

**11421800 Rollins Reservoir near Colfax, CA**

Sacramento River Basin

LOCATION.--Lat 39°08'08", long 120°56'57" referenced to North American Datum of 1927, in NE ¼ SE ¼ sec.22, T.15 N., R.9 E., Placer County, CA, Hydrologic Unit 18020126, on left bank, 300 ft upstream from Rollins Dam on Bear River, and 2.3 mi north of Colfax.

DRAINAGE AREA.--104 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--December 1964 to current year.

REVISED RECORDS.--WDR CA-01-4: Oct. 10, 1977, contents; 1978-2000, minimum contents for period of record.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by Nevada Irrigation District).

COOPERATION.--Records were collected by Nevada Irrigation District, under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 2266. Discharge through Rollins Powerplant (station 11421900) provided by Pacific Gas and Electric Company.

REMARKS.--Reservoir is formed by an earthfill dam. Storage began Dec. 15, 1964. Usable capacity, 66,000 acre-ft, between elevations 1,970.0 ft, invert of outlet tunnel, and 2,171.0 ft, spillway crest. Dead storage, 270 acre-ft. Several diversions into and out of basin upstream for power development and irrigation. Water is normally released through Rollins Powerplant. Part of the water then is diverted to Bear River Canal (station 11422000) for power development. Water is later used for irrigation. See schematic diagram of Bear River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 71,700 acre-ft, Feb. 17, 1986, elevation, 2,177.7 ft; minimum since reservoir first filled, 4,550 acre-ft, Oct. 13, 1977, elevation, 2,024.7 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 67,700 acre-ft, Dec. 2, elevation, 2,173.02 ft; minimum, 44,200 acre-ft, Oct. 13, elevation, 2,140.73 ft.

**Capacity table (elevation, in feet, and contents, in acre-feet)  
(Based on table provided by Nevada Irrigation District in 1964)**

Elevation	Contents	Elevation	Contents	Elevation	Contents	Elevation	Contents
2,020	3,920	2,050	8,940	2,100	23,870	2,160	57,320
2,030	5,325	2,060	11,190	2,120	32,730	2,178	71,970
2,040	6,990	2,080	16,780	2,140	43,770		

## 11421800 Rollins Reservoir near Colfax, 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	51,800	53,400	67,200	61,000	66,000	62,700	65,300	64,700	63,400	63,800	61,400	60,400
2	51,000	53,800	67,700	60,900	65,800	62,700	65,200	64,600	63,400	64,200	61,300	60,500
3	50,200	54,200	66,600	60,700	65,700	62,800	64,700	64,500	63,300	64,600	61,300	60,400
4	49,400	54,600	66,300	60,700	65,500	62,800	64,800	64,500	63,300	64,700	61,200	60,400
5	48,500	54,900	66,900	60,800	65,400	62,900	64,900	64,400	63,200	64,600	61,100	60,300
6	47,700	55,200	66,700	60,900	65,200	63,000	64,900	64,400	63,200	64,000	61,100	60,200
7	46,800	55,600	66,500	60,900	65,000	63,100	65,000	64,400	63,600	63,500	61,000	60,100
8	45,900	56,100	65,600	60,800	64,700	63,200	65,100	64,400	64,000	62,900	61,000	59,900
9	45,300	56,600	64,500	60,900	64,500	63,200	65,100	64,400	64,000	62,300	61,000	59,800
10	45,000	57,100	63,300	61,000	64,300	63,300	65,100	64,300	63,800	62,100	60,800	59,700
11	44,600	57,600	62,500	61,300	64,100	63,300	65,000	64,300	63,800	62,000	60,800	59,700
12	44,500	58,100	62,000	61,700	63,800	63,300	64,900	64,200	63,700	61,700	60,700	59,600
13	44,200	58,500	61,400	62,000	63,600	63,500	64,900	64,100	63,600	61,600	60,700	59,600
14	44,600	59,000	60,800	62,200	63,400	63,700	64,800	64,000	63,600	61,500	60,700	59,700
15	44,900	59,400	60,100	62,400	63,300	63,800	64,700	63,700	63,000	61,300	60,600	58,900
16	45,600	59,600	59,700	62,600	63,200	63,900	64,600	63,600	62,400	61,200	60,600	58,100
17	46,200	60,300	60,300	62,800	63,200	64,000	64,600	63,600	62,300	61,000	60,600	57,300
18	46,800	61,300	60,600	63,000	63,100	64,100	64,600	63,500	62,200	60,700	60,600	56,600
19	47,400	61,600	59,900	63,300	63,100	64,300	64,500	63,500	62,100	61,000	60,600	55,800
20	48,000	61,900	59,000	63,600	63,100	64,900	64,500	63,400	62,100	61,400	60,600	55,000
21	48,700	62,900	57,900	63,800	63,000	65,500	64,400	63,400	62,000	61,700	60,600	54,400
22	49,500	63,300	57,500	64,000	63,000	65,700	64,400	63,400	61,900	61,900	60,700	53,600
23	50,100	63,600	59,300	64,200	62,900	65,700	64,300	63,400	61,700	61,900	60,700	52,900
24	50,500	63,800	60,400	64,500	62,900	65,600	64,300	63,400	61,600	61,800	60,700	52,100
25	50,900	64,000	60,700	64,800	62,900	65,500	64,400	63,400	61,800	61,800	60,700	51,400
26	51,300	64,200	62,000	65,200	62,800	65,400	64,500	63,400	61,800	61,800	60,700	50,700
27	51,600	64,100	62,400	65,600	62,700	65,200	64,500	63,400	62,200	61,700	60,700	50,000
28	51,900	63,800	62,300	65,800	62,700	65,200	64,600	63,400	62,600	61,700	60,800	49,300
29	52,300	63,600	61,900	66,300	---	65,100	64,600	63,400	63,000	61,600	60,700	48,900
30	52,600	67,500	61,500	66,100	---	65,100	64,700	63,400	63,400	61,500	60,600	48,600
31	53,000	---	61,200	66,100	---	65,200	---	63,400	---	61,400	60,500	---
<b>Max</b>	53,000	67,500	67,700	66,300	66,000	65,700	65,300	64,700	64,000	64,700	61,400	60,500
<b>Min</b>	44,200	53,400	57,500	60,700	62,700	62,700	64,300	63,400	61,600	60,700	60,500	48,600
<b>Elevation, in feet, at end of month</b>	2,154.08	2,172.77	2,165.03	2,171.15	2,166.91	2,170.03	2,169.47	2,167.86	2,167.83	2,165.34	2,164.19	2,147.70
<b>Change in contents, in acre-feet</b>	+400	+14,500	-6,300	+4,900	-3,400	+2,500	-500	-1,300	0	-2,000	-900	-11,900
<b>Discharge, in acre-feet, through Rollins Powerplant</b>	11,020	10,310	46,000	53,470	44,010	32,100	26,740	30,420	30,590	33,210	31,900	24,890

	Calendar Year 2012	Water Year 2013
<b>Max</b>	68,900	67,700
<b>Min</b>	44,200	44,200
<b>Change in contents, in acre-feet</b>	+15,400	-4,000
<b>Discharge, in acre-feet, through Rollins Powerplant</b>	361,100	374,600

11421800 Rollins Reservoir near Colfax, CA—Continued

