

**July 1, 2009**  
**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

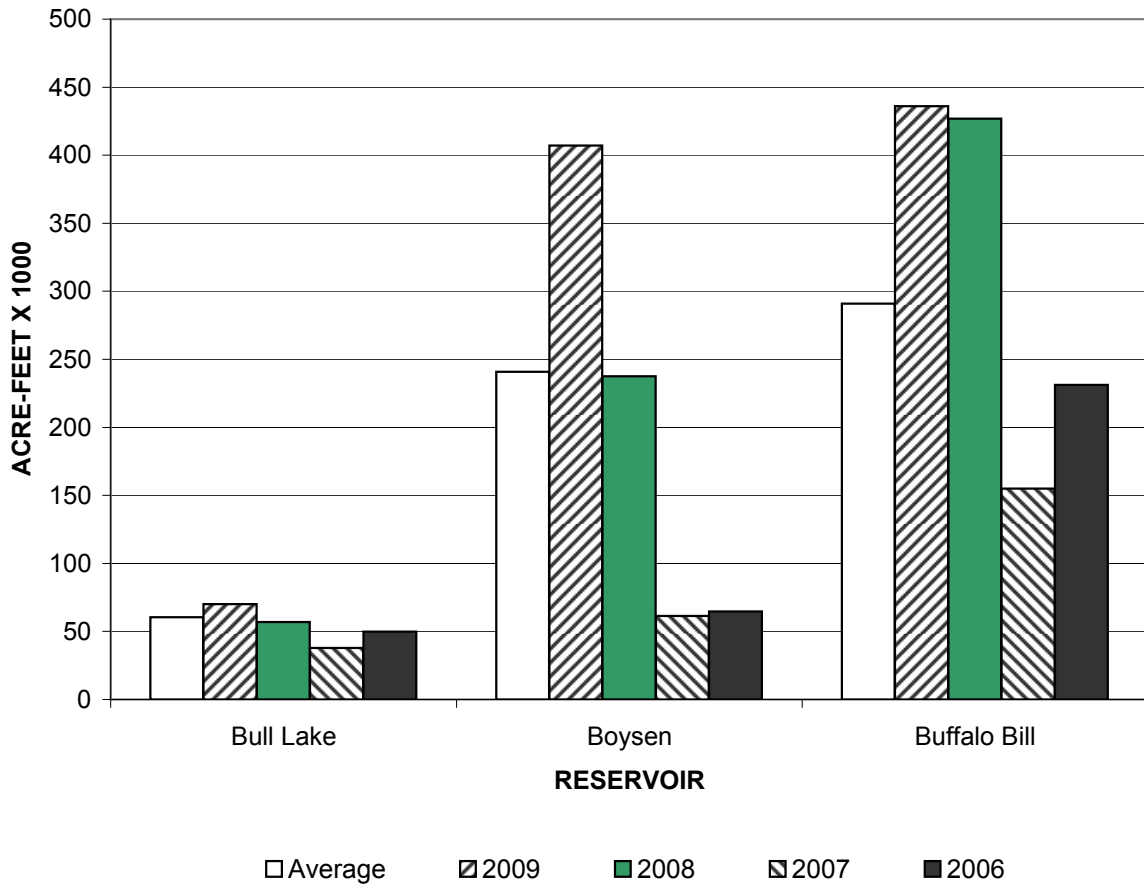
June inflow was above average at Bull Lake, Boysen, and Buffalo Bill Reservoirs.

(1000 acre-feet)

Reservoir	June Inflow			June Historical Inflow			Accumulated Inflow (October - June)		
	W. Yr. 2009	30 Yr. Avg. <sup>1</sup>	% of Avg.	W. Yr. 2008	W. Yr. 2007	W. Yr. 2006	W. Yr. 2009	30 Yr. Avg.	% of Avg.
Bull Lake	70.1	60.4	116	57.0	37.8	49.8	117.3	109.4	107
Boysen	407.2	240.8	169	237.6	61.3	64.6	813.1	687.3	118
Buffalo Bill	436.0	290.9	150	426.8	154.9	231.2	841.7	599.6	140

<sup>1</sup> Average is based on the 1979-2008 period.

