

13142000 MAGIC RESERVOIR NEAR RICHFIELD, ID

Upper Snake Basin
Big Wood Subbasin

LOCATION.--Lat 43°15'19", long 114°21'29" referenced to North American Datum of 1983, in SE ¼ NE ¼ NE ¼ sec.18, T.2 S., R.18 E., Blaine County, ID, Hydrologic Unit 17040219, Magic Reservoir East quad., at Magic Dam on Big Wood River, 18 mi northwest of Richfield, and at mile 67.5.

DRAINAGE AREA.--1,611 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--February 1909 to current year. Month-end contents only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1217: Drainage area. WDR-US-2010: Drainage area.

GAGE.--Nonrecording gage. Datum of gage is Idaho Irrigation Co. datum, which is reported to be about 137 ft below NGVD of 1929. Datum of gages prior to Oct. 1, 1942 was 4,000 ft lower. Datum of gages Oct. 1, 1942 to Sept. 30, 1974, was 800 ft higher; Oct. 1, 1974 to Sept. 30, 1988, was 4,000 ft lower.

COOPERATION.--Stage readings and capacity table provided by Water District 37.

REMARKS.--Records fair. Reservoir is formed by earth and rock-fill dam completed in 1909 and raised 5 ft in 1917. Capacity is 191,500 acre-ft between gage heights 4,821.4 ft, 2.9 ft above bottom of outlet pipe, and 4,935.0 ft, top of 5-ft flashboards. Dead storage unknown. Water is used for power generation and irrigation of about 68,000 acres of land in Carey Act project of Big Wood Canal Co. Powerhouse was installed Dec. 1988. Diversions above station for irrigation of about 32,600 acres, of which about 1,900 acres are irrigated by withdrawals from ground water (1966 determination). Figures given herein represent usable contents, including bank storage.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 195,400 acre-ft May 11-13, 1969, elevation, 4,936.0 ft, present datum; no storage for several days in 1909, 1919-20, 1924, 1928, 1935.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 55,300 acre-ft May 1, elevation, 4,884.1 ft; minimum contents observed, 5,500 acre-ft June 29, elevation, 4,844.2 ft.

Reservoir Elevation-Capacity Table

Elevation, in ft	Capacity, in acre-ft	Elevation, in ft	Capacity, in acre-ft
4,840	3,700	4,860	18,400
4,845	6,000	4,870	31,200
4,850	9,200	4,880	47,700
4,855	13,300	4,890	66,800

13142000 MAGIC RESERVOIR NEAR RICHFIELD, ID—Continued

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY OBSERVATION AT 0800 HOURS

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	53,400	54,200	23,500	18,300	23,200	27,500	40,900	55,300	31,800	6,300	11,500	10,100
2	52,500	53,800	21,000	18,600	23,300	28,100	41,400	54,700	30,900	6,500	11,600	10,200
3	51,400	53,200	19,800	18,700	23,500	28,500	42,200	53,800	29,900	6,800	11,700	10,300
4	51,400	52,700	17,600	18,800	23,700	29,100	42,600	52,800	29,100	7,100	11,800	10,300
5	51,500	52,300	15,600	18,900	23,800	29,500	43,100	51,700	28,100	7,300	12,000	10,500
6	51,500	50,300	14,500	19,200	24,100	29,800	44,100	50,400	27,500	7,700	12,100	10,700
7	51,700	48,200	13,500	19,400	24,200	30,100	44,800	49,300	26,900	8,000	12,200	10,900
8	51,700	46,300	12,800	19,400	24,300	30,500	45,600	48,100	26,100	8,200	12,200	11,200
9	51,900	44,100	13,300	19,700	24,500	30,700	46,300	47,200	25,300	8,300	11,300	11,400
10	52,300	43,300	13,500	20,000	24,700	30,900	47,000	45,900	24,600	8,500	10,300	11,600
11	52,500	40,200	13,900	20,100	25,000	31,200	47,700	44,800	24,300	8,600	9,300	11,800
12	52,700	38,400	14,200	20,200	25,000	31,500	48,200	43,800	24,000	8,800	8,300	12,000
13	52,700	36,400	14,500	20,300	25,100	32,000	48,800	43,400	23,600	9,000	8,300	12,200
14	52,800	35,300	14,800	20,400	25,300	32,300	49,500	42,800	23,000	9,200	8,400	12,300
15	52,800	34,600	14,900	20,500	25,500	33,000	50,100	42,400	22,100	9,300	8,500	13,000
16	53,000	34,600	15,200	20,700	25,900	33,500	50,600	42,600	21,400	9,600	8,600	13,500
17	53,200	34,600	15,400	20,900	26,200	33,900	51,400	42,600	20,300	9,700	8,700	13,700
18	53,400	34,600	15,700	21,000	26,200	34,400	51,700	42,400	19,200	9,900	8,800	13,900
19	53,400	34,900	15,900	21,100	26,300	35,000	51,900	42,400	17,900	10,000	9,000	14,100
20	53,600	34,700	16,200	21,300	26,500	35,500	52,500	41,700	16,800	10,100	9,000	14,300
21	53,600	34,900	16,500	21,400	26,600	36,000	52,700	41,200	15,500	10,300	9,100	14,500
22	53,800	34,700	16,700	21,500	26,600	36,400	53,000	40,500	14,300	10,300	9,300	14,700
23	53,800	34,600	16,900	21,600	26,700	37,100	53,200	39,900	13,100	10,400	9,300	14,800
24	54,200	34,600	17,100	21,900	26,900	37,600	53,400	39,000	11,500	10,500	9,400	15,000
25	54,300	34,600	17,300	22,000	27,100	37,900	53,800	38,200	10,100	10,600	9,500	15,100
26	54,500	34,600	17,400	22,200	27,300	38,200	54,000	37,400	8,700	10,700	9,600	15,300
27	54,700	34,600	17,600	22,500	27,400	38,700	54,200	36,600	7,200	10,900	9,700	15,600
28	54,700	32,300	17,700	22,600	27,500	39,200	54,300	35,800	5,800	11,000	9,800	15,800
29	55,100	29,400	17,800	22,700	---	39,700	54,700	34,700	5,500	11,100	9,900	16,000
30	54,900	26,700	18,100	22,800	---	40,000	55,100	33,800	5,900	11,200	9,900	16,400
31	54,700	---	18,200	23,000	---	40,400	---	32,900	---	11,400	10,000	---
Max	55,100	54,200	23,500	23,000	27,500	40,400	55,100	55,300	31,800	11,400	12,200	16,400
Min	51,400	26,700	12,800	18,300	23,200	27,500	40,900	32,900	5,500	6,300	8,300	10,100
Elevation, in feet, at end of month.	4,883.8	4,866.8	4,859.8	4,863.9	4,867.4	4,875.8	4,884.0	4,871.1	4,844.8	4,852.8	4,851.1	4,858.1
Change in contents, in acre-feet.	0	-28,000	-8,500	+4,800	+4,500	+12,900	+14,700	-22,200	-27,000	+5,500	-1,400	+6,400

	Calendar Year 2012	Water Year 2013
Max	191,900	55,300
Min	12,800	5,500
Change in contents, in acre-feet.	-95,500	-38,300

13142000 MAGIC RESERVOIR NEAR RICHFIELD, ID—Continued

