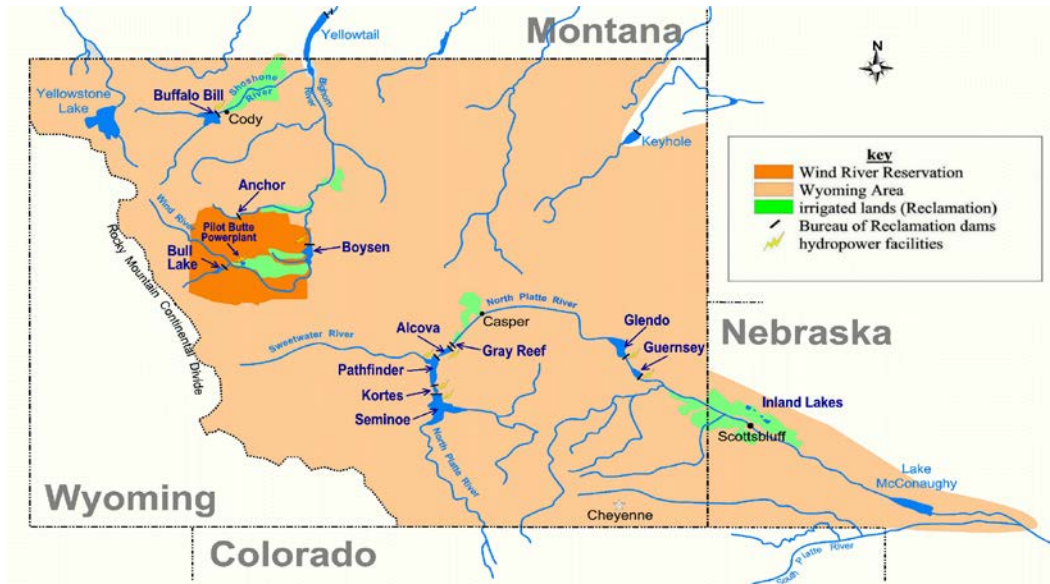


# RECLAMATION

*Managing Water in the West*

Bighorn Basin  
Water Supply and Utilization Report  
Wyoming Area Office  
Report for July 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 July 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**

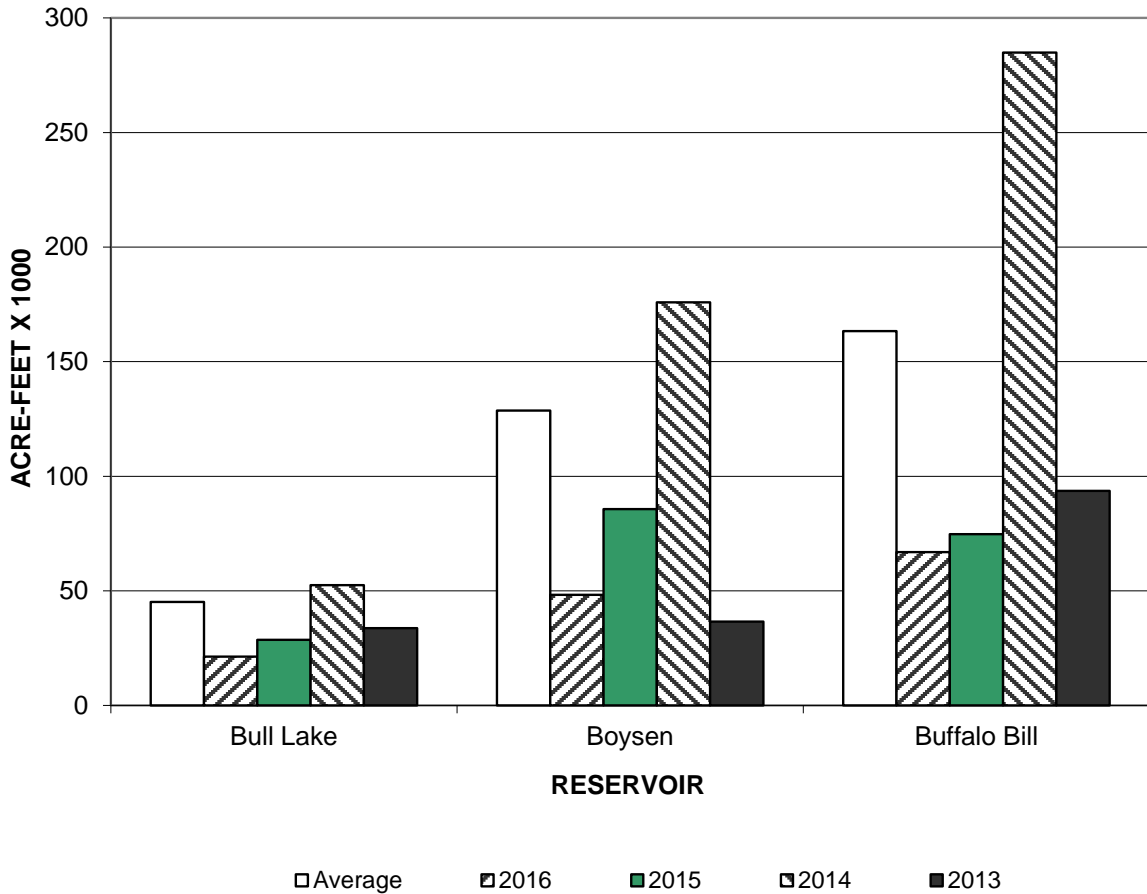
July inflows were below average at Bull Lake, Boysen and Buffalo Bill Reservoirs.

