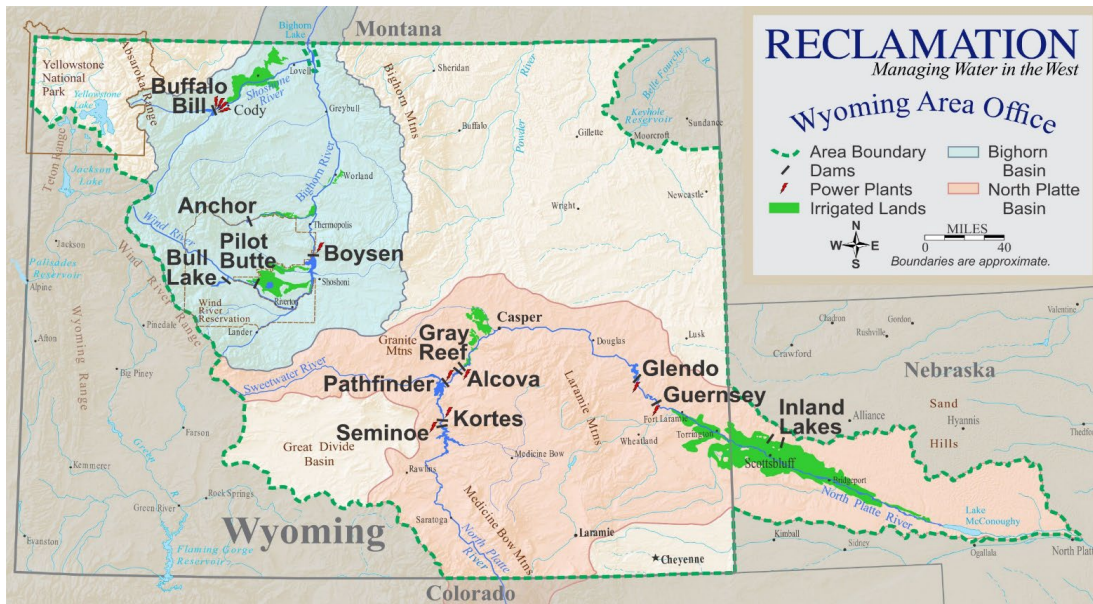




BUREAU OF RECLAMATION

North Platte River Basin Water Supply and Utilization Report Wyoming Area Office Report for March 2024



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 March 2024
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

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

Reservoir	W. Yr. 2024	30 Yr. Avg. ⁵	% of Avg.	W. Yr. 2023	W. Yr. 2022	W. Yr. 2021
Seminole	43.1	56.4	77%	29.3	44.9	42.2
Pathfinder ^{1,2}	7.0	11.2	63%	7.3	7.4	4.9
Glendo ³	18.4	17.5	105%	15.4	16.6	20.8
Guernsey ⁴	2.6	1.7	156%	1.8	1.4	2.2
System Total	71.1	86.7	82%	53.8	70.3	70.1

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.

