

**August 1, 2008**  
**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

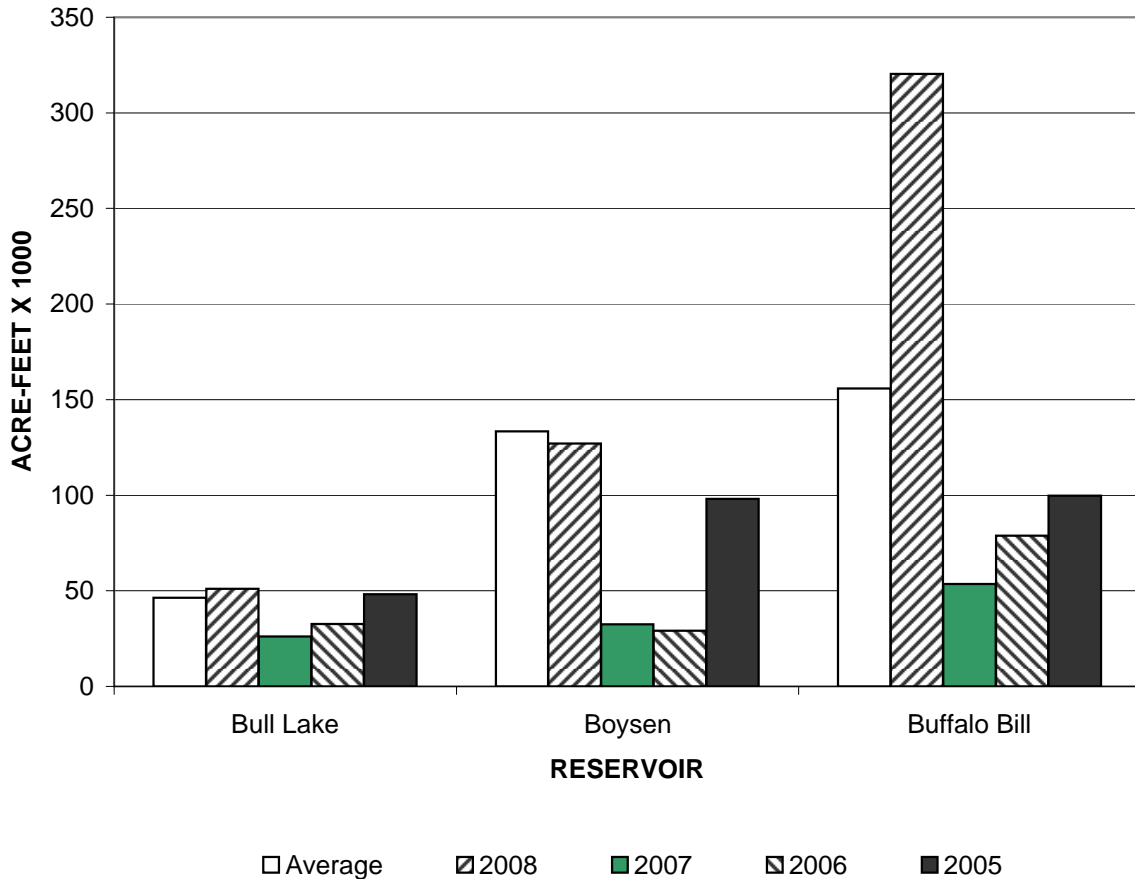
July inflow was above average at Buffalo Bill and Bull Lake Reservoir.

