

October 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

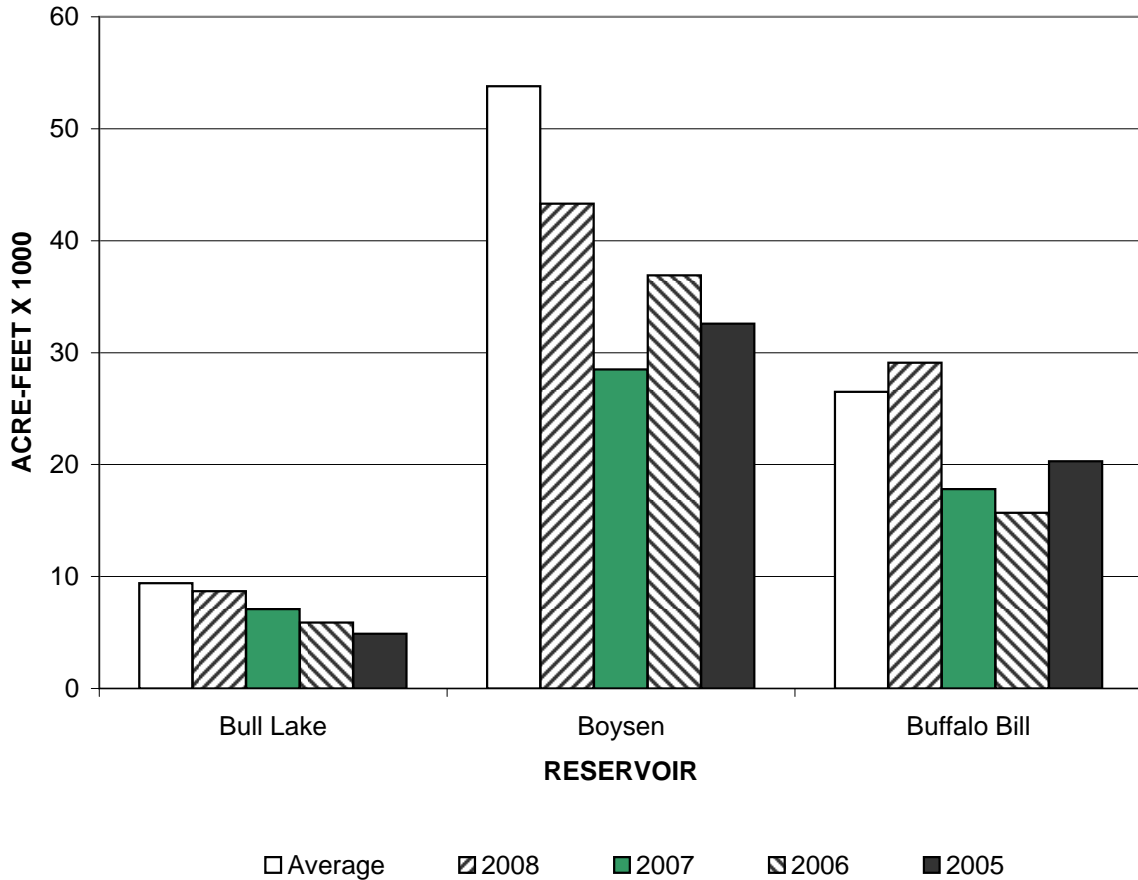
September inflow was above average at Buffalo Bill Reservoir.

(1000 acre-feet)

Reservoir	September Inflow			September Historical Inflow			Accumulated Inflow (October-September)		
	W. Yr. 2008	30 Yr. Avg. ¹	% of Avg.	W. Yr. 2007	W. Yr. 2006	W. Yr. 2005	W. Yr. 2008	30 Yr. Avg.	% of Avg.
Bull Lake	8.7	9.4	93	7.1	5.9	4.9	179.1	186.9	96
Boysen	43.3	53.8	80	28.5	36.9	32.6	807.1	940.6	86
Buffalo Bill	29.1	26.5	110	17.8	15.7	20.3	1160.8	823.9	141

¹ Average is based on the 1978-2007 period.