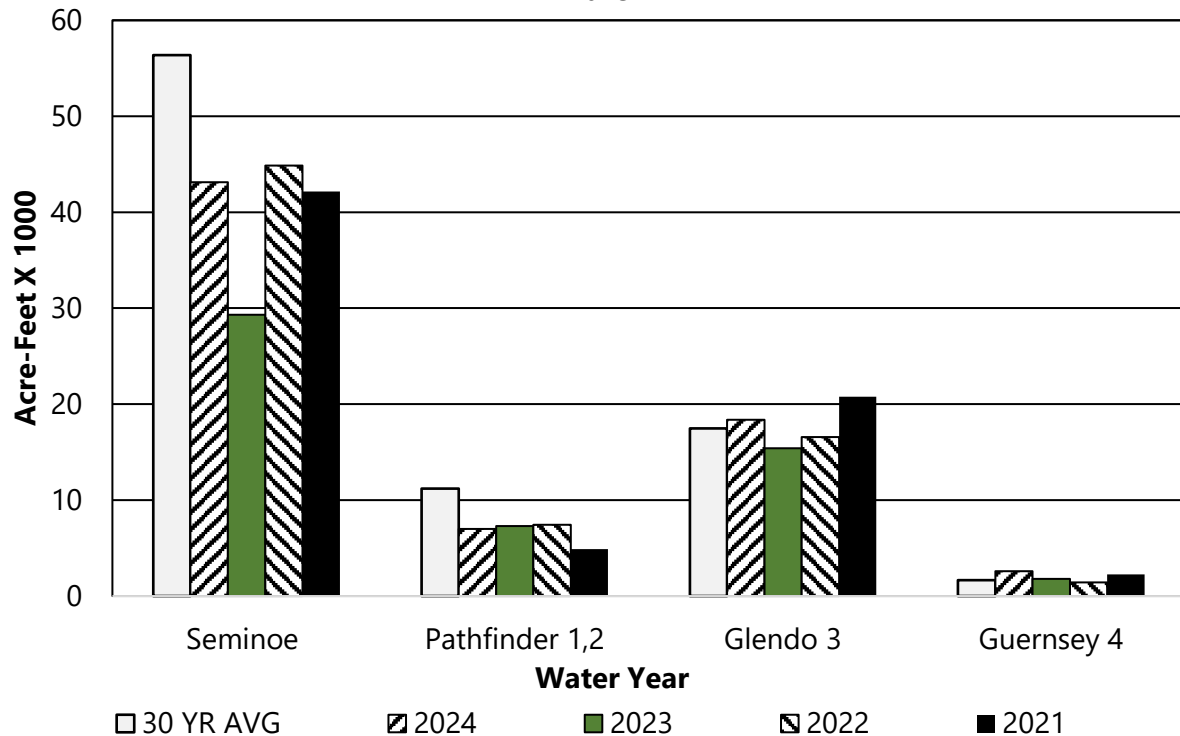
5 30 year average. (1994-2023)

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

Reservoir	W. Yr. 2024	30 Yr. Avg.	% of Avg.
Seminole	166.2	193.1	86%
Pathfinder	28.9	37.1	78%
Glendo	72.2	64.7	112%
Guernsey	10.1	9.7	104%
System Total	277.5	304.6	91%

NORTH PLATTE RIVER BASIN RESERVOIR INFLOW

March



NORTH PLATTE RIVER BASIN OUTFLOW

March

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	33.6	59.8	56%	31.9	33.3	33.1
Kortes	33.6	59.8	56%	31.9	33.3	33.1
Pathfinder	43.4	53.9	81%	46.2	29.3	27.3
Alcova	42.7	52.5	81%	45.5	29.8	26.2
Gray Reef	42.2	52.4	81%	45.2	29.5	26.2
Glendo	1.8	14.6	12%	1.5	0.9	1.7
Guernsey	0.2	12.8	1%	0.1	0.7	0.2

