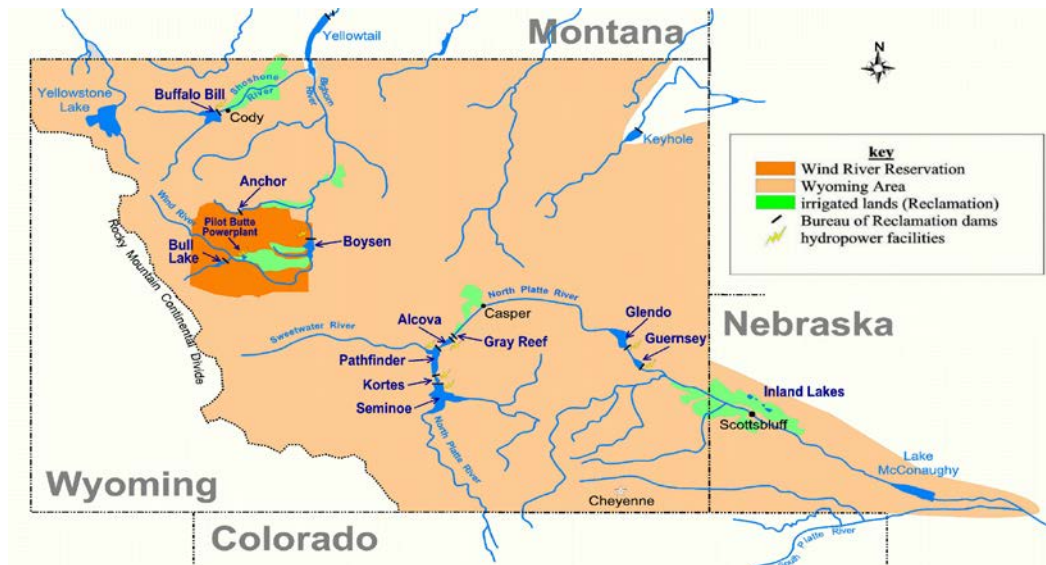


RECLAMATION

Managing Water in the West

Bighorn Basin
Water Supply and Utilization Report
Wyoming Area Office
Report for September 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 