



Water-Data Report CA-2005

**11525400 TRINITY LAKE NEAR LEWISTON, CA**

Klamath River Basin

LOCATION.--Lat 40°48'05", long 122°45'44" referenced to North American Datum of 1927, in NW ¼ SW ¼ sec.15, T.34 N., R.8 W., Trinity County, Hydrologic Unit 18010211, Trinity National Forest, Whiskeytown-Shasta-Trinity National Recreation Area, on side of intake structure of Trinity Dam on Trinity River, and 9 mi north of Lewiston.

DRAINAGE AREA.--692 mi<sup>2</sup>.

**WATER-STAGE RECORDS**

PERIOD OF RECORD.--November 1960 to current year. From October 1963 to September 1997 published as "Clair Engle Lake near Lewiston".

GAGE.--Water-stage recorder. Datum of gage is 2,389.95 ft above NGVD of 1929 (levels by U.S. Bureau of Reclamation). Prior to Jan. 4, 1962, nonrecording gage at same site and datum. Contents based on capacity table provided by U.S. Bureau of Reclamation, dated April 1962.

REMARKS.--Lake is formed by an earthfill dam completed in November 1960. Storage began Nov. 23, 1960. Usable capacity, 2,437,700 acre-ft, between elevations 1,995.5 ft, elevation of invert of river outlets, and 2,370.0 ft, crest of glory hole spillway. Dead storage, 10,000 acre-ft. Operating pool is from elevation 2,145.0 ft, capacity, 312,621 acre-ft, to 2,370.0 ft, capacity, 2,447,700 acre-ft. Figures given represent total contents at 2400 hours. Lake is used for power generation, flood control, and recreation. See schematic diagram of Klamath River and Trinity River Basins.

COOPERATION.--Records were provided by U.S. Bureau of Reclamation, not rounded to U.S. Geological Survey standards.

EXTREMES FOR PERIOD OF RECORD.--(at 2400 hours) Maximum contents, 2,588,000 acre-ft, Jan. 19, 1974, elevation, 2,378.32 ft; minimum since first filling, 222,400 acre-ft, Nov. 9, 1977, elevation, 2,120.22 ft.

EXTREMES FOR CURRENT YEAR.--(at 2400 hours) Maximum contents, 2,149,729 acre-ft, June 30 and July 1, elevation, 2,351.05 ft; minimum, 1,415,058 acre-ft, Nov. 4-12, elevation, 2,295.97 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)  
(Based on table provided by U.S. Bureau of Reclamation, dated April 1962)

Elevation	Contents	Elevation	Contents	Elevation	Contents
2,100	162,231	2,190	529,611	2,310	1,583,586
2,140	292,859	2,250	955,140	2,380	2,616,989

