



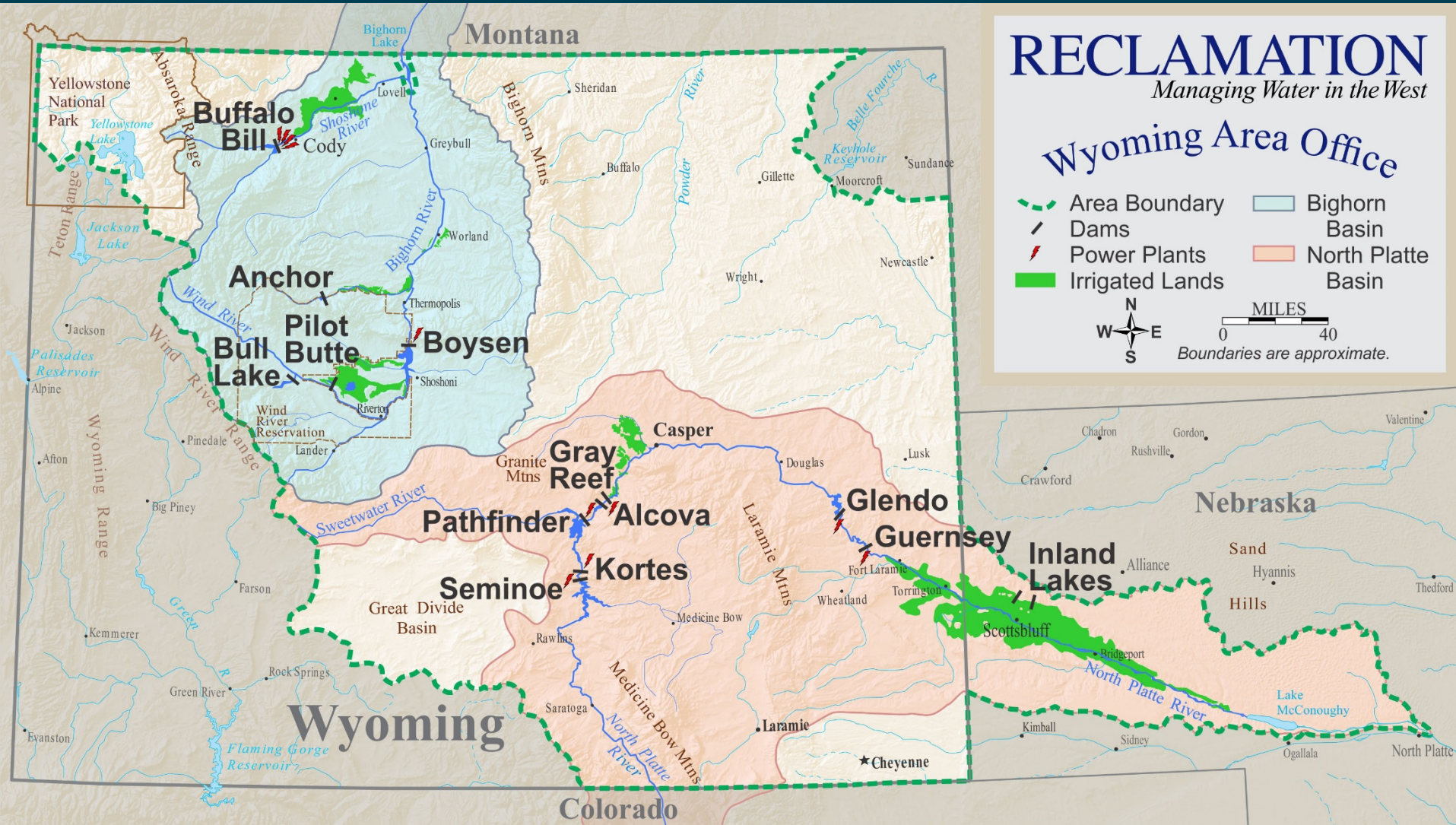
— BUREAU OF —
RECLAMATION

2021 Yonts Water Conference

April 9, 2021

Mike Follum, Water and Civil Works Branch, WYAO
Carlie Ronca, Manager of WYAO

Wyoming Area Office



Summary of Water Year 2020

- Started WY 2020 with total system storage 139% of average.
- Snowpack was above normal for the season (April 4, 2020)
 - 110% of Median for Upper North Platte (per NRCS)
 - 82 % of Median for Sweetwater
 - 124% of Median for Lower North Platte
- April-July Inflow Volume was 81% of average
- Due to high initial storage, a full water supply was available despite below average inflow
- No Allocation was required
- WY 2020 ended with total system storage of 1.6 MAF (112% of average)
- Total System Power Production for WY 2020 was 806 GWH which is 118% of average



