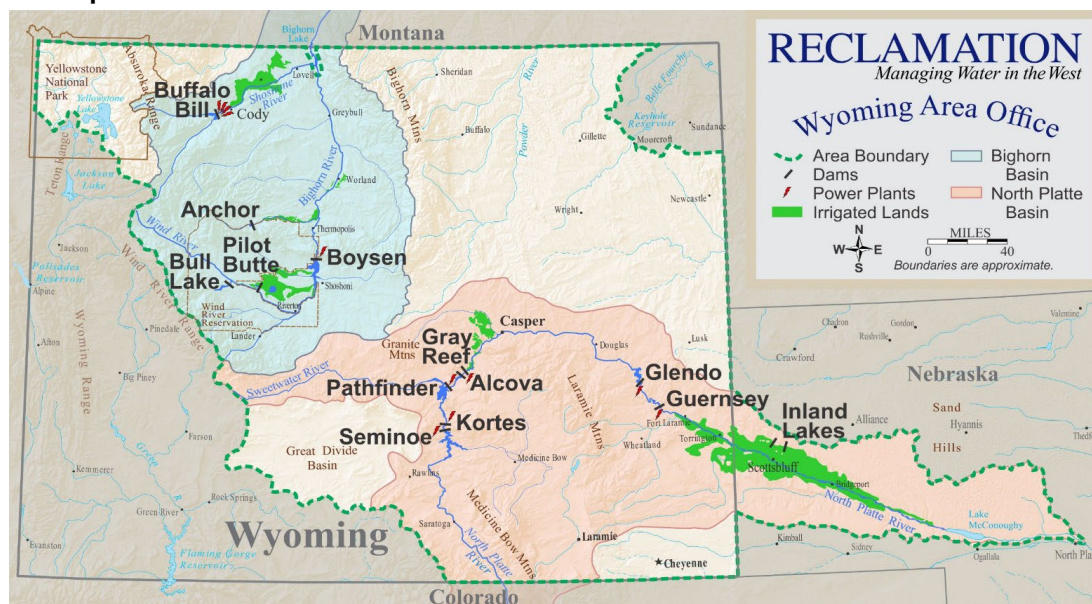




# BUREAU OF RECLAMATION

## North Platte River Basin Water Supply and Utilization Report Wyoming Area Office Report for December 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 December 2023**  
**WATER SUPPLY AND UTILIZATION REPORT**  
**NORTH PLATTE RIVER BASIN**  
**WYOMING AREA OFFICE**

**This report concerns the operation of Reclamation facilities in the North Platte River 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 Missouri Basin and Arkansas-Rio Grande-Texas Gulf Regions Home Page at <http://www.usbr.gov/gp>**
- 2. Select Water Operations.**
- 3. Select Water Management Information.**
- 4. Select Water Supply Report.**
- 5. Under North Platte River Basin, select the current report or reports from the previous 12 months.**

## NORTH PLATTE RIVER BASIN INFLOW

December Inflow and Historical Inflows, values in 1,000 acre-feet

Reservoir	W. Yr. 2024	30 Yr. Avg. <sup>5</sup>	% of Avg.	W. Yr. 2023	W. Yr. 2022	W. Yr. 2021
Seminole	24.9	26.0	96%	20.4	24.1	20.1
Pathfinder <sup>1,2</sup>	4.9	4.6	107%	2.3	-2.3	-1.4
Glendo <sup>3</sup>	9.3	7.0	134%	3.9	6.4	7.0
Guernsey <sup>4</sup>	1.2	1.4	91%	1.1	1.1	1.3
<b>System Total</b>	<b>40.3</b>	<b>38.9</b>	<b>104%</b>	<b>27.8</b>	<b>29.3</b>	<b>27.0</b>

