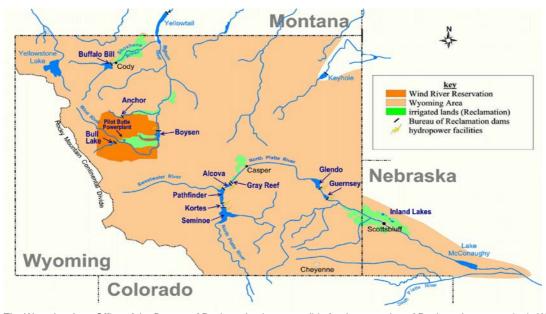
Bighorn Basin Water Supply and Utilization Report Wyoming Area Office Report for April 2016



The Wyoming Area Office of the Bureau of Reclamation is responsible for the operation of Reclamation reservoirs in Wyoming east of the Continental Divide except for Keyhole Reservoir. Four off-stream reservoirs in Nebraska commonly referred to as the Inland Lakes also fall within the Wyoming Area. The North Platte River Basin Reservoirs have a combined storage capacity of 2,800,000 acre-feet. The major reservoirs in the Shoshone and Wind/Bighorn Basins have a combined storage capacity of 1,600,000 acre-feet.



United States of America Department of the Interior Bureau of Reclamation Wyoming Area Office P.O. Box 1630 Mills, Wyoming 82644-1630

Report for April 2016 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:

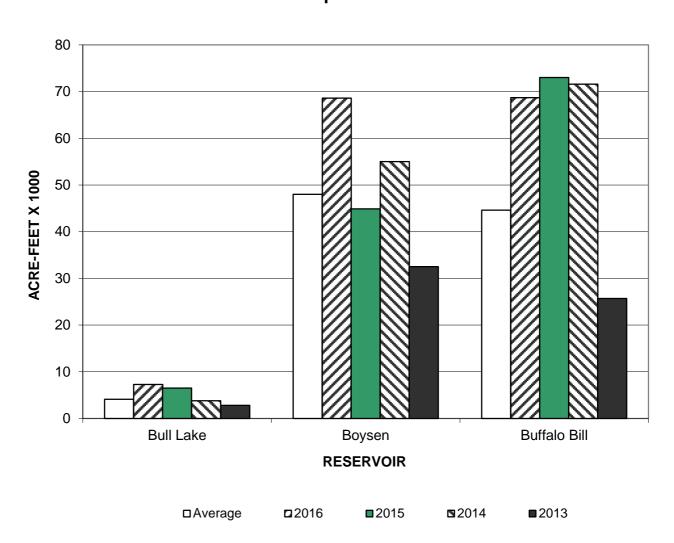
- 1. Log on to the Great Plains Home Page at http://www.usbr.gov/gp
- 2. Select Water Operations.
- 3. Select Water Management Information.
- 4. Select Water Supply Report.
- 5. Under Bighorn Basin, select the current report or reports from the previous 12 months

(1000 acre-feet)

		April Inflow		April Historical Inflow			Accumulated Inflow (October-April)			
Reservoir	W. Yr.	30 Yr.	% of	W. Yr.	W. Yr.	W. Yr.	W. Yr.	30 Yr.	% of	
	2016	Avg. 1	Avg.	2015	2015 2014 2013		2016	Avg.	Avg.	
Bull Lake	7.3	4.1	178	6.5	3.8	2.8	24.1	20.8	116	
Boysen	68.6	48.0	143	44.9	55.0	32.5	315.3	311.6	101	
Buffalo Bill	68.7	44.6	154	73.0	71.6	25.7	185.5	154.5	120	

¹ Average is based on the 1986-2015 period.

BIGHORN RIVER BASIN RESERVOIR INFLOW April

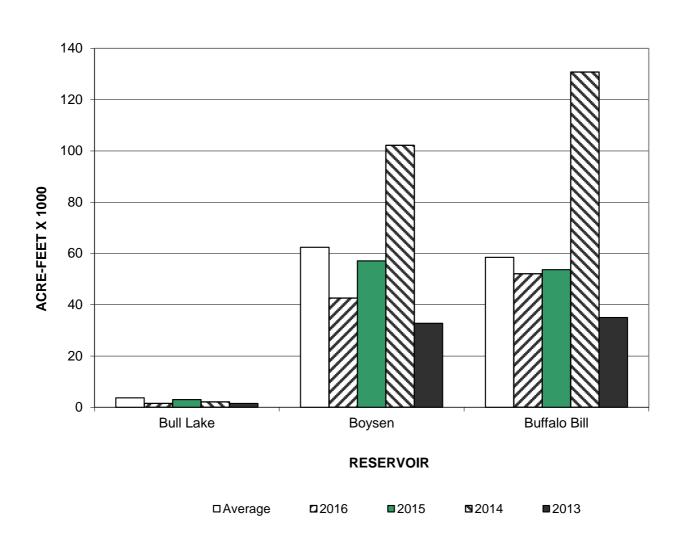


(1000 acre-feet)