Alcova Spillway Repairs

- Typical operations lower Alcova ~10 ft in the winter (~5488 ft)
- This year we lowered Alcova ~40 ft to facilitate spillway repairs.
- Allowed for a successful full-travel test of the Spillway Gates.
- Lowered in October 2020; Raised in January 2021 to normal winter level (5488 ft).
- Concrete repairs complete. Filling to normal summer operating level (~5498 ft).



(Dan Cepeda, Oil City)



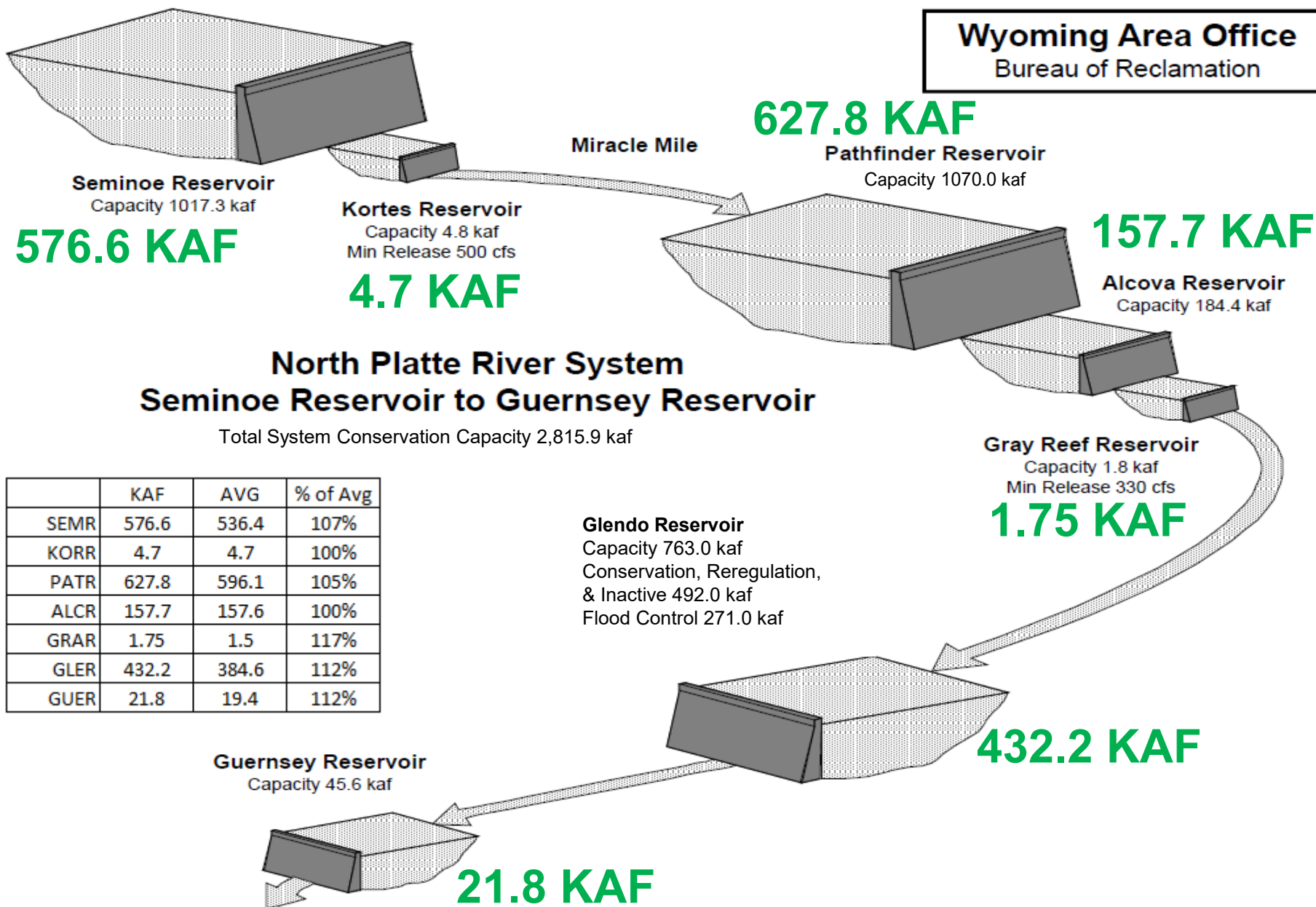
Guernsey Powerplant Roller Mounted Intake Gate Refurbishment

