

**November 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

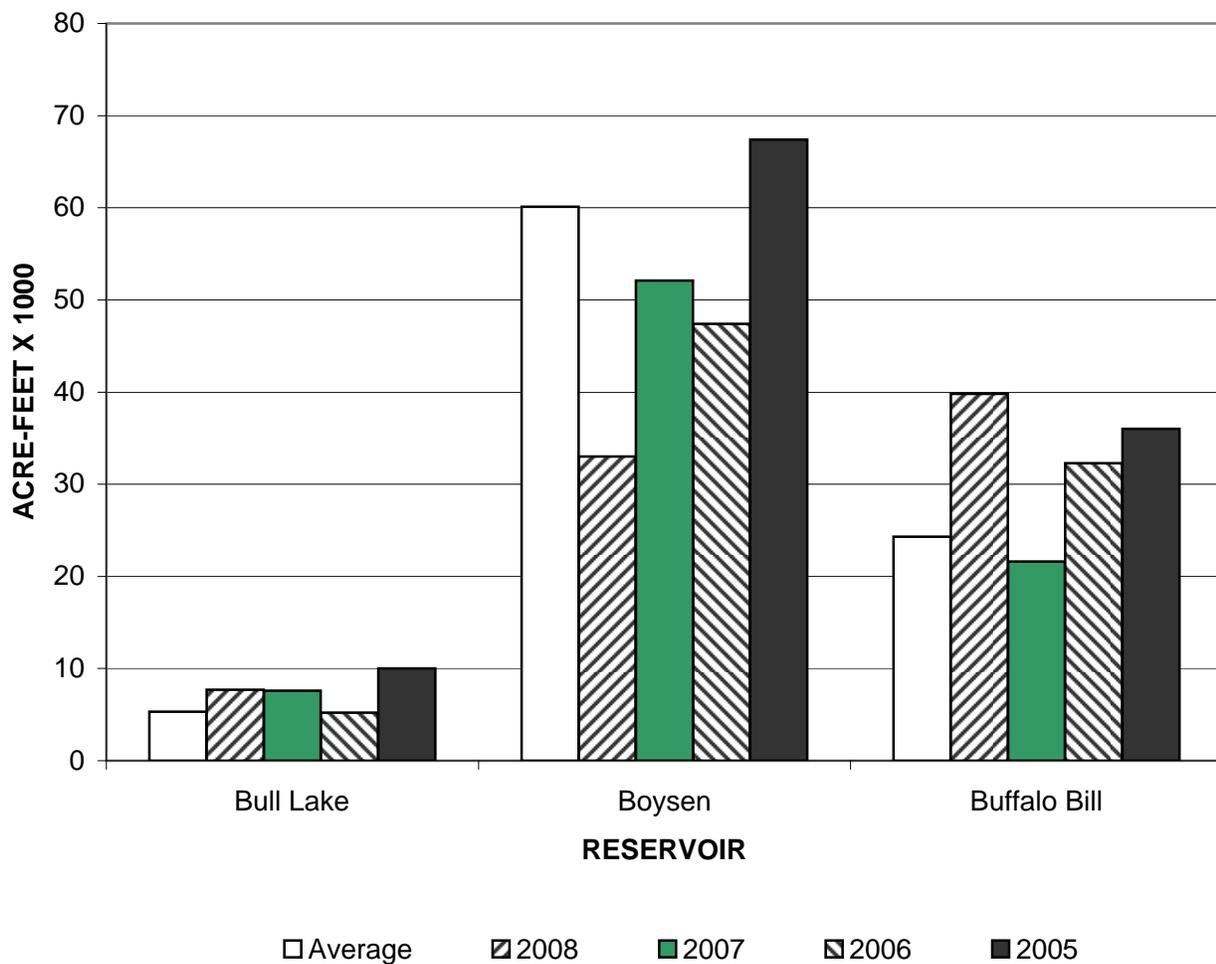
October inflow was above average at Bull Lake and Buffalo Bill Reservoirs.

