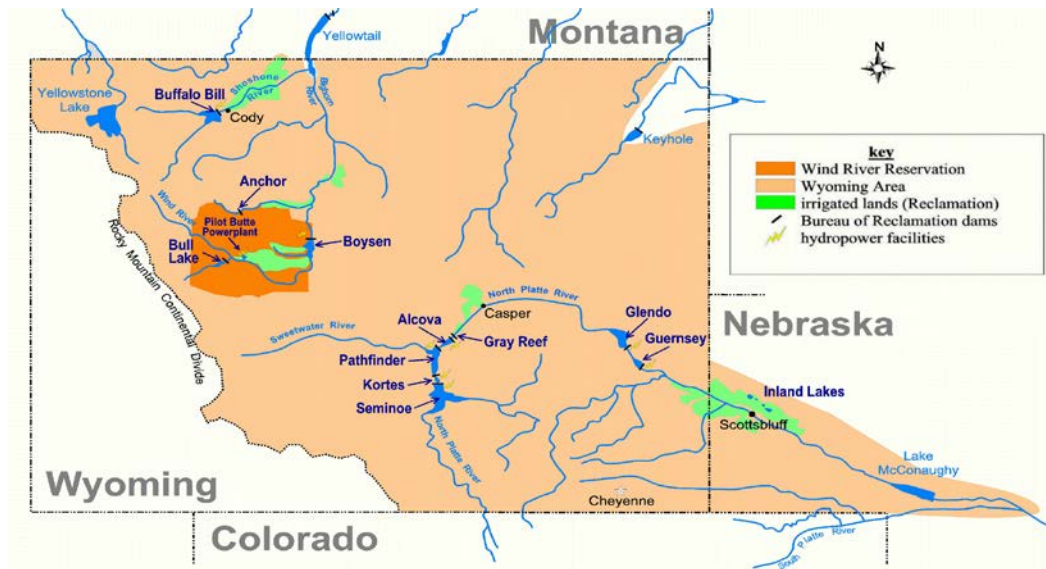


RECLAMATION

Managing Water in the West

Bighorn Basin
Water Supply and Utilization Report
Wyoming Area Office
Report for October 2016



The Wyoming Area Office of the Bureau of Reclamation is responsible for the operation of Reclamation reservoirs in Wyoming east of the Continental Divide except for Keyhole Reservoir. Four off-stream reservoirs in Nebraska commonly referred to as the Inland Lakes also fall within the Wyoming Area. The North Platte River Basin Reservoirs have a combined storage capacity of 2,800,000 acre-feet. The major reservoirs in the Shoshone and Wind/Bighorn Basins have a combined storage capacity of 1,600,000 acre-feet.



United States of America
Department of the Interior
Bureau of Reclamation
Wyoming Area Office
P.O. Box 1630
Mills, Wyoming 82644-1630

**Report for October 2016
WATER SUPPLY AND UTILIZATION REPORT
BIGHORN RIVER BASIN
WYOMING AREA OFFICE**

This report concerns the operation of Reclamation facilities in the Shoshone and Wind/Bighorn River Basins.

Reclamation defines a water year as the time period of October 1 through September 30. Water year is abbreviated in this report as W. Yr.

Other organizations furnished information for the Water Supply and Utilization Report. Their cooperation is greatly appreciated.

This report is available on the Internet and can be accessed by following these steps:

- 1. Log on to the Great Plains Home Page at <http://www.usbr.gov/gp>**
- 2. Select Water Operations.**
- 3. Select Water Management Information.**
- 4. Select Water Supply Report.**
- 5. Under Bighorn Basin, select the current report or reports from the previous 12 months**

