

11292600 Donnell Lake near Dardanelle, CA

San Joaquin River Basin

LOCATION.--Lat 38°19'46", long 119°57'37" referenced to North American Datum of 1927, Tuolumne County, CA, Hydrologic Unit 18040010, unsurveyed, in Stanislaus National Forest, on left bank in hoist house of Donnell Dam on Middle Fork Stanislaus River, 1.2 mi downstream from Niagara Creek, and 6.9 mi west of Dardanelle.

DRAINAGE AREA.--230 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1957 to September 2006, and October 2007 to September 2008. Prior to October 1960, published as "Donnells Reservoir near Dardanelle."

REVISED RECORDS.--WSP 1930: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4.84 ft above NGVD of 1929 (levels by Oakdale and South San Joaquin Irrigation Districts).

COOPERATION.--Records were provided by Oakdale and South San Joaquin Irrigation District, in connection with Federal Energy Regulatory Commission project no. 2005.

REMARKS.--Lake is formed by concrete arch-type dam completed in 1957. Usable capacity, 64,745 acre-ft, between gage heights 4,720.0 ft, minimum operating head, and 4,917.0 ft, top of spillway gates. Lake is for power and conservation storage. Water passes through a 7.2-mi tunnel to a powerplant and down the Middle Fork Stanislaus River to Beardsley Lake (station 11292800). Records, including extremes, represent total contents at 2400 hours, of which 2,150 acre-ft is below minimum operating head. Since records for 2007 water year were not published, change of contents for the 2007 calendar year and the 2008 water year could not be determined. See schematic diagram of Stanislaus River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 64,900 acre-ft, May 8, 1963, gage height, 4,917.3 ft; minimum since reservoir first filled, 2,220 acre-ft, Apr. 15, 1983, gage height, 4,720.6 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 64,000 acre-ft, June 18, elevation, 4,915.11 ft; minimum, 6,110 acre-ft, Apr. 2, elevation, 4,741.23 ft.

**Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on table provided by Pacific Gas and Electric Company, dated Oct. 1, 1956)**

Elevation	Contents	Elevation	Contents	Elevation	Contents
4,720	2,150	4,750	8,220	4,800	22,100
4,725	2,850	4,760	10,800	4,820	28,400
4,730	3,730	4,770	13,400	4,850	38,700
4,735	4,730	4,780	16,200	4,880	49,800
4,740	5,830	4,790	19,100	4,917.3	64,900

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RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY OBSERVATION AT 2400 HOURS

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	33,300	28,600	19,400	12,900	7,460	6,950	6,180	12,100	53,600	61,700	56,100	39,800
2	33,200	28,000	19,200	12,700	7,420	7,000	6,110	12,300	55,000	61,700	55,700	39,400
3	33,100	27,600	19,000	12,400	7,540	7,060	6,230	12,700	56,500	61,800	55,300	38,900
4	33,000	27,400	19,000	12,500	7,280	7,170	6,530	13,000	57,700	61,900	54,900	38,500
5	32,900	27,000	18,500	12,500	7,060	7,240	6,980	13,200	58,500	62,000	54,400	38,200
6	32,800	26,600	18,200	12,300	6,760	7,250	7,390	13,800	59,200	62,000	54,000	37,800
7	32,600	26,200	17,900	12,100	6,600	7,000	7,660	14,700	59,900	62,000	53,500	37,700
8	32,400	26,000	17,500	12,300	6,790	6,920	7,860	15,600	60,300	62,000	53,100	37,300
9	32,100	25,700	17,300	12,200	6,920	6,880	7,730	16,900	61,000	62,000	53,000	37,000
10	31,900	25,400	17,000	12,100	7,040	6,850	7,480	18,400	61,700	62,000	53,000	36,800
11	31,600	25,200	16,800	11,600	6,920	6,990	7,250	20,000	62,400	61,900	52,500	36,500
12	31,200	24,800	16,500	11,300	6,570	7,060	7,290	21,500	62,800	61,700	52,100	36,400
13	30,500	24,500	16,200	10,900	6,420	7,340	7,640	22,700	63,200	61,600	51,400	36,300
14	30,200	24,200	16,100	10,500	6,400	7,690	8,140	24,200	63,500	61,400	50,700	36,300
15	30,200	23,800	15,900	10,100	6,230	7,960	8,480	26,200	63,700	61,300	50,100	35,900
16	30,300	23,500	15,800	9,700	6,290	8,060	8,860	29,300	63,900	61,300	49,400	35,400
17	30,400	23,200	15,500	9,320	6,300	7,900	8,960	32,100	63,900	61,000	49,000	35,100
18	30,400	22,900	15,400	9,150	6,380	7,670	9,190	35,000	64,000	60,700	48,500	34,700
19	30,500	22,400	15,100	8,940	6,380	7,430	9,490	37,700	63,900	60,400	47,900	34,300
20	30,600	22,100	14,900	8,840	6,380	7,250	9,590	40,200	63,900	60,300	47,400	34,100
21	30,700	21,700	14,800	8,610	6,390	7,030	9,360	42,700	63,800	60,000	46,800	33,900
22	30,700	21,400	14,800	8,490	6,470	6,980	8,940	44,300	63,900	59,600	46,200	33,500
23	30,800	21,300	14,700	8,200	6,530	7,030	8,450	45,200	63,900	59,200	45,300	33,300
24	30,900	21,200	14,600	7,980	6,540	6,920	8,150	46,300	63,600	58,800	44,800	33,100
25	30,900	21,100	14,400	8,070	6,510	7,320	7,810	47,200	63,400	58,400	44,100	33,000
26	30,800	20,700	14,200	8,000	6,510	7,620	7,830	48,300	63,000	58,100	43,500	32,500
27	30,500	20,300	13,900	7,960	6,570	7,650	8,410	49,200	62,600	57,900	42,700	32,100
28	30,200	20,100	13,600	7,870	6,640	7,300	9,700	49,700	62,300	57,500	42,000	31,600
29	29,900	19,900	13,500	7,750	6,770	7,280	11,000	50,400	62,000	57,200	41,300	31,200
30	29,500	19,600	13,400	7,720	---	7,060	11,900	51,200	61,800	56,800	40,500	30,700
31	29,000	---	13,200	7,640	---	6,630	---	52,300	---	56,500	40,100	---
Max	33,300	28,600	19,400	12,900	7,540	8,060	11,900	52,300	64,000	62,000	56,100	39,800
Min	29,000	19,600	13,200	7,640	6,230	6,630	6,110	12,100	53,600	56,500	40,100	30,700
Elevation, in feet, at end of month	4,821.76	4,791.78	4,769.01	4,747.64	4,744.05	4,743.45	7,764.12	4,886.48	4,910.05	4,896.95	4,853.98	4,826.85
Change in contents, in acre-feet	---	-9,400	-6,400	-5,560	-870	-140	+5,270	+40,400	+9,500	-5,300	-16,400	-9,400

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