

11370000 SHASTA LAKE NEAR REDDING, CA

Sacramento River Basin

LOCATION.--Lat 40°43'08", long 122°25'12" referenced to North American Datum of 1927, in SE ¼ NW ¼ sec.15, T.33 N., R.5 W., Shasta County, Hydrologic Unit 18020005, in Shasta Dam on Sacramento River, near right bank, 2 mi downstream from Squaw Creek, and 9.5 mi north of Redding.

DRAINAGE AREA.--6,421 mi², excluding Goose Lake Basin.

WATER-STAGE RECORDS

PERIOD OF RECORD.--November 1942 to current year. Prior to 1950, published as "Shasta Reservoir near Redding."

CHEMICAL DATA: Water years 1978-80.

GAGE.--Water-stage recorder. Datum of gage is 1,068.39 ft above NGVD of 1929 (levels by U.S. Bureau of Reclamation). Prior to July 10, 1944, nonrecording gage at various sites near dam at same datum. Contents based on capacity table dated May 8, 1967, provided by U.S. Bureau of Reclamation.

REMARKS.--Lake is formed by concrete gravity-type dam completed in 1949; regulation began Dec. 30, 1943. Usable capacity, 4,436,400 acre-ft, between elevations 737.75 ft, invert of lowest set of river outlets, and 1,067.0 ft, top of flashboard gates on drum-type spillway gates. Operating pool from elevation, 840.0 ft, capacity, 587,127 acre-ft, to 1,067.0 ft, capacity, 4,552,090 acre-ft. Dead storage, 115,800 acre-ft. Installation of flashboard gates on top of drum gates completed Nov. 12, 1964. All water passes down the Sacramento River, most of which is through powerplant at dam. Figures given represent total contents at 2400 hours. Lake is used for flood control, power generation, irrigation, and recreation. See schematic diagram of Pit and McCloud 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, 4,550,300 acre-ft, May 19, 1967, elevation, 1,066.94 ft; minimum since first filling, 562,600 acre-ft, Sept. 13, 1977, elevation, 836.68 ft.

EXTREMES FOR CURRENT YEAR.--(at 2400 hours) Maximum contents, 4,484,785 acre-ft, May 26, elevation, 1,064.73 ft; minimum, 2,121,567 acre-ft, Dec. 3, elevation, 964.24 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on table provided by U.S. Bureau of Reclamation, dated May 8, 1967)

Elevation	Contents	Elevation	Contents	Elevation	Contents	Elevation	Contents
830	515,543	890	1,051,713	950	1,876,996	1,010	3,051,750
840	587,127	900	1,167,888	960	2,046,829	1,020	3,286,929
850	665,511	910	1,291,854	970	2,226,093	1,030	3,533,478
860	751,027	920	1,424,780	980	2,416,019	1,050	4,063,108
870	843,589	930	1,566,238	990	2,616,622	1,067	4,552,090
880	943,929	940	1,717,255	1,000	2,828,544		