- 100% Power-funded
- Begin work in August 2020 (crane pad)
- Complete work in March 2022
- For Winter 2021/2022 the inflows at Guernsey will be passed
- Glendo winter flow of 25cfs will be discontinued to save water

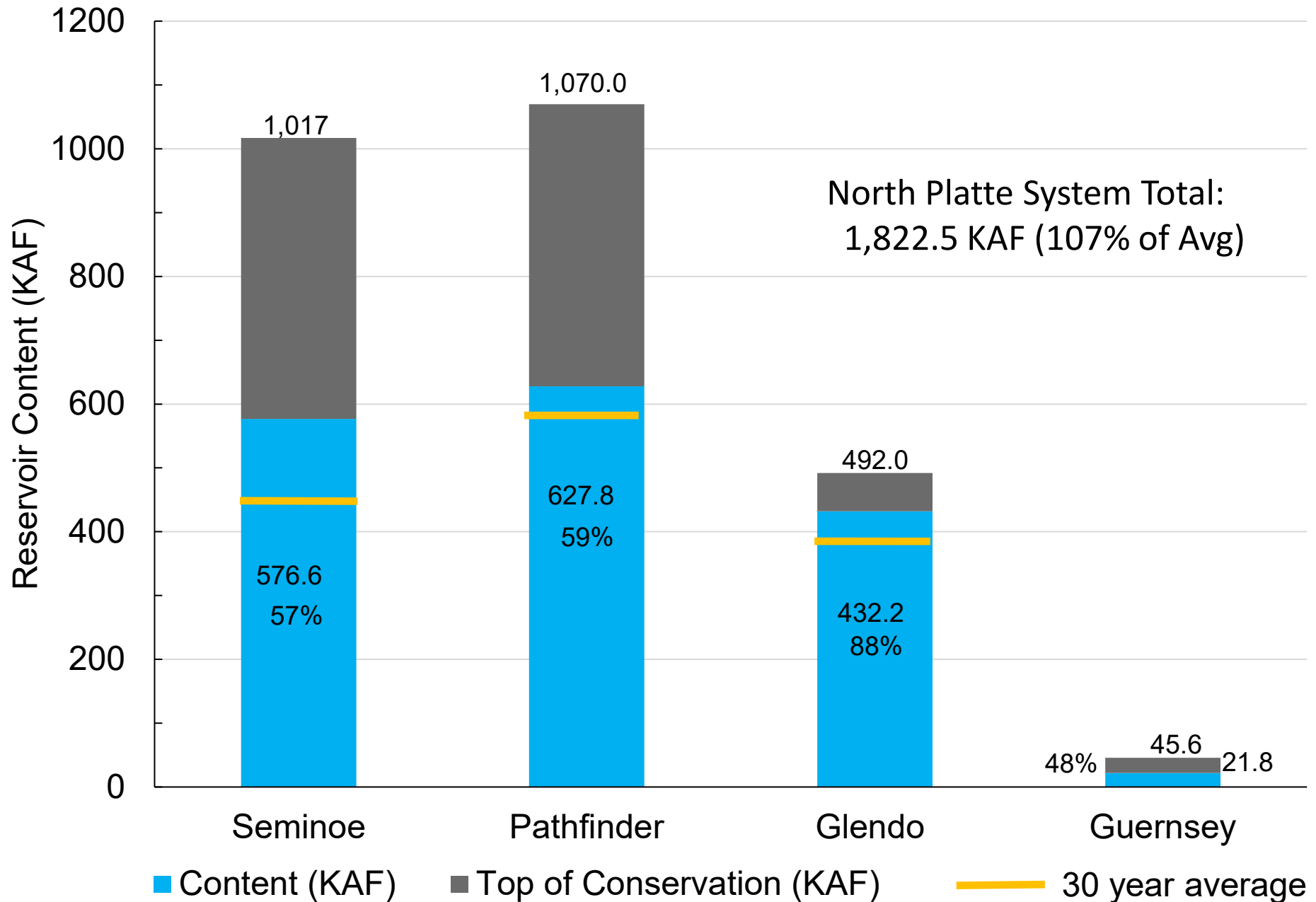


Current Storage (as of April 1, 2021)

