

Water-Data Report 2011

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 daily contents, 47,100 acre-ft May 31; maximum gage height, 11.26 ft, July 11; minimum daily contents, 17,300 acre-ft Nov. 14; minimum gage height, 4.40 ft, Nov. 16.

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RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY OBSERVATION AT 2400 HOURS

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	35,200	19,500	19,900	33,500	34,400	35,100	35,300	43,000	46,200	37,900	40,000	39,000
2	35,300	19,500	20,700	33,500	34,600	35,100	34,500	42,300	46,300	37,900	39,800	39,100
3	35,100	19,500	21,800	33,500	34,600	34,900	35,000	40,400	46,400	37,900	39,900	39,400
4	35,700	19,400	22,600	34,200	34,400	35,100	34,900	39,700	46,200	38,100	40,000	39,600
5	35,900	19,200	23,500	34,400	34,700	34,900	34,400	38,800	46,200	38,100	39,600	39,800
6	35,600	18,800	24,200	35,100	34,600	34,900	35,300	39,900	46,200	39,000	39,200	39,700
7	35,800	18,400	25,200	34,400	33,900	33,300	35,700	41,100	46,700	39,100	39,000	39,500
8	35,700	17,800	25,800	34,400	34,900	34,700	38,700	40,300	46,900	38,600	39,000	39,200
9	35,800	17,700	26,500	34,100	34,400	34,500	38,300	41,200	46,400	40,800	38,600	38,900
10	35,900	17,400	27,300	34,200	34,800	34,100	38,200	42,400	46,800	41,900	38,700	38,900
11	35,600	17,400	28,200	34,700	34,800	34,900	38,000	43,800	46,500	42,300	38,900	38,900
12	35,700	17,500	28,900	34,700	34,600	34,800	38,000	44,500	46,600	42,400	39,500	39,500
13	35,800	17,600	29,600	34,900	35,000	34,800	37,900	44,700	46,300	42,200	39,700	39,200
14	35,400	17,300	30,300	34,900	34,900	34,900	40,300	44,600	44,400	41,800	39,800	39,100
15	34,800	17,900	31,400	34,900	34,900	34,800	39,600	44,200	41,800	40,700	39,600	38,900
16	35,000	18,000	32,500	34,500	34,700	34,300	38,800	45,000	41,100	41,100	39,400	39,500
17	35,000	18,100	32,900	34,700	35,000	35,100	38,100	45,800	41,900	41,300	39,500	39,900
18	34,900	17,800	33,200	35,100	35,100	35,200	38,700	45,400	41,700	41,200	39,400	39,800
19	35,000	18,200	32,500	35,100	34,700	35,400	39,500	46,700	41,200	40,900	39,500	39,500
20	35,100	18,400	33,600	35,200	34,500	34,400	40,700	46,500	41,100	41,000	39,800	39,300
21	35,000	18,100	33,600	34,900	34,800	31,000	39,700	46,100	41,200	40,400	39,700	39,000
22	34,600	18,400	33,400	35,100	34,500	31,800	41,200	46,100	41,400	39,600	39,600	38,900
23	34,000	18,200	33,400	34,800	34,900	32,100	41,900	45,700	42,000	39,800	39,500	39,400
24	32,300	18,200	33,500	35,000	34,900	32,100	41,600	45,400	42,400	39,300	39,300	39,500
25	31,400	18,400	33,300	34,800	34,800	31,800	41,300	45,700	41,200	39,200	39,000	39,300
26	28,400	18,400	33,100	34,900	35,100	31,700	40,100	45,800	41,600	39,300	39,300	39,600
27	26,000	18,500	33,300	34,600	35,100	31,800	42,400	46,200	40,800	39,600	39,100	39,500
28	23,800	18,600	33,500	34,600	35,100	32,100	42,700	46,500	38,800	39,500	39,300	39,400
29	21,900	18,700	32,300	34,500	---	33,800	42,200	46,000	38,800	39,300	39,600	39,300
30	20,200	19,100	33,400	33,600	---	35,000	43,200	46,700	38,600	39,300	39,700	39,100
31	19,500	---	33,500	34,200	---	35,000	---	47,100	---	39,700	39,300	---
Max	35,900	19,500	33,600	35,200	35,100	35,400	43,200	47,100	46,900	42,400	40,000	39,900
Min	19,500	17,300	19,900	33,500	33,900	31,000	34,400	38,800	38,600	37,900	38,600	38,900
Gage height, in feet, at end of month.	5.97---	5.81---	10.76---	10.52---	10.80---	10.63---	11.07---	10.77---	11.05---	11.12---	10.99---	10.96---
Change in contents, in acre-feet.	-15800---	-400---	+14400---	+700---	+900---	-100---	+8200---	+3900---	-8500---	+1100---	-400---	-200---

	Calendar Year 2010	Water Year 2011
Max	39,100	47,100
Min	17,300	17,300
Change in contents, in acre feet	-900	3800

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