

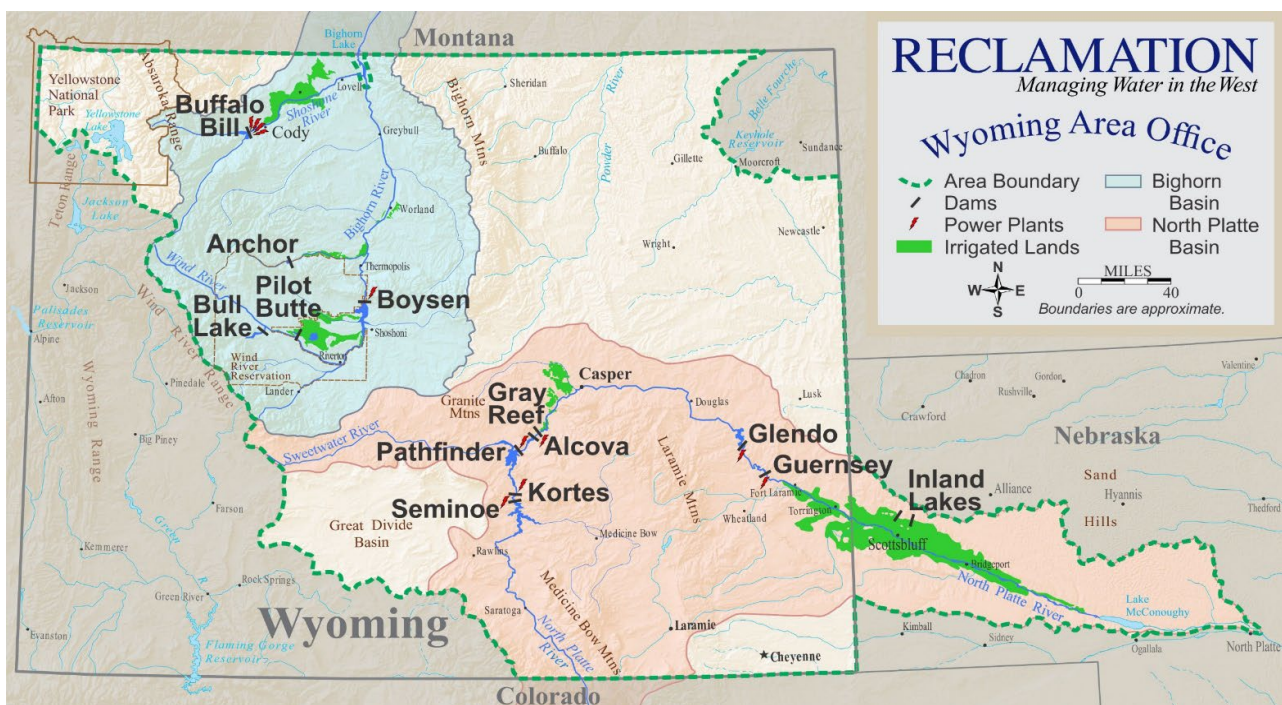


— BUREAU OF —
RECLAMATION

Bighorn Basin Water Supply and Utilization Report

Wyoming Area Office

Report for May 2025



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 May 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 May 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
Bull Lake	28.2	29.1	97	21.2	46.2	22.0
Boysen	97.3	143.1	68	97.0	251.6	88.1
Buffalo Bill	189.5	188.8	100	140.2	243.2	133.9