1 It is assumed that there is no gain between Seminole and Kortes Dams.

2 River gain between Kortes and Pathfinder Dams.

3 River gain between Pathfinder and Glendo Dams.

4 River gain between Glendo and Guernsey Dams.

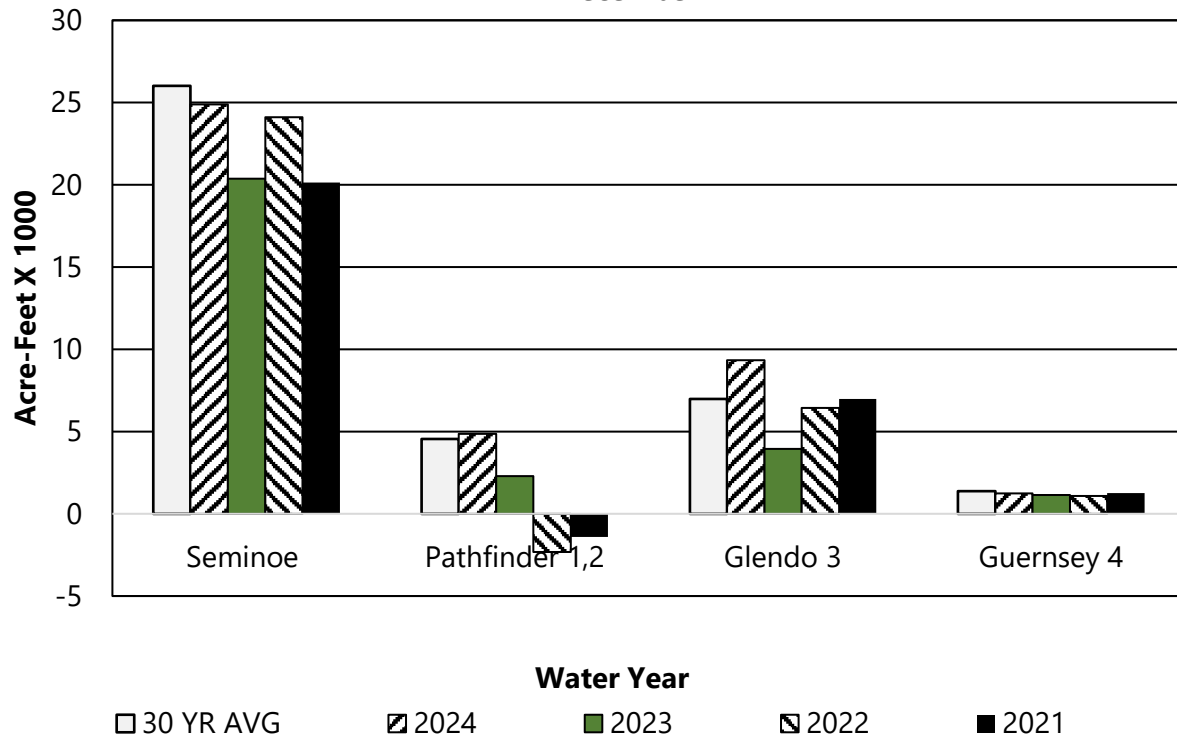
5 30 year average. (1994-2023)

December Accumulated Water Year Inflows, values in 1,000 acre-feet

Reservoir	W. Yr. 2024	30 Yr. Avg.	% of Avg.
Seminole	70.6	83.0	85%
Pathfinder	9.5	12.8	74%
Glendo	32.1	26.4	121%
Guernsey	4.9	5.3	92%
<b>System Total</b>	<b>117.1</b>	<b>127.5</b>	<b>92%</b>

## NORTH PLATTE RIVER BASIN RESERVOIR INFLOW

December



## NORTH PLATTE RIVER BASIN OUTFLOW

December

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

Reservoir	W. Yr. 2024	30 Yr. Avg. 1	% of Avg.	W. Yr. 2023	W. Yr. 2022	W. Yr. 2021
Seminole	33.2	39.6	84%	32.9	35.5	50.2
Kortes	33.2	39.6	84%	32.9	35.4	50.2
Pathfinder	31.3	34.0	92%	28.3	28.1	82.6
Alcova	30.8	32.7	94%	27.6	27.7	37.0
Gray Reef	30.8	32.7	94%	27.7	27.7	37.0
Glendo	1.7	1.6	107%	1.4	0.1	1.5
Guernsey	0.2	0.4	37%	0.1	1.1	0.1