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

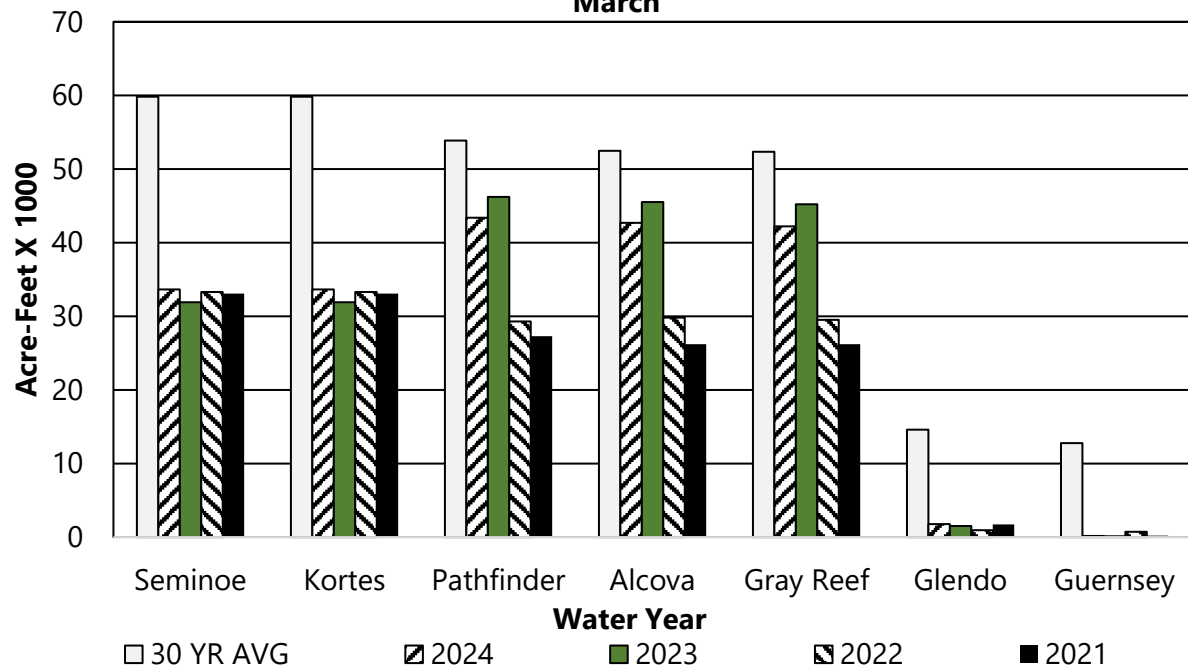
March

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

Reservoir	W. Yr. 2024	30 Yr. Avg. 2	% of Avg.
Seminole	197.6	253.7	78%
Kortes	197.6	253.7	78%
Pathfinder	171.1	195.2	88%
Alcova	193.6	216.1	90%
Gray Reef	193.1	215.9	89%
Glendo	10.6	22.9	46%
Guernsey	0.9	17.0	5%

NORTH PLATTE RIVER BASIN RESERVOIR OUTFLOW

March



NORTH PLATTE RIVER BASIN RESERVOIR STORAGE

March

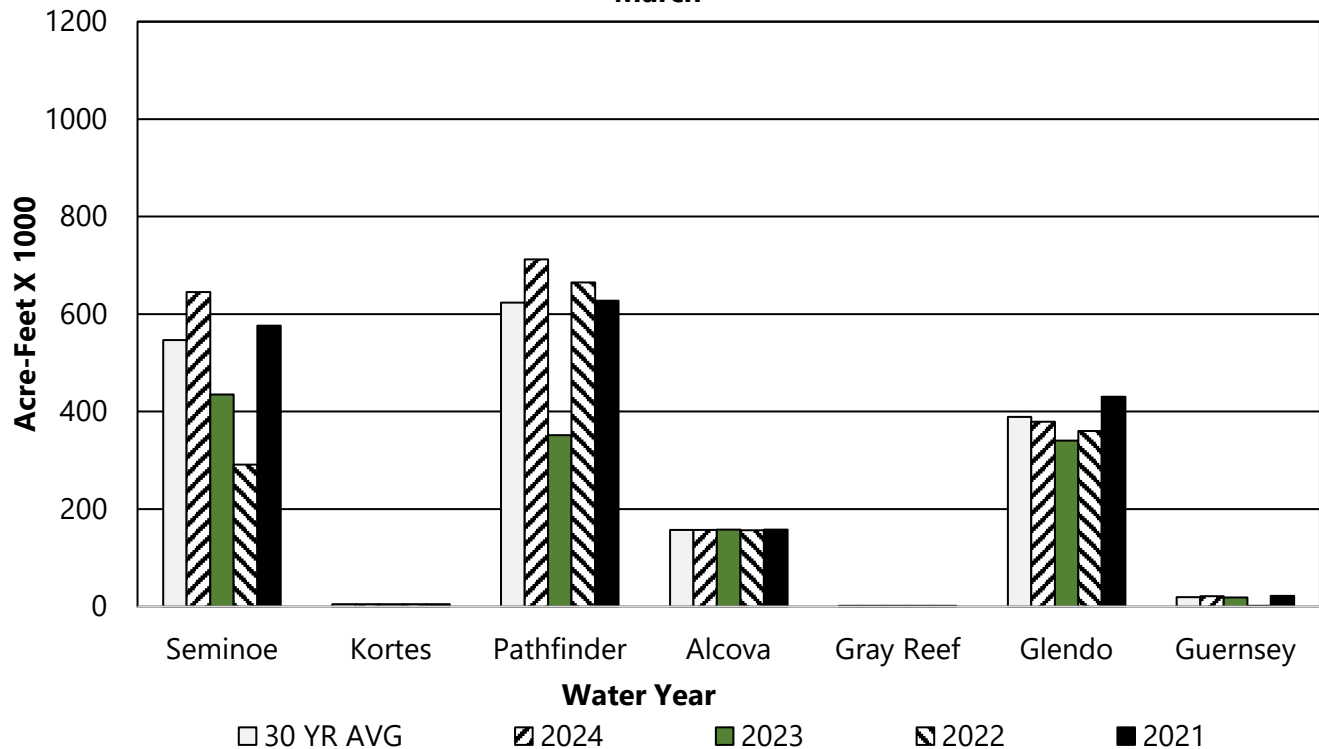
Storage, Historical Storage, and Storage Capacity in 1,000 acre-feet

