

**December 1, 2007**  
**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 Current Month or reports from the previous 12 months**

**BIGHORN RIVER BASIN INFLOW**

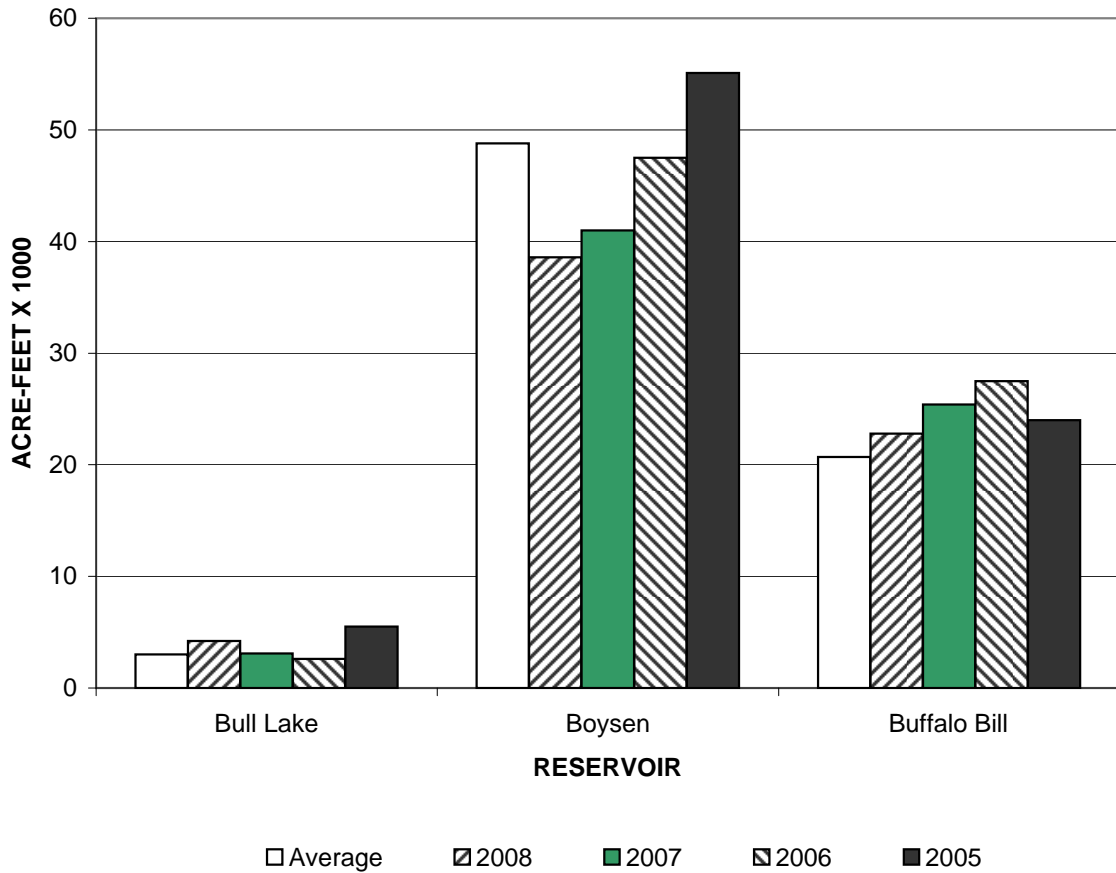
November inflow was above average at Bull Lake and Buffalo Bill Reservoirs.

(1000 acre-feet)

Reservoir	November Inflow			November Historical Inflow			Accumulated Inflow (October-November)		
	W. Yr. 2008	30 Yr. Avg. <sup>1</sup>	% of Avg.	W. Yr. 2007	W. Yr. 2006	W. Yr. 2005	W. Yr. 2008	30 Yr. Avg. <sup>1</sup>	% of Avg.
Bull Lake	4.2	3.0	140	3.1	2.6	5.5	11.9	8.3	143
Boysen	38.6	48.8	79	41.0	47.5	55.1	71.6	108.9	66
Buffalo Bill	22.8	20.7	110	25.4	27.5	24.0	62.6	45.0	139

<sup>1</sup> Average is based on the 1978-2007 period.