		April Outflow		April Historical Outflow						
Reservoir	W. Yr.	30 Yr.	% of	W. Yr.	W. Yr.	W. Yr.	W. Yr.	30 Yr.	% of	
	2016	Avg. 1	Avg.	2015	2015 2014 2013		2016	Avg.	Avg.	
Bull Lake	1.5	3.7	41	3.0	2.1	1.5	10.9	19.2	57	
Boysen	42.6	62.4	68	57.1	102.2	32.8	334.2	351.5	95	
Buffalo Bill	52.1	58.5	89	53.7	130.8	35.0	164.6	180.0	91	

¹ Average is based on the 1986-2015 period.

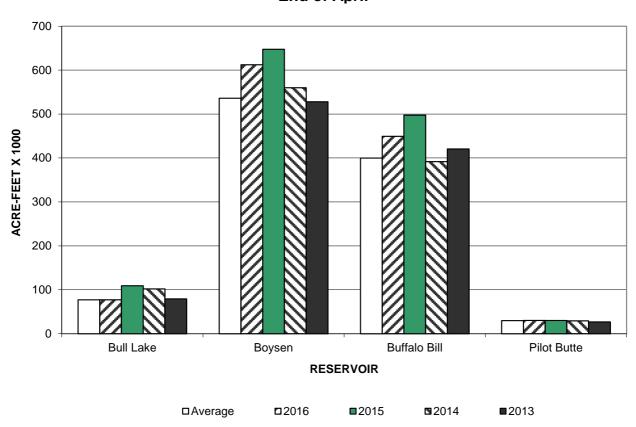
BIGHORN RIVER BASIN RESERVOIR OUTFLOW April



(1000 acre-feet)

								(1000 40.0 1001)
	Total Storage End of April				End of Apri		Total Conservation	Percent of
Reservoir	W. Yr. 2016	30 Yr. Avg. ¹	% of Avg.	W. Yr. W. Yr. W. Yr. 2015 2014 2013		Storage Capacity	Capacity	
Bull Lake	77.1	77.1	100	109.3	101.9	79.4	152.5	51
Boysen	612.1	535.8	114	647.5	560.0	527.8	741.6	83
Buffalo Bill	449.3	399.9 ²	112	497.4	391.7	420.5	646.6	69
Pilot Butte	30.3	29.9	101	30.1	29.2	26.7	33.7	90

BIGHORN RIVER BASIN RESERVOIR STORAGE End of April



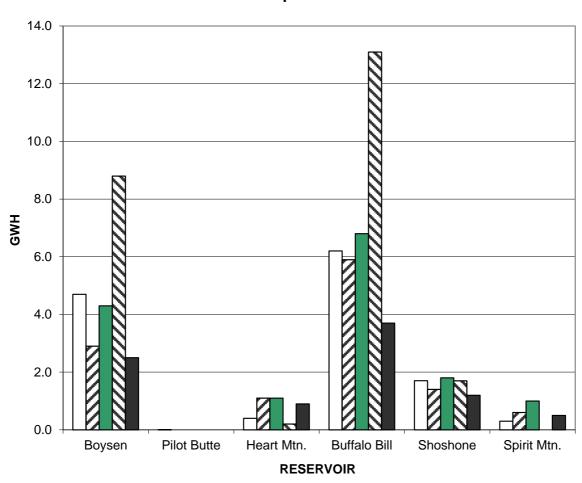
Average is based on the 1986-2015 period.
 This does not reflect a long term average because in 1992 the capacity of the reservoir was increased to approximately 646,565 acre-feet as a result of raising the dam. The average used here reflects data from 1993 through 2015.