BIGHORN RIVER BASIN INFLOW

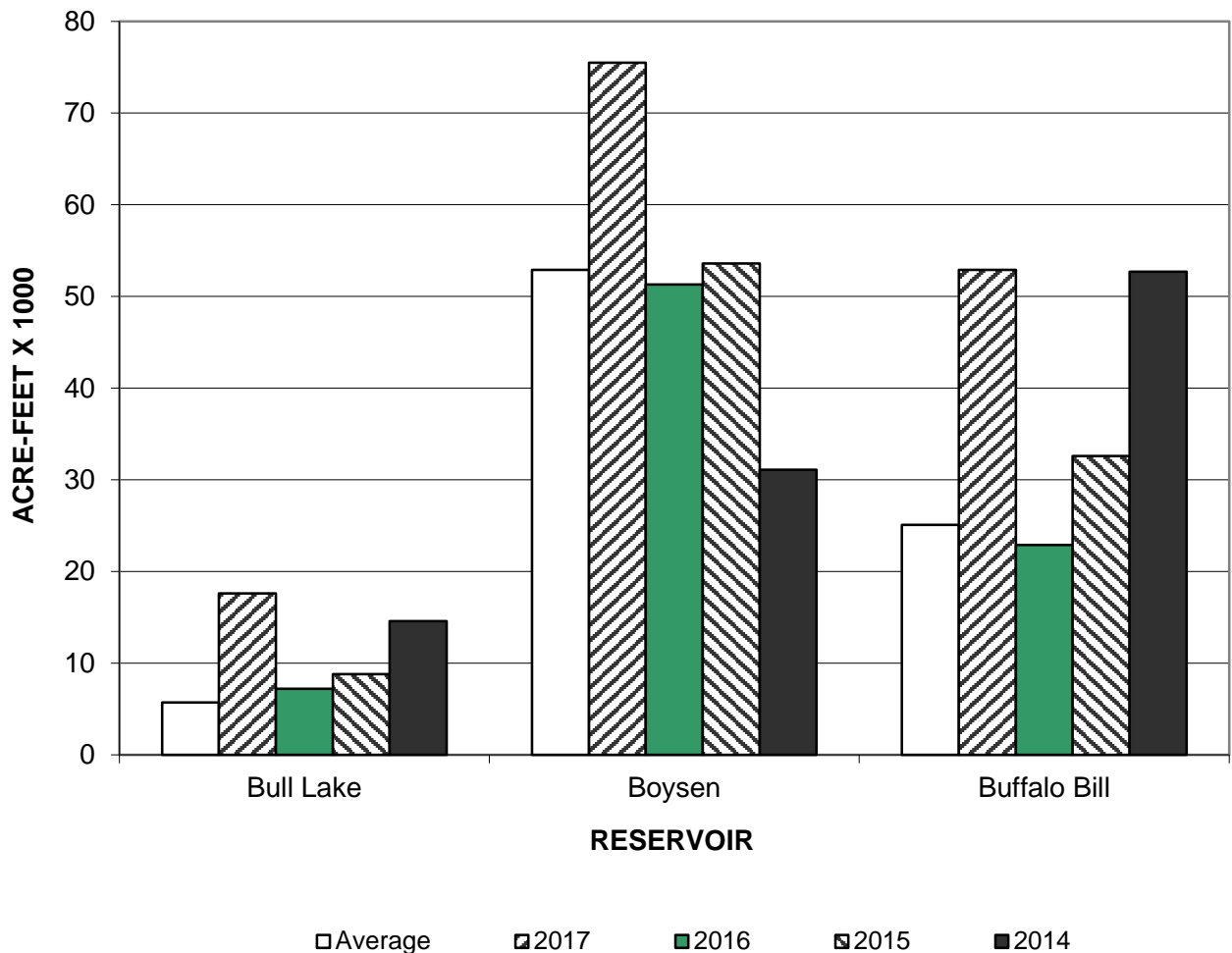
October inflow was above average at Bull Lake, Boysen, and Buffalo Bill Reservoirs.

(1000 acre-feet)

Reservoir	October Inflow			October Historical Inflow			Accumulated Inflow (October)		
	W. Yr. 2017	30 Yr. Avg. ¹	% of Avg.	W. Yr. 2016	W. Yr. 2015	W. Yr. 2014	W. Yr. 2017	30 Yr. Avg.	% of Avg.
Bull Lake	17.6	5.7	309	7.2	8.8	14.6	17.6	5.7	309
Boysen	75.5	52.9	143	51.3	53.6	31.1	75.5	52.9	143
Buffalo Bill	52.9	25.1	211	22.9	32.6	52.7	52.9	25.1	211

¹ Average is based on the 1987-2016 period.

