February 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

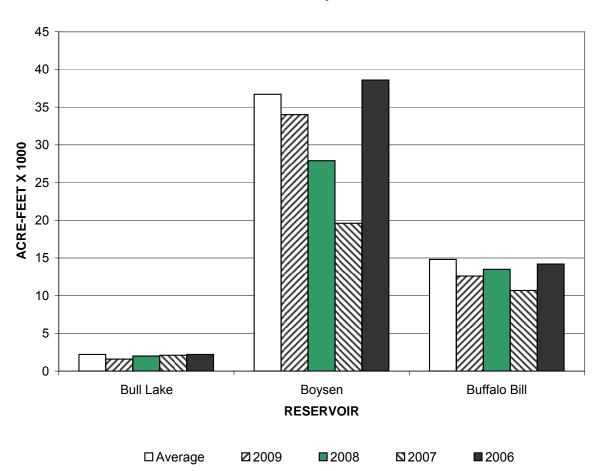
January inflow was below average at Bull Lake, Boysen, and Buffalo Bill Reservoirs.

(1000 acre-feet)

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		January Inflow		January Historical Inflow				umulated Ir ober - Jan	
Reservoir	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	1.6	2.2	73	2.0	2.1	2.2	10.7	13.2	81
Boysen	34.0	36.7	93	27.9	19.6	38.6	146.8	183.2	80
Buffalo Bill	12.6	14.8	85	13.5	10.7	14.2	76.4	76.7	100

¹ Average is based on the 1979-2008 period.

BIGHORN RIVER BASIN RESERVOIR INFLOW January



BIGHORN RIVER BASIN OUTFLOW

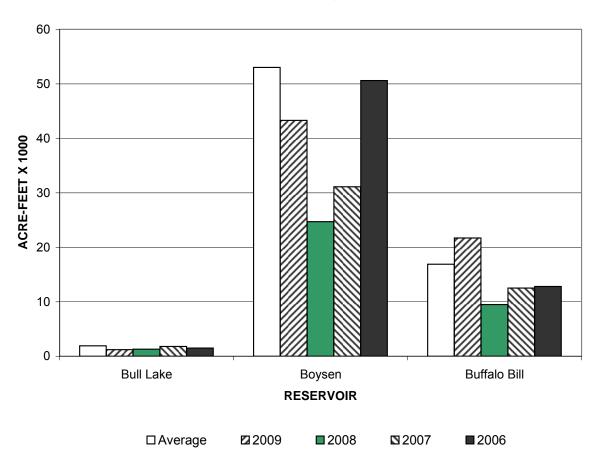
The release from Buffalo Bill Reservoir was above average during January.

(1000 acre-feet)

		January Outflow		January Historical Outflow			Accumulated Outflow (October - January)		
Reservoir	W. Yr.	30 Yr.	% of	W. Yr.	W. Yr.	W. Yr.	W. Yr.	30 Yr.	% of
	2009	Avg. 1	Avg.	2008	2007	2006	2009	Avg.	Avg.
Bull Lake	1.2	1.9	63	1.3	1.8	1.5	4.8	13.0	37
Boysen	43.3	53.0	82	24.7	31.1	50.6	172.0	228.9	75
Buffalo Bill	21.7	16.9	128	9.5	12.5	12.8	117.1	88.1	133

¹ Average is based on the 1979-2008 period.

BIGHORN RIVER BASIN RESERVOIR OUTFLOW January



BIGHORN RIVER BASIN STORAGE

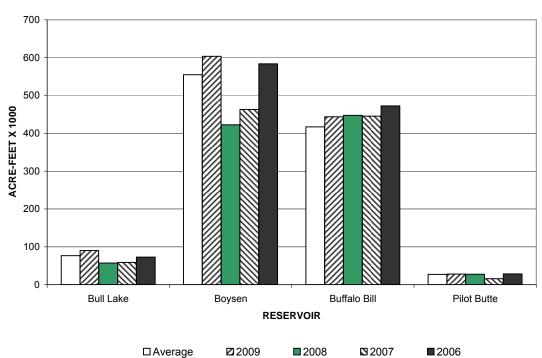
Storage at the end of January was above average at all Basin Reservoirs.

(1000 acre-feet

								(1000 acre-reet)
	Т	Total Storage			End of January			Percent
	Eı	nd of Janua	ıry	His	torical Stor	age	Conservation	of
Reservoir	W. Yr.	30 Yr.	% of	W. Yr.	W. Yr.	W. Yr.	Storage	Capacity
	2009	Avg. 1	Avg.	2008	2007	2006	Capacity	
Bull Lake	90.3	76.6	118	57.1	58.8	72.9	152.5	59
Boysen	603.6	555.1	109	422.7	463.1	583.8	741.6	81
Buffalo Bill	443.7	417.0 ²	106	447.3	445.3	472.5	646.6	69
Pilot Butte	28.1	27.2	103	27.5	15.5	28.2	33.7	83

¹ Average is based on the 1979-2008 period.

BIGHORN RIVER BASIN RESERVOIR STORAGE End of January



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 SNOWPACK WATER CONTENT

The tables shown below display the Snotel stations used in the development of the April - July snowmelt runoff forecasts displayed on page six of this report.