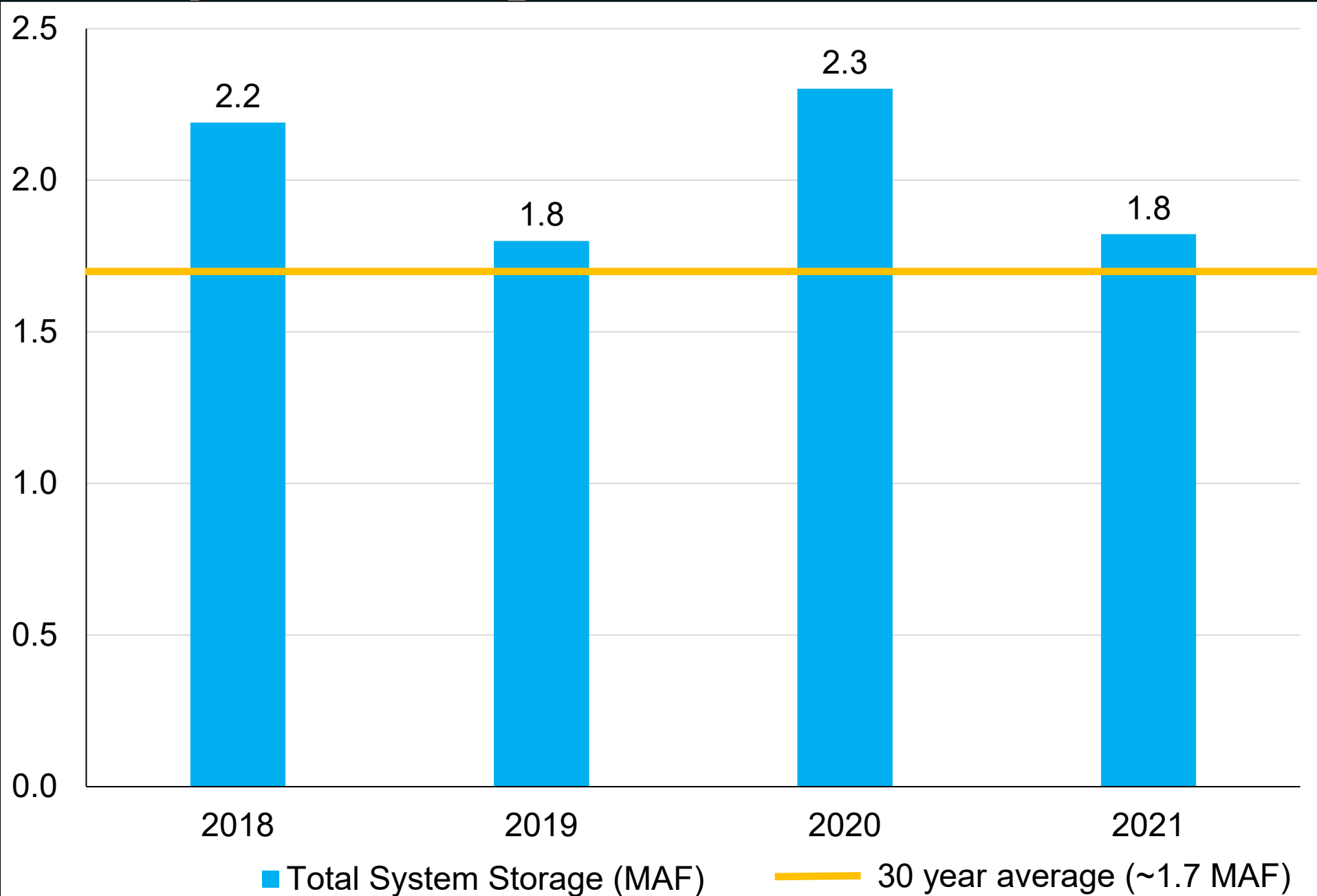
Wyoming Area Office
Bureau of Reclamation



