,600	28,000	35,800	40,200	40,700
29	43,200	38,000	31,300	31,100	36,600	25,800	30,700	32,600	28,200	35,900	40,600	43,100
30	42,900	38,300	31,700	30,700	---	25,900	30,700	32,600	28,400	35,900	40,800	42,400
31	42,900	---	32,300	30,700	---	26,000	---	32,600	---	35,900	41,300	---
Max	46,200	42,500	39,900	41,200	45,400	35,600	30,700	33,400	32,500	35,900	41,300	44,300
Min	39,400	35,700	30,900	30,700	30,700	23,300	26,100	31,000	28,000	28,700	32,200	38,200
Elevation, in feet, at end of month	4,127.61	4,124.60	4,120.49	4,119.38	4,123.46	4,115.97	4,119.40	4,120.70	4,117.69	4,122.99	4,126.61	4,127.32
Change in contents, in acre-feet	+4,600	-4,600	-6,000	-1,600	+5,900	-10,600	+4,700	+1,900	-4,200	+7,500	+5,400	+1,100
Discharge, in acre-feet, through Caribou Powerplants	60,240	63,850	58,440	30,180	27,630	16,010	3,500	5,700	8,570	21,780	58,100	94,380

	Calendar Year 2007	Water Year 2008
Max	48,000	46,200
Min	29,300	23,300
Change in contents, in acre-feet	-7,700	+4,100
Discharge, in acre-feet, through Caribou Powerplants	514,200	448,400

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