

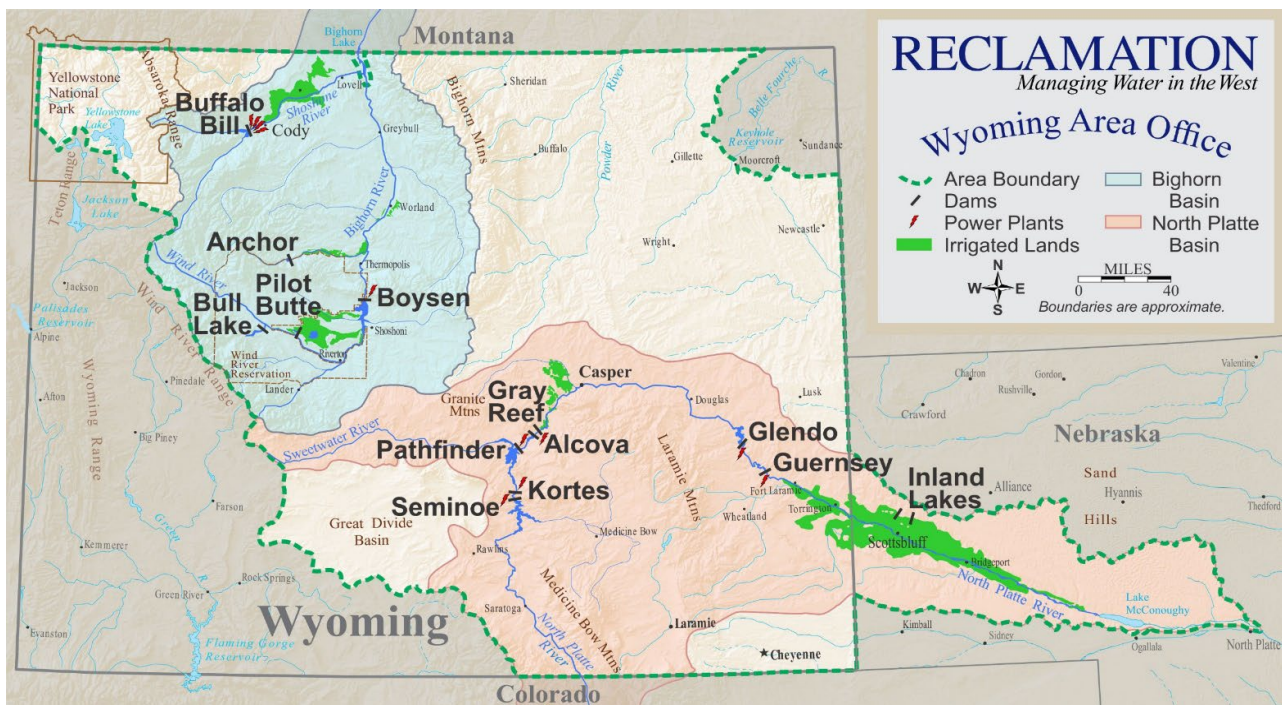


— BUREAU OF —
RECLAMATION

Bighorn Basin Water Supply and Utilization Report

Wyoming Area Office

Report for October 2023



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.

**Report for October 2023
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 October Inflow and Historical Inflows, values in 1,000 acre-feet

Reservoir	W. Yr. 2024	30 Yr. Avg.	% of Avg.	W. Yr. 2023	W. Yr. 2022	W. Yr. 2021
Bull Lake	8.6	6.5	132	7.5	9.3	3.4
Boysen	92.6	56.6	164	53.3	62.0	32.4
Buffalo Bill	53.3	29.2	183	30.6	23.2	32.8

