Water-Data Report 2013

# 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 $mi^2$.

## 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, 93,300 acre-ft, June 12-15, maximum elevation, 5,150.19 ft, June 13; minimum, 62,300 acre-ft, Nov. 27, 28, minimum elevation, 5,131.47 ft, Nov. 27.

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 |

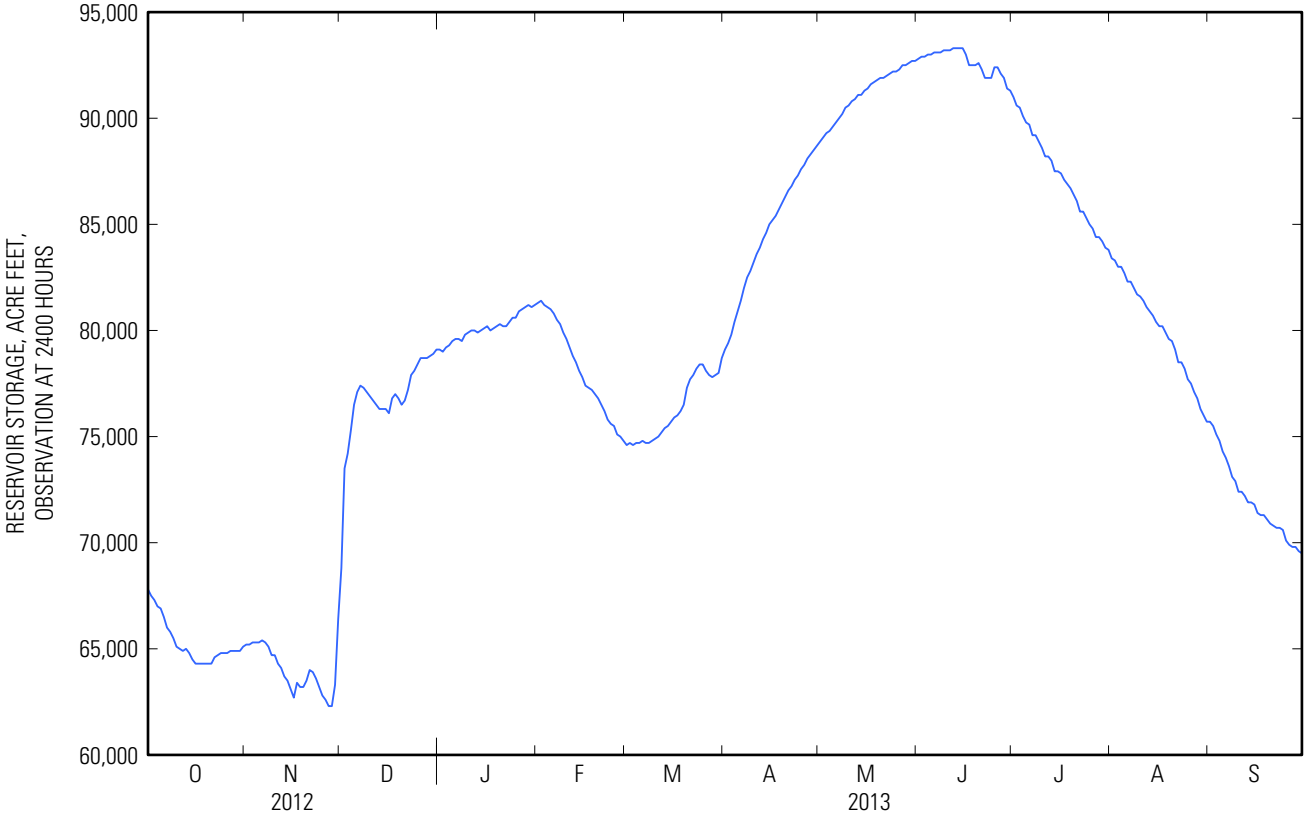


Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 11403500, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/11403500.2013.pdf

**11403500 Bucks Lake near Bucks Lodge, CA—Continued**

**RESERVOIR STORAGE, ACRE FEET**
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**
**DAILY OBSERVATION AT 2400 HOURS**

