

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, 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 current year. 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. See schematic diagram of Stanislaus River Basin.

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, 64,200 acre-ft, July 20, gage height, 4,915.62 ft; minimum, 7,640 acre-ft, Apr. 2, gage height, 4,747.65 ft.

**Capacity table (gage height, 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 2005 TO SEPTEMBER 2006
DAILY OBSERVATION AT 2400 HOURS

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	46,300	39,800	34,800	47,900	39,200	26,100	8,040	35,900	59,600	63,900	61,000	57,500
2	45,800	39,400	35,600	49,200	38,800	26,300	7,640	40,100	59,800	64,100	61,100	57,300
3	45,400	39,100	35,500	49,700	38,300	26,300	7,890	44,300	60,100	64,000	61,200	57,100
4	45,100	38,800	35,300	50,000	37,600	26,100	9,560	48,100	60,300	64,000	61,300	56,900
5	44,600	38,600	34,900	50,100	36,900	25,900	10,600	51,700	60,300	64,100	61,500	56,700
6	44,300	38,400	34,600	50,000	36,200	25,800	10,500	55,400	60,500	64,100	61,800	56,500
7	43,900	38,100	34,200	50,200	35,400	25,800	10,500	58,800	60,300	64,000	62,100	56,300
8	43,700	37,800	34,000	50,000	34,600	26,000	10,700	59,700	60,000	64,100	62,200	56,100
9	43,400	37,500	33,700	49,700	33,800	25,500	10,800	59,900	59,800	64,100	62,100	55,800
10	42,900	37,200	33,500	49,300	33,000	24,700	10,600	60,000	59,500	64,100	62,100	55,500
11	42,800	36,800	33,200	49,000	32,200	23,900	10,700	60,300	59,400	64,100	62,000	55,200
12	42,600	36,500	32,700	48,700	31,500	23,000	10,700	60,400	59,400	64,100	61,900	54,800
13	42,400	36,100	32,300	48,500	30,700	22,200	10,800	60,600	59,100	64,100	61,600	54,500
14	42,200	36,200	31,900	48,500	30,000	21,400	11,100	60,600	58,700	64,000	61,500	54,400
15	42,100	36,300	31,400	48,300	29,300	20,700	11,600	60,800	58,800	63,800	61,300	54,200
16	42,000	36,500	30,900	48,000	28,500	19,900	12,100	61,000	59,200	63,700	61,100	54,100
17	41,800	36,600	30,500	47,700	27,700	19,100	12,200	61,200	60,100	63,600	61,000	53,800
18	41,600	36,400	30,400	47,500	27,000	18,200	12,000	61,400	61,200	63,900	60,800	53,400
19	41,400	36,400	30,500	47,300	26,400	17,400	11,900	61,400	61,900	64,100	60,600	53,100
20	41,400	36,200	30,400	46,800	25,600	16,500	12,100	61,000	62,400	64,200	60,400	52,700
21	41,300	36,000	30,200	46,400	24,800	15,600	12,700	60,600	63,000	64,100	60,100	52,400
22	41,300	35,800	32,200	45,800	24,000	14,700	13,600	60,000	63,500	64,000	59,800	52,000
23	41,200	35,500	33,400	45,100	23,300	13,900	14,200	59,500	63,700	63,900	59,500	51,800
24	41,100	35,200	33,600	45,300	22,600	13,100	14,800	59,600	63,800	63,500	59,300	51,600
25	41,100	35,300	33,500	44,700	22,000	12,400	15,800	59,800	63,800	63,100	59,100	51,200
26	41,000	35,100	33,500	43,900	21,300	11,700	17,200	58,700	63,800	62,600	58,900	50,900
27	40,900	34,900	33,400	43,200	22,400	10,900	19,700	59,300	63,700	62,100	58,800	50,400
28	40,800	34,600	34,600	42,400	25,500	10,200	23,100	58,900	64,000	61,500	58,500	50,000
29	40,600	34,400	34,800	41,600	---	9,500	27,100	58,700	64,100	61,200	58,300	49,500
30	40,400	34,300	36,100	40,900	---	8,960	31,400	58,800	63,900	61,200	58,100	49,400
31	40,200	---	46,000	40,100	---	8,530	---	59,200	---	61,000	57,900	---
Max	46,300	39,800	46,000	50,200	39,200	26,300	31,400	61,400	64,100	64,200	62,200	57,500
Min	40,200	34,300	30,200	40,100	21,300	8,530	7,640	35,900	58,700	61,000	57,900	49,400
Elevation, in feet, at end of month	4,854.08	4,837.56	4,869.87	4,854.03	4,811.04	4,751.25	4,829.08	4,903.66	4,915.00	4,908.02	4,900.55	4,879.05
Change in contents, in acre-feet	-6,500	-5,900	+11,700	-5,900	-14,600	-16,970	+22,870	+27,800	+4,700	-2,900	-3,100	-8,500

	Calendar Year 2005	Water Year 2006
Change in contents, in acre-feet	+31,300	+2,700

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