Reservoir	W. Yr. 2024	30 Yr. Avg. ¹	% of Avg.	W. Yr. 2023	W. Yr. 2022	W. Yr. 2021	Total Conservation Storage Capacity	Percent of Capacity
Seminole	645.4	547.0	118%	434.9	291.1	576.6	1017.3	63%
Kortes	4.7	4.7	101%	4.7	4.7	4.7	4.7	101%
Pathfinder	712.0	623.3	114%	351.7	665.2	627.8	1070.0	67%
Alcova	157.5	157.4	100%	157.8	156.7	157.7	184.4	85%
Gray Reef	1.8	1.5	121%	1.4	1.8	1.8	1.8	102%
Glendo	379.5	388.9	98%	340.8	360.4	430.8	492.0	77%
Guernsey	21.7	19.5	111%	18.9	1.6	21.8	45.6	47%
Total	1922.6	1742.4	110%	1310.2	1481.4	1821.1	2815.8	68%

¹ Average is based on the 1994-2023 period.

NORTH PLATTE RIVER BASIN RESERVOIR STORAGE

March



NORTH PLATTE RIVER BASIN RESERVOIR STORAGE OWNERSHIP

March

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

Reservoir	W. Yr. 2024	30 Yr. Avg. ⁷	% of Avg.	W. Yr. 2023	W. Yr. 2022	W. Yr. 2021	Total Conservation Storage Capacity	Percent of Capacity
Kendrick	907.9	866.0	105%	821.7	941.3	1060.7	1201.7	76%
North Platte ¹	814.9	692.1	118%	342.8	368.5	584.0	1115.6	73%
Glendo	150.9	133.7	113%	114.8	129.1	130.7	171.7	88%
Inland Lakes ²	25.8	21.1	122%	16.3	15.8	22.8	46.0	56%
Cheyenne ^{3,4}	10.3	8.9	116%	12.6	13.7	13.0	15.7	66%
PacifiCorp ⁵	2.0	2.0	101%	2.0	2.0	2.0	2.0	100%
Other ⁶	10.9	18.6	59%	0.1	11.1	8.0	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.