September 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

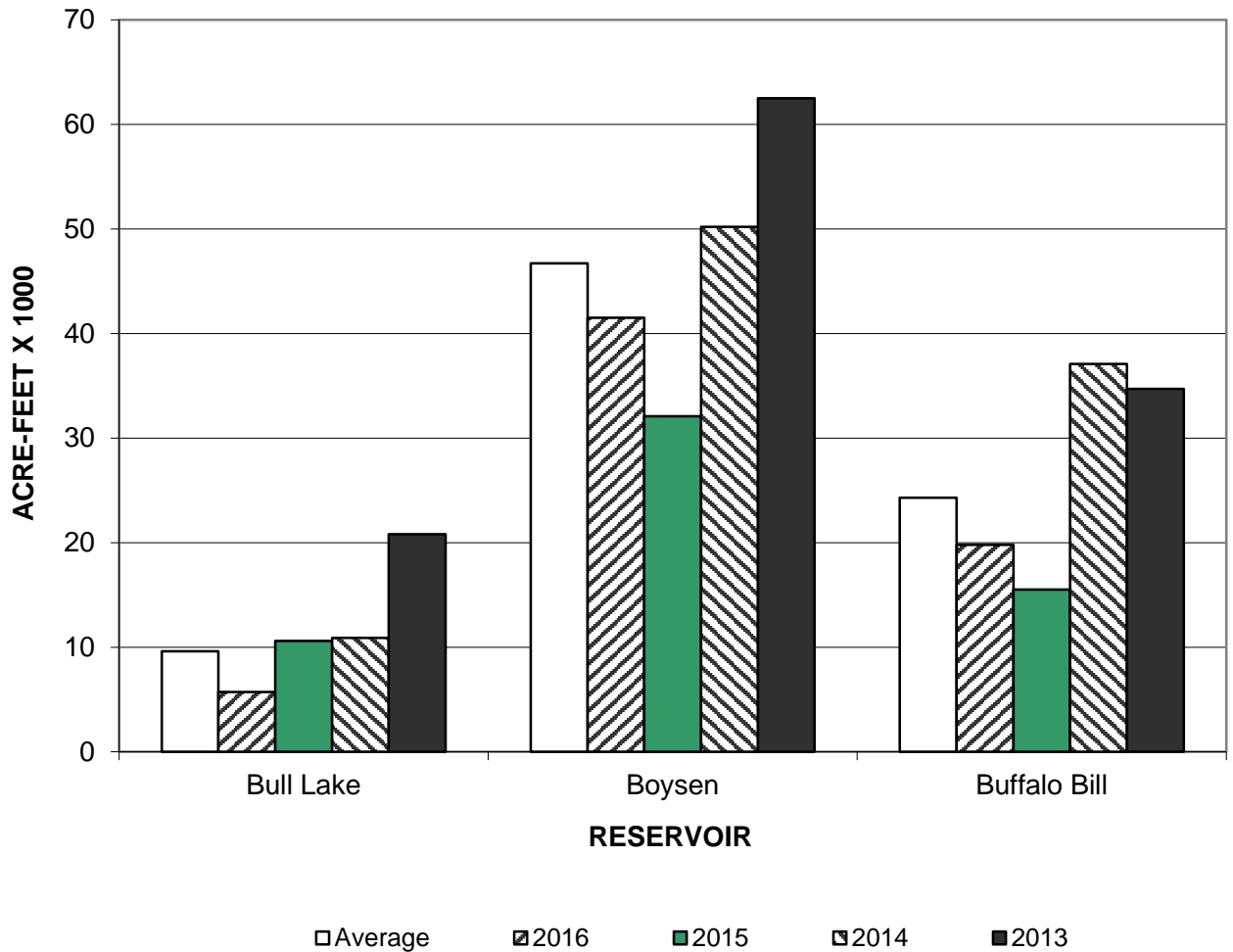
September inflow was below average at Bull Lake, Boysen and Buffalo Bill Reservoirs.