(1000 acre-feet)

Reservoir	July Inflow			July Historical Inflow			Accumulated Inflow (October-July)		
	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.	% of Avg.
Bull Lake	51.0	46.3	110	26.1	32.7	48.2	154.2	156.1	99
Boysen	127.0	133.4	95	32.4	29.1	98.1	726.2	826.7	88
Buffalo Bill	320.4	155.8	206	53.6	78.9	99.7	1072.9	752.2	143

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

### BIGHORN RIVER BASIN RESERVOIR INFLOW July



**BIGHORN RIVER BASIN OUTFLOW**

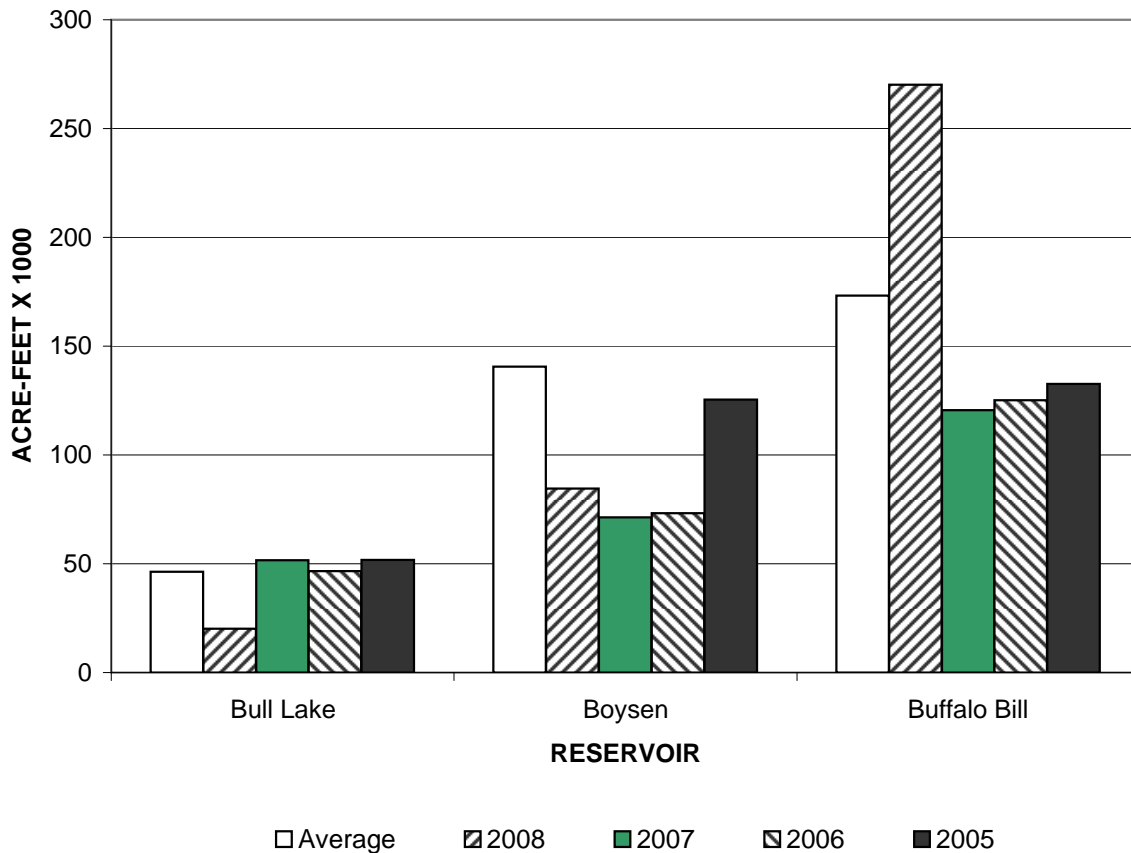
The release from Buffalo Bill Reservoir was above average during July.

