

Water-Data Report 2009

13087900 MILNER LAKE AT MILNER DAM, ID

Upper Snake Basin
Lake Walcott Subbasin

LOCATION.--Lat 42°31'23", long 114°00'48" referenced to North American Datum of 1983, in SW ¼ NE ¼ SE ¼ sec.29, T.10 S., R.21 E., Twin Falls County, ID, Hydrologic Unit 17040209, Milner quad., near left end of Milner Dam on Snake River at Milner, at mile 639.1.

DRAINAGE AREA.--17,180 mi², approximately, excluding indeterminate nontributary area on Snake River Plain.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1974 to current year. Prior to October 1989, published as "Lake Milner."

GAGE.--Water-stage recorder. Datum of gage is 4,122.51 ft above NGVD of 1929. October 1974 to May 1978, nonrecording gage at same site and datum.

REMARKS.--Station equipment includes satellite telemetry. Reservoir is formed by a concrete gravity dam constructed in 1904 with first diversions in 1905. The dam is primarily a diversion dam. Capacity is a function of the river flow and the lake elevation at the dam. No precise limits on capacity can be set, but computations indicate 50,200 acre-ft of usable storage at a lake gage reading of 11.5 ft and a river flow of 30,000 ft³/s, and 11,200 acre-ft at a lake gage of 1.5 ft and a river flow of 500 ft³/s. The capacity table was revised in 1984 and extended in 2001. Dead storage is 8,000 acre-ft. Water is used for irrigation by canals diverting at the dam and by pumps from the reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 54,500 acre-ft June 25, 1997; maximum gage height, 11.55 ft, Apr. 2, 1999; minimum contents, 10,800 acre-ft Dec. 15, 1988, Mar. 3, 1992; minimum gage height, 1.24 ft, Dec. 26, 1988.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 44,600 acre-ft June 24, 28; maximum gage height, 11.26 ft, June 8; minimum contents, 25,200 acre-ft Oct. 28; minimum gage height, 8.31 ft, Oct. 28, 29.

13087900 MILNER LAKE AT MILNER DAM, ID—Continued

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	35,900	27,300	33,300	34,000	33,600	33,800	33,100	42,100	37,500	43,400	38,000	37,100
2	35,500	28,500	32,100	34,000	33,700	33,200	32,800	42,000	38,200	43,100	38,200	37,300
3	35,400	29,200	33,000	34,100	33,700	33,400	33,200	42,000	38,700	43,300	38,100	37,400
4	35,800	29,100	33,400	33,900	33,600	33,000	33,400	42,300	38,100	43,000	37,700	37,400
5	35,700	30,300	33,400	34,100	33,600	33,300	33,400	41,600	38,000	42,800	37,300	36,900
6	35,600	30,900	33,300	34,100	33,600	33,200	33,600	40,700	38,300	42,300	36,400	36,500
7	35,200	31,400	33,100	33,900	33,500	33,400	34,100	40,300	38,100	40,800	36,100	36,700
8	35,200	32,100	33,100	33,800	33,500	33,300	34,400	41,300	38,100	39,200	36,100	36,900
9	34,600	32,000	33,300	33,900	32,900	32,900	35,200	40,900	37,400	37,900	36,700	36,900
10	35,100	32,100	33,400	33,800	33,500	33,400	35,700	40,800	36,900	37,800	37,200	36,700
11	35,200	32,100	33,500	33,500	33,400	33,300	36,900	40,500	36,200	38,700	36,400	36,400
12	35,300	32,300	33,400	33,600	33,400	33,300	37,500	38,600	36,200	39,700	36,200	36,200
13	34,800	31,500	33,100	33,500	33,400	33,400	37,400	38,400	36,400	39,800	36,600	36,100
14	34,200	33,000	33,800	33,500	33,300	33,300	37,700	38,500	36,700	39,500	36,200	36,200
15	33,000	33,300	33,500	33,600	33,400	33,000	39,100	38,800	37,300	39,200	36,400	36,000
16	32,700	33,300	33,600	33,500	33,300	33,400	42,200	38,900	37,300	38,700	37,000	36,100
17	32,600	33,500	33,700	33,500	33,200	33,400	42,400	39,300	38,800	38,900	37,300	36,100
18	32,700	33,500	33,700	33,500	33,300	33,400	42,400	38,400	39,700	39,500	37,200	36,000
19	32,800	33,700	33,600	33,500	33,400	33,400	42,100	37,200	39,300	39,400	38,000	36,000
20	32,300	32,100	33,600	33,500	33,500	33,200	41,800	37,900	41,000	39,800	37,700	35,600
21	31,100	33,700	33,500	33,500	33,700	32,500	42,000	37,200	41,500	39,600	37,400	36,100
22	30,400	33,200	33,700	33,500	33,600	31,500	41,700	36,700	42,900	39,300	37,300	36,000
23	29,300	33,600	33,700	33,600	33,800	32,900	41,400	36,600	44,500	39,100	38,000	35,700
24	27,700	33,700	33,800	33,600	33,900	33,200	41,300	36,300	44,600	39,100	37,700	35,600
25	26,300	33,600	33,700	33,300	34,000	32,800	40,900	36,400	44,300	38,900	37,600	35,600
26	26,100	33,500	33,600	33,600	33,600	33,500	41,600	36,300	43,700	38,700	37,600	35,500
27	25,600	33,400	33,700	33,600	34,100	33,000	41,500	36,300	44,200	39,000	37,600	35,600
28	25,200	32,200	33,700	33,700	34,200	32,800	41,200	36,400	44,600	39,100	37,200	36,000
29	25,800	32,700	33,700	33,600	---	31,900	40,800	36,500	44,100	38,300	36,900	35,700
30	26,500	33,200	33,800	33,600	---	32,500	41,200	36,700	44,300	37,400	37,000	35,500
31	27,200	---	33,900	33,600	---	31,600	---	36,900	---	37,600	37,500	---
Max	35,900	33,700	33,900	34,100	34,200	33,800	42,400	42,300	44,600	43,400	38,200	37,400
Min	25,200	27,300	32,100	33,300	32,900	31,500	32,800	36,300	36,200	37,400	36,100	35,500
Gage height, in feet, at end of month.	8.92	10.69	10.89	10.79	10.96	10.19	10.79	10.85	11.02	10.88	10.92	10.81
Change in contents, in acre-feet.	-8,900	+6,000	+700	-300	+600	-2,600	+9,600	-43,00	+7,400	-6,700	-100	-2,000

	Calendar Year 2008	Water Year 2009
Max	40,100	44,600
Min	25,200	25,200
Change in contents, in acre-ft	+400	-600

13087900 MILNER LAKE AT MILNER DAM, ID—Continued

