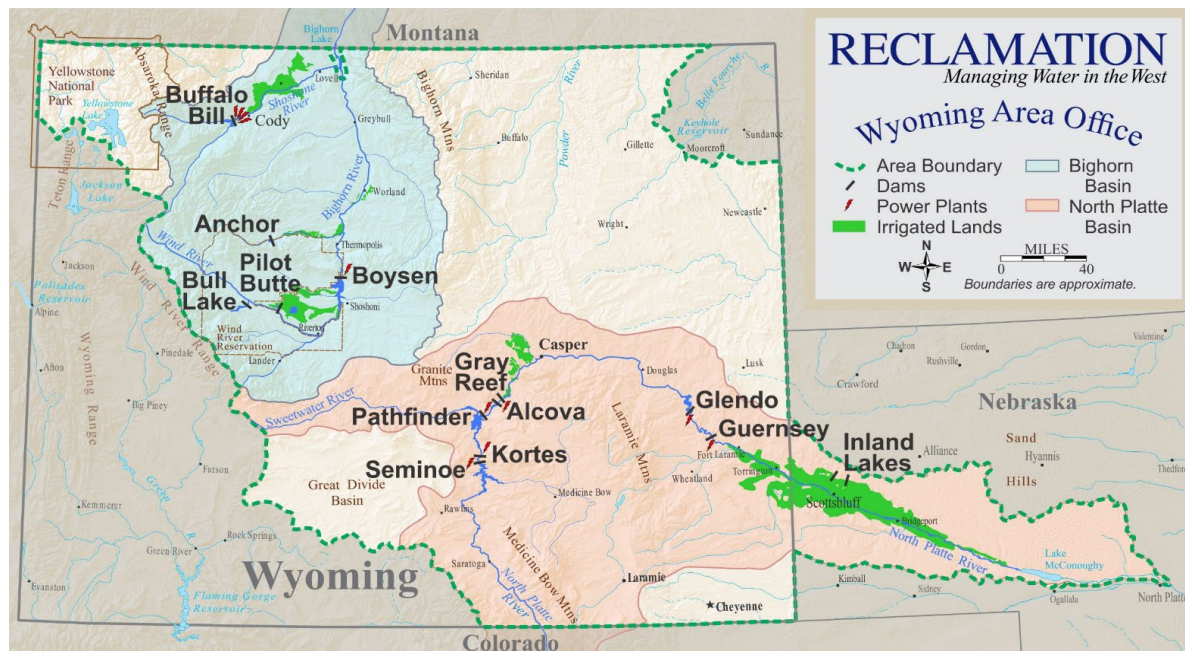




BUREAU OF RECLAMATION

Bighorn Basin Water Supply and Utilization Report Wyoming Area Office Report for July 2022



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
P.O. Box 1630
Mills, Wyoming 82644-1630

**Report for July 2022
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 July Inflow and Historical Inflows, values in 1,000 acre-feet

| Reservoir | 2022 | 30 Yr. Avg. | % of Avg. | 2021 | 2020 | 2019 |
|---------------------|-------|-------------|-----------|------|-------|-------|
| Bull Lake | 40.4 | 44.9 | 90 | 25.4 | 33.1 | 55.0 |
| Boysen | 77.3 | 133.6 | 58 | 39.7 | 79.8 | 163.8 |
| Buffalo Bill | 168.4 | 173.2 | 97 | 63.3 | 149.9 | 270.3 |

