

**11014550 Lower Otay Lake near Chula Vista, CA**

Otay River Basin

LOCATION.--Lat 32°36'33", long 116°55'40" referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.13, T.18 S., R.1 E., San Diego County, CA, Hydrologic Unit 18070304, on right bank, 30 ft west of right end of Savage Dam on Otay River, and 9.0 mi east of Chula Vista.

DRAINAGE AREA.--99 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1945 to September 1959 (published with Otay River at Savage Dam, station 11014500); October 1972 to September 1993, May 2004 to current year. Prior to October 1987 monthend contents only. Monthend gage heights October 1936 to September 1945, in files of San Diego County Department of Sanitation and Flood Control.

REVISED RECORDS.--WDR CA-73-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to October 1987, nonrecording gage at same site.

REMARKS.--Records good. Reservoir is formed by gravity section concrete and masonry dam, built in 1919. Maximum capacity at top of spillway gates, 56,520 acre-ft, elevation, 490.70 ft. Capacity at permanent spillway level, 49,510 acre-ft, elevation, 484.70 ft. Dead storage below lowest outlet, 1,150 acre-ft, elevation, 395.05 ft. Dulzura Conduit carries water from Barrett Lake (station 11011000) to Dulzura Creek, where water is carried to the reservoir by Jamul Creek (station 11014000). Reservoir storage includes supplemental Colorado River water. Water used for municipal supply by city of San Diego.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 51,860 acre-ft, spilling, Mar. 3, 1983, elevation, 486.78 ft; minimum observed, 3,160 acre-ft, Dec. 31, 1951, elevation, 407.56 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 44,490 acre-ft, June 23-24, elevation, 479.99 ft; minimum observed, 42,420 acre-ft, Oct. 1, elevation, 477.94 ft.

**Capacity table (elevation, in feet, and contents, in acre-feet)  
(Based on table dated Apr. 3, 1956)**

Elevation	Contents	Elevation	Contents	Elevation	Contents
430	10,090	445	17,340	470	35,100
435	12,250	450	20,280	480	44,500
440	14,660	460	27,060	489	54,460

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**RESERVOIR STORAGE, ACRE FEET**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**  
**DAILY OBSERVATION AT 2400 HOURS**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	42,450	43,250	43,740	43,540	43,360	43,570	43,690	43,770	44,270	44,300	43,800	44,200
2	42,470	43,250	43,750	43,540	43,360	43,580	43,700	43,770	44,270	44,280	43,780	44,190
3	42,490	43,270	43,770	43,540	43,350	43,580	43,710	43,830	44,270	44,260	43,770	e44,180
4	42,510	43,390	43,770	43,540	43,350	43,580	43,720	43,880	44,250	44,250	43,780	e44,170
5	42,560	43,430	43,770	43,560	43,350	43,580	43,730	43,900	44,220	44,250	43,800	44,160
6	42,570	43,450	43,760	e43,550	43,350	43,600	43,730	43,910	44,200	44,240	43,830	44,110
7	42,560	43,430	43,720	e43,540	43,360	43,610	43,730	43,960	44,180	44,230	43,870	e44,110
8	42,580	43,430	43,680	e43,530	43,370	43,600	43,740	43,960	44,170	44,230	43,880	e44,100
9	42,610	43,430	43,640	e43,520	43,370	43,600	43,750	43,980	44,190	44,230	43,900	e44,080
10	42,640	43,460	43,620	e43,510	43,370	43,600	43,750	44,000	44,220	44,230	43,910	e44,060
11	42,670	43,460	43,620	e43,500	43,370	43,610	43,740	44,020	44,240	44,270	43,920	44,050
12	42,690	43,530	43,650	e43,490	43,370	43,610	43,710	44,030	44,250	44,290	43,940	44,040
13	42,730	43,550	43,660	e43,490	43,390	43,640	43,730	44,020	44,280	44,310	43,970	44,040
14	42,760	43,540	43,650	43,480	43,430	43,690	43,740	44,010	44,310	44,310	43,990	44,020
15	42,790	43,540	43,630	43,480	43,490	43,730	43,710	44,020	44,340	44,300	44,020	44,000
16	42,820	43,550	43,590	43,490	43,500	43,760	43,690	44,010	44,360	44,290	44,050	43,990
17	42,830	43,600	43,580	43,500	43,510	43,860	43,690	44,010	44,400	44,260	44,160	43,980
18	42,870	43,630	43,550	43,490	43,520	43,860	43,700	44,020	44,420	44,240	44,170	43,950
19	42,910	43,650	43,520	43,500	43,520	43,900	43,710	44,040	44,430	44,260	44,150	43,920
20	42,950	43,710	43,480	43,500	43,520	43,880	43,720	44,050	44,440	44,240	44,170	43,880
21	42,990	43,740	43,490	43,500	43,520	43,840	43,730	44,070	44,450	44,210	44,190	43,840
22	43,020	43,760	43,490	43,480	43,520	43,800	43,740	44,070	44,470	44,180	44,220	43,830
23	43,050	43,750	43,490	43,470	43,520	43,760	43,750	44,080	44,490	44,120	44,240	43,830
24	43,070	43,750	43,510	43,430	43,520	43,730	43,750	44,090	44,470	44,080	44,240	43,820
25	43,090	43,740	43,520	43,400	43,520	43,700	43,810	44,100	44,450	44,040	44,250	43,810
26	43,110	43,750	43,540	43,380	43,510	43,670	43,820	44,130	44,430	43,990	44,250	43,800
27	43,130	43,730	43,540	43,390	43,540	43,640	43,820	44,150	44,400	43,950	44,260	43,780
28	43,160	43,730	43,560	43,390	43,550	43,620	43,800	44,170	44,380	43,900	44,250	43,780
29	43,180	43,710	43,540	43,380	43,550	43,620	43,780	44,170	44,350	43,890	44,230	43,740
30	43,210	43,720	43,510	43,370	---	43,640	43,760	44,210	44,330	43,870	44,220	43,710
31	43,230	---	43,500	43,370	---	43,660	---	44,240	---	43,830	44,220	---
<b>Max</b>	43,230	43,760	43,770	43,560	43,550	43,900	43,820	44,240	44,490	44,310	44,260	44,200
<b>Min</b>	42,450	43,250	43,480	43,370	43,350	43,570	43,690	43,770	44,170	43,830	43,770	43,710
<b>Elevation, in feet, at end of month</b>	478.75	479.24	479.02	478.89	479.07	479.18	479.28	479.75	479.83	479.35	479.73	479.23
<b>Change in contents, in acre-feet</b>	800	490	-220	-130	180	110	100	480	90	-500	390	-510

	Calendar Year 2011	Water Year 2012
<b>Max</b>	45,010	44,490
<b>Min</b>	39,320	42,420

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