

**10336608 Echo Lake near Phillips, CA**

Pyramid and Winnemucca Lakes Basin

LOCATION.--Lat 38°50'05", long 120°02'36" referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.1, T.11 N., R.17 E., El Dorado County, CA, Hydrologic Unit 16050101, Eldorado National Forest, on wall at right end of dam on Lower Echo Lake, near valve outlet to Echo Lake Conduit, and 2.0 mi northeast of Phillips.

DRAINAGE AREA.--4.84 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1991 to current year. Unpublished records for 1981-91 water years are available in files of the U.S. Geological Survey.

GAGE.--Water-stage recorder. Prior to Dec. 3, 1991, nonrecording gage read periodically. Elevation of gage is 7,414 ft above NGVD of 1929, from topographic map.

COOPERATION.--Records, including release thru Echo Lake Conduit (station 11434500), were collected by El Dorado Irrigation District, under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 184.

REMARKS.--Record not computed for the winter months. Reservoir is formed by concrete dam completed in 1922 and rebuilt in 1992; storage began in 1922. Usable capacity, 1,890 acre-ft, between gage heights 0.0 ft, spillway crest, and 6.0 ft, top of flashboards. Water is released via Echo Lake Conduit to the South Fork American River for power and domestic use. Records from Dec. 3, 1991, including extremes, represent usable contents at 2400 hours. Monthly release through Echo Lake Conduit provided by El Dorado Irrigation District. See schematic diagrams of Truckee River Basin and South Fork American River Basin available from the California Water Science Center.

**Capacity table (gage height, in feet, and contents, in acre-feet)  
(Based on survey by El Dorado Irrigation District in 2000)**

Gage Height	Contents						
0	0	2	631	4	1,279	6	1,943
1	315	3	955	5	1,611		

## 10336608 Echo Lake near Phillips, 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	167	---	---	---	---	0	183	1,020	1,900	1,920	1,590	1,420
2	114	---	---	---	---	3	177	1,090	1,920	1,920	1,600	1,420
3	69	---	---	---	---	22	171	1,170	1,910	1,910	1,580	1,390
4	0	---	---	---	---	29	199	1,250	1,890	1,890	1,590	1,370
5	---	---	---	---	---	79	218	1,330	1,900	1,850	1,570	1,400
6	---	---	---	---	---	95	221	1,440	1,940	1,860	1,540	1,320
7	---	---	---	---	---	101	208	1,490	1,960	1,880	1,530	1,340
8	---	---	---	---	---	91	211	1,550	1,980	1,850	1,530	1,350
9	---	---	---	---	---	82	199	1,620	1,980	1,840	1,540	1,330
10	---	---	---	---	---	60	180	1,720	1,970	1,830	1,490	1,290
11	---	---	---	---	---	48	183	1,830	1,870	1,810	1,510	1,310
12	---	---	---	---	---	38	199	1,940	1,910	1,800	1,490	1,300
13	---	---	---	---	---	76	221	1,980	1,910	1,800	1,480	1,220
14	---	---	---	---	---	107	246	1,940	1,920	1,780	1,500	1,210
15	---	---	---	---	---	126	255	1,890	1,910	1,760	1,470	1,130
16	---	---	---	---	---	142	262	1,900	1,930	1,760	1,460	1,060
17	---	---	---	---	---	142	240	1,900	1,900	1,740	1,470	1,060
18	---	---	---	---	---	142	233	1,870	1,910	1,730	1,460	1,030
19	---	---	---	---	---	152	227	1,840	1,940	1,710	1,460	991
20	---	---	---	---	---	193	233	1,830	1,930	1,680	1,480	919
21	---	---	---	---	---	177	246	1,800	1,920	1,660	1,470	913
22	---	---	---	---	---	164	287	1,880	1,920	1,660	1,450	851
23	---	---	---	---	---	148	340	1,910	1,900	1,650	1,430	790
24	---	---	---	---	---	133	397	1,930	1,950	1,630	1,460	754
25	---	---	---	---	---	139	460	1,940	1,980	1,640	1,430	670
26	---	---	---	---	---	123	524	1,940	2,000	1,640	1,440	593
27	---	---	---	---	---	123	603	1,970	1,930	1,640	1,440	527
28	---	---	---	---	---	139	735	1,970	1,920	1,630	1,430	479
29	---	---	---	---	---	142	864	1,890	1,920	1,610	1,410	539
30	---	---	---	---	---	155	942	1,840	1,920	1,620	1,420	388
31	---	---	---	---	---	174	---	1,850	---	1,590	1,420	---
<b>Max</b>	---	---	---	---	---	193	942	1,980	2,000	1,920	1,600	1,420
<b>Min</b>	---	---	---	---	---	0	171	1,020	1,870	1,590	1,410	388
<b>Gage height, in feet, at end of month</b>	---	---	---	---	---	0.55	2.96	5.71	5.94	4.94	4.43	1.23
<b>Change in contents, in acre-feet</b>	---	---	---	---	---	---	+768	+908	+70	-330	-170	-1,032
<b>Release, in acre-feet, through Echo Lake Conduit</b>	30	0	0	0	0	0	0	0	0	0	0	613

	Calendar Year 2012	Water Year 2013
<b>Change in contents, in acre-feet</b>		+183
<b>Release, in acre-feet, through Echo Lake Conduit</b>	1,080	643

10336608 Echo Lake near Phillips, CA—Continued