(1000 acre-feet)

Reservoir	September Inflow			September Historical Inflow			Accumulated Inflow (October-September)		
	W. Yr. 2016	30 Yr. Avg. ¹	% of Avg.	W. Yr. 2015	W. Yr. 2014	W. Yr. 2013	W. Yr. 2016	30 Yr. Avg.	% of Avg.
Bull Lake	5.7	9.6	59	10.6	10.9	20.8	176.0	184.1	96
Boysen	41.5	46.7	89	32.1	50.2	62.5	1072.6	908.7	118
Buffalo Bill	19.8	24.3	81	15.5	37.1	34.7	753.3	863.4	87

¹ Average is based on the 1985-2015 period.

**BIGHORN RIVER BASIN
RESERVOIR INFLOW
September**



BIGHORN RIVER BASIN OUTFLOW

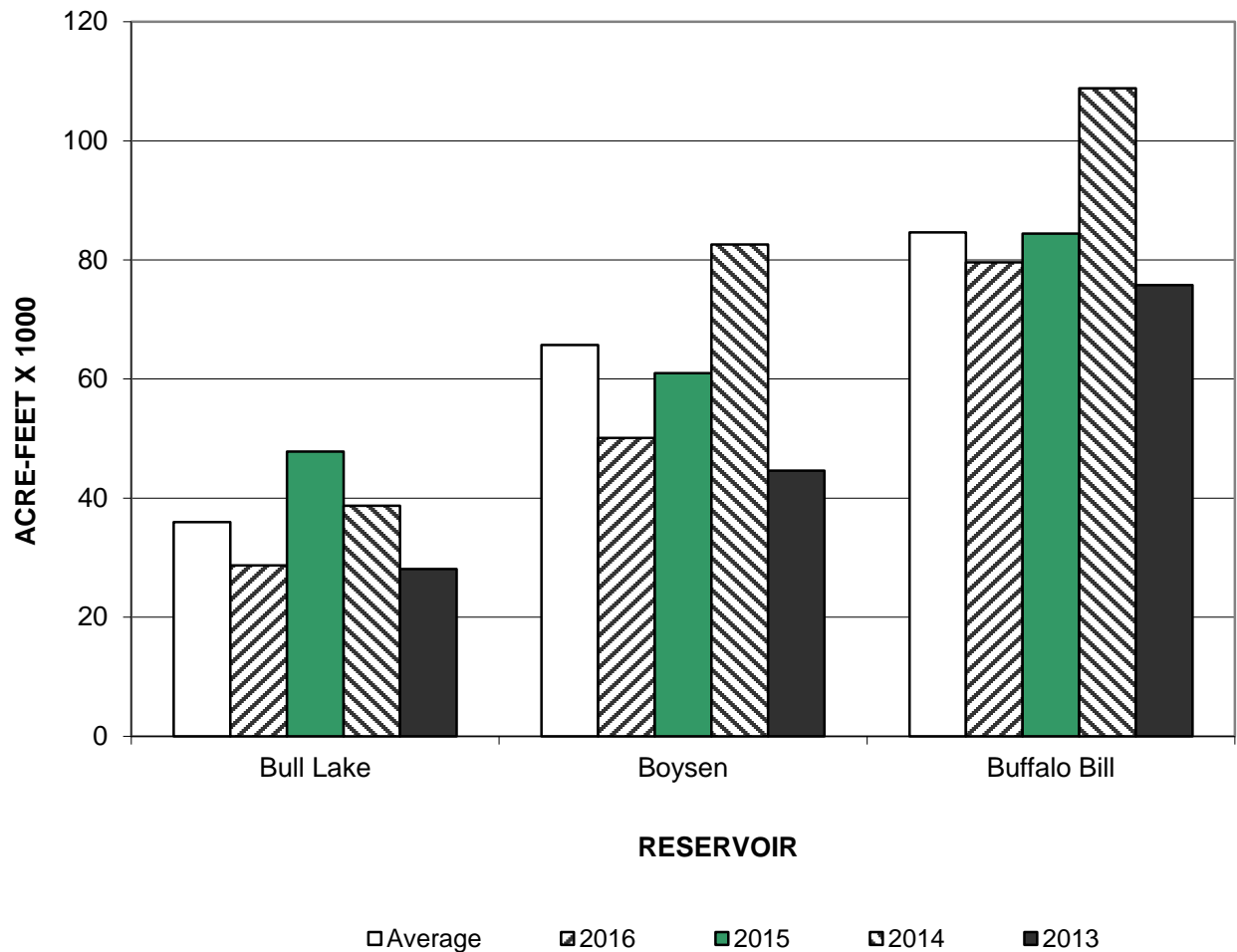
September releases from Bull Lake, Boysen, and Buffalo Bill were below average.

(1000 acre-feet)

Reservoir	September Outflow			September Historical Outflow			Accumulated Outflow (October-September)		
	W. Yr. 2016	30 Yr. Avg. ¹	% of Avg.	W. Yr. 2015	W. Yr. 2014	W. Yr. 2013	W. Yr. 2016	30 Yr. Avg.	% of Avg.
Bull Lake	28.7	36.0	80	47.8	38.7	28.1	201.7	183.2	110
Boysen	50.1	65.7	76	61.0	82.6	44.6	1080.6	906.0	119
Buffalo Bill	79.6	84.6	94	84.4	108.8	75.8	760.3	856.2	89

¹ Average is based on the 1985-2015 period.

**BIGHORN RIVER BASIN
RESERVOIR OUTFLOW
September**



BIGHORN RIVER BASIN STORAGE

Storage at the end of September was below average at all Bighorn Basin Reservoirs except Boysen Reservoir.