(1000 acre-feet)

Reservoir	October Inflow			October Historical Inflow			Accumulated Inflow (October)		
	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	7.7	5.3	145	7.6	5.2	10.0	7.7	5.3	145
Boysen	33.0	60.1	55	52.1	47.4	67.4	33.0	60.1	55
Buffalo Bill	39.8	24.3	164	21.6	32.3	36.0	39.8	24.3	164

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

## BIGHORN RIVER BASIN RESERVOIR INFLOW October



## BIGHORN RIVER BASIN OUTFLOW

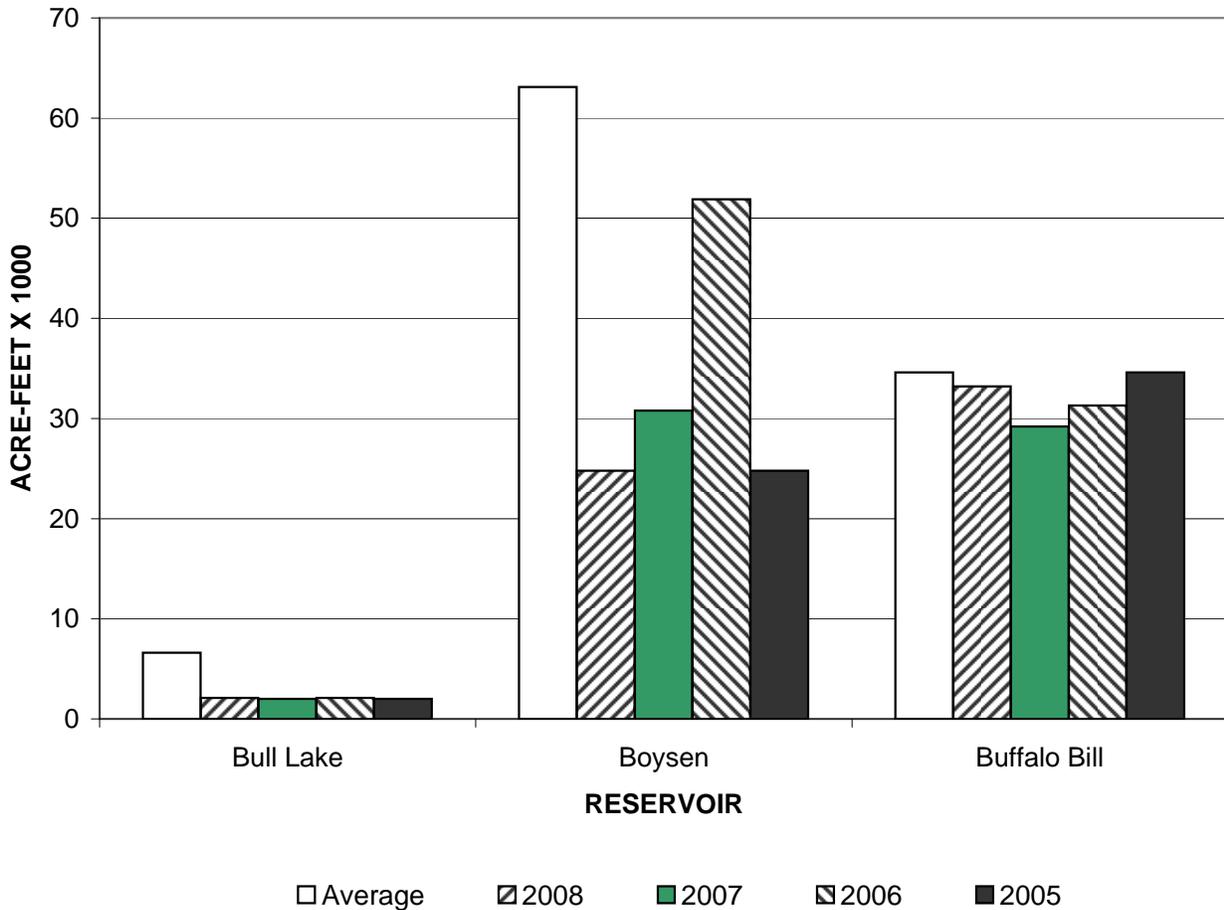
Releases from Bull Lake, Boysen, and Buffalo Bill Reservoirs were below average during October.

(1000 acre-feet)

Reservoir	October Outflow			October Historical Outflow			Accumulated Outflow (October)		
	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	2.1	6.6	32	2.0	2.1	2.0	2.1	6.6	32
Boysen	24.8	63.1	39	30.8	51.9	24.8	24.8	63.1	39
Buffalo Bill	33.2	34.6	96	29.2	31.3	34.6	33.2	34.6	96