**BIGHORN RIVER BASIN  
RESERVOIR INFLOW  
November**



## BIGHORN RIVER BASIN OUTFLOW

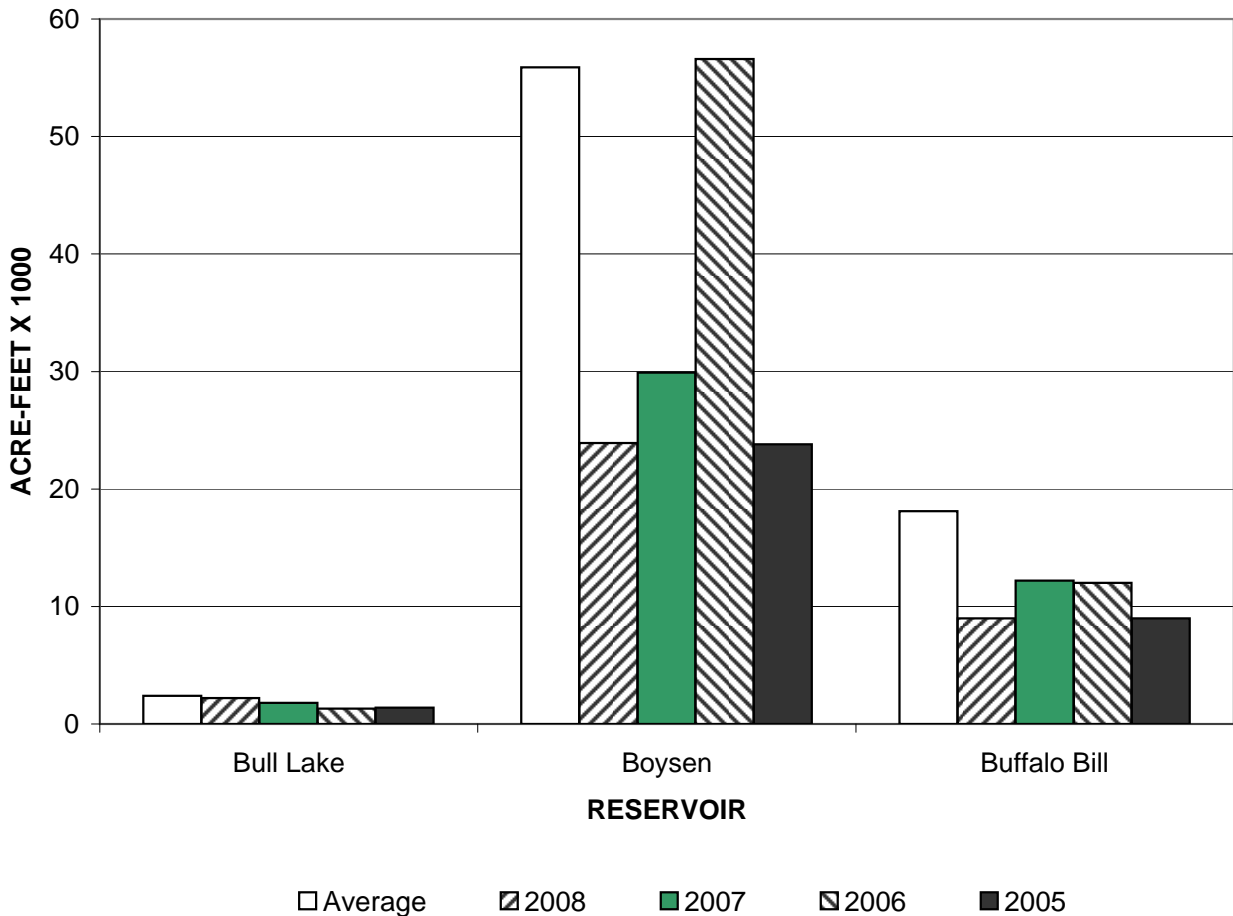
Releases from Bull Lake, Boysen, and Buffalo Bill Reservoirs were below average during November.

(1000 acre-feet)

Reservoir	November Outflow			November Historical Outflow			Accumulated Outflow (October-November)		
	W. Yr. 2008	30 Yr. Avg. <sup>1</sup>	% of Avg.	W. Yr. 2007	W. Yr. 2006	W. Yr. 2005	W. Yr. 2008	30 Yr. Avg. <sup>1</sup>	% of Avg.
Bull Lake	2.2	2.4	92	1.8	1.3	1.4	4.3	9.0	48
Boysen	23.9	55.9	43	29.9	56.6	23.8	48.7	119.0	41
Buffalo Bill	9.0	18.1	50	12.2	12.0	9.0	42.2	52.7	80

<sup>1</sup> Average is based on the 1978-2007 period.

### BIGHORN RIVER BASIN RESERVOIR OUTFLOW November



## BIGHORN RIVER BASIN STORAGE

Storage at the end of November was above average at Buffalo Bill and Pilot Butte Reservoirs.