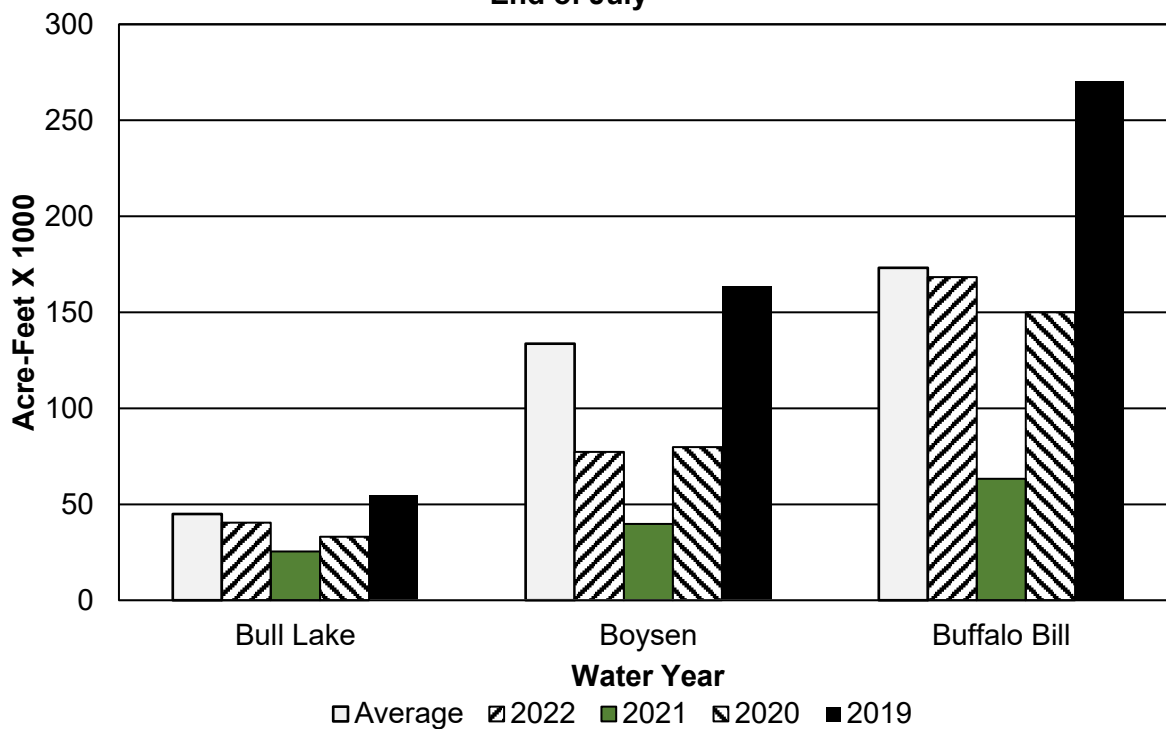
30 year average is based on the 1992- 2021 period.

End of July Accumulated Water Year Inflows

| Reservoir | W. Yr. 2022 | 30 Yr. Avg. | % of Avg. |
|---------------------|-------------|-------------|-----------|
| Bull Lake | 163.5 | 160.2 | 102 |
| Boysen | 735.5 | 878.9 | 84 |
| Buffalo Bill | 861.3 | 860.7 | 100 |

BIGHORN RIVER BASIN RESERVOIR INFLOW

End of July



BIGHORN RIVER BASIN RESERVOIR OUTFLOW

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

| Reservoir | 2022 | 30 Yr. Avg. | % of Avg. | 2021 | 2020 | 2019 |
|---------------------|-------|-------------|-----------|-------|-------|-------|
| Bull Lake | 48.2 | 42.6 | 113 | 45.9 | 34.9 | 16.0 |
| Boysen | 107.0 | 152.6 | 70 | 73.4 | 85.7 | 208.1 |
| Buffalo Bill | 177.4 | 175.0 | 101 | 123.8 | 184.4 | 269.8 |

