



**Report for January 2025  
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.**

## BIGHORN RIVER BASIN RESERVOIR INFLOW

End of January      Inflow and Historical Inflows, values in 1,000 acre-feet

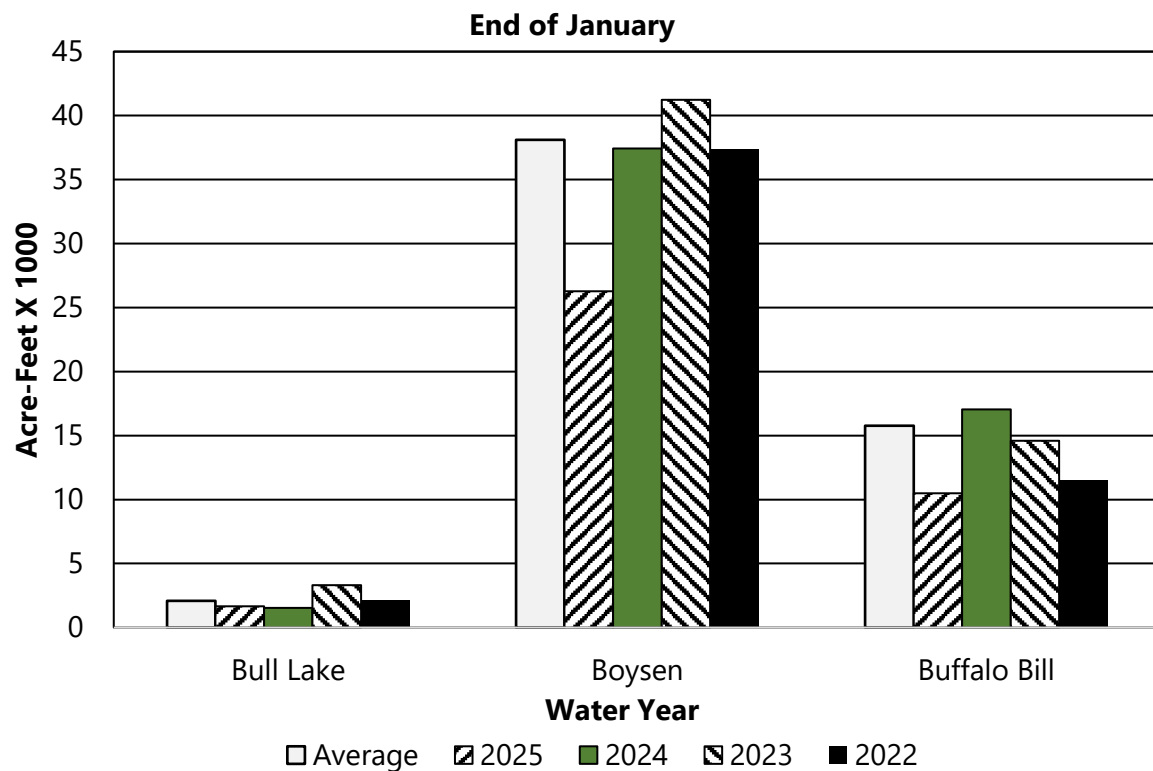
Reservoir	W. Yr. 2025	30 Yr. Avg.	% of Avg.	W. Yr. 2024	W. Yr. 2023	W. Yr. 2022
<b>Bull Lake</b>	1.7	2.1	79	1.5	3.3	2.2
<b>Boysen</b>	26.3	38.1	69	37.4	41.2	37.3
<b>Buffalo Bill</b>	10.5	15.8	67	17.0	14.6	11.5

30 year average is based on the 1995- 2024 period.

End of January      Accumulated Water Year Inflows in 1,000 acre-feet

Reservoir	W. Yr. 2025	30 Yr. Avg.	% of Avg.
<b>Bull Lake</b>	11.2	14.7	77
<b>Boysen</b>	128.1	185.5	69
<b>Buffalo Bill</b>	61.1	87.9	69

## BIGHORN RIVER BASIN RESERVOIR INFLOW



## BIGHORN RIVER BASIN RESERVOIR OUTFLOW

End of January Outflow and Historical Outflows, values in 1,000 acre-feet

Reservoir	W. Yr. 2025	30 Yr. Avg.	% of Avg.	W. Yr. 2024	W. Yr. 2023	W. Yr. 2022
Bull Lake	1.6	1.9	87	1.9	1.7	1.6
Boysen	42.8	47.3	91	62.3	57.2	43.2
Buffalo Bill	12.5	17.2	73	18.6	12.7	12.7