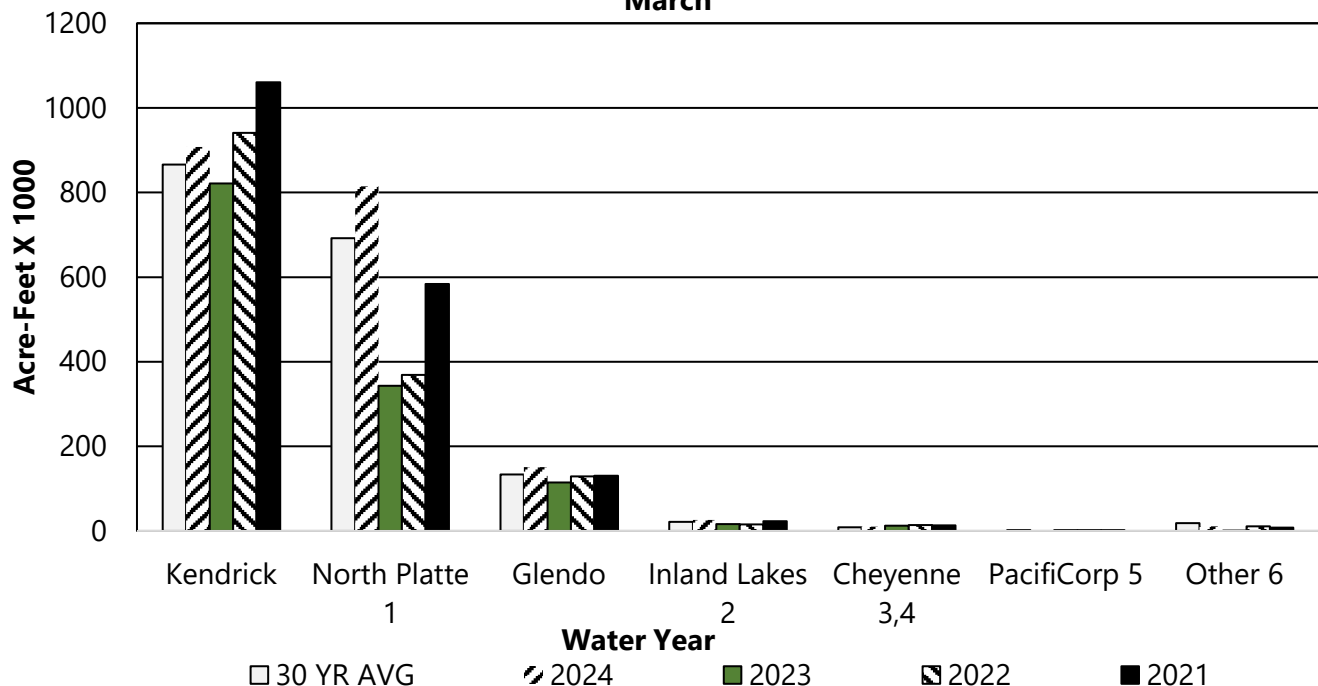
5 PacifiCorp has a storage contract to store water in Glendo Reservoir for Dave Johnston Powerplant.

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 March 31, 2024, the Operational account contained 10,898 Acre-feet, the Re-Regulation space contained 0 Acre-feet.

7 Average is based on the 1994-2023 period.

OWNERSHIP OF WATER

March



INLAND LAKES RESERVOIR STORAGE

March

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

Reservoir	W. Yr. 2024	30 Yr. Avg. ⁵	% of Avg.	Total Storage Capacity
Lake Alice	45	277	16%	11,034 ¹
Little Lake Alice	124	77	161%	1,166 ²
Lake Winters Creek	1,092	558	196%	1,746 ³
Lake Minatare	31,422	24,958	126%	58,795 ⁴

