

10297000 Topaz Lake Near Topaz, CA

Walker Basin
West Walker Subbasin

LOCATION.--Lat 38°41'35.64", long 119°31'13.11" referenced to North American Datum of 1983, in NW ¼ NE ¼ sec.33, T.10 N., R.22 E., Douglas County, NV, Hydrologic Unit 16050302, at boat ramp of Topaz Lake County Park on West Walker River, and 5.5 mi north of Topaz.

DRAINAGE AREA.--Not determined.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Dec 1921 to Sep 1931 (monthly contents only published in WSP 1734), Oct 1931 to current year.

GAGE.--Water-stage recorder. Datum of gage is above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Oct 01, 1978, at datum 4.62 ft higher.

REMARKS.--Topaz Lake, formerly known as Alkali Lake and Topaz Reservoir, was formed by the diversion of water from West Walker River through a feeder canal and the construction of an outlet tunnel through a low saddle in rim of lake. Storage began about Dec 1921. Usable capacity, 59,440 acre-ft, between elevations 4,967.68 ft (lowest practical elevation for diversion through tunnel) and 5,000.38 ft (3 ft below top of levee). Usable capacity of reservoir was increased from about 45,000 acre-ft to 59,440 acre-ft in Oct 1937 by an earthfill, rock-faced levee at south end. Figures given herein represent usable contents. There is 65,000 acre-ft of lake volume below the point of controllable storage. Water is used for irrigation in Walker River Irrigation District.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 59,230 acre-ft, Jul 21, gage height, 5000.29 ft; minimum contents, 19,250 acre-ft, Nov 02, gage height, 4979.70 ft.

Capacity table (elevation, in feet above NGVD 1929, and contents, in acre-feet)

| Elevation | Contents | Elevation | Contents | Elevation | Contents |
|-----------|----------|-----------|----------|-----------|----------|
| 4,968 | 490 | 4,980 | 19,760 | 4,995 | 47,540 |
| 4,970 | 3,580 | 4,985 | 28,310 | 5,000 | 58,570 |
| 4,975 | 11,520 | 4,990 | 37,360 | 5,001 | 60,870 |

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RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY OBSERVATION AT 2400 HOURS

