

**November 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

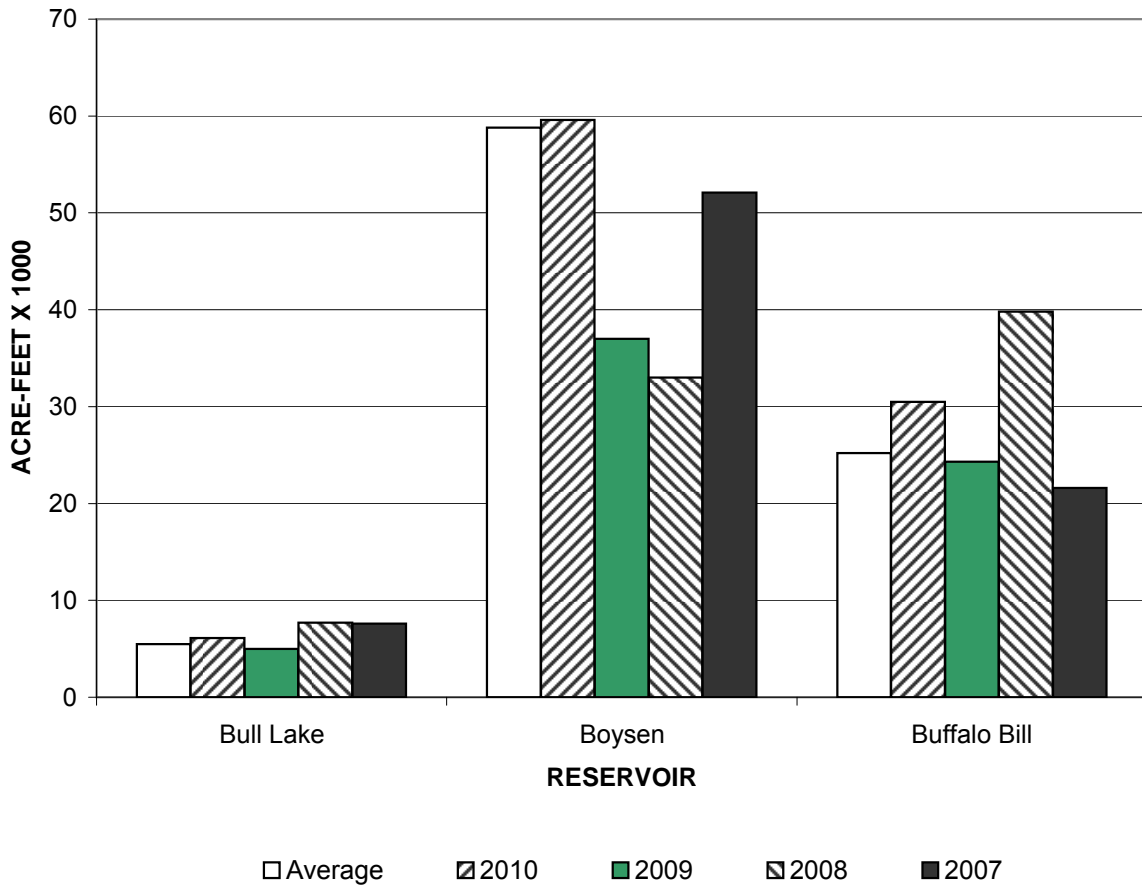
October inflow was above average at Bull Lake, Boysen, and Buffalo Bill Reservoirs.

(1000 acre-feet)

Reservoir	October Inflow			October Historical Inflow			Accumulated Inflow (October)		
	W. Yr. 2010	30 Yr. Avg. ¹	% of Avg.	W. Yr. 2009	W. Yr. 2008	W. Yr. 2007	W. Yr. 2010	30 Yr. Avg.	% of Avg.
Bull Lake	6.1	5.5	111	5.0	7.7	7.6	6.1	5.5	111
Boysen	59.6	58.8	101	37.0	33.0	52.1	59.6	58.8	101
Buffalo Bill	30.5	25.2	121	24.3	39.8	21.6	30.5	25.2	121

¹ Average is based on the 1980-2009 period.