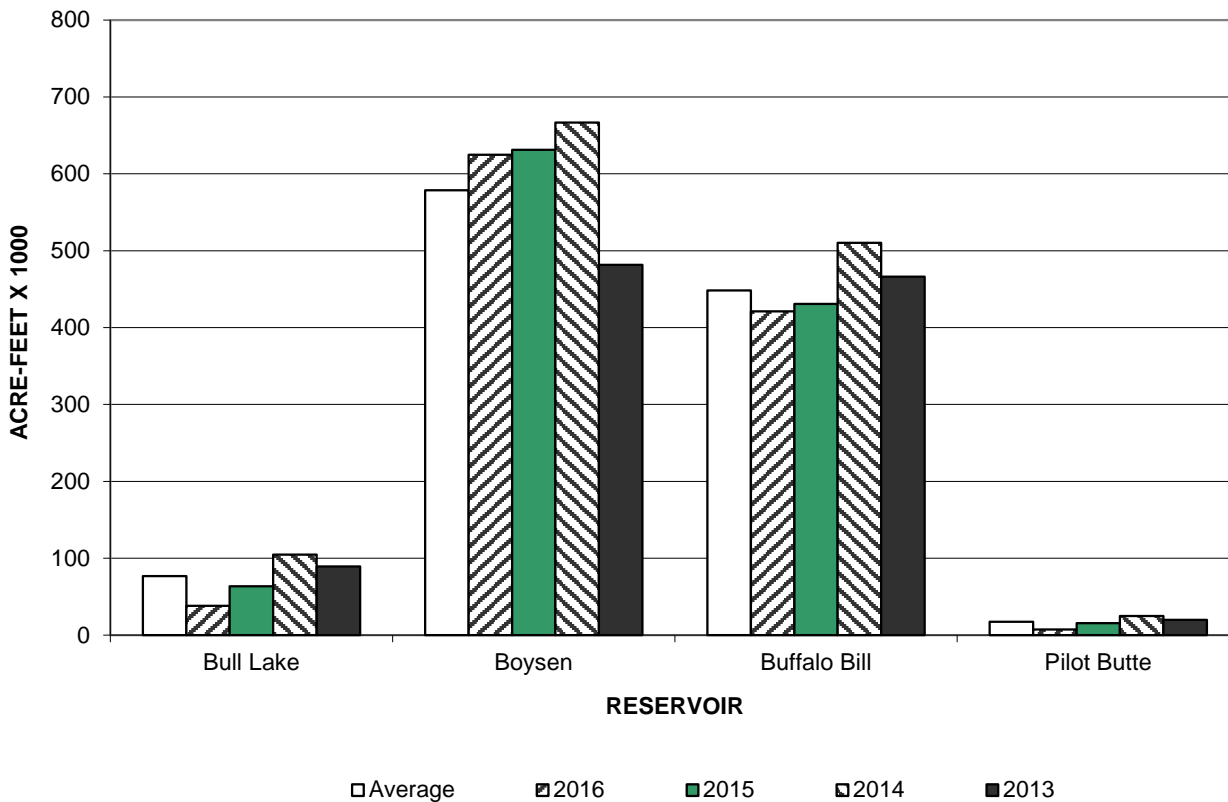
(1000 acre-feet)

Reservoir	Total Storage End of September			End of September Historical Storage			Total Conservation Storage Capacity	Percent of Capacity
	W. Yr. 2016	30 Yr. Avg. ¹	% of Avg.	W. Yr. 2015	W. Yr. 2014	W. Yr. 2013		
Bull Lake	38.3	76.7	50	63.7	104.8	89.2	152.5	25
Boysen	624.9	578.7	108	631.1	666.8	481.5	741.6	84
Buffalo Bill	421.3	448.3 ²	94	430.8	510.2	466.4	646.6	65
Pilot Butte	7.4	17.3	43	15.4	25.0	19.8	33.7	22

¹ Average is based on the 1985-2015 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 2015.

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



BIGHORN RIVER BASIN GENERATION

Generation during September was below average at Boysen, Buffalo Bill, and Shoshone Powerplants.

(Energy in giga-watt hours)

Powerplant	September Gross Generation			September Historical Generation			Accumulated Gross Gen. (October-September)		
	W. Yr. 2016	Avg.	% of Avg.	W. Yr. 2015	W. Yr. 2014	W. Yr. 2013	W. Yr. 2016	Avg.	% of Avg.
Boysen ¹	4.4	5.4	81	4.9	7.2	1.1	67.8	61.1	111
Pilot Butte ²	0.0	0.4	0	0.0	0.0	0.0	0.0	2.3	0
Heart Mtn. ³	3.1	2.7	115	2.8	3.3	3.2	18.2	15.0	121
Buffalo Bill ³	3.3	6.7	49	4.5	12.8	4.0	56.8	68.5	83
Shoshone ³	1.6	1.9	84	1.6	1.7	1.7	17.0	20.5	83
Spirit Mtn. ⁴	2.9	2.9	100	3.2	3.4	3.3	17.3	15.6	111

¹ Average is based on the 1985-2015 period.

² Average is based on the 1990-2015 period. Pilot Butte Powerplant is currently in "mothballed" status and does not generate electricity.

³ Average is based on the 1993-2015 period.

⁴ Average is based on the 1996-2015 period.

BIGHORN RIVER BASIN GROSS GENERATION September