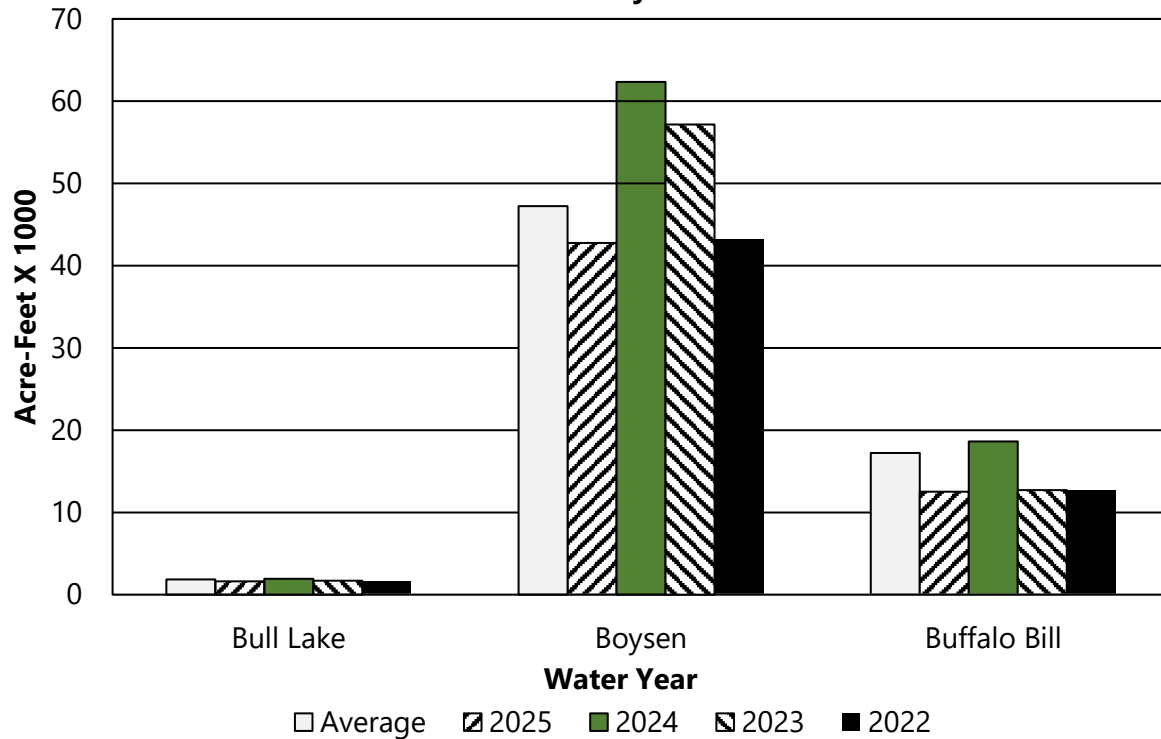
30 year average is based on the 1995- 2024 period.

End of January Accumulated Water Year Outflows in 1,000 acre-feet.

Reservoir	W. Yr. 2025	30 Yr. Avg.	% of Avg.
Bull Lake	7.8	13.0	60
Boysen	181.3	196.0	92
Buffalo Bill	89.6	99.5	90

## BIGHORN RIVER BASIN RESERVOIR OUTFLOW

End of January



## BIGHORN RIVER BASIN RESERVOIR STORAGE

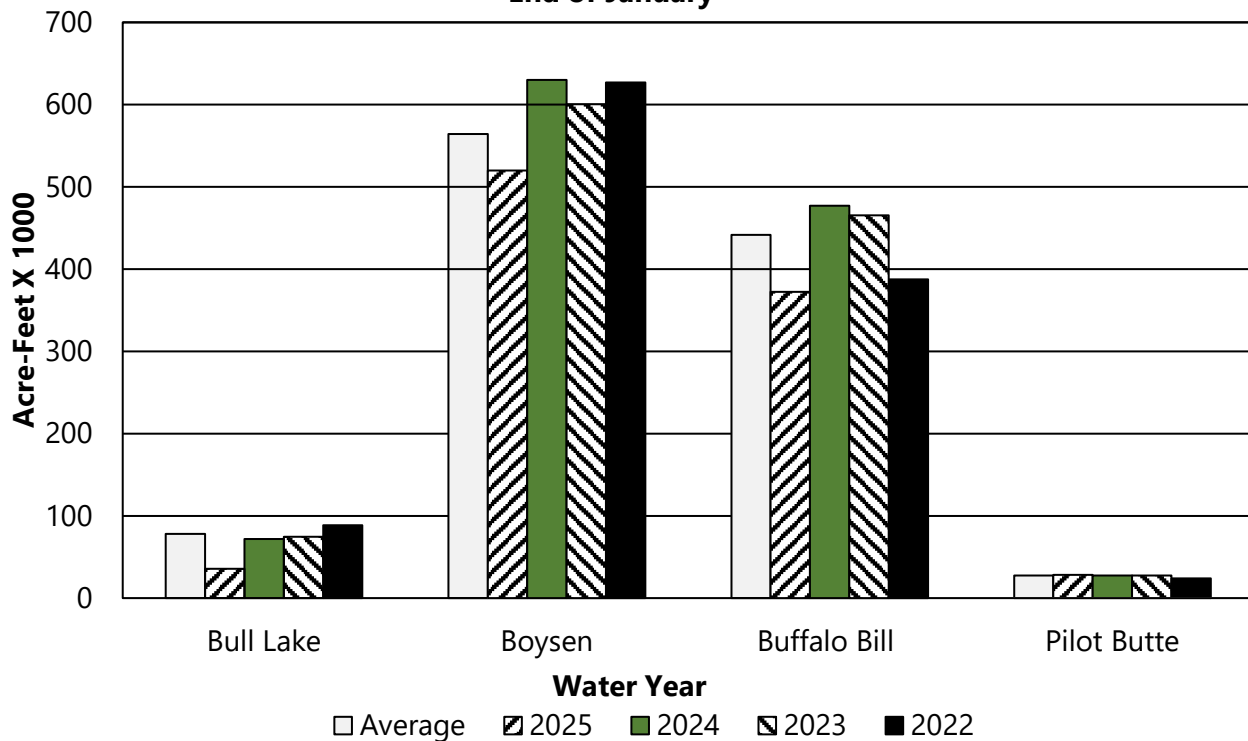
End of January      Storage, Historical Storage, and Storage Capacity in 1,000 acre-feet.