BIGHORN RIVER BASIN RESERVOIR INFLOW October



BIGHORN RIVER BASIN OUTFLOW

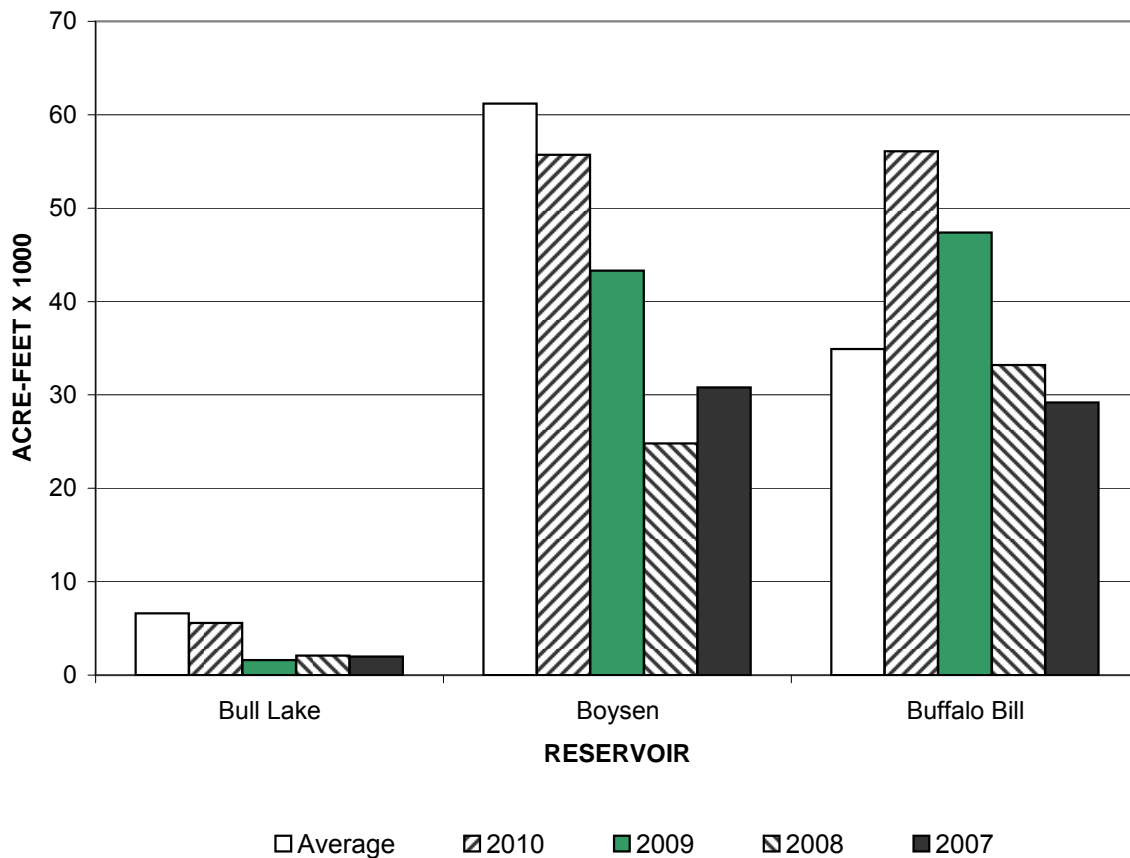
The release from Buffalo Bill Reservoir was above average during October.

(1000 acre-feet)

Reservoir	October Outflow			October Historical Outflow			Accumulated Outflow (October)		
	W. Yr. 2010	30 Yr. Avg. ¹	% of Avg.	W. Yr. 2009	W. Yr. 2008	W. Yr. 2007	W. Yr. 2010	30 Yr. Avg.	% of Avg.
Bull Lake	5.6	6.6	85	1.6	2.1	2.0	5.6	6.6	85
Boysen	55.7	61.2	91	43.3	24.8	30.8	55.7	61.2	91
Buffalo Bill	56.1	34.9	161	47.4	33.2	29.2	56.1	34.9	161

¹ Average is based on the 1980-2009 period.