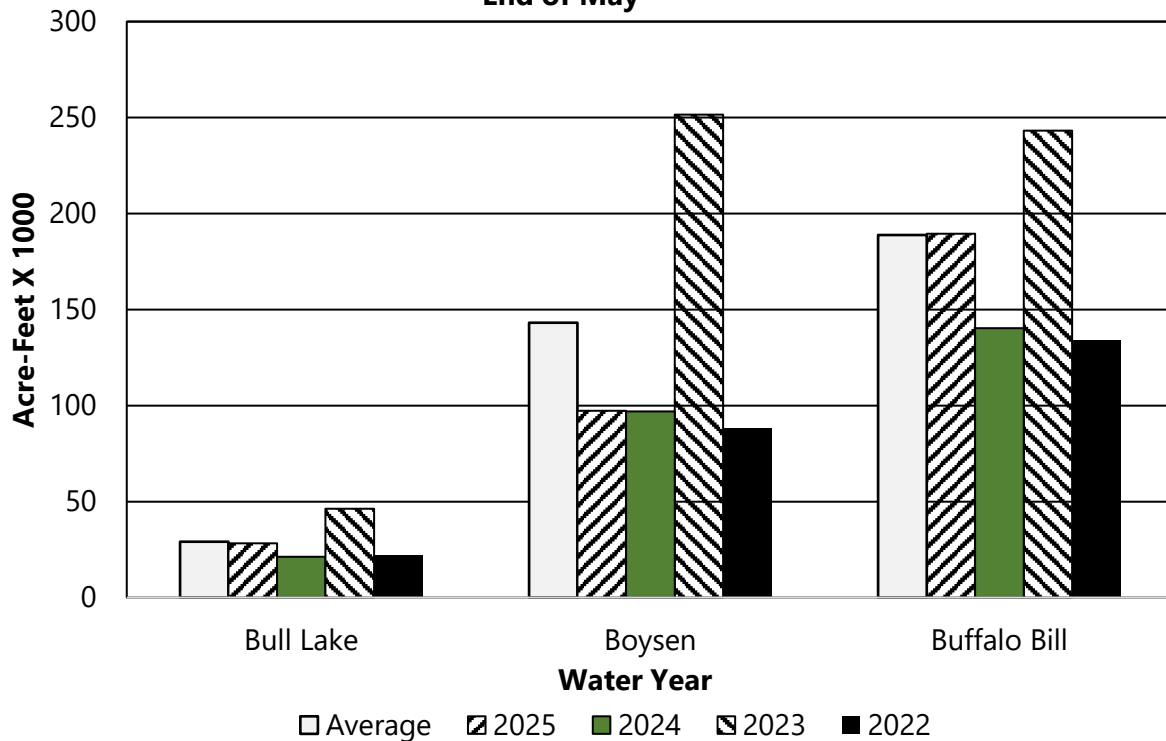
30 year average is based on the 1995- 2024 period.

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

Reservoir	W. Yr. 2025	30 Yr. Avg.	% of Avg.
Bull Lake	48.9	51.9	94
Boysen	350.1	473.7	74
Buffalo Bill	332.4	359.1	93

BIGHORN RIVER BASIN RESERVOIR INFLOW

End of May



BIGHORN RIVER BASIN RESERVOIR OUTFLOW

End of May 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	3.2	13.4	24	5.8	17.7	6.8
Boysen	65.4	123.7	53	132.8	146.7	113.6
Buffalo Bill	105.8	140.0	76	124.9	127.0	113.0