**BIGHORN RIVER BASIN
RESERVOIR INFLOW
October**



BIGHORN RIVER BASIN OUTFLOW

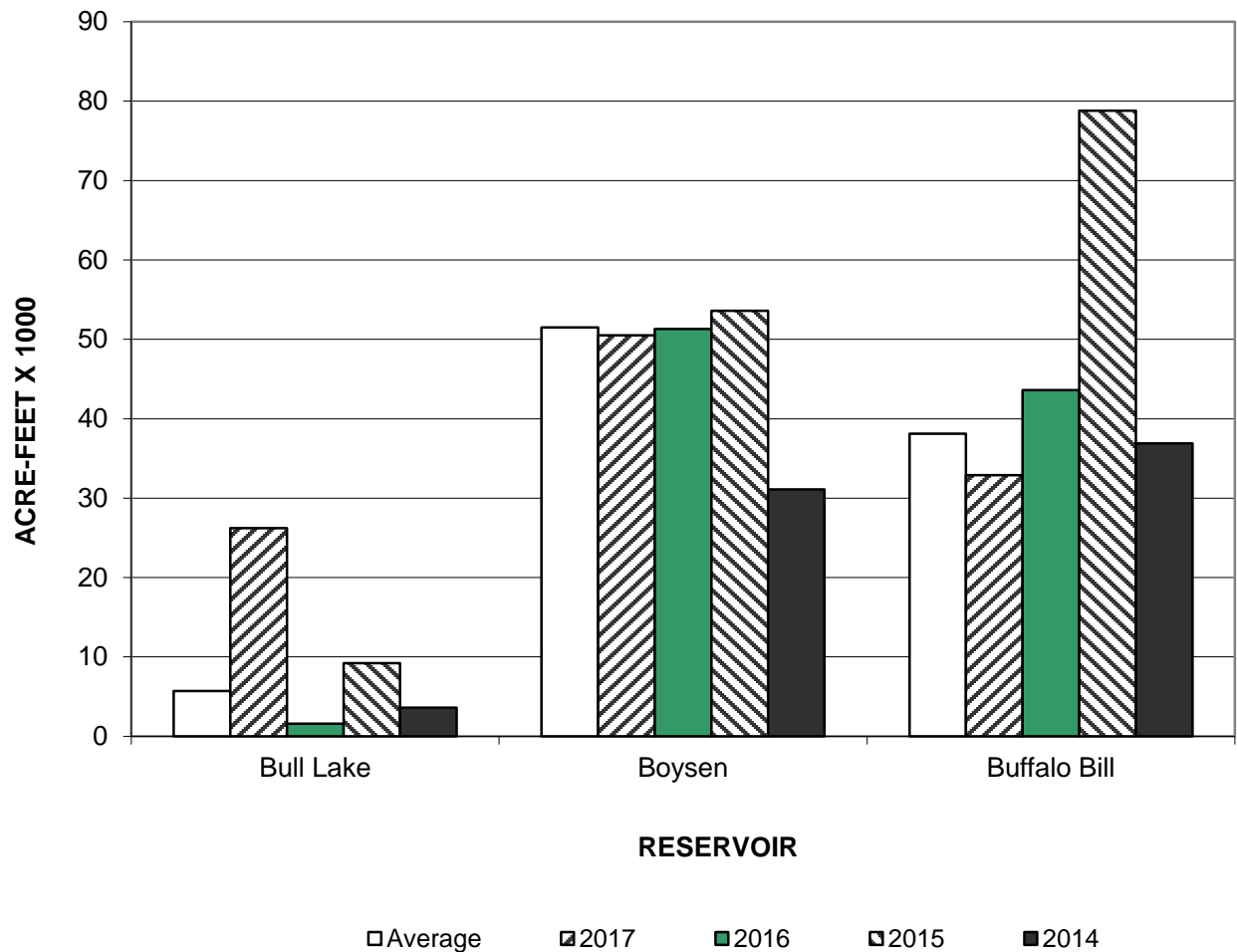
October releases were near or above average at Bull Lake and Boysen Reservoirs. Bull Lake outflow was increased to lower the reservoir for an inspection. The Bull Lake release was stored in Pilot Butte Reservoir.

(1000 acre-feet)

Reservoir	October Outflow			October Historical Outflow			Accumulated Outflow (October)		
	W. Yr. 2017	30 Yr. Avg. ¹	% of Avg.	W. Yr. 2016	W. Yr. 2015	W. Yr. 2014	W. Yr. 2017	30 Yr. Avg.	% of Avg.
Bull Lake	26.2	5.7	460	1.6	9.2	3.6	26.2	5.7	460
Boysen	50.5	51.5	98	51.3	53.6	31.1	50.5	51.5	98
Buffalo Bill	32.9	38.1	86	43.6	78.8	36.9	32.9	38.1	86

¹ Average is based on the 1987-2016 period.

BIGHORN RIVER BASIN RESERVOIR OUTFLOW October



BIGHORN RIVER BASIN STORAGE

Storage at the end of October was above average at Pilot Butte, Boysen, and Buffalo Bill Reservoirs. Bull Lake storage was well below average due to the inspection of the dam.