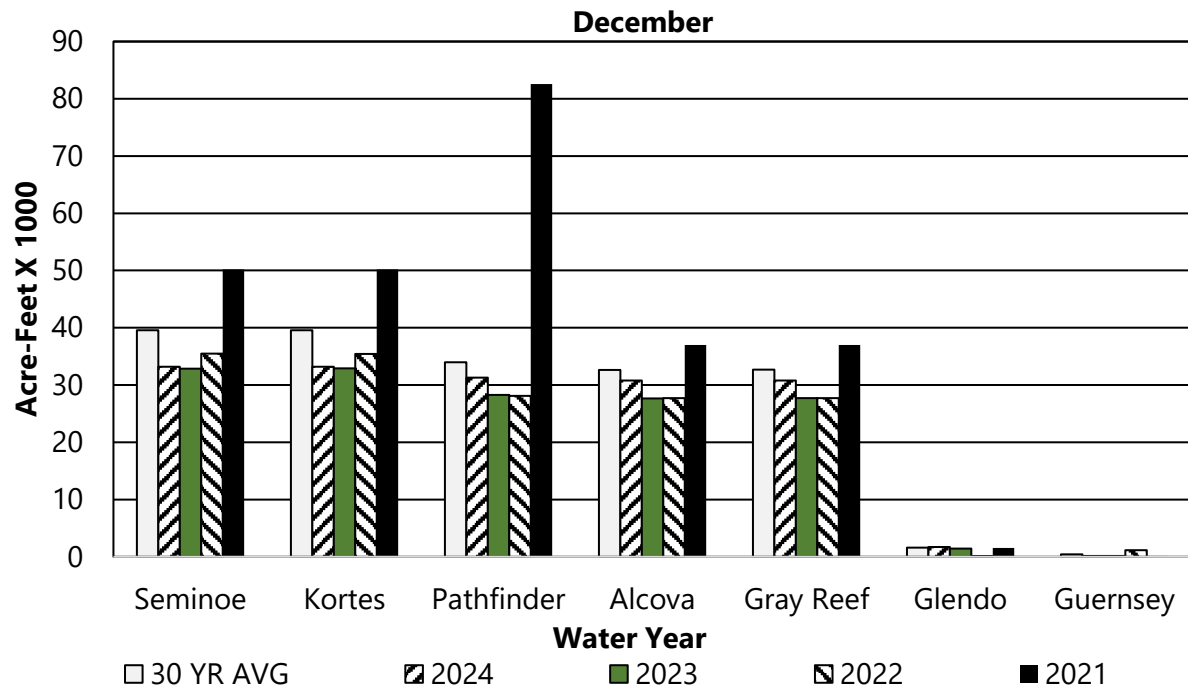
1. 30 year average is based on the 1994- 2023 period.

December

Accumulated Water Year Outflows, values in 1,000 acre-feet

Reservoir	W. Yr. 2024	30 Yr. Avg. 2	% of Avg.
Seminole	100.1	113.6	88%
Kortes	100.0	113.6	88%
Pathfinder	68.4	78.4	87%
Alcova	91.5	101.6	90%
Gray Reef	91.3	101.5	90%
Glendo	5.5	5.0	110%
Guernsey	0.4	3.1	13%