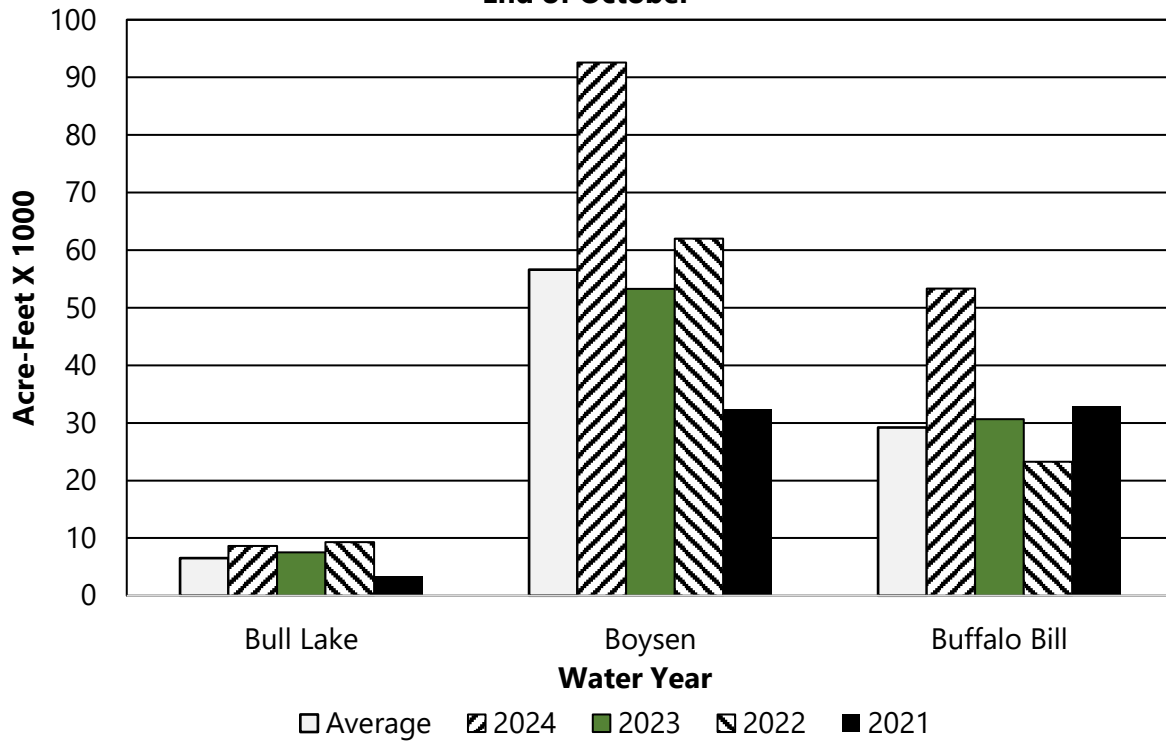
30 year average is based on the 1994- 2023 period.

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

Reservoir	W. Yr. 2024	30 Yr. Avg.	% of Avg.
Bull Lake	8.6	6.5	132
Boysen	92.6	56.6	164
Buffalo Bill	53.3	29.2	183

BIGHORN RIVER BASIN RESERVOIR INFLOW

End of October



BIGHORN RIVER BASIN RESERVOIR OUTFLOW

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

Reservoir	W. Yr. 2024	30 Yr. Avg.	% of Avg.	W. Yr. 2023	W. Yr. 2022	W. Yr. 2021
Bull Lake	18.3	6.4	285	2.3	1.6	1.9
Boysen	86.9	53.1	164	55.4	48.5	43.2
Buffalo Bill	53.7	43.8	123	50.4	44.6	56.2

