

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 mi².

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 Unpublished records for 1981-91 water years are available in files of the U.S. Geological Survey.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		

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RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY OBSERVATION AT 2400 HOURS

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	394	353	---	---	---	---	---	---	---	1,650	2,010	1,950
2	375	337	---	---	---	---	---	---	---	1,830	1,980	1,950
3	362	321	---	---	---	---	---	---	---	1,890	1,940	1,950
4	347	255	---	---	---	---	---	---	---	1,920	1,950	1,950
5	318	196	---	---	---	---	---	---	---	1,850	1,980	1,950
6	302	171	---	---	---	---	---	---	---	1,880	1,990	1,930
7	280	199	---	---	---	---	---	---	---	1,900	1,990	1,880
8	243	171	---	---	---	---	---	---	---	1,890	2,000	1,830
9	218	202	---	---	---	---	---	---	---	1,860	2,010	1,780
10	199	171	---	---	---	---	---	---	460	1,810	2,010	1,740
11	171	171	---	---	---	---	---	---	536	1,840	2,010	1,700
12	171	171	---	---	---	---	---	---	622	1,860	2,000	1,680
13	171	171	---	---	---	---	---	---	705	1,910	2,000	1,630
14	171	171	---	---	---	---	---	---	790	1,930	1,990	1,580
15	171	171	---	---	---	---	---	---	861	1,920	1,980	1,550
16	171	114	---	---	---	---	---	---	874	1,900	1,960	1,490
17	171	---	---	---	---	---	---	---	861	1,900	1,950	1,440
18	171	---	---	---	---	---	---	---	858	1,870	1,940	1,390
19	171	---	---	---	---	---	---	---	867	1,870	1,950	1,340
20	171	---	---	---	---	---	---	---	923	1,900	1,950	1,300
21	171	---	---	---	---	---	---	---	1,020	1,930	1,950	1,260
22	171	---	---	---	---	---	---	---	1,080	1,950	1,960	1,210
23	174	---	---	---	---	---	---	---	1,250	1,980	1,960	1,160
24	174	---	---	---	---	---	---	---	1,330	1,990	1,970	1,110
25	1,060	---	---	---	---	---	---	---	1,340	1,990	1,960	1,030
26	845	---	---	---	---	---	---	---	1,310	1,960	1,960	1,010
27	637	---	---	---	---	---	---	---	1,370	1,940	1,970	955
28	517	---	---	---	---	---	---	---	1,520	1,940	1,970	900
29	470	---	---	---	---	---	---	---	1,580	1,950	1,960	848
30	381	---	---	---	---	---	---	---	1,530	1,980	1,960	777
31	375	---	---	---	---	---	---	---	---	2,000	1,970	---
Max	1,060	---	---	---	---	---	---	---	---	2,000	2,010	1,950
Min	171	---	---	---	---	---	---	---	---	1,650	1,940	777
Gage height, in feet, at end of month	1.19	---	---	---	---	---	---	---	4.75	6.17	6.08	2.45
Change in contents, in acre-feet	-70	---	---	---	---	---	---	---	---	+470	-30	-1,163
Release, in acre-feet, through Echo Lake Conduit	342	0	0	0	0	0	0	0	0	0	0	1,150

	Calendar Year 2010	Water Year 2011
Change in contents, in acre-feet		+332
Release, in acre-feet, through Echo Lake Conduit	1,450	1,490

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