

**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 mi<sup>2</sup>, 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 contents, 40,800 acre-ft May 2, gage height, 8.43 ft; minimum contents, 11,800 acre-ft Mar. 28, gage height, 3.03 ft.

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 2006 TO SEPTEMBER 2007**  
**DAILY OBSERVATION AT 2400 HOURS**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	23,700	18,400	16,600	14,900	13,300	12,500	12,600	39,500	33,300	33,100	32,200	18,500
2	23,800	18,400	16,500	14,800	13,300	12,500	e12,800	39,700	33,300	33,000	31,700	18,400
3	23,200	18,400	16,400	14,700	13,300	12,500	13,000	39,000	33,300	32,300	31,300	18,200
4	23,100	18,300	16,300	14,700	13,200	12,400	14,100	39,000	33,400	31,800	30,600	e18,200
5	22,900	18,300	16,300	14,700	13,200	12,300	14,700	36,900	33,700	31,700	30,100	18,100
6	22,700	18,200	16,300	14,500	13,100	12,300	15,600	35,200	33,700	31,300	29,700	18,000
7	22,400	e18,100	16,200	14,500	13,100	12,300	16,800	34,300	34,100	31,200	29,300	17,800
8	22,300	18,100	16,200	14,400	13,100	12,200	17,800	e34,200	34,500	30,800	e28,500	17,700
9	22,200	17,900	16,100	14,400	13,100	12,200	19,000	34,000	34,900	30,500	27,900	17,200
10	22,000	17,900	16,000	14,400	13,000	12,200	19,800	33,800	35,900	30,300	27,200	17,300
11	21,900	17,800	15,900	14,300	13,100	12,200	20,800	33,800	36,300	30,200	26,500	17,300
12	21,700	17,700	15,900	14,200	13,100	12,200	21,800	32,900	36,900	29,400	25,700	17,100
13	21,700	17,700	15,900	14,200	13,100	12,300	23,000	32,600	36,800	28,900	25,100	16,800
14	21,600	17,700	15,900	14,200	13,000	12,300	23,900	32,200	36,900	28,500	24,400	16,900
15	21,600	17,600	15,800	14,100	13,000	12,200	24,900	e32,200	37,100	e28,300	23,900	e17,100
16	21,300	17,500	15,800	14,100	12,900	12,200	e26,000	32,300	37,300	e28,300	23,500	17,300
17	20,900	17,500	15,700	14,000	12,900	12,200	26,800	32,100	37,100	28,200	23,000	17,100
18	20,800	17,400	15,500	13,900	12,900	12,100	27,700	32,500	37,700	28,000	22,400	17,100
19	20,700	17,400	15,500	13,900	12,800	12,100	e28,900	32,600	37,500	27,700	e21,900	17,000
20	20,500	17,400	15,400	13,900	12,800	e12,000	e29,900	e32,800	37,100	27,700	21,400	17,300
21	20,300	17,400	15,300	13,800	12,800	12,000	30,800	32,800	37,200	27,800	20,800	17,200
22	20,200	17,200	15,300	13,800	12,700	11,900	32,000	32,800	36,900	28,000	20,400	16,800
23	20,000	e17,100	15,300	13,700	12,700	11,900	32,600	32,900	36,500	28,200	19,800	16,900
24	19,900	17,000	15,200	13,600	12,700	11,900	e34,100	33,100	36,000	28,700	19,500	16,600
25	19,600	16,900	15,200	13,600	12,600	e12,000	35,300	32,800	35,100	29,500	e19,300	16,400
26	19,300	16,800	15,000	13,600	12,600	12,000	36,100	33,300	35,100	30,000	e19,100	16,400
27	19,200	e16,800	15,200	13,600	12,600	12,100	36,900	32,900	34,800	30,200	e19,000	16,300
28	19,000	16,800	15,100	13,500	12,600	e12,100	38,000	33,100	34,100	30,800	18,900	16,400
29	e18,800	16,700	15,000	13,500	---	12,100	38,700	33,400	33,900	31,300	18,800	16,400
30	18,500	16,600	15,000	13,400	---	e12,300	39,600	33,300	33,400	31,600	18,700	16,300
31	18,400	---	14,900	13,400	---	e12,500	---	33,400	---	32,200	18,400	---
<b>Max</b>	23,800	18,400	16,600	14,900	13,300	12,500	39,600	39,700	37,700	33,100	32,200	18,500
<b>Min</b>	18,400	16,600	14,900	13,400	12,600	11,900	12,600	32,100	33,300	27,700	18,400	16,300
<b>Gage height, in feet, at end of month.</b>	4.56	4.18	3.81	3.44	3.24	---	8.25	7.29	7.29	7.10	4.57	4.10
<b>Change in contents, in acre-feet.</b>	-5,100	-1,800	-1,700	-1,500	-300	-100	+27,100	-6,200	0	-1,200	-13,800	-2,100

	Calendar Year 2006	Water Year 2007
<b>Max</b>	27,300	40,800
<b>Min</b>	7,400	11,800
<b>Change in contents, in acre-feet</b>	+5,880	-7,200

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