**BIGHORN RIVER BASIN
RESERVOIR INFLOW
September**



BIGHORN RIVER BASIN OUTFLOW

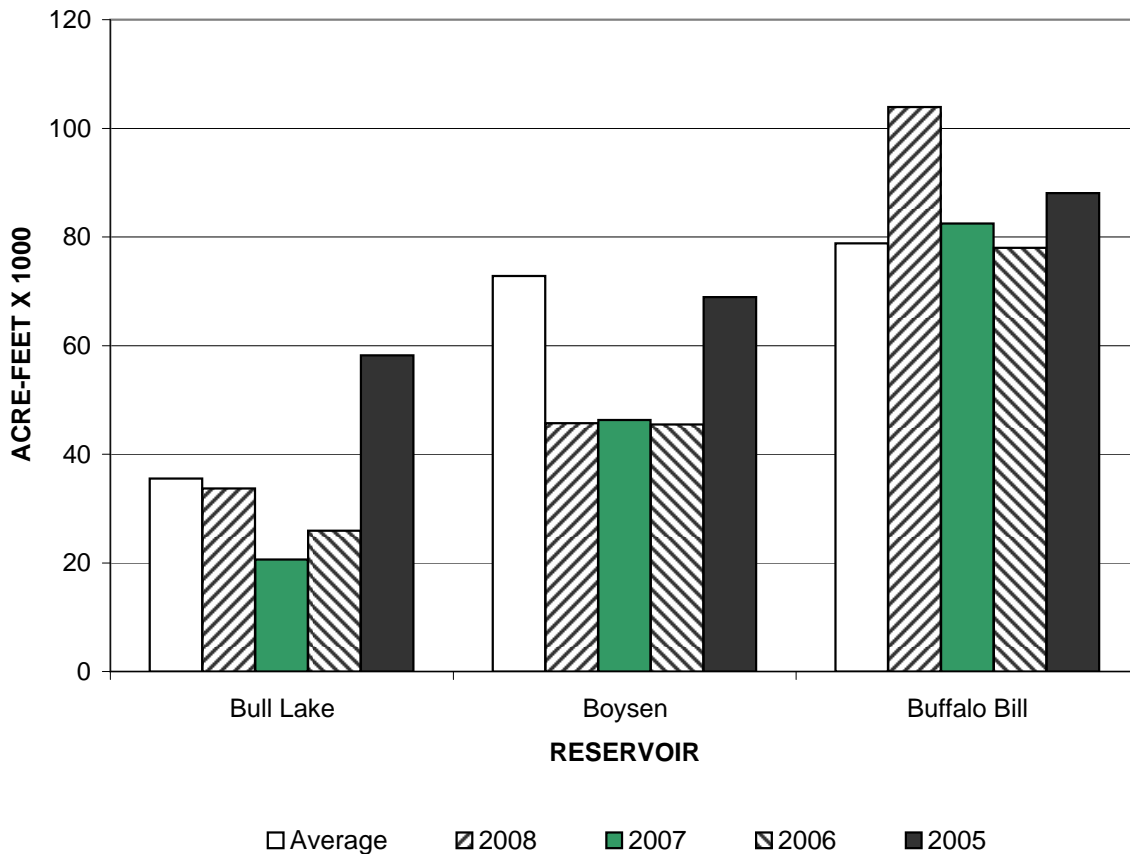
The release from Buffalo Bill Reservoir was above average during September.

(1000 acre-feet)

Reservoir	September Outflow			September Historical Outflow			Accumulated Outflow (October-September)		
	W. Yr. 2008	30 Yr. Avg. ¹	% of Avg.	W. Yr. 2007	W. Yr. 2006	W. Yr. 2005	W. Yr. 2008	30 Yr. Avg.	% of Avg.
Bull Lake	33.7	35.5	95	20.6	25.9	58.2	141.9	187.4	76
Boysen	45.7	72.8	63	46.3	45.5	68.9	567.8	941.5	60
Buffalo Bill	103.9	78.8	132	82.5	78.0	88.1	1093.7	815.4	134

¹ Average is based on the 1978-2007 period.