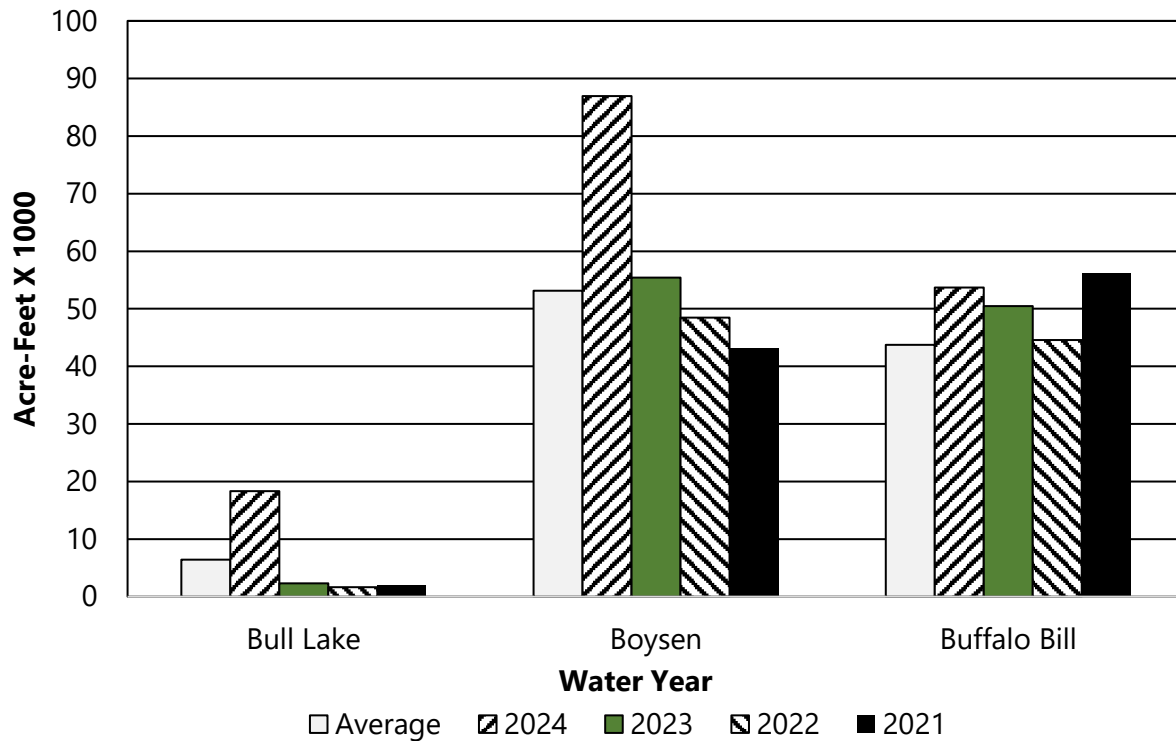
30 year average is based on the 1994- 2023 period.

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

Reservoir	W. Yr. 2023	30 Yr. Avg.	% of Avg.
Bull Lake	18.3	6.4	285
Boysen	86.9	53.1	164
Buffalo Bill	53.7	43.8	123