(1000 acre-feet)

Reservoir	July Inflow			July Historical Inflow			Accumulated Inflow (October-July)		
	W. Yr. 2016	30 Yr. Avg. <sup>1</sup>	% of Avg.	W. Yr. 2015	W. Yr. 2014	W. Yr. 2013	W. Yr. 2016	30 Yr. Avg.	% of Avg.
Bull Lake	21.3	45.1	47	28.6	52.5	33.7	161.4	154.9	104
Boysen	48.2	128.6	37	85.7	175.9	36.6	998.1	811.9	123
Buffalo Bill	66.9	163.3	41	74.7	284.9	93.6	709.0	796.2	89

<sup>1</sup> Average is based on the 1986-2015 period.

**BIGHORN RIVER BASIN  
RESERVOIR INFLOW  
July**



## BIGHORN RIVER BASIN OUTFLOW

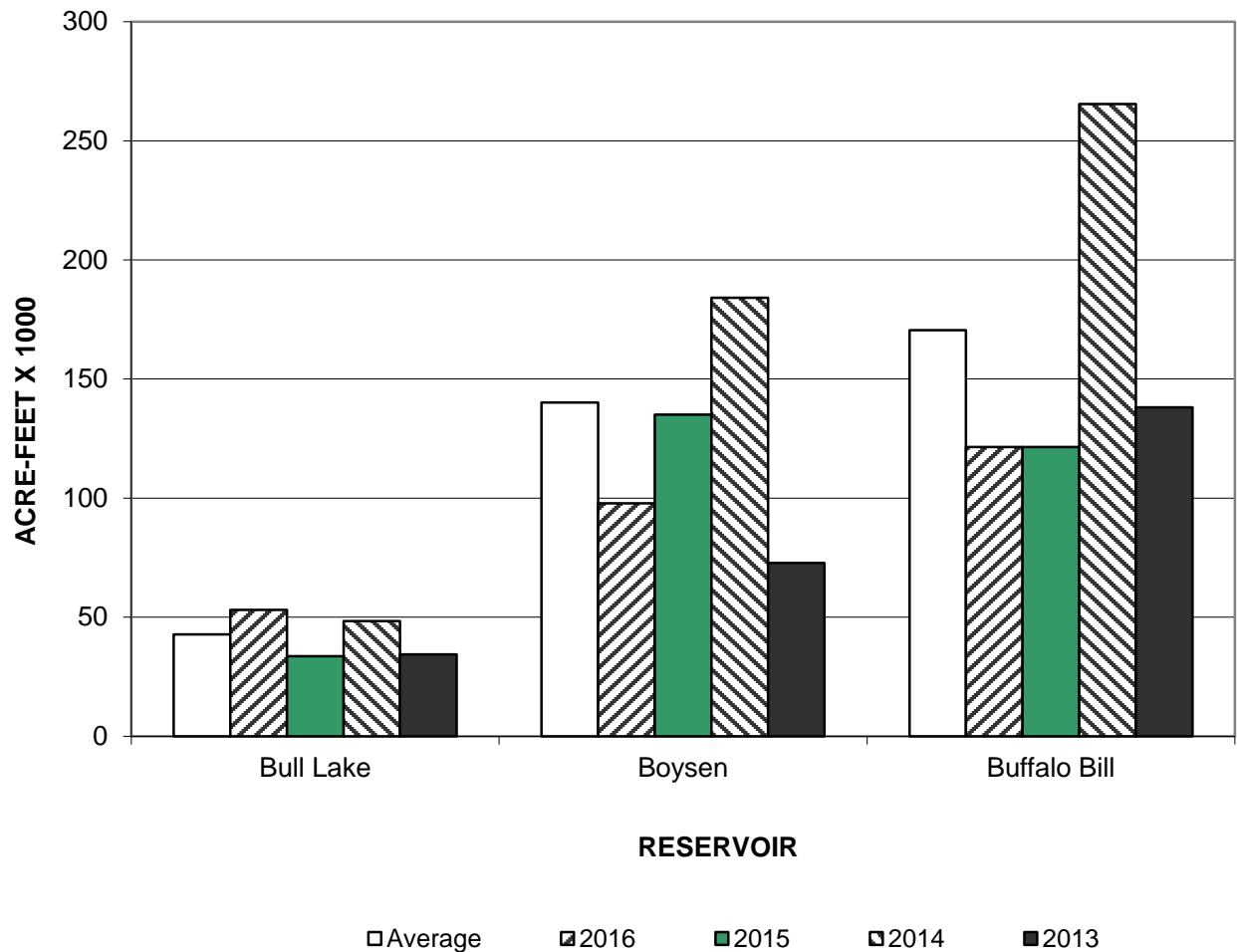
July releases were below average at Boysen and Buffalo Bill Reservoirs, but well above average for Bull Lake Reservoir.