### BIGHORN RIVER BASIN RESERVOIR INFLOW June



### BIGHORN RIVER BASIN OUTFLOW

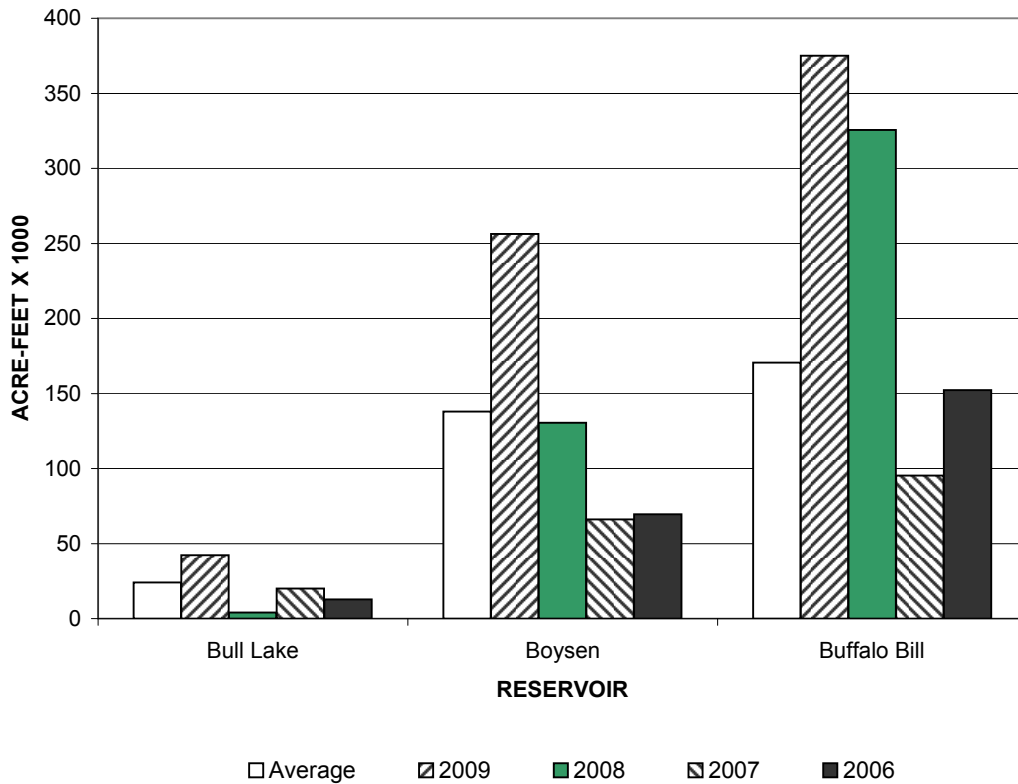
The release from Bull Lake, Boysen, and Buffalo Bill Reservoirs was well above average during June.

(1000 acre-feet)

Reservoir	June Outflow			June Historical Outflow			Accumulated Outflow (October - June)		
	W. Yr. 2009	30 Yr. Avg. <sup>1</sup>	% of Avg.	W. Yr. 2008	W. Yr. 2007	W. Yr. 2006	W. Yr. 2009	30 Yr. Avg.	% of Avg.
Bull Lake	42.2	24.1	175	4.1	20.1	12.7	54.8	59.3	92
Boysen	256.3	137.9	186	130.5	66.0	69.5	673.1	633.8	106
Buffalo Bill	375.0	170.5	220	325.5	95.3	152.3	729.1	459.3	159

<sup>1</sup> Average is based on the 1979-2008 period.

### BIGHORN RIVER BASIN RESERVOIR OUTFLOW June



### BIGHORN RIVER BASIN STORAGE

Storage at the end of June was above average at all Basin Reservoirs.

