

13115000 MUD LAKE NEAR TERRETON, ID

Upper Snake Basin
Medicine Lodge Subbasin

LOCATION.--Lat 43°53'29", long 112°21'29" referenced to North American Datum of 1983, in NE ¼ NE ¼ SE ¼ sec.32, T.7 N., R.35 E., Jefferson County, ID, Hydrologic Unit 17040215, Rays Lake quad., at mouth of Camas Creek, 4.4 mi northeast of First Owsley pumphouse, and 5.5 mi northeast of Terreton.

DRAINAGE AREA.--1,130 mi², approximately, not including Medicine Lodge Creek.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1921 to current year.

REVISED RECORDS.--WSP 1567: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,774.99 ft above NGVD of 1929. Prior to Oct. 31, 1931, nonrecording gages at or near pumphouse (now used as a supplementary gage) at same datum. Oct. 31, 1931 to Sept. 30, 1954, water-stage recorder at site 2.7 mi southwest and 2 mi north of First Owsley pumphouse at same datum; Oct. 1, 1954 to Sept. 8, 1978, water-stage recorder at site 670 ft north of mouth of Camas Creek at same datum.

COOPERATION.--Water-stage recorder inspected by employees of Water District 31.

REMARKS.--Mud Lake is a perched body of water confined by earth dikes and fed by ground water and surface tributaries augmented by well flows and surface inflow from North Lake. Water for irrigation is diverted from the lake by pumping. Other irrigation diversions are made by various means from adjacent lakes and wells and from Camas Creek above the lake. Area of Mud Lake varies from time to time by changes in dikes. Figures given herein represent contents above gage height -4.0 ft. Capacity table prepared from surveys made by U.S. Geological Survey and adjusted for changes in dikes. Stage at recorder during frequent high winds does not usually represent the mean for the lake. For complete description of Mud Lake region, see WSP 818.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 61,660 acre-ft May 5, 1923, gage height, 9.20 ft, at site then in use; practically no contents Oct. 1 to Nov. 15, 1937, due to diversion of flow from Camas Creek into Camas Creek diversion canal (see Remarks).

EXTREMES FOR CURRENT YEAR.--Maximum daily contents, 35,100 acre-ft May 7; Minimum daily contents, 8,030 acre-ft March 14-16.

Reservoir Gage Height-Capacity Table

Gage height, in ft	Capacity, in acre-ft	Gage height, in ft	Capacity, in acre-ft
1.0	5,460	5.0	20,500
2.0	8,150	6.0	25,700
3.0	11,600	7.0	31,600
4.0	15,800	8.0	37,900

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RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY OBSERVATION AT 2400 HOURS

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	13,600	12,100	10,800	9,480	9,050	e8,530	20,200	34,200	32,600	24,200	24,500	16,600
2	13,200	12,100	10,700	9,450	9,050	e8,470	21,200	34,300	31,600	23,600	24,600	16,600
3	13,100	12,100	10,500	9,280	9,050	e8,430	22,200	34,500	31,000	23,400	24,300	16,400
4	13,000	12,100	10,500	9,250	9,020	e8,400	23,000	34,600	30,400	23,200	24,200	16,200
5	12,700	12,000	10,500	9,250	9,020	e8,370	24,000	34,600	30,000	23,000	24,000	16,000
6	12,700	11,800	10,500	9,250	9,020	e8,340	24,800	34,900	29,700	22,900	23,500	15,700
7	12,600	11,800	10,300	9,250	9,020	e8,310	25,500	35,100	29,500	22,800	23,100	15,600
8	12,400	11,600	10,300	9,220	8,990	e8,280	26,200	34,500	29,500	22,700	22,700	15,500
9	12,200	11,600	10,500	9,220	8,990	e8,240	26,900	34,000	29,500	22,300	22,400	15,500
10	12,300	11,600	10,300	9,180	8,990	e8,210	27,400	33,400	29,600	21,600	22,200	15,300
11	12,100	11,600	10,400	9,150	8,990	e8,180	28,000	33,000	29,500	21,200	22,000	15,100
12	11,900	11,600	10,400	9,080	8,950	e8,120	29,100	32,800	29,300	21,000	22,000	15,000
13	11,900	11,500	10,200	9,120	8,950	e8,060	29,800	32,600	29,000	20,800	21,700	14,900
14	11,900	11,600	10,200	9,350	8,950	e8,030	30,800	32,600	28,700	20,600	21,500	14,700
15	12,000	11,400	10,100	9,450	8,920	8,030	31,600	32,500	28,700	20,800	21,100	14,700
16	12,100	11,400	10,100	9,520	8,920	8,030	32,600	32,500	28,700	20,900	20,900	14,600
17	11,900	11,300	10,100	9,480	8,920	8,150	33,300	32,600	28,700	21,100	20,900	14,600
18	11,900	11,400	10,100	9,480	8,920	8,280	33,800	32,800	28,400	21,200	20,900	14,500
19	12,100	11,300	10,000	9,380	8,890	8,430	33,600	32,800	28,400	21,200	21,100	14,200
20	12,000	11,200	10,000	9,450	8,860	8,920	33,400	33,000	28,100	21,200	21,000	14,000
21	12,300	11,200	10,000	9,450	8,820	9,480	33,200	33,200	27,700	21,300	20,800	13,900
22	12,600	11,100	9,860	9,420	8,790	10,500	33,300	32,900	27,300	21,600	20,500	13,800
23	12,100	11,100	9,790	9,380	8,760	11,400	33,300	32,900	27,000	21,900	20,200	14,100
24	12,000	11,100	9,760	9,350	8,730	12,400	33,400	33,100	26,900	22,000	19,600	14,200
25	12,100	11,000	9,790	9,350	8,730	13,300	33,400	33,300	26,600	22,300	19,000	14,100
26	12,000	11,000	9,660	9,320	e8,690	14,400	33,600	34,000	26,300	22,500	18,800	14,000
27	12,100	10,900	9,660	9,280	e8,690	15,400	33,300	34,300	25,900	22,700	18,400	13,800
28	12,100	10,800	9,660	9,250	e8,660	16,400	33,300	34,400	25,500	23,200	18,000	13,600
29	12,100	10,900	9,480	9,180	e8,600	17,300	33,600	34,100	25,000	23,600	17,700	13,500
30	12,100	10,700	9,480	9,050	---	17,800	34,000	33,800	24,500	24,000	17,200	13,300
31	12,100	---	9,480	9,020	---	19,100	---	33,300	---	24,200	17,100	---
Max	13,600	12,100	10,800	9,520	9,050	19,100	34,000	35,100	32,600	24,200	24,600	16,600
Min	11,900	10,700	9,480	9,020	8,600	8,030	20,200	32,500	24,500	20,600	17,100	13,300
Gage height, in feet, at end of month.	3.11	2.75	2.41	2.27		4.72	7.39	7.27	5.78	5.71	4.28	3.42
Change in contents, in acre-feet.	-1,700	-1,400	-1,220	-460	-420	+10,500	+14,900	-700	-8,800	-300	-7,100	-3,800

	Calendar Year 2011	Water Year 2012
Max	25,500	35,100
Min	8,470	8,030
Change in contents, in acre-feet	-360	-500

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