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1 | 25,120 | 19,470 | 22,810 | 34,110 | 46,080 | 54,550 | 56,300 | 51,240 | 46,880 | 58,520 | 56,870 | 36,400 |
| 2 | 24,880 | 19,470 | 23,310 | 35,370 | 46,350 | 55,130 | 56,350 | 51,150 | 47,940 | 58,770 | 56,410 | 35,750 |
| 3 | 24,640 | 19,470 | 23,530 | 36,100 | 46,730 | 55,740 | 56,570 | 50,980 | 49,010 | 58,750 | 55,940 | 35,080 |
| 4 | 24,370 | 19,570 | 23,700 | 36,730 | 47,030 | 56,210 | 56,840 | 50,720 | 50,200 | 58,520 | 55,400 | 34,360 |
| 5 | 24,110 | 19,650 | 23,870 | 37,220 | 47,280 | 56,620 | 56,730 | 50,440 | 51,260 | 58,320 | 54,800 | 33,690 |
| 6 | 23,890 | 19,740 | 24,030 | 37,780 | 47,540 | 56,930 | 56,530 | 50,090 | 51,830 | 58,270 | 54,170 | 33,040 |
| 7 | 23,670 | 19,790 | 24,200 | 38,350 | 47,810 | 57,070 | 56,210 | 49,920 | 52,450 | 58,180 | 53,530 | 32,350 |
| 8 | 23,480 | 19,910 | 24,370 | 38,720 | 48,070 | 57,180 | 55,960 | 49,940 | 52,890 | 58,180 | 52,930 | 31,670 |
| 9 | 23,340 | 20,010 | 24,520 | 39,150 | 48,300 | 57,270 | 55,650 | 49,960 | 53,370 | 58,250 | 52,360 | 30,980 |
| 10 | 23,210 | 20,140 | 24,710 | 39,510 | 48,540 | 57,360 | 55,380 | 49,850 | 53,860 | 58,300 | 51,770 | 30,290 |
| 11 | 23,040 | 20,260 | 24,860 | 39,930 | 48,800 | 57,200 | 55,040 | 49,810 | 54,060 | 58,340 | 51,220 | 29,620 |
| 12 | 22,930 | 20,360 | 25,020 | 40,280 | 49,010 | 56,960 | 54,750 | 49,760 | 54,400 | 58,390 | 50,630 | 28,990 |
| 13 | 22,830 | 20,480 | 25,170 | 40,650 | 49,270 | 56,730 | 54,440 | 49,550 | 54,570 | 58,390 | 50,020 | 28,380 |
| 14 | 22,640 | 20,590 | 25,330 | 41,070 | 49,510 | 56,550 | 54,200 | 49,510 | 54,420 | 58,340 | 49,400 | 27,720 |
| 15 | 22,590 | 20,700 | 25,470 | 41,370 | 49,740 | 56,280 | 54,000 | 49,530 | 54,400 | 58,270 | 48,820 | 27,120 |
| 16 | 22,440 | 20,800 | 25,620 | 41,650 | 49,980 | 56,120 | 53,880 | 49,480 | 54,570 | 58,200 | 48,280 | 26,620 |
| 17 | 22,290 | 20,920 | 25,780 | 42,020 | 50,200 | 55,960 | 53,550 | 49,810 | 55,130 | 58,230 | 47,680 | 26,140 |
| 18 | 22,100 | 21,020 | 26,100 | 42,330 | 50,440 | 55,850 | 53,060 | 50,220 | 55,940 | 58,500 | 47,010 | 25,690 |
| 19 | 21,860 | 21,120 | 26,350 | 42,650 | 50,630 | 55,670 | 52,560 | 51,040 | 56,680 | 58,770 | 46,330 | 25,230 |
| 20 | 21,610 | 21,220 | 26,570 | 42,920 | 50,850 | 55,580 | 52,050 | 51,990 | 57,180 | 59,030 | 45,660 | 24,880 |
| 21 | 21,390 | 21,320 | 26,920 | 43,250 | 51,040 | 55,470 | 51,660 | 52,360 | 57,640 | 59,210 | 44,970 | 24,570 |
| 22 | 21,200 | 21,420 | 27,400 | 43,540 | 51,260 | 55,380 | 51,370 | 52,050 | 58,110 | 59,120 | 44,260 | 24,230 |
| 23 | 21,030 | 21,520 | 27,800 | 43,780 | 51,480 | 55,360 | 51,150 | 51,150 | 58,270 | 59,100 | 43,520 | 23,910 |
| 24 | 20,830 | 21,630 | 28,120 | 44,090 | 51,700 | 55,380 | 50,870 | 50,240 | 58,300 | 58,960 | 42,710 | 23,600 |
| 25 | 20,630 | 21,740 | 28,360 | 44,380 | 51,920 | 55,670 | 50,630 | 49,510 | 58,390 | 58,730 | 41,900 | 23,320 |
| 26 | 20,390 | 21,850 | 28,760 | 44,590 | 52,070 | 55,720 | 50,390 | 48,990 | 58,360 | 58,620 | 41,050 | 23,050 |
| 27 | 20,190 | 21,950 | 29,040 | 44,840 | 52,670 | 55,830 | 50,500 | 48,240 | 58,230 | 58,550 | 40,230 | 22,830 |
| 28 | 19,990 | 22,030 | 29,460 | 45,030 | 53,860 | 55,960 | 50,650 | 47,110 | 58,140 | 58,410 | 39,430 | 22,660 |
| 29 | 19,790 | 22,200 | 29,940 | 45,300 | --- | 56,080 | 50,780 | 46,080 | 58,070 | 58,110 | 38,640 | 22,510 |
| 30 | 19,590 | 22,300 | 30,460 | 45,570 | --- | 56,140 | 51,020 | 45,910 | 58,250 | 57,730 | 37,880 | 22,270 |
| 31 | 19,490 | --- | 32,870 | 45,850 | --- | 56,280 | --- | 46,220 | --- | 57,300 | 37,090 | --- |
| Max | 25,120 | 22,300 | 32,870 | 45,850 | 53,860 | 57,360 | 56,840 | 52,360 | 58,390 | 59,210 | 56,870 | 36,400 |
| Min | 19,490 | 19,470 | 22,810 | 34,110 | 46,080 | 54,550 | 50,390 | 45,910 | 46,880 | 57,300 | 37,090 | 22,270 |
| Elevation, in feet above NGVD 1929, at end of month. | 4,979.84 | 4,981.51 | 4,987.58 | 4,994.20 | 4,997.91 | 4,998.99 | 4,996.62 | 4,994.38 | 4,999.86 | 4,999.44 | 4,989.86 | 4,981.49 |
| Change in contents, in acre-feet. | -5,910 | +2,810 | +10,570 | +12,980 | +8,010 | +2,420 | -5,260 | -4,800 | +12,030 | -950 | -20,210 | -14,820 |

| | Calendar Year 2005 | Water Year 2006 |
|--|--------------------|-----------------|
| Max | 60,850 | 59,210 |
| Min | 10,240 | 19,470 |
| Change in contents, in acre-feet. | +22,690 | -3,130 |

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