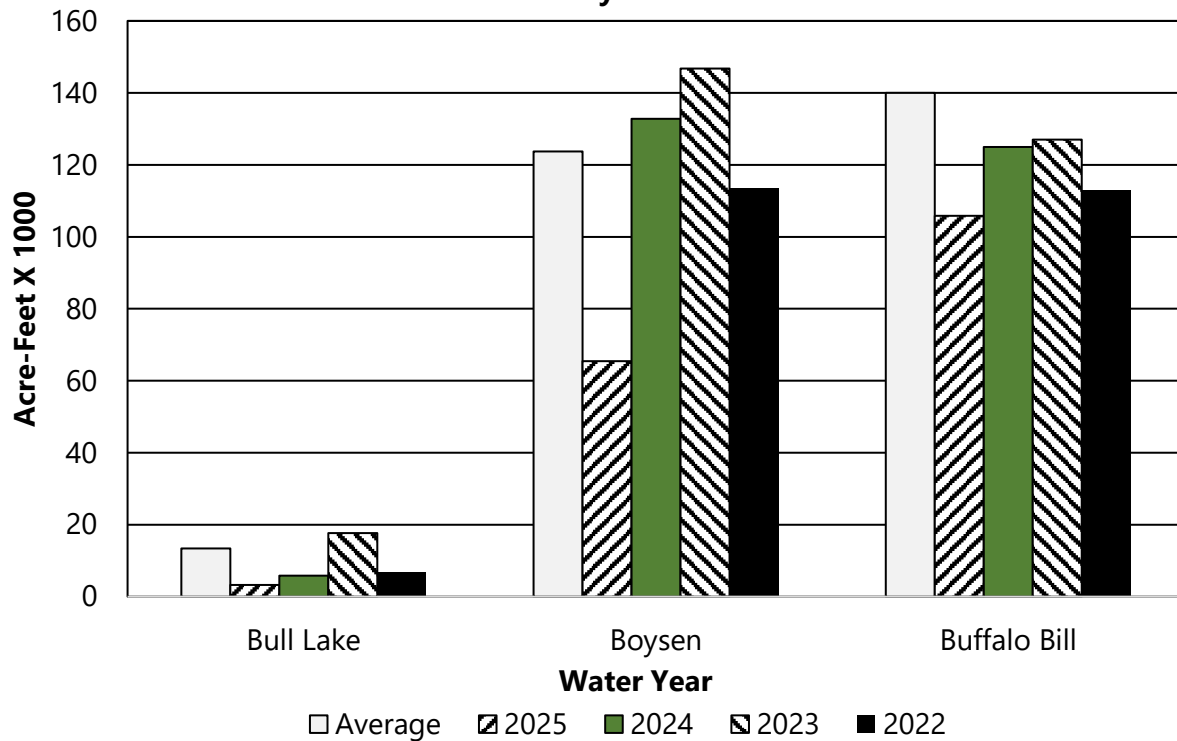
30 year average is based on the 1995- 2024 period.

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

Reservoir	W. Yr. 2025	30 Yr. Avg.	% of Avg.
Bull Lake	15.5	33.0	47
Boysen	377.1	500.1	75
Buffalo Bill	267.6	357.3	75

BIGHORN RIVER BASIN RESERVOIR OUTFLOW

End of May



BIGHORN RIVER BASIN RESERVOIR STORAGE

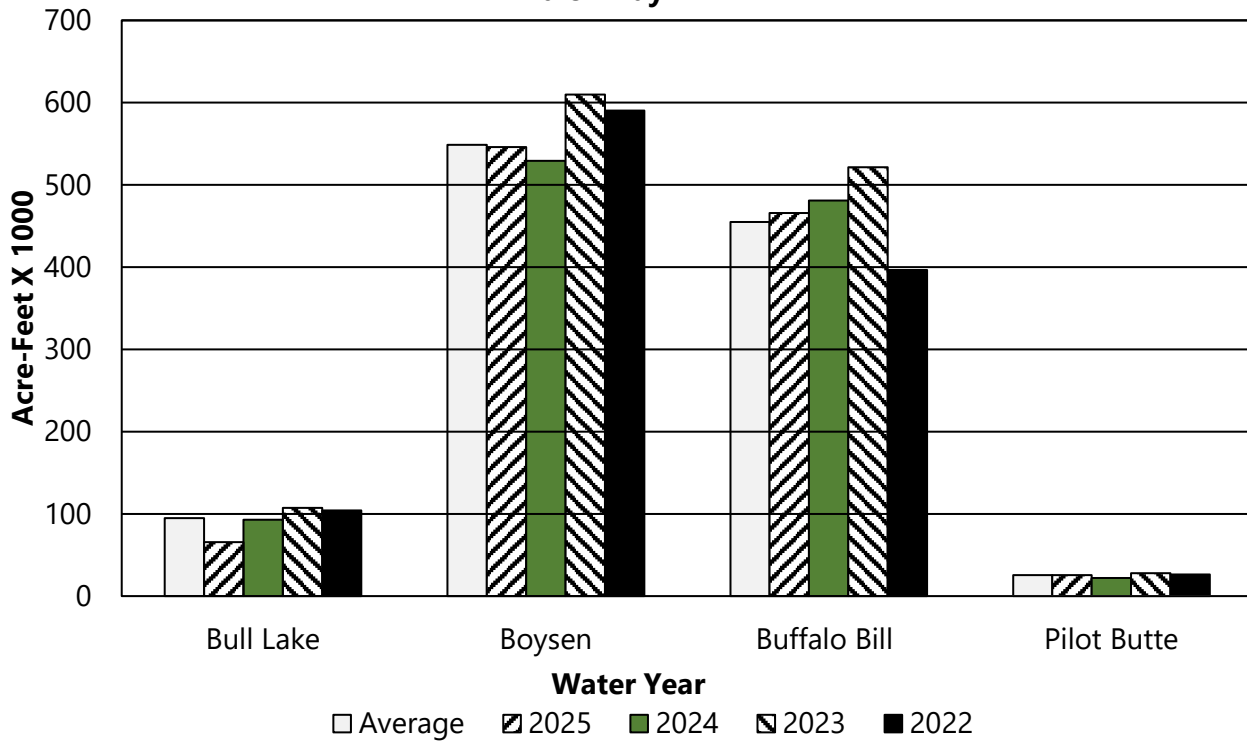
End of May Storage, Historical Storage, and Storage Capacity in 1,000 acre-feet.