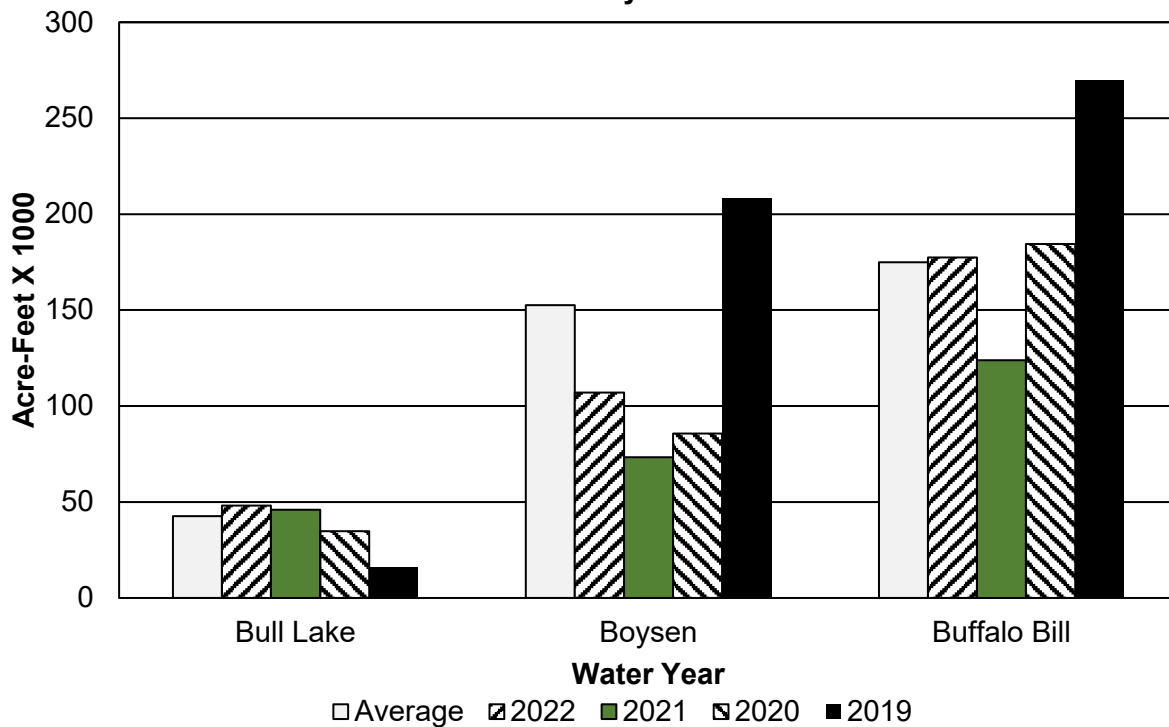
30 year average is based on the 1992- 2021 period.

End of July Accumulated Water Year Outflows

| Reservoir | W. Yr. 2022 | 30 Yr. Avg. | % of Avg. |
|---------------------|-------------|-------------|-----------|
| Bull Lake | 98.7 | 104.7 | 94 |
| Boysen | 675.8 | 822.3 | 82 |
| Buffalo Bill | 654.2 | 724.7 | 90 |

BIGHORN RIVER BASIN RESERVOIR OUTFLOW

End of July



BIGHORN RIVER BASIN RESERVOIR STORAGE

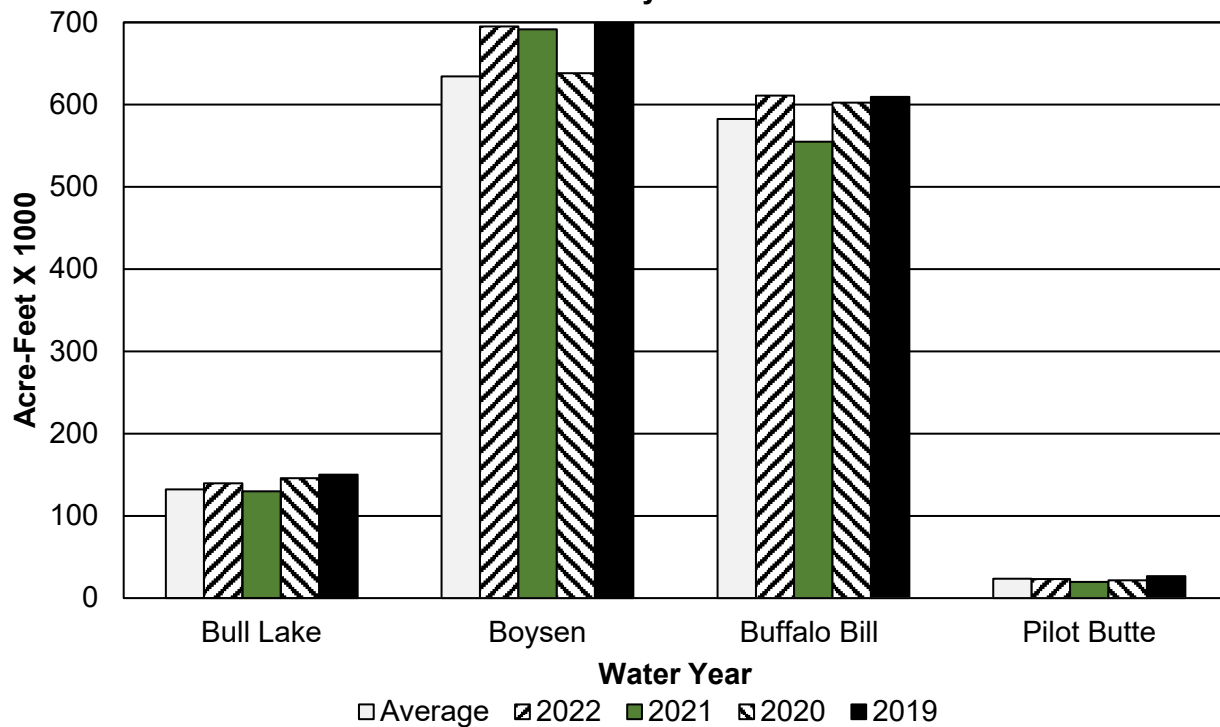
End of July Storage, Historical Storage, and Storage Capacity