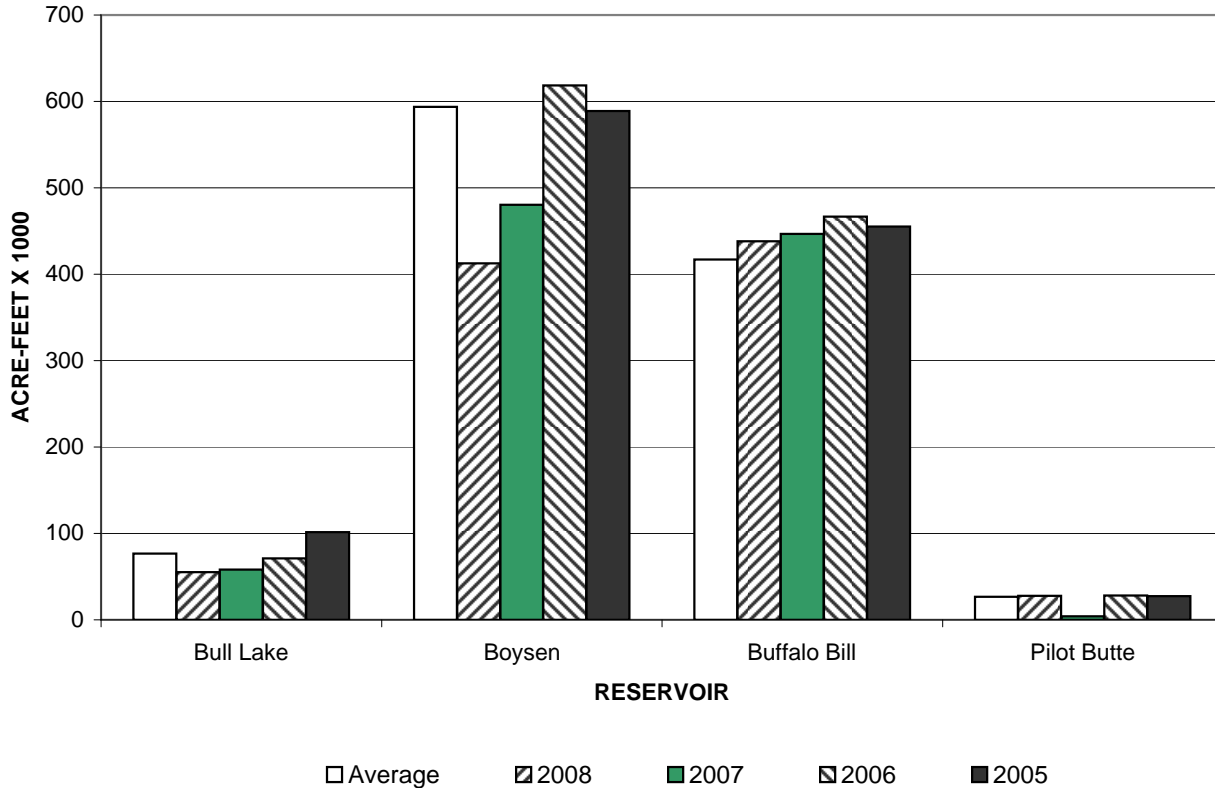
(1000 acre-feet)

Reservoir	Total Storage End of November			End of November Historical Storage			Total Conservation Storage Capacity	Percent of Capacity
	W. Yr. 2008	30 Yr. Avg. <sup>1</sup>	% of Avg.	W. Yr. 2007	W. Yr. 2006	W. Yr. 2005		
Bull Lake	55.3	76.5	72	58.2	71.2	101.5	152.5	36
Boysen	412.6	593.6	70	480.2	618.4	589.0	741.6	56
Buffalo Bill	438.2	417.2 <sup>2</sup>	105	446.7	466.8	455.1	646.6	68
Pilot Butte	27.6	26.5	104	3.9	28.3	27.5	33.7	82

<sup>1</sup> Average is based on the 1978-2007 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 2007.

## BIGHORN RIVER BASIN RESERVOIR STORAGE End of November



## BIGHORN RIVER BASIN GENERATION

Boysen and Shoshone Powerplants were the only Powerplants that generated electricity during November. Shoshone Powerplant generation was above average.

(Energy in giga-watt hours)

Powerplant	November Gross Generation			November Historical Generation			Accumulated Gross Gen. (October-November)		
	W. Yr. 2008	Avg.	% of Avg.	W. Yr. 2007	W. Yr. 2006	W. Yr. 2005	W. Yr. 2008	Avg.	% of Avg.
Boysen <sup>1</sup>	1.6	4.7	34	2.1	5.0	1.6	2.9	9.7	30
Pilot Butte <sup>2</sup>	0.0	0.0	0	0.0	0.0	0.0	0.7	0.2	350
Heart Mtn. <sup>3</sup>	0.0	0.1	0	0.0	0.0	0.0	0.9	0.8	113
Buffalo Bill <sup>3</sup>	0.0	1.6	0	0.0	0.5	0.0	1.1	4.0	28
Shoshone <sup>3</sup>	1.7	1.5	113	1.8	1.4	1.1	3.3	3.2	103
Spirit Mtn. <sup>4</sup>	0.0	0.0	0	0.0	0.0	0.0	1.0	0.9	111

<sup>1</sup> Average is based on the 1978-2007 period.

<sup>2</sup> Average is based on the 1990-2007 period.

<sup>3</sup> Average is based on the 1993-2007 period.

<sup>4</sup> Average is based on the 1995-2007 period.

## BIGHORN RIVER BASIN GROSS GENERATION November