## NORTH PLATTE RIVER BASIN RESERVOIR OUTFLOW



## NORTH PLATTE RIVER BASIN RESERVOIR STORAGE

December

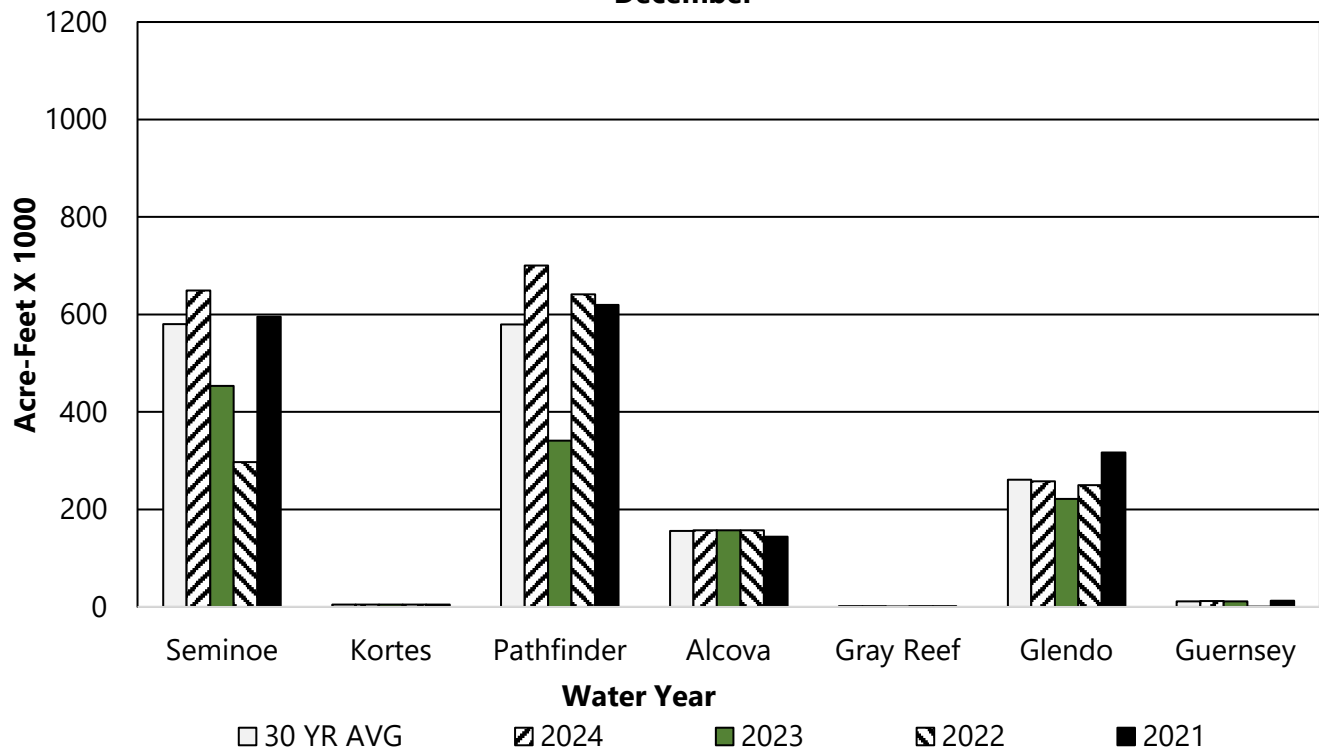
Storage, Historical Storage, and Storage Capacity in 1,000 acre-feet

Reservoir	W. Yr. 2024	30 Yr. Avg. <sup>1</sup>	% of Avg.	W. Yr. 2023	W. Yr. 2022	W. Yr. 2021	Total Conservation Storage Capacity	Percent of Capacity
Seminole	649.3	580.5	112%	453.4	296.9	595.2	1017.3	64%
Kortes	4.7	4.7	101%	4.7	4.7	4.7	4.7	100%
Pathfinder	700.1	579.7	121%	341.2	641.3	619.4	1070.0	65%
Alcova	157.3	155.8	101%	157.5	157.3	144.0	184.4	85%
Gray Reef	1.5	1.4	108%	1.2	1.6	1.8	1.8	84%
Glendo	258.0	260.9	99%	221.9	249.8	317.1	492.0	52%
Guernsey	12.2	11.5	107%	11.2	0.6	12.8	45.6	27%
<b>Total</b>	<b>1783.2</b>	<b>1594.5</b>	<b>112%</b>	<b>1191.1</b>	<b>1352.1</b>	<b>1695.0</b>	<b>2815.8</b>	<b>63%</b>

<sup>1</sup> Average is based on the 1994-2023 period.