11525400 TRINITY LAKE NEAR LEWISTON, CA—Continued

**RESERVOIR STORAGE, ACRE FEET  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY OBSERVATION AT 2400 HOURS**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,583,338	1,415,404	1,416,331	1,490,640	1,591,577	1,680,657	1,847,489	1,972,701	2,106,315	2,149,729	2,094,685	1,991,321
2	1,575,637	1,415,173	1,416,447	1,492,797	1,595,073	1,687,921	1,852,578	1,976,593	2,109,606	2,149,124	2,092,301	1,987,555
3	1,568,199	1,415,058	1,416,447	1,494,595	1,597,829	1,694,429	1,857,254	1,980,341	2,112,149	2,148,521	2,089,768	1,983,801
4	1,561,031	1,415,058	1,416,563	1,495,914	1,601,218	1,700,035	1,861,944	1,984,522	2,113,794	2,147,767	2,087,391	1,980,053
5	1,553,396	1,415,058	1,416,563	1,497,352	1,604,356	1,704,744	1,865,815	1,990,741	2,114,841	2,146,712	2,085,462	1,976,305
6	1,545,654	1,415,058	1,416,563	1,498,071	1,606,866	1,708,930	1,868,995	1,998,563	2,115,589	2,145,204	2,083,384	1,972,557
7	1,538,192	1,415,058	1,416,911	1,499,637	1,609,632	1,712,862	1,872,174	2,005,388	2,115,888	2,143,848	2,080,862	1,968,681
8	1,530,382	1,415,058	1,422,476	1,500,842	1,611,904	1,716,805	1,875,922	2,012,368	2,116,038	2,142,189	2,078,042	1,965,239
9	1,522,593	1,415,058	1,430,378	1,502,047	1,614,301	1,721,143	1,879,535	2,020,648	2,116,636	2,140,230	2,074,778	1,961,080
10	1,514,841	1,415,058	1,435,975	1,503,372	1,616,320	1,725,882	1,883,427	2,027,395	2,116,935	2,138,421	2,071,524	1,956,497
11	1,507,347	1,415,058	1,439,595	1,504,938	1,617,960	1,731,031	1,887,319	2,030,756	2,117,235	2,136,916	2,068,420	1,952,502
12	1,499,878	1,415,058	1,442,410	1,506,383	1,619,737	1,736,446	1,891,092	2,031,342	2,117,683	2,135,707	2,065,316	1,948,649
13	1,492,678	1,415,173	1,444,639	1,507,588	1,622,002	1,741,878	1,895,004	2,031,342	2,118,282	2,134,501	2,062,212	1,945,082
14	1,485,012	1,415,173	1,446,867	1,509,033	1,624,665	1,747,184	1,898,916	2,031,196	2,118,431	2,133,598	2,059,257	1,941,241
15	1,477,262	1,415,289	1,448,979	1,509,997	1,627,075	1,752,097	1,902,417	2,031,196	2,118,730	2,132,697	2,056,313	1,937,551
16	1,469,773	1,415,404	1,450,858	1,511,087	1,629,612	1,756,361	1,905,507	2,031,782	2,118,730	2,131,645	2,053,516	1,933,009
17	1,462,419	1,415,520	1,452,391	1,512,419	1,631,895	1,760,358	1,908,597	2,032,515	2,119,030	2,130,594	2,050,719	1,929,177
18	1,455,340	1,415,636	1,453,925	1,513,751	1,634,179	1,764,089	1,911,968	2,035,741	2,122,034	2,129,693	2,047,775	1,925,365
19	1,450,269	1,415,636	1,455,576	1,515,809	1,636,601	1,767,835	1,915,764	2,041,898	2,128,492	2,128,642	2,044,978	1,921,694
20	1,448,509	1,415,636	1,456,992	1,518,231	1,640,808	1,771,984	1,919,576	2,047,039	2,134,049	2,126,539	2,042,045	1,918,305
21	1,446,281	1,415,752	1,458,171	1,521,137	1,645,781	1,776,268	1,923,388	2,051,161	2,138,119	2,122,484	2,038,526	1,914,918
22	1,444,052	1,415,752	1,459,587	1,523,810	1,650,261	1,782,042	1,927,342	2,054,546	2,141,134	2,119,180	2,034,861	1,911,687
23	1,442,410	1,415,868	1,460,766	1,526,853	1,654,490	1,788,764	1,931,732	2,058,079	2,143,395	2,116,487	2,031,196	1,908,316
24	1,439,713	1,415,868	1,461,592	1,529,774	1,658,209	1,795,100	1,937,125	2,062,064	2,145,054	2,113,645	2,027,541	1,905,226
25	1,436,092	1,415,984	1,462,419	1,533,060	1,661,549	1,800,908	1,942,660	2,066,794	2,146,260	2,111,551	2,023,891	1,902,698
26	1,433,060	1,415,984	1,463,961	1,541,861	1,664,641	1,806,046	1,948,221	2,072,558	2,147,616	2,109,606	2,020,094	1,900,034
27	1,429,562	1,416,100	1,467,638	1,554,379	1,668,119	1,811,200	1,953,786	2,079,081	2,148,521	2,106,914	2,016,444	1,897,659
28	1,425,954	1,416,100	1,473,806	1,565,851	1,673,924	1,819,480	1,959,933	2,085,610	2,148,973	2,104,371	2,012,804	1,895,144
29	1,422,244	1,416,216	1,479,051	1,575,512		1,827,792	1,965,096	2,092,152	2,149,427	2,101,985	2,005,970	1,892,769
30	1,418,070	1,416,331	1,484,178	1,582,468		1,835,437	1,968,968	2,097,664	2,149,729	2,099,750	1,999,721	1,890,254
31	1,415,868		1,488,123	1,587,582		1,841,869		2,102,432		2,097,515	1,995,086	
<b>Elevation, in feet, at end of month</b>	2,296.04	2,296.08	2,303.18	2,310.32	2,317.12	2,329.73	2,338.79	2,347.90	2,351.05	2,347.57	2,340.60	2,333.23
<b>Change in contents, in acre-feet</b>	-175,085	+463	+71,792	+99,459	+86,342	+167,945	+127,099	+133,464	+47,297	-52,217	-102,429	-104,832
<b>Max</b>	1,583,338	1,416,331	1,488,123	1,587,582	1,673,924	1,841,869	1,968,968	2,102,432	2,149,729	2,149,729	2,094,685	1,991,321
<b>Min</b>	1,415,868	1,415,058	1,416,331	1,490,640	1,591,577	1,680,657	1,847,489	1,972,701	2,106,315	2,097,515	1,995,086	1,890,254

	Calendar Year 2004	Water Year 2005
<b>Change in contents, in acre-feet</b>	-318,058	+299,301