Reservoir	W. Yr. 2025	30 Yr. Avg.	% of Avg.	W. Yr. 2024	W. Yr. 2023	W. Yr. 2022	Total Conservation Storage Capacity	Percent of Capacity
<b>Bull Lake</b>	35.7	78.0	46	71.9	74.5	88.6	152.5	23
<b>Boysen</b>	520.0	564.4	92	630.2	600.6	626.8	741.6	70
<b>Buffalo Bill</b>	372.3	441.5	84	476.9	465.2	387.6	646.6	58
<b>Pilot Butte</b>	28.4	27.5	103	27.4	27.3	23.9	33.7	84

30 year average is based on the 1995- 2024 period.

## BIGHORN RIVER BASIN RESERVOIR STORAGE

End of January



## BIGHORN RIVER BASIN RESERVOIR GENERATION

End of January      Gross Generation and Historical Generation in giga-watt hours (GWH).

Reservoir	W. Yr. 2025	30 Yr. Avg.	% of Avg.	W. Yr. 2024	W. Yr. 2023	W. Yr. 2022
Boysen	3.7	3.7	100.7	5.6	4.8	3.6
Pilot Butte	0.0	0.0	NA	0.0	0.0	0.0
Heart Mtn.	0.0	0.0	NA	0.0	0.0	0.0
Buffalo Bill	0.02	1.5	1.4	0.9	0.0	0.6
Shoshone	1.6	1.5	108.2	1.8	1.7	1.3
Spirit Mtn.	0.0	0.0	NA	0.0	0.0	0.0

Th 30 year average is based on the 1995 - 2024 period. Pilot Butte Powerplant is currently in "mothballed" status and does not generate electricity. Spirit Mountain average is based on the 1996 - 2024 period.

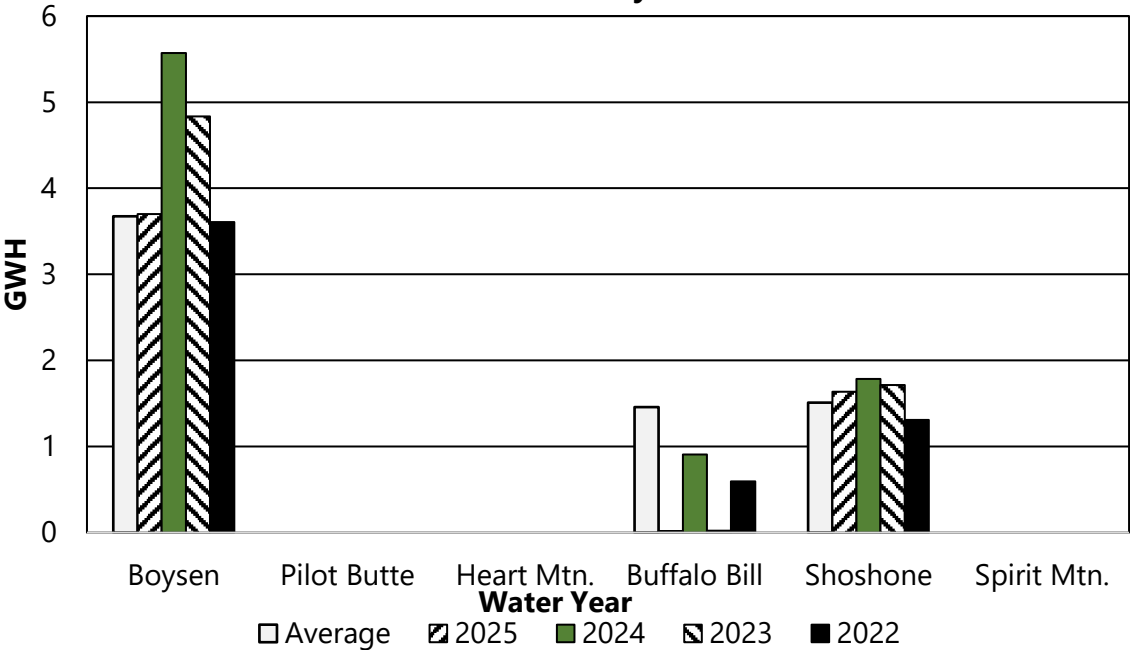
End of January      Accumulated Gross Generation Water Year in GWH.