(1000 acre-feet)

Reservoir	July Outflow			July Historical Outflow			Accumulated Outflow (October-July)		
	W. Yr. 2016	30 Yr. Avg. <sup>1</sup>	% of Avg.	W. Yr. 2015	W. Yr. 2014	W. Yr. 2013	W. Yr. 2016	30 Yr. Avg.	% of Avg.
Bull Lake	53.1	42.8	124	33.6	48.4	34.4	107.2	100.0	107
Boysen	97.8	140.2	70	135.0	184.1	72.8	954.8	755.1	126
Buffalo Bill	121.4	170.5	71	121.4	265.4	138.1	566.9	659.1	86

<sup>1</sup> Average is based on the 1986-2015 period.

## BIGHORN RIVER BASIN RESERVOIR OUTFLOW July



**BIGHORN RIVER BASIN STORAGE**

Storage at the end of July was below average for Bull Lake and Pilot Butte Reservoirs, but near or above average for Buffalo Bill and Boysen Reservoirs.

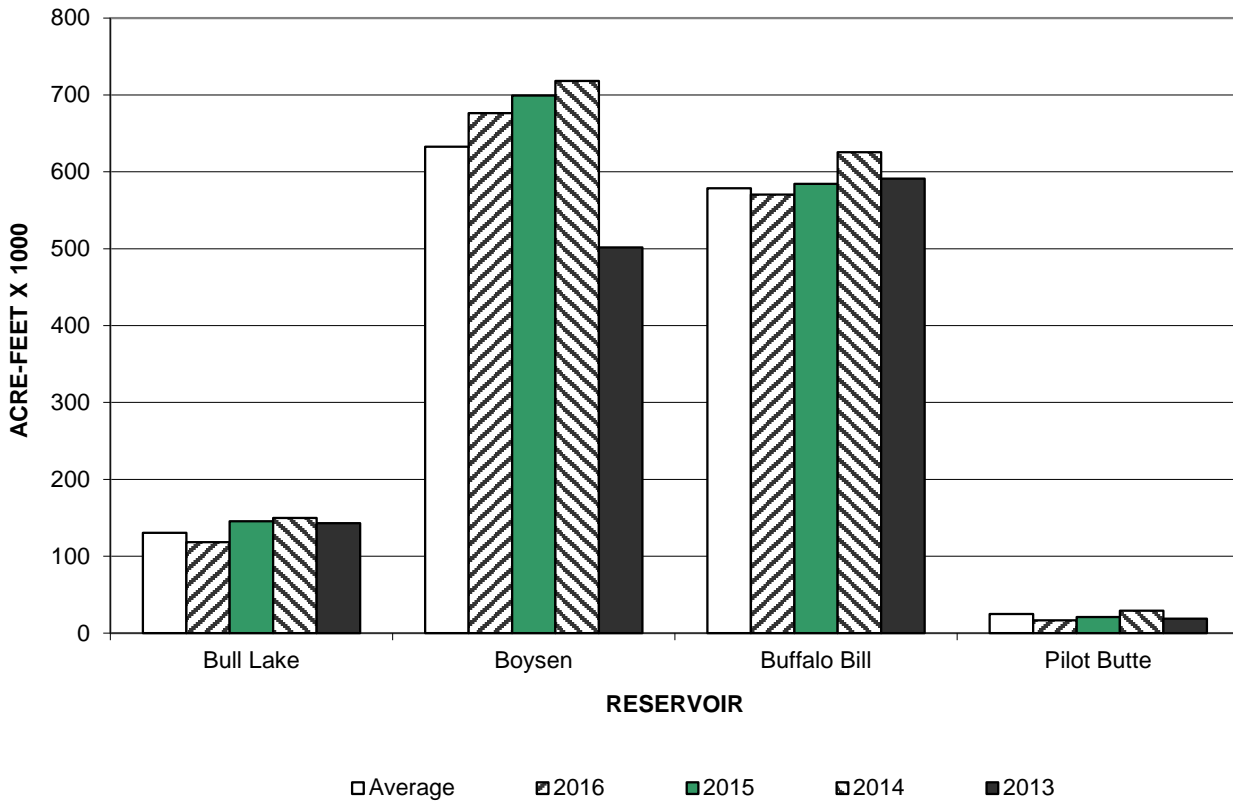
(1000 acre-feet)

Reservoir	Total Storage End of July			End of July Historical Storage			Total Conservation Storage Capacity	Percent of Capacity
	W. Yr. 2016	30 Yr. Avg. <sup>1</sup>	% of Avg.	W. Yr. 2015	W. Yr. 2014	W. Yr. 2013		
Bull Lake	118.1	130.6	90	145.5	149.8	142.9	152.5	77
Boysen	676.2	632.7	107	699.4	718.2	501.6	741.6	91
Buffalo Bill	570.4	578.5 <sup>2</sup>	99	584.4	625.6	591.0	646.6	88