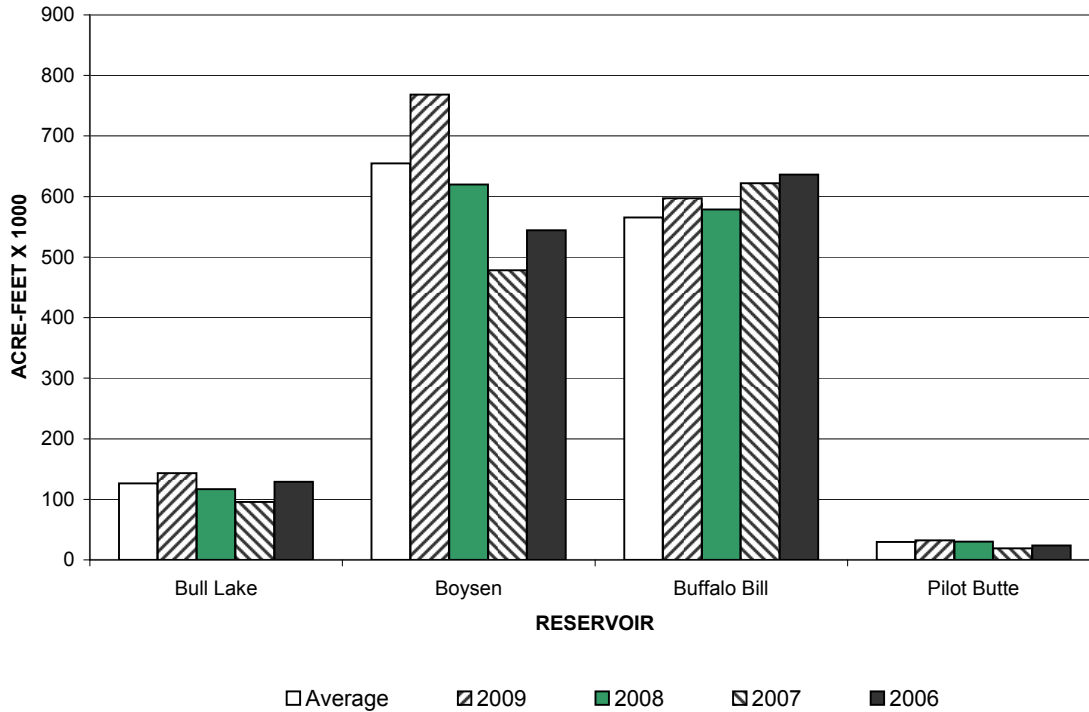
(1000 acre-feet)

Reservoir	Total Storage End of June			End of June Historical Storage			Total Conservation Storage Capacity	Percent of Capacity
	W. Yr. 2009	30 Yr. Avg. <sup>1</sup>	% of Avg.	W. Yr. 2008	W. Yr. 2007	W. Yr. 2006		
Bull Lake	143.3	126.1	114	117.0	95.9	128.8	152.5	94
Boysen	768.6	654.7	117	620.1	478.3	544.2	741.6	104
Buffalo Bill	597.0	565.5 <sup>2</sup>	106	578.6	622.1	636.4	646.6	92
Pilot Butte	32.1	29.7	108	30.2	19.2	23.8	33.7	95

<sup>1</sup> Average is based on the 1979-2008 period.

<sup>2</sup> This does not reflect a long term average because in 1992 the capacity of the reservoir was increased to approximately 646,56 acre-feet as a result of raising the dam. The average used here reflects data from 1993 through 2008.

### BIGHORN RIVER BASIN RESERVOIR STORAGE End of June



### BIGHORN RIVER BASIN GENERATION

Generation during June was above average at all powerplants except Pilot Butte Powerplant, which did not generate electricity during June.

(Energy in giga-watt hours)

Powerplant	June Gross Generation			June Historical Generation			Accumulated Gross Gen. (October - June)		
	W. Yr. 2009	Avg.	% of Avg.	W. Yr. 2008	W. Yr. 2007	W. Yr. 2006	W. Yr. 2009	Avg.	% of Avg.
Boysen <sup>1</sup>	10.9	7.8	140	9.1	5.2	5.7	45.5	46.5	98
Pilot Butte <sup>2</sup>	0.0	0.6	0	0.0	0.9	1.0	0.0	1.0	0
Heart Mtn. <sup>3</sup>	3.4	2.5	136	3.1	3.0	3.1	8.8	6.0	147
Buffalo Bill <sup>3</sup>	12.9	10.6	122	12.8	5.9	11.1	52.5	38.1	138
Shoshone <sup>3</sup>	2.2	2.0	110	1.9	2.1	2.1	15.9	14.2	112
Spirit Mtn. <sup>4</sup>	3.2	2.7	119	2.5	3.2	3.1	7.0	5.8	121

<sup>1</sup> Average is based on the 1979-2008 period.

<sup>2</sup> Average is based on the 1990-2008 period.

<sup>3</sup> Average is based on the 1993-2008 period.

<sup>4</sup> Average is based on the 1996-2008 period.

### BIGHORN RIVER BASIN GROSS GENERATION June