11370000 SHASTA LAKE NEAR REDDING, 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	2,178,849	2,156,382	2,124,069	2,437,349	2,848,156	3,191,638	3,844,599	4,214,341	4,464,449	4,204,107	3,623,507	3,263,584
2	2,176,121	2,159,637	2,123,712	2,459,603	2,863,699	3,216,526	3,861,966	4,222,017	4,457,696	4,187,696	3,607,060	3,254,243
3	2,175,575	2,154,935	2,121,567	2,474,042	2,876,869	3,237,491	3,881,790	4,227,987	4,453,295	4,172,708	3,590,169	3,244,906
4	2,175,393	2,152,228	2,122,282	2,482,391	2,892,508	3,255,679	3,902,216	4,234,539	4,445,961	4,155,813	3,573,588	3,236,061
5	2,173,029	2,149,532	2,122,640	2,488,757	2,906,447	3,274,655	3,918,676	4,251,100	4,441,561	4,138,954	3,556,537	3,227,961
6	2,172,301	2,148,992	2,128,895	2,492,935	2,916,633	3,289,098	3,933,011	4,264,542	4,433,933	4,121,576	3,541,333	3,220,338
7	2,172,119	2,146,835	2,142,161	2,500,325	2,925,537	3,304,280	3,950,364	4,278,603	4,425,756	4,104,824	3,525,662	3,213,201
8	2,174,120	2,141,622	2,192,509	2,508,927	2,931,103	3,319,021	3,973,510	4,318,628	4,420,499	4,083,100	3,510,533	3,205,616
9	2,171,574	2,136,229	2,218,549	2,517,945	2,936,446	3,333,071	3,992,639	4,389,902	4,412,613	4,064,774	3,496,722	3,199,221
10	2,170,487	2,134,078	2,233,126	2,529,409	2,940,686	3,345,232	4,011,269	4,431,597	4,402,693	4,045,145	3,484,929	3,190,694
11	2,167,955	2,134,078	2,243,675	2,541,952	2,947,175	3,356,187	4,026,397	4,447,721	4,392,809	4,027,222	3,474,436	3,182,676
12	2,165,423	2,133,363	2,252,046	2,550,286	2,950,979	3,364,733	4,042,105	4,450,655	4,382,635	4,006,327	3,464,950	3,176,309
13	2,164,338	2,135,330	2,257,258	2,558,201	2,962,174	3,375,254	4,056,476	4,445,668	4,369,870	3,987,164	3,453,739	3,169,942
14	2,160,722	2,135,689	2,260,980	2,566,702	2,973,423	3,387,259	4,070,050	4,443,321	4,359,162	3,966,426	3,441,568	3,162,894
15	2,157,105	2,136,049	2,266,210	2,574,595	2,983,323	3,393,899	4,082,822	4,440,387	4,347,296	3,948,455	3,431,147	3,155,154
16	2,152,767	2,135,689	2,270,328	2,582,356	2,991,689	3,402,507	4,093,664	4,467,691	4,341,215	3,925,422	3,421,260	3,148,352
17	2,151,150	2,134,793	2,274,073	2,589,514	2,999,830	3,410,632	4,103,429	4,424,587	4,338,609	3,903,835	3,409,396	3,142,498
18	2,151,150	2,133,363	2,278,004	2,596,265	3,011,391	3,419,777	4,114,588	4,426,924	4,343,242	3,882,865	3,398,572	3,135,031
19	2,163,615	2,132,648	2,280,813	2,604,076	3,021,393	3,438,090	4,123,818	4,448,308	4,341,794	3,862,768	3,386,521	3,129,197
20	2,168,498	2,130,146	2,285,137	2,613,538	3,046,950	3,458,959	4,132,507	4,464,744	4,338,609	3,843,269	3,377,211	3,123,130
21	2,165,423	2,128,895	2,287,773	2,621,791	3,068,750	3,486,184	4,140,636	4,471,817	4,332,528	3,821,720	3,367,914	3,116,620
22	2,161,084	2,127,286	2,289,656	2,629,855	3,084,422	3,544,121	4,150,181	4,473,290	4,321,813	3,801,590	3,359,352	3,108,495
23	2,162,892	2,126,214	2,291,539	2,636,472	3,100,138	3,593,496	4,160,037	4,470,049	4,311,418	3,728,259	3,349,371	3,098,513
24	2,160,179	2,125,142	2,291,539	2,644,368	3,108,959	3,630,709	4,168,203	4,482,132	4,295,852	3,763,728	3,340,120	3,087,656
25	2,158,371	2,124,963	2,292,857	2,654,971	3,117,780	3,660,925	4,174,961	4,483,606	4,280,612	3,742,643	3,330,164	3,077,956
26	2,161,807	2,124,963	2,299,824	2,686,140	3,126,630	3,686,896	4,179,488	4,484,785	4,267,125	3,724,795	3,321,443	3,068,291
27	2,162,711	2,125,678	2,318,753	2,710,791	3,143,898	3,720,598	4,184,581	4,482,427	4,252,243	3,706,469	3,310,545	3,061,399
28	2,162,892	2,125,320	2,339,896	2,755,212	3,168,056	3,753,713	4,191,371	4,481,248	4,239,393	3,689,242	3,300,665	3,052,669
29	2,161,988	2,124,427	2,360,789	2,789,988	---	3,781,994	4,198,727	4,475,648	4,228,272	3,673,130	3,292,654	3,043,751
30	2,161,626	2,124,248	2,391,693	2,815,951	---	3,806,354	4,207,234	4,473,290	4,217,184	3,656,531	3,282,356	3,034,837
31	2,158,914	---	2,417,193	2,832,031	---	3,827,041	---	4,467,986	---	3,639,214	3,271,767	---
Max	2,178,849	2,159,637	2,417,193	2,832,031	3,168,056	3,827,041	4,207,234	4,484,785	4,464,449	4,204,107	3,623,507	3,263,584
Min	2,151,150	2,124,248	2,121,567	2,437,349	2,848,156	3,191,638	3,844,599	4,214,341	4,217,184	3,639,214	3,271,767	3,034,837
Elevation, in feet, at end of month	966.32	964.39	980.306	1,000.16	1,015.01	1,041.30	1,055.14	1,064.16	1,055.49	1,034.14	1,019.37	1,009.26
Change in contents, in acre-feet	-23,937	-34,666	+292,945	+414,838	+336,025	+658,985	+380,193	+260,752	-250,802	-577,970	-367,447	-236,930

	Calendar Year 2004	Water Year 2005
Change in contents, in acre-feet	-928,769	+851,986