Pilot Butte	16.7	24.7	67	21.1	29.3	18.9	33.7	49

<sup>1</sup> Average is based on the 1986-2015 period.

<sup>2</sup> 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 July**



## BIGHORN RIVER BASIN GENERATION

Generation during July was above average at Boysen, Heart Mtn., and Spirit Mtn. Powerplants.

(Energy in giga-watt hours)

Powerplant	July Gross Generation			July Historical Generation			Accumulated Gross Gen. (October-July)		
	W. Yr. 2016	Avg.	% of Avg.	W. Yr. 2015	W. Yr. 2014	W. Yr. 2013	W. Yr. 2016	Avg.	% of Avg.
Boysen <sup>1</sup>	8.6	7.5	115	9.3	9.9	5.9	57.0	48.9	117
Pilot Butte <sup>2</sup>	0.0	0.6	0	0.0	0.0	0.0	0.0	1.3	0
Heart Mtn. <sup>3</sup>	3.2	2.9	110	3.1	3.1	3.2	12.0	9.4	128
Buffalo Bill <sup>3</sup>	10.0	11.7	85	10.9	12.9	11.0	45.3	52.1	87
Shoshone <sup>3</sup>	2.0	2.1	95	2.0	1.9	2.1	13.6	16.5	82
Spirit Mtn. <sup>4</sup>	3.3	3.2	103	3.4	3.4	3.4	11.3	9.5	119

<sup>1</sup> Average is based on the 1986-2015 period.

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

<sup>3</sup> Average is based on the 1993-2015 period.

<sup>4</sup> Average is based on the 1996-2015 period.

### BIGHORN RIVER BASIN GROSS GENERATION July