BIGHORN RIVER BASIN RESERVOIR OUTFLOW

End of October



BIGHORN RIVER BASIN RESERVOIR STORAGE

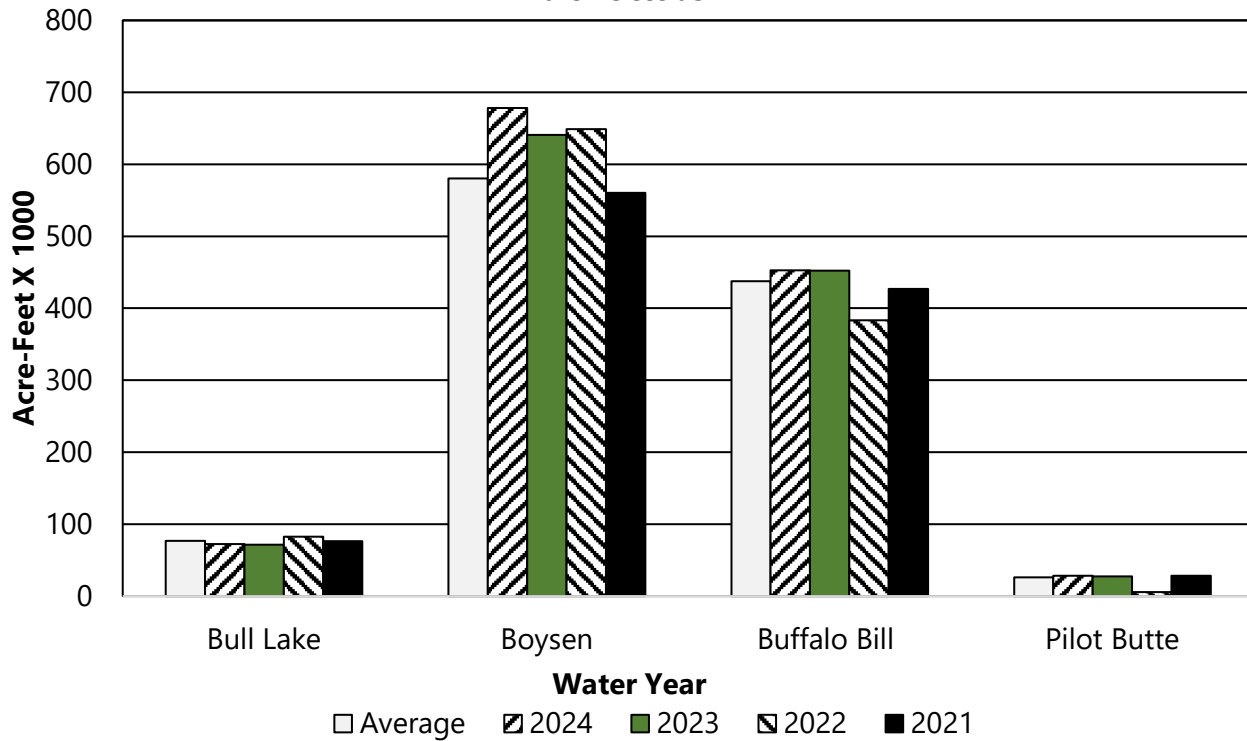
End of October Storage, Historical Storage, and Storage Capacity, in 1,000 acre-feet.

Reservoir	W. Yr. 2024	30 Yr. Avg.	% of Avg.	W. Yr. 2023	W. Yr. 2022	W. Yr. 2021	Total Conservation Storage Capacity	Percent of Capacity
Bull Lake	72.5	76.9	94	71.4	82.4	76.3	152.5	48
Boysen	678.4	580.5	117	641.0	648.7	560.5	741.6	91
Buffalo Bill	452.7	437.5	103	452.1	383.4	426.7	646.6	70
Pilot Butte	28.3	26.2	108	27.4	5.5	28.1	33.7	84

30 year average is based on the 1994- 2023 period.

BIGHORN RIVER BASIN RESERVOIR STORAGE

End of October



BIGHORN RIVER BASIN RESERVOIR GENERATION

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

Reservoir	W. Yr. 2024	30 Yr. Avg.	% of Avg.	W. Yr. 2023	W. Yr. 2022	W. Yr. 2021
Boysen	6.7	3.6	187.1	2.7	2.6	2.4
Pilot Butte	0.0	0.2	0.0	0.0	0.0	0.0
Heart Mtn.	2.0	1.1	190.1	1.9	1.2	1.7
Buffalo Bill	3.7	3.4	108.4	1.8	2.1	2.4
Shoshone	1.5	1.6	89.4	1.6	1.5	1.6
Spirit Mtn.	1.6	1.2	130.3	1.8	1.2	1.7

The 30 year average is based on the 1994 - 2023 period. Pilot Butte Powerplant is currently in "mothballed" status and does not generate electricity. Spirit Mountain average is based on the 1996 - 2023 period.

End of October Accumulated Gross Generation Water Year in GWH.

Powerplant	W. Yr. 2024	30 Yr. Avg.	% of Avg.
Boysen	6.7	3.6	187.1
Pilot Butte	0	0.2	0
Heart Mtn.	2.0	1.1	190.1
Buffalo Bill	3.7	3.4	108.4
Shoshone	1.5	1.6	89.4
Spirit Mtn.	1.6	1.2	130.3

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BIGHORN RIVER BASIN GROSS GENERATION

End of October