| Reservoir | 2022 | 30 Yr. Avg. | % of Avg. | 2021 | 2020 | 2019 | Total Conservation Storage Capacity | Percent of Capacity |
|---------------------|-------|-------------|-----------|-------|-------|-------|-------------------------------------|---------------------|
| Bull Lake | 139.5 | 132.1 | 106 | 129.9 | 145.9 | 150.1 | 152.5 | 91 |
| Boysen | 694.9 | 634.5 | 110 | 691.5 | 638.4 | 719.1 | 741.6 | 94 |
| Buffalo Bill | 610.9 | 582.6 | 105 | 554.8 | 602.2 | 609.6 | 646.6 | 94 |
| Pilot Butte | 23.3 | 23.6 | 98 | 19.7 | 21.5 | 26.5 | 33.7 | 69 |

Average is based on the 1992-2021 period, except Buffalo Bill Reservoir. The average for Buffalo Bill is based on the period, 1993 - 2021. In 1992 the capacity of Buffalo Bill Reservoir was increased to approximately 646,565 acre-feet as a result of raising the dam.

BIGHORN RIVER BASIN RESERVOIR STORAGE

End of July



BIGHORN RIVER BASIN RESERVOIR GENERATION

End of July Gross Generation and Historical Generation

| Powerplant | 2022 | 30 Yr. Avg. | % of Avg. | 2021 | 2020 | 2019 |
|--------------|------|-------------|-----------|------|------|------|
| Boysen | 7.7 | 7.6 | 102.1 | 6.3 | 7.5 | 4.5 |
| Pilot Butte | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| Heart Mtn. | 3.1 | 2.9 | 105.8 | 2.3 | 3.2 | 3.4 |
| Buffalo Bill | 12.9 | 11.9 | 108.7 | 12.0 | 13.6 | 13.6 |
| Shoshone | 2.0 | 2.1 | 96.3 | 1.7 | 2.0 | 2.1 |
| Spirit Mtn. | 2.7 | 3.2 | 82.8 | 3.2 | 3.2 | 3.3 |

Boysen average based on the 1992 - 2021 period. Pilot Butte average based on the 1992 2021 period. Pilot Butte Powerplant is currently in "mothballed" status and does not generate electricity. Heart Mountain, Buffalo Bill, and Shoshone averages are based on the 1993 - 2021 period. Spirit Mountain average is based on the 1996 - 2021 period.

End of July Accumulated Gross Generation Water Year

| Powerplant | W. Yr. 2022 | 30 Yr. Avg. | % of Avg. |
|--------------|-------------|-------------|-----------|
| Boysen | 50.4 | 48.9 | 103.0 |
| Pilot Butte | 0 | 1.1 | n/a |
| Heart Mtn. | 8.1 | 10.4 | 78.0 |
| Buffalo Bill | 45.8 | 55.5 | 82.5 |
| Shoshone | 14.4 | 16.2 | 89.2 |
| Spirit Mtn. | 9.1 | 9.7 | 93.3 |

BIGHORN RIVER BASIN GROSS GENERATION

End of July