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
Bull Lake	65.7	95.0	69	92.8	107.1	104.2	152.5	43
Boysen	546.1	548.7	100	529.1	609.7	590.2	741.6	74
Buffalo Bill	465.6	454.7	102	481.0	521.4	396.3	646.6	72
Pilot Butte	25.6	25.6	100	22.0	27.7	26.5	33.7	76

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

BIGHORN RIVER BASIN RESERVOIR STORAGE

End of May



BIGHORN RIVER BASIN RESERVOIR GENERATION

End of May 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	5.0	7.7	64.9	10.4	10.1	8.6
Pilot Butte	0.0	0.1	0.0	0.0	0.0	0.0
Heart Mtn.	2.4	2.9	80.7	3.7	3.7	1.7
Buffalo Bill	10.7	10.8	99.6	11.6	12.4	12.0
Shoshone	1.7	1.8	91.7	1.7	1.8	1.5
Spirit Mtn.	2.5	2.2	116.3	2.8	2.6	2.2

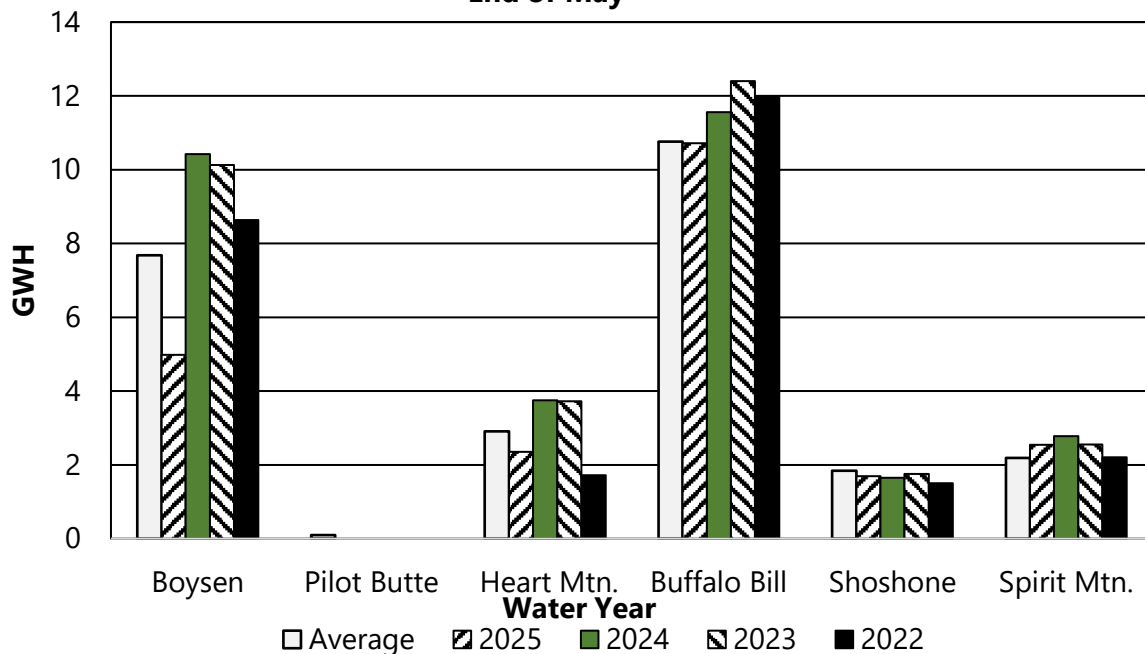
The 30 year average is based on the 1995 - 2024 period. Pilot Butte Powerplant is currently in "mothballed" status and does not generate electricity. Spirit Mountain average is based on the 1996 - 2024 period.