SWE in inches 1

		February 1		Comparative February 1			
	sn	now-water con	tent	snow-water content			
WATERSHED	W. Yr.	30 Yr.	% of	W. Yr.	W. Yr.	W. Yr.	
	2009	Avg. 2	Avg.	2008	2007	2006	
Bull Lake Reservoir	7.83	8.80	89	7.3	5.8	7.7	
Boysen Reservoir	10.31	9.99	103	9.9	7.2	9.1	
Buffalo Bill Reservoir	13.57	13.59	100	12.8	9.1	12.3	

Boysen Reservoir Watershed

Buffalo Bill Reservoir Watershed

SWE in inches 1

		SWE in inches 1
Snotel Stations	Water	30 Yr.
(Elevation)	Content	Avg. ²
Burroughs Creek (8,750)	11.9	10.1
Hobbs Park (10,100)	6.8	9.8
Kirwin (9,800)	8.7	7.7
Little Warm (9,620)	7.5	7.8
Togwotee Pass (9,580)	19.3	16.9
Townsend Creek (8,700)	4.3	5.6
Younts Peak (8,350)	13.7	12.0
Watershed Average	10.31	9.99

		SWE III IIICHES
Snotel Stations	Water	30 Yr.
(Elevation)	Content	Avg. ²
Blackwater (9,780)	16.1	16.6
Evening Star (9,200)	20.2	19.7
Marquette (8,760)	2.8	5.9
Sylvan Lake (8,420)	12.7	15.2
Sylvan Road (8,120)	10.2	8.8
Togwotee Pass (9,580)	19.3	16.9
Younts Peak (8,350)	13.7	12.0
Watershed Average	13.57	13.59

Bull Lake Reservoir Watershed

SWE in inches 1

Snotel Stations	Water	30 Yr.
(Elevation)	Content	Avg. ²
Elkhart Park (8,400)	9.2	8.8
Hobbs Park (10,100)	6.8	9.8
Little Warm (9,620)	7.5	7.8
Watershed Average	7.83	8.80

SWE (Snow Water Content is the amount of water in the snowpack expressed in inches)
 Average is based on the 1971-2000 period

BIGHORN WATER SUPPLY FORECAST

The February 1, 2009, water supply forecast indicates below average April - July runoff can be expected at all forecast points except Buffalo Bill Reservoir.

(1000 acre-feet)

								(.0	ou acre-reet)
Forecast		ry 1, 2009 F pril-July R		30 Yr. April-July	Expected	Comparative Actual April - July Runoff			
Points	Reasonable Minimum ¹	Expected	Reasonable Maximum ¹	Runoff Avg. ²	% of Avg.	W. Yr. 2008	W. Yr. 2007	W. Yr. 2006	W. Yr. 2005
Bull Lake Reservoir	100	130	160	138.5	94	135	103	121	155
Wind River above Bull Lake Creek	230	380	530	397.2	96	412	199	282	387
Boysen Reservoir	250	500	750	541.6	92	522	211	201	589
Buffalo Bill Reservoir	550	700	850	646.3	108	955	427	546	513

¹ The probability is estimated to be 9 chances in 10 that the actual volume will fall between the reasonable minimum and reasonable maximum

2 Average is based on the 1979-2008 period.

(1000 acre-feet)

						(!	000 acre-reet)
Forecast Points	Points Chance of Exceeding						30 Yr. April-July Runoff
	95%	75%	50%	% of Avg	25%	5%	Avg. 1
Bull Lake Reservoir	100	118	130	94	142	160	138.5
Wind River above Bull Lake Creek	230	319	380	96	441	530	397.2
Boysen Reservoir	250	398	500	92	602	750	541.6
Buffalo Bill Reservoir	550	639	700	108	761	850	646.3

¹ Average is based on the 1979-2008 period.

BIGHORN RIVER BASIN GENERATION

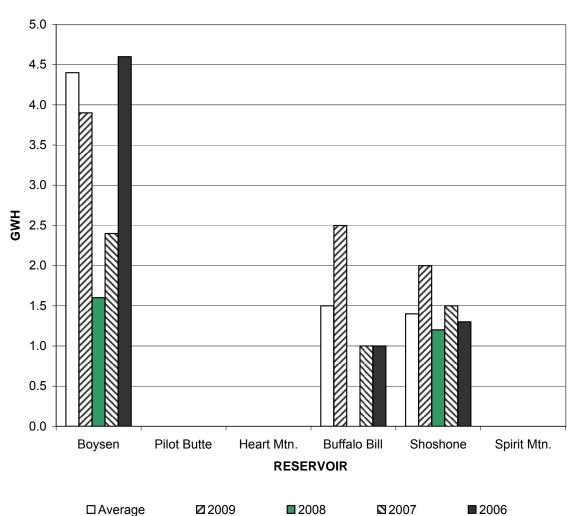
Generation during January was above average at Buffalo Bill and Shoshone Powerplants.

(Energy in giga-watt hours)

	January Gross Generation			January Historical Generation				ss Gen. uary)	
Powerplant	W. Yr. 2009	Avg.	% of Avg.	W. Yr. 2008	W. Yr. 2007	W. Yr. 2006	W. Yr. 2009	Avg.	% of Avg.
Boysen ¹ Pilot Butte ²	3.9 0.0	4.4 0.0	89 0	1.6 0.0	2.4 0.0	4.6 0.0	14.9 0.0	18.9 0.2	79 0
Heart Mtn. ³ Buffalo Bill ³	0.0 2.5	0.0 1.5	0 167	0.0	0.0 1.0	0.0 1.0	0.8 13.1	0.8 6.9	100 190
Shoshone ³	2.0	1.4	143	1.2	1.5	1.3	7.9	6.1	130
Spirit Mtn. ⁴	0.0	0.0	0	0.0	0.0	0.0	0.7	0.9	78

Average is based on the 1979-2008 period.

BIGHORN RIVER BASIN GROSS GENERATION January



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.