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 67,800 | 65,200 | 68,800 | 79,100 | 81,300 | 74,600 | 79,100 | 88,900 | 92,800 | 91,000 | 83,400 | 75,700 |
| 2 | 67,500 | 65,200 | 73,500 | 79,000 | 81,400 | 74,700 | 79,400 | 89,100 | 92,900 | 90,600 | 83,300 | 75,500 |
| 3 | 67,300 | 65,300 | 74,200 | 79,200 | 81,200 | 74,600 | 79,800 | 89,300 | 92,900 | 90,500 | 83,000 | 75,100 |
| 4 | 67,000 | 65,300 | 75,300 | 79,300 | 81,100 | 74,700 | 80,400 | 89,400 | 93,000 | 90,100 | 83,000 | 74,800 |
| 5 | 66,900 | 65,300 | 76,500 | 79,500 | 81,000 | 74,700 | 80,900 | 89,600 | 93,000 | 89,800 | 82,700 | 74,300 |
| 6 | 66,500 | 65,400 | 77,100 | 79,600 | 80,800 | 74,800 | 81,400 | 89,800 | 93,100 | 89,700 | 82,300 | 74,000 |
| 7 | 66,000 | 65,300 | 77,400 | 79,600 | 80,500 | 74,700 | 82,000 | 90,000 | 93,100 | 89,200 | 82,300 | 73,600 |
| 8 | 65,800 | 65,100 | 77,300 | 79,500 | 80,300 | 74,700 | 82,500 | 90,200 | 93,100 | 89,200 | 82,000 | 73,100 |
| 9 | 65,500 | 64,700 | 77,100 | 79,800 | 79,900 | 74,800 | 82,800 | 90,500 | 93,200 | 88,900 | 81,700 | 72,900 |
| 10 | 65,100 | 64,700 | 76,900 | 79,900 | 79,600 | 74,900 | 83,200 | 90,600 | 93,200 | 88,600 | 81,600 | 72,400 |
| 11 | 65,000 | 64,300 | 76,700 | 80,000 | 79,200 | 75,000 | 83,600 | 90,800 | 93,200 | 88,200 | 81,400 | 72,400 |
| 12 | 64,900 | 64,100 | 76,500 | 80,000 | 78,800 | 75,200 | 83,900 | 90,900 | 93,300 | 88,200 | 81,100 | 72,200 |
| 13 | 65,000 | 63,700 | 76,300 | 79,900 | 78,500 | 75,400 | 84,300 | 91,100 | 93,300 | 88,000 | 80,900 | 71,900 |
| 14 | 64,800 | 63,500 | 76,300 | 80,000 | 78,100 | 75,500 | 84,600 | 91,100 | 93,300 | 87,500 | 80,700 | 71,900 |
| 15 | 64,500 | 63,100 | 76,300 | 80,100 | 77,800 | 75,700 | 85,000 | 91,300 | 93,300 | 87,500 | 80,400 | 71,800 |
| 16 | 64,300 | 62,700 | 76,100 | 80,200 | 77,400 | 75,900 | 85,200 | 91,400 | 93,000 | 87,400 | 80,200 | 71,400 |
| 17 | 64,300 | 63,400 | 76,800 | 80,000 | 77,300 | 76,000 | 85,400 | 91,600 | 92,500 | 87,100 | 80,200 | 71,300 |
| 18 | 64,300 | 63,200 | 77,000 | 80,100 | 77,200 | 76,200 | 85,700 | 91,700 | 92,500 | 86,900 | 79,900 | 71,300 |
| 19 | 64,300 | 63,200 | 76,800 | 80,200 | 77,000 | 76,500 | 86,000 | 91,800 | 92,500 | 86,700 | 79,600 | 71,100 |
| 20 | 64,300 | 63,500 | 76,500 | 80,300 | 76,800 | 77,300 | 86,300 | 91,900 | 92,600 | 86,400 | 79,500 | 70,900 |
| 21 | 64,300 | 64,000 | 76,700 | 80,200 | 76,500 | 77,700 | 86,600 | 91,900 | 92,300 | 86,100 | 79,100 | 70,800 |
| 22 | 64,600 | 63,900 | 77,200 | 80,200 | 76,200 | 77,900 | 86,800 | 92,000 | 91,900 | 85,600 | 78,500 | 70,700 |
| 23 | 64,700 | 63,600 | 77,900 | 80,400 | 75,800 | 78,200 | 87,100 | 92,100 | 91,900 | 85,600 | 78,500 | 70,700 |
| 24 | 64,800 | 63,200 | 78,100 | 80,600 | 75,600 | 78,400 | 87,300 | 92,200 | 91,900 | 85,300 | 78,200 | 70,600 |
| 25 | 64,800 | 62,800 | 78,400 | 80,600 | 75,500 | 78,400 | 87,600 | 92,200 | 92,400 | 85,000 | 77,700 | 70,100 |
| 26 | 64,800 | 62,600 | 78,700 | 80,900 | 75,100 | 78,100 | 87,800 | 92,300 | 92,400 | 84,800 | 77,500 | 69,900 |
| 27 | 64,900 | 62,300 | 78,700 | 81,000 | 75,000 | 77,900 | 88,100 | 92,500 | 92,100 | 84,400 | 77,100 | 69,800 |
| 28 | 64,900 | 62,300 | 78,700 | 81,100 | 74,800 | 77,800 | 88,300 | 92,500 | 91,900 | 84,400 | 76,800 | 69,800 |
| 29 | 64,900 | 63,300 | 78,800 | 81,200 | --- | 77,900 | 88,500 | 92,600 | 91,400 | 84,200 | 76,300 | 69,600 |
| 30 | 64,900 | 66,400 | 78,900 | 81,100 | --- | 78,000 | 88,700 | 92,700 | 91,300 | 83,900 | 76,000 | 69,500 |
| 31 | 65,100 | --- | 79,100 | 81,200 | --- | 78,700 | --- | 92,700 | --- | 83,800 | 75,700 | --- |
| Max | 67,800 | 66,400 | 79,100 | 81,200 | 81,400 | 78,700 | 88,700 | 92,700 | 93,300 | 91,000 | 83,400 | 75,700 |
| Min | 64,300 | 62,300 | 68,800 | 79,000 | 74,800 | 74,600 | 79,100 | 88,900 | 91,300 | 83,800 | 75,700 | 69,500 |
| **Elevation, in feet, at end of month** | | | | | | | | | | | | |
| | 5,133.28 | 5,134.11 | 5,141.93 | 5,143.19 | 5,139.34 | 5,141.69 | 5,147.59 | 5,149.87 | 5,149.05 | 5,144.69 | 5,139.86 | 5,136.04 |
| **Change in contents, in acre-feet** | | | | | | | | | | | | |
| | -3,100 | +1,300 | +12,700 | +2,100 | -6,400 | +3,900 | +10,000 | +4,000 | -1,400 | -7,500 | -8,100 | -6,200 |

| | Calendar Year 2012 | Water Year 2013 |
|---|---|---|
| **Max** | 104,000 | 93,300 |
| **Min** | 62,300 | 62,300 |
| **Change in contents, in acre-feet** | +8,900 | +1,300 |

**11403500 Bucks Lake near Bucks Lodge, CA—Continued**