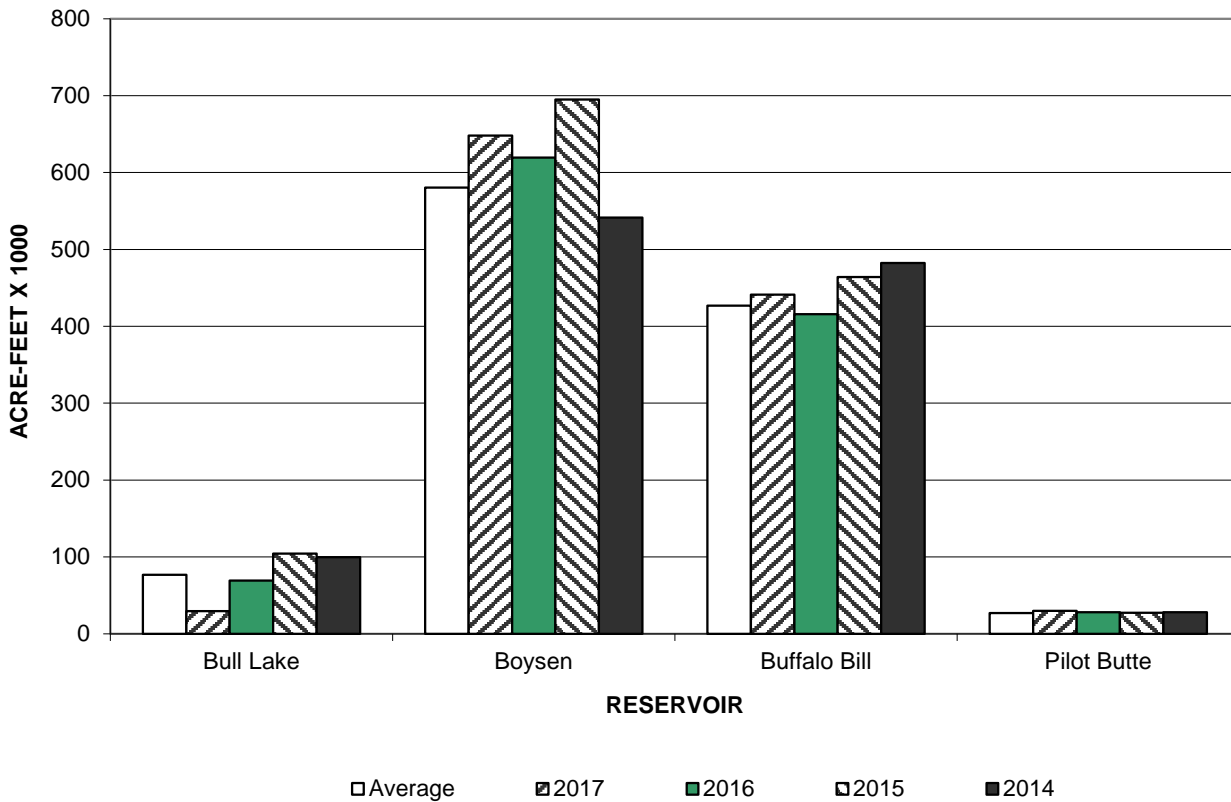
(1000 acre-feet)

Reservoir	Total Storage End of October			End of October Historical Storage			Total Conservation Storage Capacity	Percent of Capacity
	W. Yr. 2017	30 Yr. Avg. ¹	% of Avg.	W. Yr. 2016	W. Yr. 2015	W. Yr. 2014		
Bull Lake	29.7	76.7	39	69.4	104.4	99.8	152.5	19
Boysen	648.2	580.5	112	619.5	695.1	541.6	741.6	87
Buffalo Bill	441.3	426.8 ²	103	415.7	464.0	482.2	646.6	68
Pilot Butte	29.8	27.2	110	28.0	27.3	28.3	33.7	88

¹ Average is based on the 1987-2016 period.

² This does not reflect a long term average because in 1992 the capacity of the reservoir was increased to approximately 646,565 acre-feet as a result of raising the dam. The average used here reflects data from 1993 through 2016.

**BIGHORN RIVER BASIN
RESERVOIR STORAGE
End of October**



BIGHORN RIVER BASIN GENERATION

Generation was above average at Heart Mtn. and Spirit Mtn. Powerplants.

(Energy in giga-watt hours)

Powerplant	October Gross Generation			October Historical Generation			Accumulated Gross Gen. (October)		
	W. Yr. 2017	Avg.	% of Avg.	W. Yr. 2016	W. Yr. 2015	W. Yr. 2014	W. Yr. 2017	Avg.	% of Avg.
Boysen ¹	3.4	3.9	87	4.0	4.5	0.0	3.4	3.9	87
Pilot Butte ²	0.0	0.2	0	0.0	0.0	0.0	0.0	2.0	0
Heart Mtn. ³	1.1	0.9	122	1.3	2.1	0.9	1.1	0.9	122
Buffalo Bill ³	0.1	3.2	3	1.5	10.2	3.3	0.1	3.2	3
Shoshone ³	1.5	1.7	88	1.5	1.6	1.7	1.5	1.7	88
Spirit Mtn. ⁴	1.2	1.0	120	1.6	1.9	0.7	1.2	1.0	120

¹ Average is based on the 1987-2016 period.

² Average is based on the 1990-2016 period. Pilot Butte Powerplant is currently in "mothballed" status and does not generate electricity.

³ Average is based on the 1993-2016 period.

⁴ Average is based on the 1996-2016 period.

**BIGHORN RIVER BASIN
GROSS GENERATION
October**

