

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, CA, 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.

SURFACE-WATER 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 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.

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

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 available from the California Water Science Center.

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, 3,205,619 acre-ft, May 15, 16, elevation, 1,016.60 ft; minimum, 1,282,003 acre-ft, Oct. 30, elevation, 909.23 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		

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**RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY OBSERVATION AT 2400 HOURS**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,381,523	1,291,470	1,329,598	1,364,109	1,416,008	2,014,465	2,894,270	2,996,212	3,110,352	2,781,800	2,311,179	1,925,362
2	1,378,568	1,301,259	1,329,468	1,366,910	1,417,242	2,129,788	2,899,141	3,005,257	3,101,531	2,765,690	2,296,058	1,918,337
3	1,378,568	1,305,775	1,327,770	1,369,577	1,418,338	2,211,556	2,904,676	3,035,294	3,094,122	2,750,940	2,280,064	1,909,310
4	1,378,434	1,309,148	1,329,206	1,375,211	1,419,709	2,273,324	2,911,982	3,059,791	3,085,346	2,736,233	2,262,469	1,904,322
5	1,375,883	1,311,094	1,331,300	1,377,628	1,423,409	2,320,081	2,917,968	3,102,692	3,076,109	2,721,146	2,247,764	1,897,672
6	1,373,734	1,312,132	1,330,382	1,377,226	1,430,819	2,356,559	2,926,651	3,133,631	3,066,223	2,707,832	2,233,126	1,891,534
7	1,370,511	1,311,873	1,329,729	1,377,494	1,437,682	2,388,787	2,935,110	3,154,920	3,057,723	2,690,344	2,221,677	1,884,265
8	1,367,844	1,312,651	1,332,484	1,378,166	1,443,619	2,414,071	2,939,120	3,166,178	3,047,865	2,675,231	2,209,900	1,876,668
9	1,365,310	1,313,819	1,332,747	1,380,180	1,447,902	2,437,546	2,949,189	3,176,545	3,039,865	2,662,061	2,194,887	1,869,441
10	1,360,642	1,314,727	1,330,774	1,381,926	1,449,699	2,458,020	2,962,399	3,185,742	3,031,181	2,647,486	2,181,942	1,863,856
11	1,357,174	1,314,727	1,330,643	1,382,866	1,454,967	2,474,240	2,972,523	3,193,060	3,022,075	2,633,164	2,168,859	1,856,327
12	1,354,922	1,315,895	1,329,598	1,384,346	1,458,584	2,489,951	2,981,073	3,197,088	3,012,755	2,617,656	2,153,127	1,848,164
13	1,351,081	1,317,452	1,329,860	1,386,374	1,471,557	2,501,925	2,984,226	3,201,590	3,004,127	2,601,611	2,136,588	1,841,164
14	1,348,962	1,319,279	1,330,643	1,389,078	1,483,482	2,512,928	2,989,428	3,203,960	2,993,272	2,585,015	2,124,248	1,835,974
15	1,346,843	1,321,630	1,331,826	1,390,971	1,511,242	2,529,007	2,993,724	3,205,619	2,982,423	2,570,952	2,113,191	1,830,460
16	1,342,877	1,323,720	1,332,090	1,391,917	1,532,448	2,579,902	2,997,343	3,205,619	2,972,748	2,557,797	2,100,576	1,825,125
17	1,337,878	1,325,679	1,332,353	1,392,593	1,551,958	2,623,445	3,000,056	3,204,197	2,963,974	2,543,375	2,088,381	1,819,966
18	1,333,800	1,328,553	1,332,484	1,393,810	1,566,971	2,654,347	3,001,639	3,202,775	2,953,665	2,526,392	2,076,577	1,815,613
19	1,328,815	1,329,860	1,334,457	1,394,486	1,578,117	2,677,740	3,002,544	3,200,642	2,943,371	2,510,927	2,064,461	1,810,944
20	1,323,981	1,331,300	1,335,904	1,396,785	1,589,760	2,699,803	3,004,579	3,195,666	2,931,993	2,496,924	2,052,240	1,805,977
21	1,319,801	1,335,115	1,341,166	1,396,109	1,599,231	2,727,096	3,005,936	3,191,401	2,920,195	2,480,999	2,040,722	1,802,292
22	1,315,376	1,335,773	1,342,877	1,396,920	1,637,820	2,751,794	3,011,845	3,186,921	2,908,661	2,466,526	2,029,208	1,799,087
23	1,311,224	1,334,194	1,343,403	1,397,733	1,738,254	2,768,697	3,017,529	3,178,667	2,896,263	2,450,923	2,017,414	1,794,928
24	1,306,294	1,334,194	1,348,697	1,400,184	1,821,901	2,785,237	3,016,392	3,170,178	2,883,257	2,435,188	2,004,796	1,791,743
25	1,302,160	1,333,931	1,353,068	1,403,451	1,864,185	2,804,025	3,015,483	3,162,425	2,870,710	2,420,713	1,993,939	1,788,558
26	1,298,038	1,334,721	1,352,273	1,404,268	1,900,997	2,819,208	3,012,527	3,155,154	2,856,470	2,403,355	1,982,286	1,785,852
27	1,292,498	1,334,852	1,351,611	1,406,854	1,932,757	2,832,466	3,009,117	3,148,587	2,839,657	2,388,012	1,973,231	1,783,463
28	1,288,528	1,332,616	1,355,320	1,409,168	1,960,458	2,847,284	3,005,936	3,140,398	2,825,939	2,371,962	1,961,308	1,779,327
29	1,285,841	1,331,958	1,358,108	1,412,993	---	2,860,413	3,001,639	3,133,631	2,812,043	2,356,559	1,950,976	1,776,321
30	1,282,003	1,331,169	1,360,642	1,415,460	---	2,870,491	2,998,247	3,125,930	2,797,114	2,340,662	1,942,855	1,773,947
31	1,282,770	---	1,361,975	1,416,145	---	2,880,614	---	3,118,941	---	2,325,795	1,936,123	---
Max	1,381,523	1,335,773	1,361,975	1,416,145	1,960,458	2,880,614	3,017,529	3,205,619	3,110,352	2,781,800	2,311,179	1,925,362
Min	1,282,003	1,291,470	1,327,770	1,364,109	1,416,008	2,014,465	2,894,270	2,996,212	2,797,114	2,325,795	1,936,123	1,773,947
Elevation, in feet, at end of month	909.29	913.03	915.36	919.37	954.99	1,002.38	1,007.65	1,012.91	998.55	975.32	953.55	943.62
Change in contents, in acre-feet	-101,711	+48,399	+30,806	+54,170	+544,313	+920,156	+117,633	+120,694	-321,827	-471,319	-389,672	-162,176

	Calendar Year 2008	Water Year 2009
Max	3,007,526	3,205,619
Min	1,282,003	1,282,003
Change in contents	-422,125	+389,466

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