1 At Elevation 4182.0

2 At Elevation 4139.0

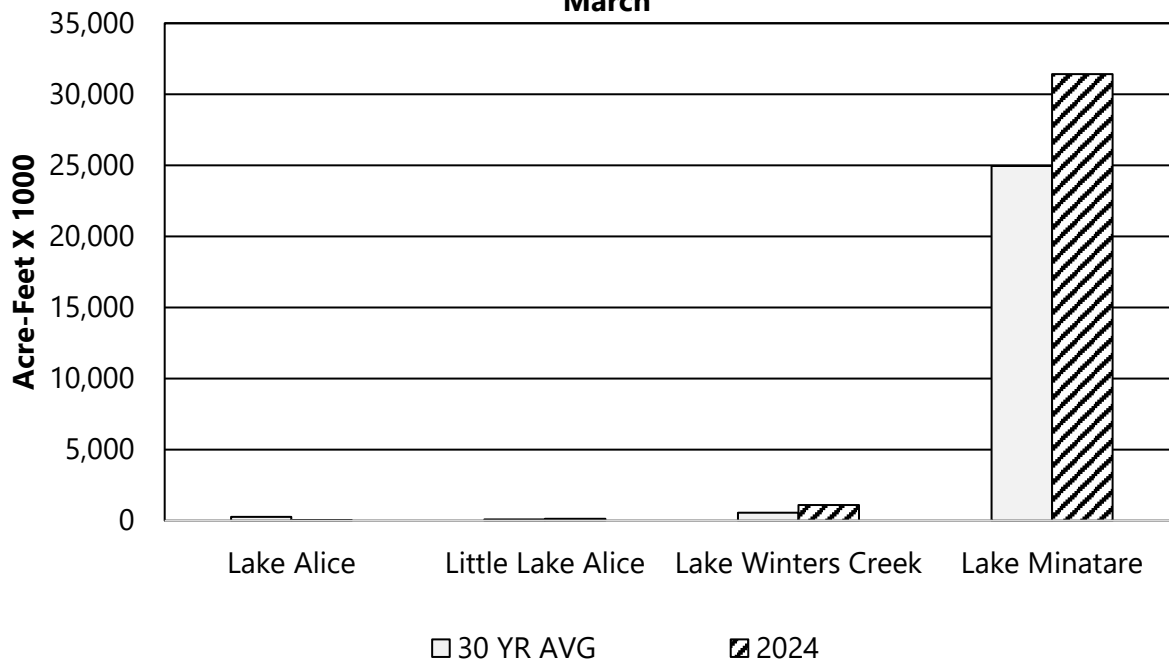
3 At Elevation 4129.0

4 At Elevation 4125.0

5 30 year average. (1994-2023)

INLAND LAKES RESERVOIR STORAGE

March



NORTH PLATTE RIVER BASIN GROSS GENERATION

March

Gross Generation and Historical Generation in Giga Watt Hours

Powerplant	W. Yr. 2024	30 Yr. Avg. ²	% of Avg.	W. Yr. 2023	W. Yr. 2022	W. Yr. 2021
Seminole	4.1	8.9	46%	4.2	3.5	3.6
Kortes	5.4	9.1	60%	5.4	5.1	4.9
Fremont Canyon ¹	11.6	13.3	87%	11.2	7.0	6.4
Alcova	5.0	5.9	85%	5.2	0.9	2.6
Glendo	0.0	1.2	n/a	0.0	0.0	0.0
Guernsey	0.0	0.3	n/a	0.0	0.0	0.0

1 The powerplant for Pathfinder Dam is Fremont Canyon.

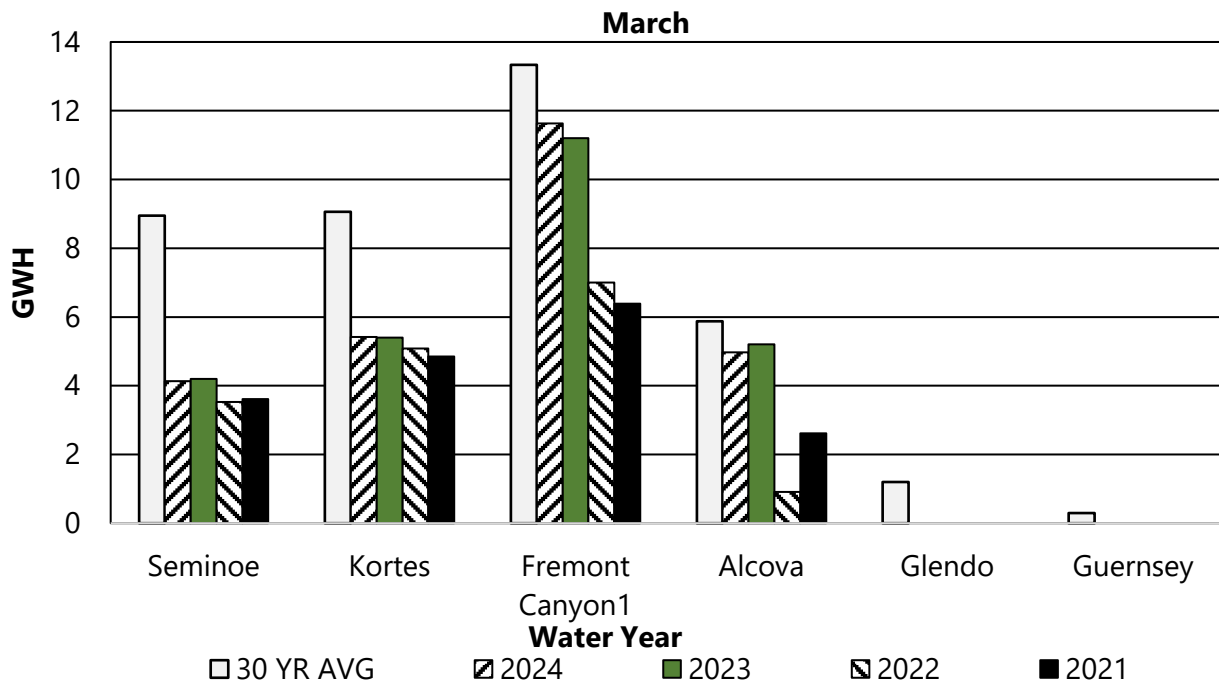
2 Average is based on the 1994-2023 period.