Powerplant	W. Yr. 2025	30 Yr. Avg.	% of Avg.
Boysen	14.4	14.0	103.0
Pilot Butte	0	0.2	0
Heart Mtn.	1.9	1.1	167.7
Buffalo Bill	2.0	8.5	23.8
Shoshone	4.1	6.2	66.9
Spirit Mtn.	1.7	1.2	140.8

#

## BIGHORN RIVER BASIN GROSS GENERATION

End of January



## BIGHORN SNOWPACK WATER CONTENT

February 1st Snow Water Equivalent

SWE in inches

WATERSHED	W. Yr. 2025	30 Yr. Median	% of Median	W. Yr. 2024	W. Yr. 2023	W. Yr. 2022
Bull Lake Reservoir	5.5	7.3	75%	6.0	8.2	6.1
Boysen Reservoir	5.5	8.4	66%	6.6	8.7	8.8
Buffalo Bill Reservoir	7.8	11.5	68%	8.3	10.8	10.5

### Boysen Reservoir Watershed

SWE in inches

Snotel Stations (Elevation)	Water Content	30 Yr. Median
Burroughs Creek (8,750)	4.9	8.5
Hobbs Park (10,100)	5.4	7.9
Kirwin (9,800)	3.6	6.8
Little Warm (9,620)	4.7	6.3
Togwotee Pass (9,580)	11.3	14.6
Townsend Creek (8,700)	4.2	5.2
Younts Peak (8,350)	4.4	9.2
<b>Watershed Average</b>	<b>5.5</b>	<b>8.4</b>

### Buffalo Bill Reservoir Watershed

SWE in inches

Snotel Stations (Elevation)	Water Content	30 Yr. Median
Blackwater (9,780)	10.4	14.7
Evening Star (9,200)	10.8	17.5
Marquette (8,760)	4.2	4.2
Sylvan Lake (8,420)	8.9	12.5
Sylvan Road (8,120)	4.8	8.0
Togwotee Pass (9,580)	11.3	14.6
Younts Peak (8,350)	4.4	9.2
<b>Watershed Average</b>	<b>7.8</b>	<b>11.5</b>

### Bull Lake Reservoir Watershed

SWE in inches

Snotel Stations (Elevation)	Water Content	30 Yr. Median
Elkhart Park (8,400)	6.3	7.6
Hobbs Park (10,100)	5.4	7.9
Little Warm (9,620)	4.7	6.3
<b>Watershed Average</b>	<b>5.5</b>	<b>7.3</b>

SWE (Snow Water Content is the amount of water in the snowpack expressed in inches).  
Median for the 1991-2020 period.

## FEBRUARY BIGHORN WATER SUPPLY FORECAST

April through July Forecast and Historical Runoff Volumes KAF

Forecast Points	Forecast Reasonable Minimum	Forecast Expected	Forecast Reasonable Maximum	30 Yr. April - July Avg.	Expected % of Avg.	Actual April-July Runoff 2022	Actual April - July Runoff 2023	Actual April - July Runoff 2024
Bull Lake Reservoir	90	120	180	147	82	141	187	127
Wind River above Bull Lake Creek	210	350	480	445	79	349	523	347
Boysen Reservoir	220	450	800	633	71	488	1058	457
Buffalo Bill Reservoir	400	550	850	761	72	770	765	619

The probability is estimated to be 9 chances in 10 that the actual volume will fall between the reasonable minimum and reasonable maximum. Average is based on the 1994-2023 period.

Exceedance Forecast:

Forecast Points	90%	70%	50%	% of Avg	30%	10%	30 Yr. April - July Runoff Avg.
Bull Lake Reservoir	90	108	120	82	145	180	147
Wind River above Bull Lake Creek	210	293	350	79	403	480	445
Boysen Reservoir	220	356	450	71	593	800	633
Buffalo Bill Reservoir	400	489	550	72	673	850	761

Average is based on the 1995-2024 period.