BIGHORN RIVER BASIN RESERVOIR OUTFLOW September



BIGHORN RIVER BASIN STORAGE

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

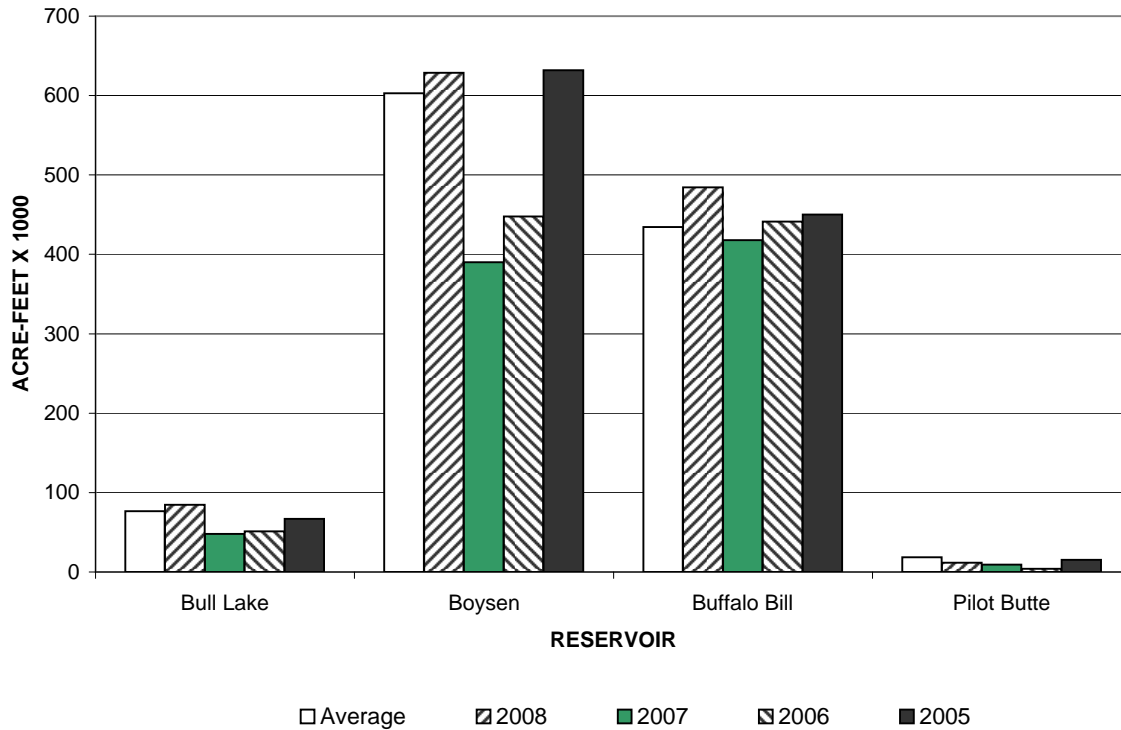
(1000 acre-feet)

Reservoir	Total Storage End of September			End of September Historical Storage			Total Conservation Storage Capacity	Percent of Capacity
	W. Yr.	30 Yr.	% of	W. Yr.	W. Yr.	W. Yr.		
	2008	Avg. ¹	Avg.	2007	2006	2005		
Bull Lake	84.5	76.4	111	47.8	51.3	66.8	152.5	55
Boysen	628.8	602.9	104	390.0	447.8	631.9	741.6	85
Buffalo Bill	484.4	434.5 ²	111	417.8	441.1	450.3	646.6	75
Pilot Butte	11.6	18.4	63	9.3	4.2	15.4	33.7	34

¹ Average is based on the 1978-2007 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 2007

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



BIGHORN RIVER BASIN GENERATION

Generation during September was average or greater at all powerplants except Boysen Powerplant.

(Energy in giga-watt hours)

Powerplant	September Gross Generation			September Historical Generation			Accumulated Gross Gen. (October-September)		
	W. Yr. 2008	Avg.	% of Avg.	W. Yr. 2007	W. Yr. 2006	W. Yr. 2005	W. Yr. 2008	Avg.	% of Avg.
Boysen ¹	3.7	6.0	62	3.2	3.5	6.1	40.9	67.7	60
Pilot Butte ²	0.5	0.5	100	0.0	0.2	1.0	2.0	3.2	63
Heart Mtn. ³	3.3	2.4	138	2.4	3.0	0.5	16.6	13.7	121
Buffalo Bill ³	12.0	6.2	194	4.6	4.6	9.3	70.2	65.9	107
Shoshone ³	2.0	1.9	105	1.9	1.9	1.9	20.6	20.6	100
Spirit Mtn. ⁴	3.1	2.9	107	3.0	2.9	2.9	14.5	15.0	97

¹ Average is based on the 1978-2007 period.

² Average is based on the 1990-2007 period.

³ Average is based on the 1993-2007 period.

⁴ Average is based on the 1995-2007 period.

BIGHORN RIVER BASIN GROSS GENERATION September