March

Accumulated Gross Generation Water Year in Giga Watt Hours

Powerplant	W. Yr. 2024	30 Yr. Avg. ²	% of Avg.
Seminole	25.8	36.4	71%
Kortes	32.6	40.1	81%
Fremont Canyon ¹	40.9	43.8	93%
Alcova	18.9	23.4	81%
Glendo	0.0	1.3	n/a
Guernsey	0.0	0.3	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

April 1st Snow Water Equivalent

SWE in inches

WATERSHED	W. Yr. 2024 ³	30 Yr. Median ²	% of Median	W. Yr. 2023	W. Yr. 2022	W. Yr. 2021
Seminole Reservoir	21.6	20.9	103%	27.2	18.0	19.9
Pathfinder Reservoir	17.5	14.3	123%	20.5	10.3	12.2
Glendo Reservoir	8.7	11.0	79%	12.5	9.9	12.8

Seminole Reservoir Watershed

SWE in inches ¹

Snotel Stations (Elevation)	Water Content ³	30 Yr. Median ²
Arapaho Ridge (10,960)	21.1	21.0
Columbine (9,160)	27.0	22.0
Divide Peak (8,880)	21.6	19.4
Joe Wright (10,120)	18.6	19.6
Laprele Creek (8,375)	7.2	9.4
Never Summer (10,280)	18.7	19.7
North French (10,130)	26.4	27.6
Old Battle (10,000)	32.5	29.7
Rawah (9,020)	12.5	10.6
Sage Creek Basin (7,850)	16	13.2
Sand Lake (10,050)	29.2	26.6
South Brush (8,440)	10.7	11.9
Tower (10,500)	40.3	42.0
Webber Springs (9,250)	24.1	21.8
Willow Creek Pass (9,540)	14	12.6
Zirkel (9,340) ⁴	26.1	27.6
Watershed Average	21.6	20.9

Sweetwater River / Pathfinder Reservoir Watershed

SWE in inches ¹

Snotel Stations (Elevation)	Water Content ³	30 Yr. Median ²
Deer Park (9,700)	18.9	14.0
South Pass (9,040)	16.1	14.5
Watershed Average	17.5	14.3

Glendo Reservoir Watershed

SWE in inches ¹

Snotel Stations (Elevation)	Water Content ³	30 Yr. Median ²
Casper (7,900)	9.8	13
Laprele Creek (8,375)	7.2	9.4
Reno Hill (8,500)	9.4	13.8
Windy Peak (7,900)	8.4	7.8
Watershed Average	8.7	11.0

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

² Median for the 1991-2020 period

³ Data from NRCS Snowpack Telemetry Network (SNOTEL) Sites.

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

NORTH PLATTE ESTIMATED APRIL-JULY RUNOFF

(1000 acre-feet)

Forecast Points	April 1, 2024 Forecast of April-July Runoff			30 Yr. April-July Runoff Avg. ²	Expected % of Avg.	Comparative Actual April - July Runoff			
	Reasonable Maximum ¹	Expected	Reasonable Minimum ¹			W. Yr. 2023	W. Yr. 2022	W. Yr. 2021	W. Yr. 2020
Seminole Reservoir	1050	800	600	721	111	969	547	339	632
Sweetwater River Above Pathfinder Reservoir	110	80	50	55	146	112	17	17	25
Alcova to Glendo	200	120	60	146	82	227	81	110	134

¹ The probability is estimated to be 9 chances in 10 that the actual volume will fall between the reasonable minimum and reasonable maximum.

² Average is based on the 1994-2023 period.

(1000 acre-feet)

Forecast Points	April 1, 2024 Forecast of April-July Runoff Chance of Exceeding						30 Yr. Apr - Jul Runoff Avg. ¹
	95%	75%	50%	% of Avg	25%	5%	
Seminole Reservoir	600	718	800	111	902	1050	721
Sweetwater River Above Pathfinder Reservoir	50	68	80	146	92	110	55
Alcova to Glendo Gain	60	95	120	82	153	200	146

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