## NORTH PLATTE RIVER BASIN RESERVOIR STORAGE

December



## NORTH PLATTE RIVER BASIN RESERVOIR STORAGE OWNERSHIP

December

Storage, Historical Storage, and Storage Capacity in 1,000 acre-feet

Reservoir	W. Yr. 2024	30 Yr. Avg. <sup>7</sup>	% of Avg.	W. Yr. 2023	W. Yr. 2022	W. Yr. 2021	Total Conservation Storage Capacity	Percent of Capacity
Kendrick	910.5	884.2	103%	824.2	944.9	1067.0	1201.7	76%
North Platte <sup>1</sup>	681.4	541.5	126%	223.1	237.6	455.8	1115.6	61%
Glendo	143.75	129.2	111%	116.3	131.2	128.4	171.7	84%
Inland Lakes <sup>2</sup>	25.99	21.3	122%	16.5	16.0	22.9	46.0	57%
Cheyenne <sup>3,4</sup>	9.3	6.7	138%	9.0	8.7	11.1	15.7	59%
PacifiCorp <sup>5</sup>	2.0	2.0	100%	2.0	2.0	2.0	2.0	100%
Other <sup>6</sup>	10.3	9.5	108%	0.1	11.2	7.8	N/A	N/A

1 This includes North Platte Guernsey and North Platte Pathfinder.

2 Water stored temporarily in mainstem facilities for later transfer to the Inland Lakes. This table does not reflect water currently stored in the Inland Lakes.

3 The City of Cheyenne has a storage contract to store water in Seminoe Reservoir by exchange of Upper North Platte Basin water through a system of trans-basin diversions.

4 Cheyenne ownership was increased to 15,700 AF on March 13, 2009 as a result of Amendment No. 1 to Contract No. 06XX6A0062.

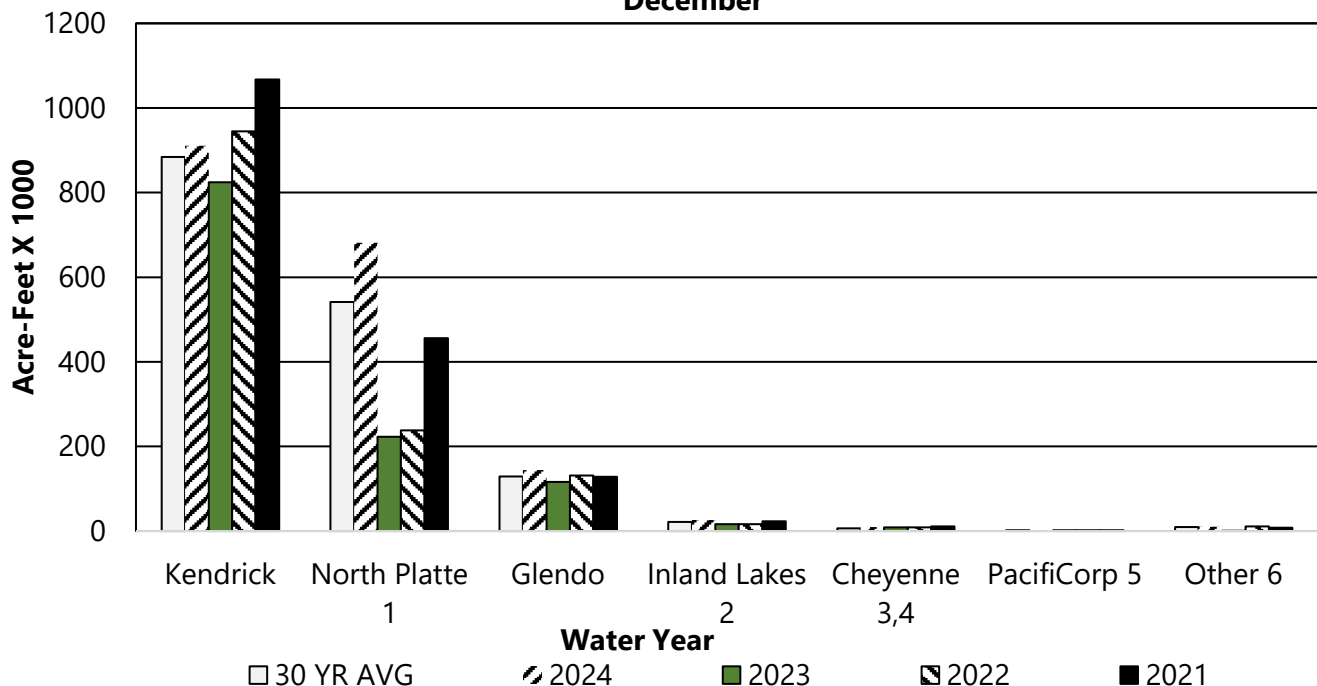
5 PacifiCorp has a storage contract to store water in Glendo Reservoir for Dave Johnston Powerplant.