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

## BIGHORN RIVER BASIN RESERVOIR OUTFLOW October



### BIGHORN RIVER BASIN STORAGE

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

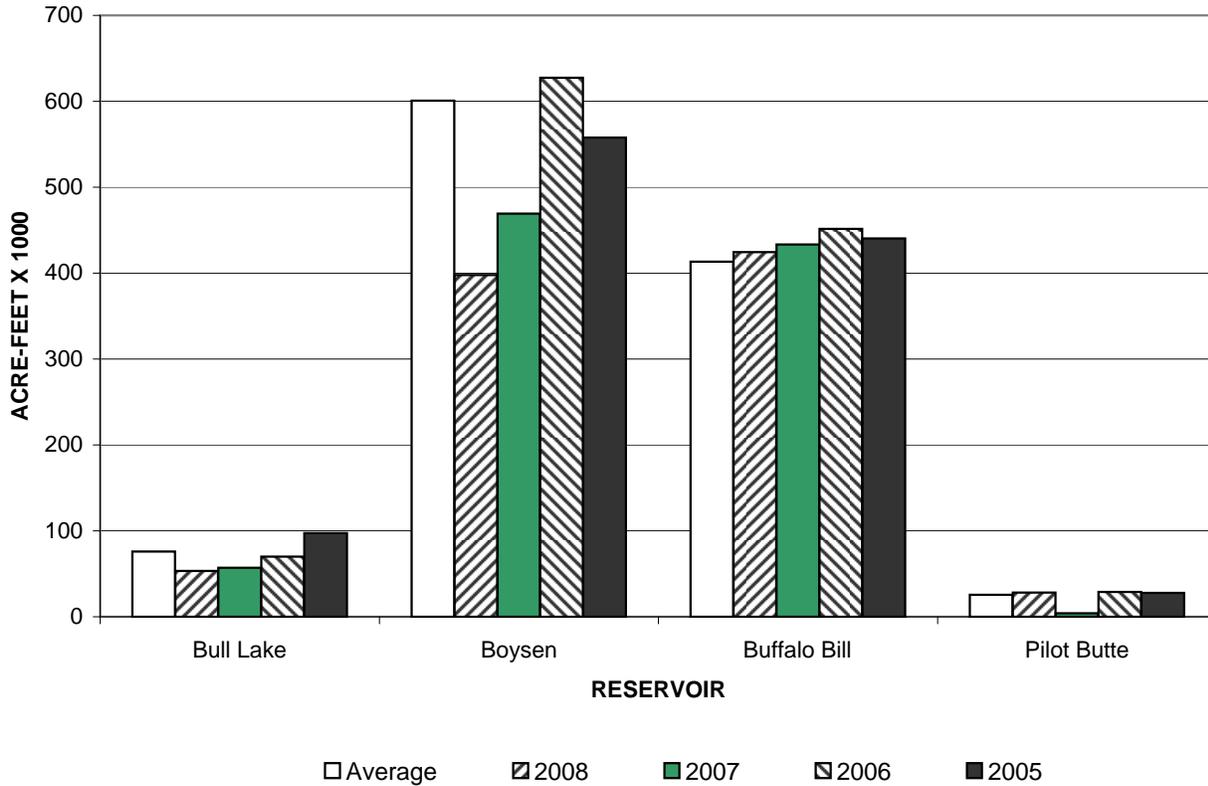
(1000 acre-feet)

Reservoir	Total Storage End of October			End of October 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	53.3	76.0	70	56.9	69.9	97.5	152.5	35
Boysen	397.9	600.6	66	469.1	627.5	557.7	741.6	54
Buffalo Bill	424.4	413.4 <sup>2</sup>	103	433.5	451.3	440.2	646.6	66
Pilot Butte	28.0	25.4	110	4.0	28.8	27.8	33.7	83

<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 October



**BIGHORN RIVER BASIN GENERATION**

Generation was above average at Pilot Butte, Heart Mountain, and Spirit Mountain Powerplants.

(Energy in giga-watt hours)

Powerplant	October Gross Generation			October Historical Generation			Accumulated Gross Gen. (October)		
	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>	1.3	5.0	26	2.1	4.3	1.3	1.3	5.0	26
Pilot Butte <sup>2</sup>	0.7	0.2	350	0.0	0.4	0.3	0.7	0.2	350
Heart Mtn. <sup>3</sup>	0.9	0.7	129	0.9	0.0	0.3	0.9	0.7	129
Buffalo Bill <sup>3</sup>	1.1	2.4	46	0.8	1.9	1.3	1.1	2.4	46
Shoshone <sup>3</sup>	1.6	1.7	94	1.9	1.8	1.8	1.6	1.7	94
Spirit Mtn. <sup>4</sup>	1.0	0.9	111	1.1	0.0	1.3	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  
October**

