

**October 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

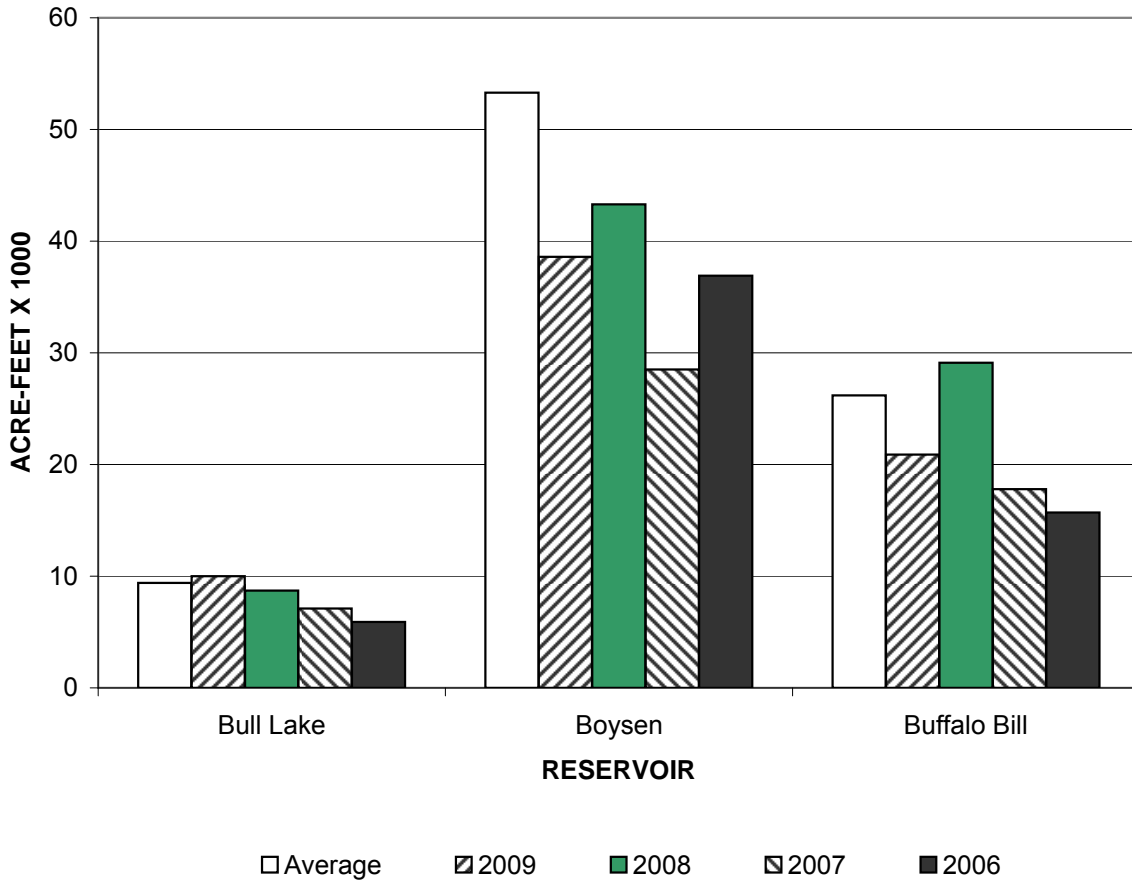
September inflow was above average at Bull Lake.

(1000 acre-feet)

Reservoir	September Inflow			September Historical Inflow			Accumulated Inflow (October - September)		
	W. Yr. 2009	30 Yr. Avg. ¹	% of Avg.	W. Yr. 2008	W. Yr. 2007	W. Yr. 2006	W. Yr. 2009	30 Yr. Avg.	% of Avg.
Bull Lake	10.0	9.4	106	8.7	7.1	5.9	202.0	185.6	109
Boysen	38.6	53.3	72	43.3	28.5	36.9	1119.1	927.1	121
Buffalo Bill	20.9	26.2	80	29.1	17.8	15.7	1133.8	825.9	137

¹ Average is based on the 1979-2008 period.