6 Water which is captured in the re-regulation space of Glendo in addition to storage rights, operational water account, and replacement of evaporation losses is labeled as "Re-regulation of Natural Flow" per Wyoming Board of Control Order Docket Number I-2000-3-8 in water Division Number One. In accordance with 2022 Natural Flow and Ownership Procedures, the operational account can contain up to 15,000 acre-feet. On November 30, 2023, the Operational account contained 10,315 Acre-feet, the Re-Regulation space contained 0 Acre-feet.

7 Average is based on the 1994-2023 period.

## OWNERSHIP OF WATER

December



## INLAND LAKES RESERVOIR STORAGE

December

End of Month Storage, and Storage Capacity in acre-feet

Reservoir	W. Yr. 2024	30 Yr. Avg. <sup>5</sup>	% of Avg.	Total Storage Capacity
Lake Alice	646	500	1	11,034 <sup>1</sup>
Little Lake Alice	123	117	105%	1,166 <sup>2</sup>
Lake Winters Creek	1,555	779	200%	1,746 <sup>3</sup>
Lake Minatare	31,121	25,693	121%	58,795 <sup>4</sup>

1 At Elevation 4182.0

2 At Elevation 4139.0

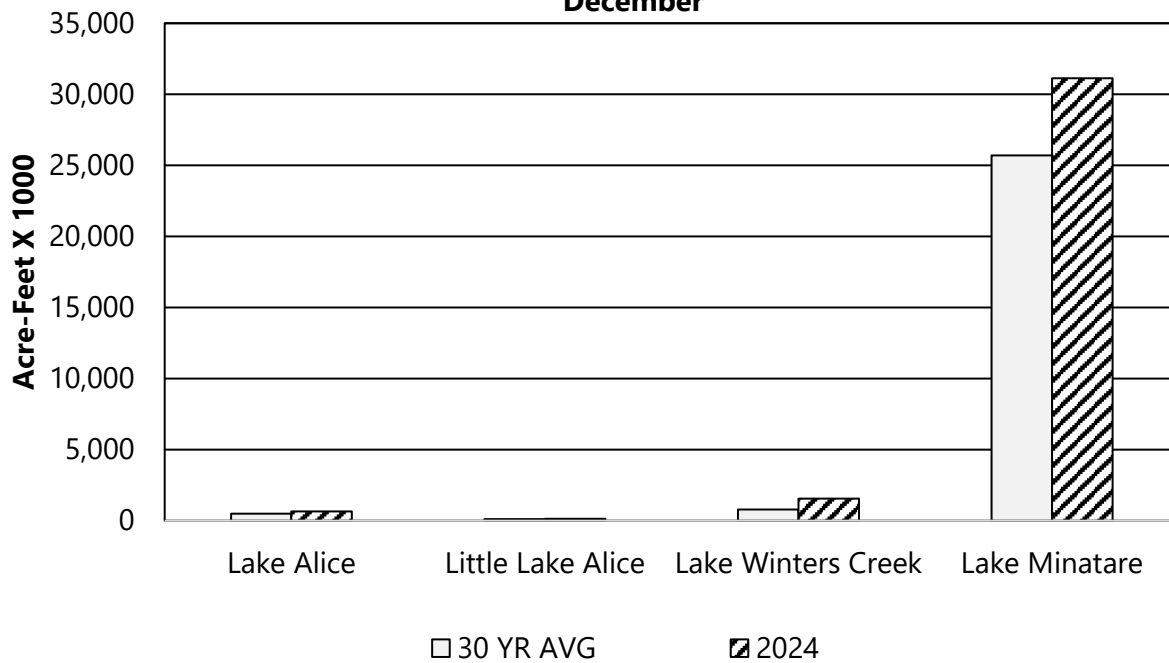
3 At Elevation 4129.0

4 At Elevation 4125.0

5 30 year average. (1994-2023)

## INLAND LAKES RESERVOIR STORAGE

December



## NORTH PLATTE RIVER BASIN GROSS GENERATION

December

Gross Generation and Historical Generation in Giga Watt Hours

Powerplant	W. Yr. 2024	30 Yr. Avg. <sup>2</sup>	% of Avg.	W. Yr. 2023	W. Yr. 2022	W. Yr. 2021
Seminole	4.6	5.6	82%	3.9	1.7	6.5
Kortes	5.5	6.4	86%	5.3	5.2	7.7
Fremont Canyon <sup>1</sup>	7.5	7.3	103%	5.7	7.8	0.0
Alcova	3.1	3.5	88%	2.5	2.7	3.7
Glendo	0.0	0.0	n/a	0.0	0.0	0.0
Guernsey	0.0	0.0	n/a	0.0	0.0	0.0

1 The powerplant for Pathfinder Dam is Fremont Canyon.

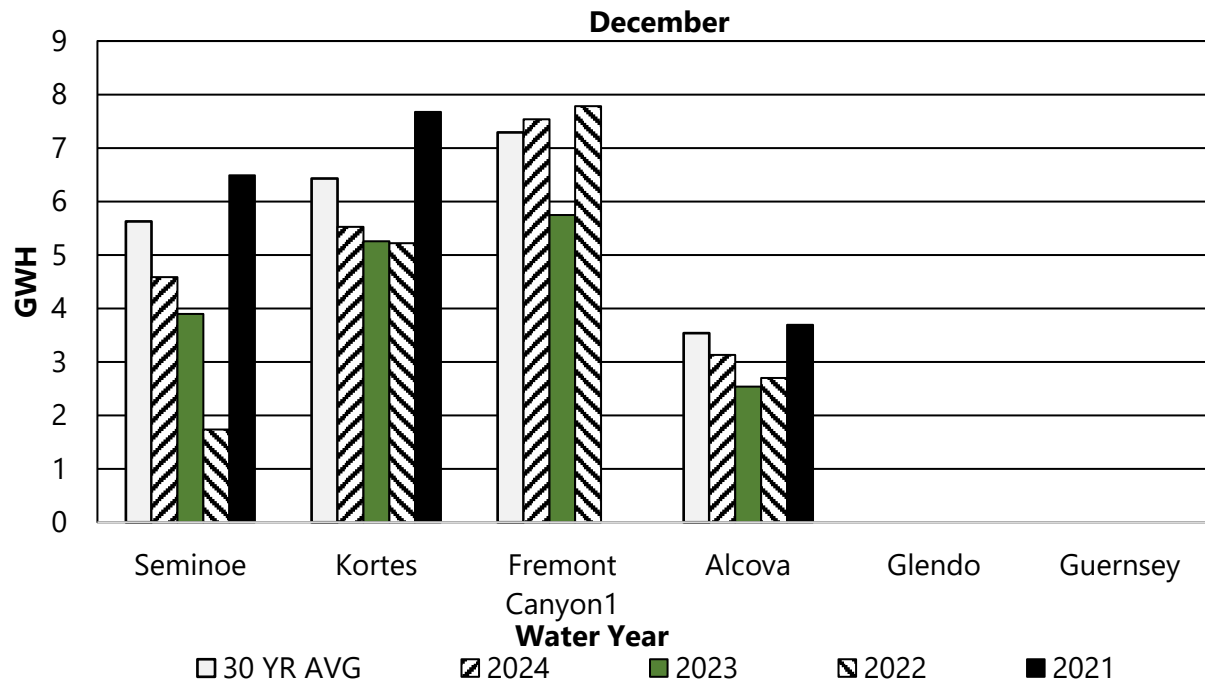
2 Average is based on the 1994-2023 period.