(1000 acre-feet)

Reservoir	July Outflow			July Historical Outflow			Accumulated Outflow (October-July)		
	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.	% of Avg.
Bull Lake	20.2	46.3	44	51.6	46.6	51.8	53.7	105.8	51
Boysen	84.5	140.6	60	71.3	73.2	125.4	453.1	777.4	58
Buffalo Bill	270.2	173.2	156	120.6	125.1	132.6	861.4	626.0	138

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

**BIGHORN RIVER BASIN  
RESERVOIR OUTFLOW  
July**



**BIGHORN RIVER BASIN STORAGE**

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

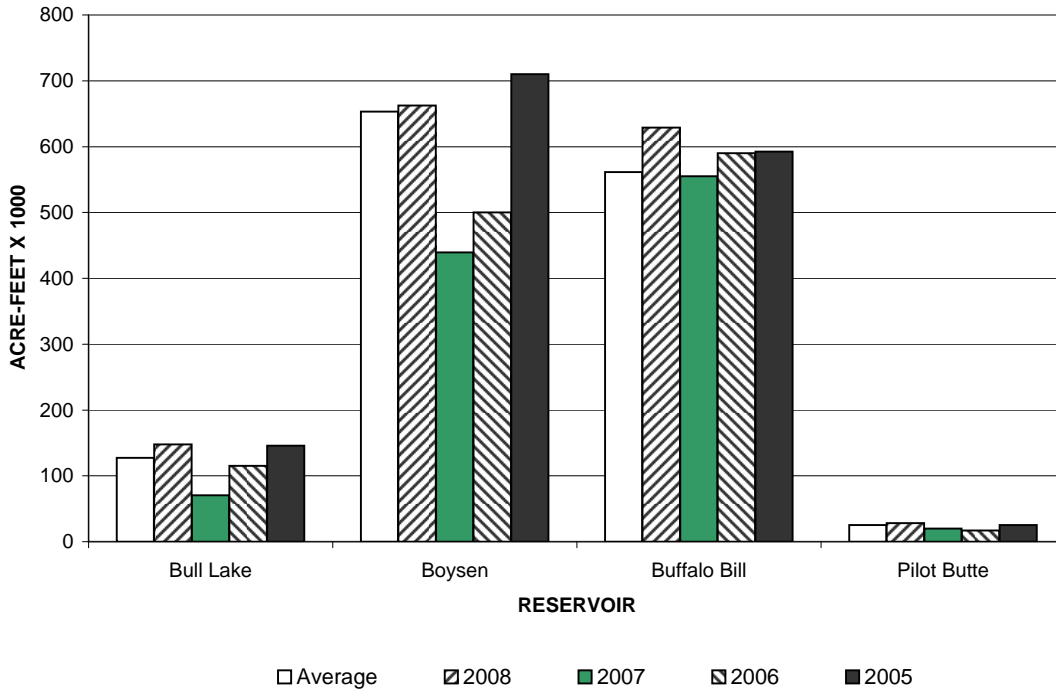
(1000 acre-feet)

Reservoir	Total Storage End of July			End of July 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		
	<b>Bull Lake</b>	147.8	127.3	116	70.4	115.3		
<b>Boysen</b>	662.6	653.1	101	439.5	500.1	710.2	741.6	89
<b>Buffalo Bill</b>	628.8	561.2 <sup>2</sup>	112	555.1	590.1	592.6	646.6	97
<b>Pilot Butte</b>	28.0	25.5	110	19.9	17.0	25.4	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 July**



### BIGHORN RIVER BASIN GENERATION

Generation was above average at Heart Mountain and Buffalo Bill Powerplants.

(Energy in giga-watt hours)

Powerplant	July Gross Generation			July Historical Generation			Accumulated Gross Gen. (October-July)		
	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>	6.9	7.8	88	5.6	5.9	9.8	31.5	54.6	58
Pilot Butte <sup>2</sup>	0.2	0.8	25	1.1	1.1	1.1	0.9	1.8	50
Heart Mtn. <sup>3</sup>	2.8	2.7	104	2.9	3.2	2.9	10.5	8.6	122
Buffalo Bill <sup>3</sup>	13.4	11.5	117	9.9	10.6	12.2	45.3	50.0	91
Shoshone <sup>3</sup>	2.2	2.2	100	2.1	2.2	2.2	16.5	16.6	99
Spirit Mtn. <sup>4</sup>	3.2	3.2	100	3.1	3.2	3.3	8.5	9.0	94

<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 July