End of May Accumulated Gross Generation Water Year in GWH.

Powerplant	W. Yr. 2025	30 Yr. Avg.	% of Avg.
Boysen	27.0	34.2	79.0
Pilot Butte	0	0.3	0
Heart Mtn.	5.3	5.0	105.5
Buffalo Bill	17.9	32.1	55.7
Shoshone	10.5	12.1	87.0
Spirit Mtn.	5.3	3.8	139.9

BIGHORN RIVER BASIN GROSS GENERATION

End of May



BIGHORN SNOWPACK WATER CONTENT

June 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	1.3	1.8	72%	5.1	2.0	6.1
Boysen Reservoir	1.7	3.5	49%	4.4	1.9	8.8
Buffalo Bill Reservoir	4.4	8.7	50%	8.8	3.6	10.5

Boysen Reservoir Watershed

SWE in inches

Snotel Stations (Elevation)	Water Content	30 Yr. Median
Burroughs Creek (8,750)	0	0
Hobbs Park (10,100)	3.9	5.4
Kirwin (9,800)	0	0.4
Little Warm (9,620)	0	0
Togwotee Pass (9,580)	8.1	18.5
Townsend Creek (8,700)	0	0
Younts Peak (8,350)	0	0
Watershed Average	1.7	3.5

Buffalo Bill Reservoir Watershed

SWE in inches

Snotel Stations (Elevation)	Water Content	30 Yr. Median
Blackwater (9,780)	11.9	19.6
Evening Star (9,200)	10.7	17.9
Marquette (8,760)	0.0	0.0
Sylvan Lake (8,420)	0.0	4.9
Sylvan Road (8,120)	0.0	0.0
Togwotee Pass (9,580)	8.1	18.5
Younts Peak (8,350)	0.0	0.0
Watershed Average	4.4	8.7

Bull Lake Reservoir Watershed

SWE in inches

Snotel Stations (Elevation)	Water Content	30 Yr. Median
Elkhart Park (8,400)	0.0	0
Hobbs Park (10,100)	3.9	5.4
Little Warm (9,620)	0	0
Watershed Average	1.3	1.8

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

MAY BIGHORN WATER SUPPLY FORECAST

June through July Forecast and Historical Runoff Volumes KAF

Forecast Points	Forecast Reasonable Minimum	Forecast Expected	Forecast Reasonable Maximum	30 Yr. June-July Med.	Expected % of Med.	Actual June- July Runoff 2022	Actual June - July Runoff 2023	Actual June - July Runoff 2024
Bull Lake Reservoir	75	94	110	113	83	116	136	99
Wind River above Bull Lake Creek	180	220	300	290	76	271	372	245
Boysen Reservoir	100	240	420	388	62	363	714	297
Buffalo Bill Reservoir	280	320	450	486	66	612	486	415

The probability is estimated to be 9 chances in 10 that the actual volume will fall between the reasonable minimum and reasonable maximum. Median is based on the 1995-2024 period.

Exceedance Forecast:

Forecast Points	90%	70%	50%	% of Med.	30%	10%	30 Yr. June- July Med.
Bull Lake Reservoir	75	86	94	83	101	110	113
Wind River above Bull Lake Creek	180	204	220	76	253	300	290
Boysen Reservoir	100	183	240	62	314	420	388
Buffalo Bill Reservoir	280	304	320	66	373	450	486

Median is based on the 1995-2024 period.