December

Accumulated Gross Generation Water Year in Giga Watt Hours

Powerplant	W. Yr. 2024	30 Yr. Avg. <sup>2</sup>	% of Avg.
Seminole	13.5	15.8	86%
Kortes	16.3	18.2	90%
Fremont Canyon <sup>1</sup>	15.3	16.2	94%
Alcova	9.4	11.0	85%
Glendo	0.0	0.0	n/a
Guernsey	0.0	0.0	n/a

## NORTH PLATTE RIVER BASIN GROSS GENERATION





## NORTH PLATTE SNOWPACK WATER CONTENT

The tables shown below display the Snotel Sites used in the development of the April-July snowmelt runoff forecasts

December 1st Snow Water Equivalent

SWE in inches

WATERSHED	W. Yr. 2024 <sup>3</sup>	30 Yr. Median <sup>2</sup>	% of Median	W. Yr. 2023	W. Yr. 2022	W. Yr. 2021
Seminole Reservoir	5.7	8.8	65%	10.6	10.1	6.9
Pathfinder Reservoir	5.0	6.1	82%	10.0	6.1	4.8
Glendo Reservoir	2.0	4.5	44%	4.2	2.6	2.2

### Seminole Reservoir Watershed

SWE in inches <sup>1</sup>

Snotel Stations (Elevation)	Water Content <sup>3</sup>	30 Yr. Median <sup>2</sup>
Arapaho Ridge (10,960)	6.6	10
Columbine (9,160)	6.7	8.8
Divide Peak (8,880)	4.9	7.6
Joe Wright (10,120)	5.4	8.5
Laprele Creek (8,375)	1.3	3.7
North French (10,130)	6.8	11.6
Never Summer (10,280)	6.3	8.4
Old Battle (10,000)	7.6	12.4
Rawah (9,020)	3.7	4.8
Sage Creek Basin (7,850)	2.6	5.7
Sand Lake (10,050)	7.7	11.4
South Brush (8,440)	1.8	4.7
Tower (10,500)	12.4	16.8
Webber Springs (9,250)	5.8	9.2
Willow Creek Pass (9,540)	5.1	5.8
Zirkel (9,340) <sup>4</sup>	6.4	10.6
<b>Watershed Average</b>	<b>5.7</b>	<b>8.8</b>

### Sweetwater River / Pathfinder Reservoir Watershed

SWE in inches <sup>1</sup>

Snotel Stations (Elevation)	Water Content <sup>3</sup>	30 Yr. Median <sup>2</sup>
South Pass (9,040)	4.6	6
Deer Park (9,700)	5.4	6.2
<b>Watershed Average</b>	<b>5.0</b>	<b>6.1</b>

### Glendo Reservoir Watershed

SWE in inches <sup>1</sup>

Snotel Stations (Elevation)	Water Content <sup>3</sup>	30 Yr. Median <sup>2</sup>
Casper (7,900)	2.6	5.4
Laprele Creek (8,375)	1.3	3.7
Reno Hill (8,500)	2.4	5.8
Windy Peak (7,900)	1.6	3
<b>Watershed Average</b>	<b>2.0</b>	<b>4.5</b>

<sup>1</sup> SWE (Snow Water Equivalent) is the amount of water in the snowpack expressed in inches)

<sup>2</sup> Median for the 1991-2020 period

<sup>3</sup> Data from NRCS Snowpack Telemetry Network (SNOTEL) Sites.

<sup>4</sup> Zirkel is a newer gage starting WY 2003, NRCS median is 17 years of data within 1991-2020 time period.