BIGHORN RIVER BASIN RESERVOIR OUTFLOW October



BIGHORN RIVER BASIN STORAGE

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

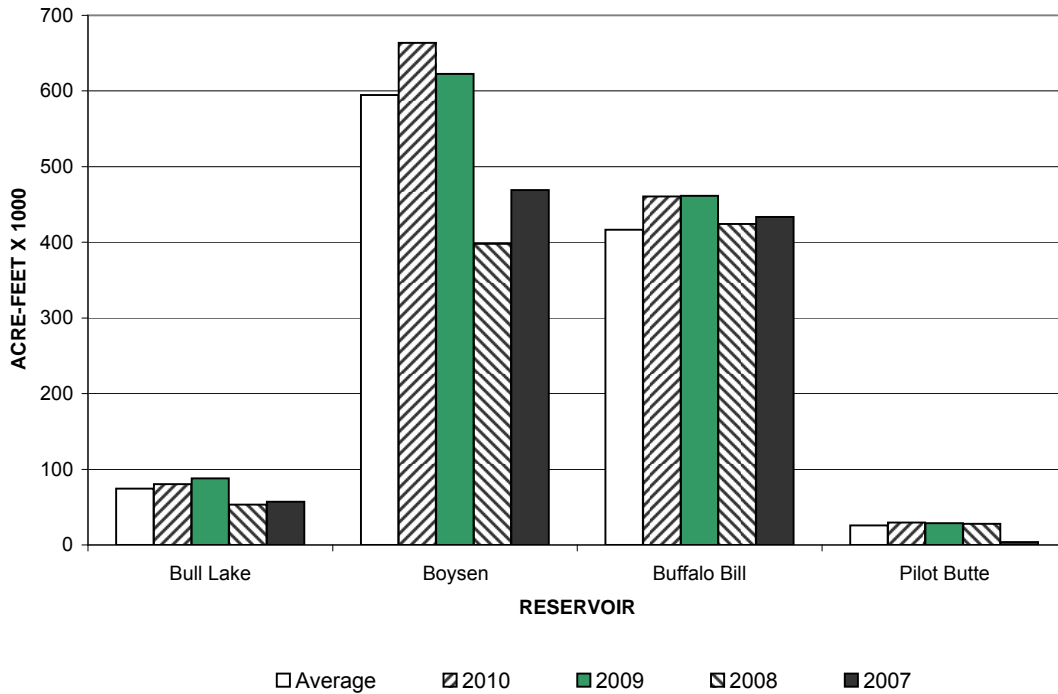
(1000 acre-feet)

Reservoir	Total Storage End of October			End of October Historical Storage			Total Conservation Storage Capacity	Percent of Capacity
	W. Yr. 2010	30 Yr. Avg. ¹	% of Avg.	W. Yr. 2009	W. Yr. 2008	W. Yr. 2007		
Bull Lake	80.3	74.6	108	87.9	53.3	56.9	152.5	53
Boysen	663.5	594.7	112	622.5	397.9	469.1	741.6	89
Buffalo Bill	460.5	416.8 ²	110	461.3	424.4	433.5	646.6	71
Pilot Butte	29.4	26.0	113	28.6	28.0	4.0	33.7	87

¹ Average is based on the 1980-2009 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 2009.

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



BIGHORN RIVER BASIN GENERATION

Generation during October was above average at Heart Mtn., Buffalo Bill, and Shoshone Powerplants. Pilot Butte Powerplant did not generate electricity during October.

(Energy in giga-watt hours)

Powerplant	October Gross Generation			October Historical Generation			Accumulated Gross Gen. (October)		
	W. Yr. 2010	Avg.	% of Avg.	W. Yr. 2009	W. Yr. 2008	W. Yr. 2007	W. Yr. 2010	Avg.	% of Avg.
Boysen ¹	4.2	4.8	88	3.5	1.3	2.1	4.2	4.8	88
Pilot Butte ²	0.0	0.2	0	0.0	0.0	0.0	0.0	0.2	0
Heart Mtn. ³	1.3	0.7	186	0.8	0.9	0.9	1.3	0.7	186
Buffalo Bill ³	8.3	2.4	346	4.8	1.1	0.8	8.3	2.4	346
Shoshone ³	2.1	1.7	124	2.0	1.6	1.9	2.1	1.7	124
Spirit Mtn. ⁴	0.7	0.9	78	0.7	1.0	1.1	0.7	0.9	78

¹ Average is based on the 1980-2009 period.

² Average is based on the 1990-2009 period.

³ Average is based on the 1993-2009 period.

⁴ Average is based on the 1996-2009 period.

BIGHORN RIVER BASIN GROSS GENERATION October