**BIGHORN RIVER BASIN
RESERVOIR INFLOW
September**



BIGHORN RIVER BASIN OUTFLOW

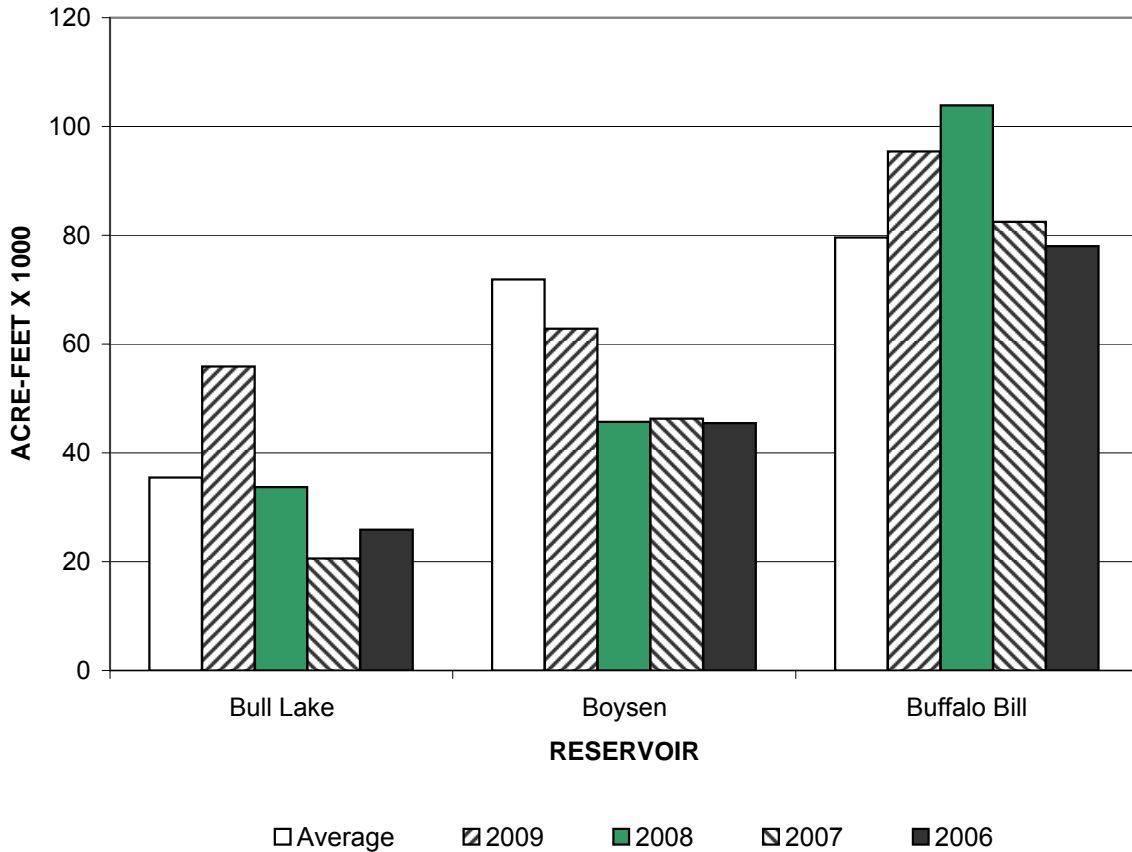
The release from Bull Lake and Buffalo Bill Reservoir was above average during September.

(1000 acre-feet)

Reservoir	September Outflow			September Historical Outflow			Accumulated Outflow (October - September)		
	W. Yr. 2009	30 Yr. Avg. ¹	% of Avg.	W. Yr. 2008	W. Yr. 2007	W. Yr. 2006	W. Yr. 2009	30 Yr. Avg.	% of Avg.
Bull Lake	55.9	35.5	157	33.7	20.6	25.9	203.1	186.1	109
Boysen	62.8	71.9	87	45.7	46.3	45.5	1088.1	929.1	117
Buffalo Bill	95.4	79.6	120	103.9	82.5	78.0	1132.2	820.8	138

¹ Average is based on the 1979-2008 period.