(Energy in giga-watt hours)

	Gro	April ss Genera	tion	April Historical Generation			Accumulated Gross Gen. (October-April)		
Powerplant	W. Yr. 2016	Avg.	% of Avg.	W. Yr. 2015	W. Yr. 2014	W. Yr. 2013	W. Yr. 2016	Avg.	% of Avg.
Boysen ¹ Pilot Butte ²	2.9 0.0	4.7 0.0	62 0	4.3 0.0	8.8 0.0	2.5 0.0	27.4 0.0	26.4 0.2	104 0
Heart Mtn. ³ Buffalo Bill ³	1.1 5.9	0.4 6.2	275 95	1.1 6.8	0.2 13.1	0.9 3.7	2.4 12.3	1.3 19.1	185 64
Shoshone ³	1.4	1.7	82	1.8	1.7	1.2	8.0	10.4	77
Spirit Mtn. ⁴	0.6	0.3	200	1.0	0.0	0.5	2.2	1.3	169

Average is based on the 1986-2015 period.

BIGHORN RIVER BASIN GROSS GENERATION April



² Average is based on the 1990-2015 period. Pilot Butte Powerplant is currently in "mothballed" status and does not generate electricity.

³ Average is based on the 1993-2015 period.

⁴ Average is based on the 1996-2015 period.

BIGHORN WATER SUPPLY FORECAST

(1000 acre-feet)

Forecast	May 1, 2016 Forecast of April-July Runoff			30 Yr. April-July	Expected	Comparative Actual April - July Runoff			
Points	Reasonable Minimum¹	Expected	Reasonable Maximum ¹	Runoff Avg. ²	% of Avg.	W. Yr. 2015	W. Yr. 2014	W. Yr. 2013	W. Yr. 2012
Bull Lake Reservoir	115	140	165	138.2	101	138	148	106	118
Wind River above Bull Lake Creek	280	380	480	409.5	93	529	580	283	314
Boysen Reservoir	500	700	900	548.3	128	750	695	216	219
Buffalo Bill Reservoir	420	620	820	686.3	90	696	1062	577	592

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 1986-2015 period.

3 Actual inflows are as follows:

	April (kaf)
Bull Lake	7.3
Wind River above Bull Lake Creek	28.1
Boysen	68.6
Buffalo Bill	68.7

						(1	uuu acre-reet)		
Forecast Points		May 1, 2016 Forecast of April-July Runoff Chance of Exceeding							
	95%	75%	50%	% of Avg	25%	5%	Avg. 1		
Bull Lake Reservoir	115	130	140	101	150	165	138.2		
Wind River above Bull Lake Creek	280	339	380	93	421	480	409.5		
Boysen Reservoir	500	618	700	128	782	900	548.3		
Buffalo Bill Reservoir	420	538	620	90	702	820	686.3		

¹ Average is based on the 1986-2015 period.

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

	May 1			Comparative May 1			
	sr	snow-water content			snow-water content		
WATERSHED	W. Yr.	30 Yr.	% of	W. Yr.	W. Yr.	W. Yr.	
	2016	Median ² Median		2015	2014	2013	
Bull Lake Reservoir	12.67	12.00	106	7.20	16.0	10.8	
Boysen Reservoir	12.74	13.67	93	9.08	17.9	12.8	
Buffalo Bill Reservoir	14.01	17.71	79	12.07	27.1	16.8	

Boysen Reservoir Watershed

Buffalo Bill Reservoir Watershed

SWE in inches 1

		SVVL III III CHES
Snotel Stations	Water	30 Yr.
(Elevation)	Content	Median ²
Burroughs Creek (8,750)	7.0	12.9
Hobbs Park (10,100)	20.8	16.0
Kirwin (9,800)	13.0	10.4
Little Warm (9,620)	8.0	8.7
Togwotee Pass (9,580)	22.3	24.7
Townsend Creek (8,700)	13.0	7.5
Younts Peak (8,350)	5.1	15.5
Watershed Average	12.74	13.67

		OWE III IIICIICS
Snotel Stations	Water	30 Yr.
(Elevation)	Content	Median ²
Blackwater (9,780)	24.2	25.3
Evening Star (9,200)	24.9	24.9
Marquette (8,760)	8.5	8.0
Sylvan Lake (8,420)	13.1	19.8
Sylvan Road (8,120)	0.0	5.8
Togwotee Pass (9,580)	22.3	24.7
Younts Peak (8,350)	5.1	15.5
Watershed Average	14.01	17.71

Bull Lake Reservoir Watershed

SWE in inches 1

SWE in inches 1

Snotel Stations	Water	30 Yr.
(Elevation)	Content	Median ²
Elkhart Park (8,400)	9.2	11.3
Hobbs Park (10,100)	20.8	16.0
Little Warm (9,620)	8.0	8.7
Watershed Average	12.67	12.00

¹ SWE (Snow Water Content is the amount of water in the snowpack expressed in inches)

² Median for the 1981-2010 period