**BIGHORN RIVER BASIN
RESERVOIR OUTFLOW
September**



BIGHORN RIVER BASIN STORAGE

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

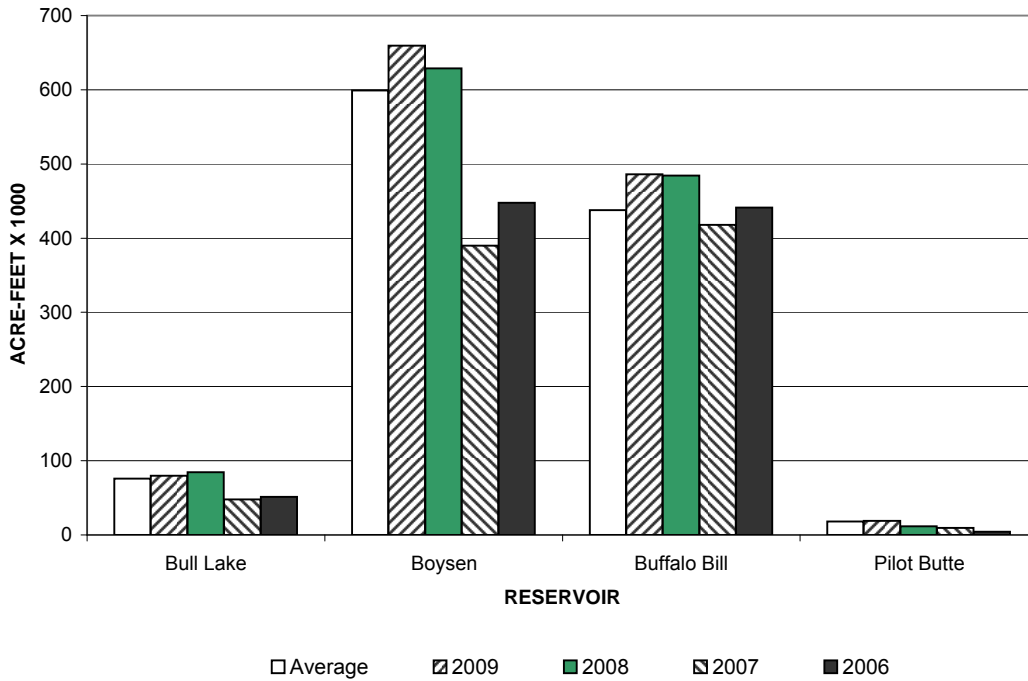
(1000 acre-feet)

Reservoir	Total Storage End of September			End of September Historical Storage			Total Conservation Storage Capacity	Percent of Capacity
	W. Yr. 2009	30 Yr. Avg. ¹	% of Avg.	W. Yr. 2008	W. Yr. 2007	W. Yr. 2006		
Bull Lake	79.8	75.7	105	84.5	47.8	51.3	152.5	52
Boysen	659.6	599.2	110	628.8	390.0	447.8	741.6	89
Buffalo Bill	486.0	437.6 ²	111	484.4	417.8	441.1	646.6	75
Pilot Butte	19.1	18.0	106	11.6	9.3	4.2	33.7	57

¹ Average is based on the 1979-2008 period.

² 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 2008.

**BIGHORN RIVER BASIN
RESERVOIR STORAGE
End of September**



BIGHORN RIVER BASIN GENERATION

Generation during September was above average at all powerplants except Boysen Powerplant. Pilot Butte Powerplant did not generate electricity during September.

(Energy in giga-watt hours)

Powerplant	September Gross Generation			September Historical Generation			Accumulated Gross Gen. (October - September)		
	W. Yr. 2009	Avg.	% of Avg.	W. Yr. 2008	W. Yr. 2007	W. Yr. 2006	W. Yr. 2009	Avg.	% of Avg.
Boysen ¹	5.2	5.9	88	3.7	3.2	3.5	67.6	66.9	101
Pilot Butte ²	0.0	0.5	0	0.5	0.0	0.2	0.0	3.2	0
Heart Mtn. ³	3.2	2.5	128	3.3	2.4	3.0	18.7	13.9	135
Buffalo Bill ³	7.8	6.6	118	12.0	4.6	4.6	84.4	66.2	127
Shoshone ³	2.0	1.9	105	2.0	1.9	1.9	22.5	20.4	110
Spirit Mtn. ⁴	3.1	2.9	107	3.1	3.0	2.9	16.7	15.0	111

¹ Average is based on the 1979-2008 period.
² Average is based on the 1990-2008 period.
³ Average is based on the 1993-2008 period.
⁴ Average is based on the 1996-2008 period.

**BIGHORN RIVER BASIN
GROSS GENERATION
September**