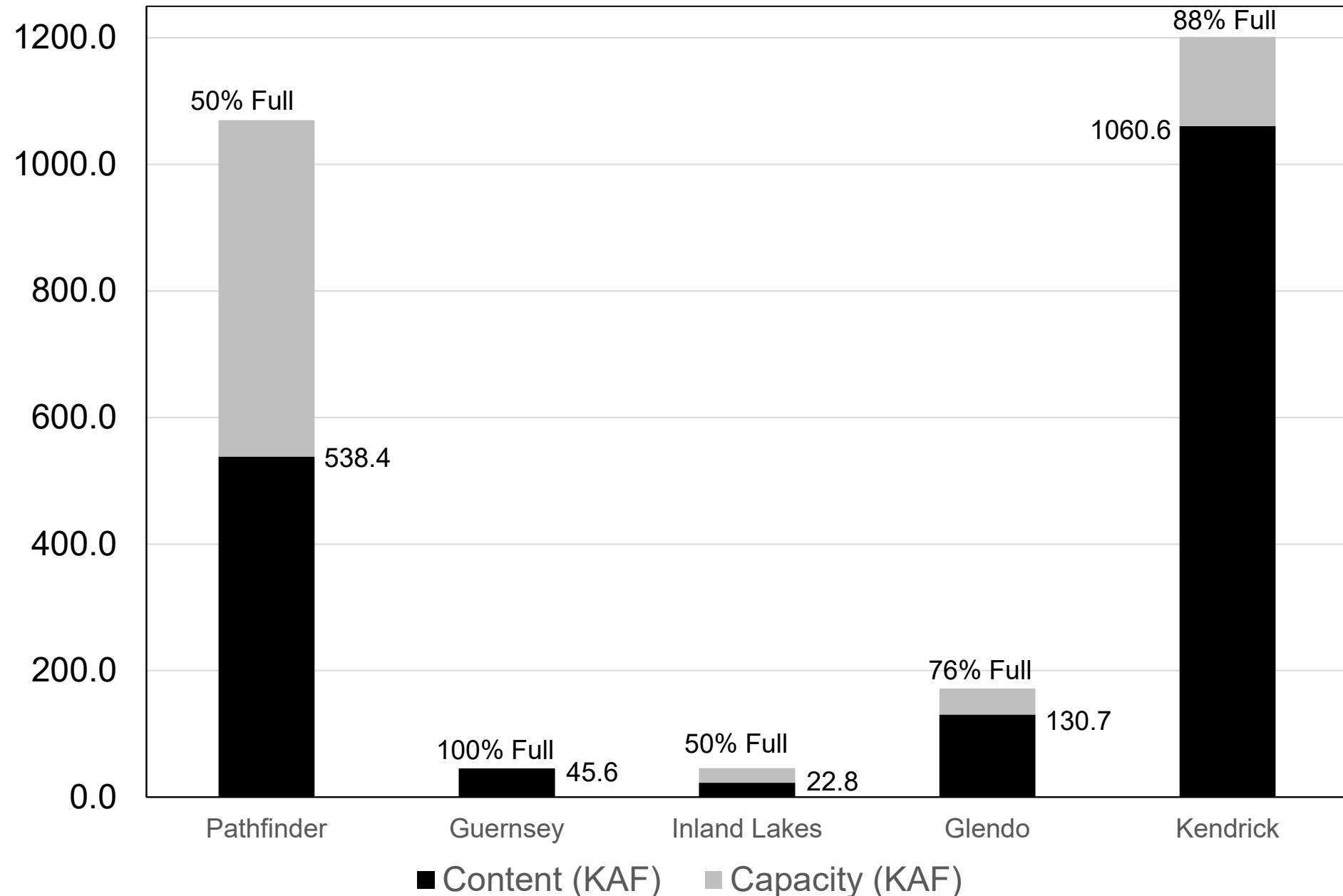
Current Storage (as of April 1, 2021)



Total System Storage (as of March 31, 2021)



Total System Ownership (as of March 31, 2021)



Current Operations

Wyoming Area Office
Bureau of Reclamation

2000 cfs

Miracle Mile

Seminole Reservoir
Capacity 1017.3 kaf

Kortes Reservoir
Capacity 4.8 kaf
Min Release 500 cfs

Pathfinder Reservoir
Capacity 1070.0 kaf

Alcova Reservoir
Capacity 184.4 kaf

North Platte River System

Seminole Reservoir to Guernsey Reservoir

Total System Conservation Capacity 2,815.9 kaf

Gray Reef Reservoir
Capacity 1.8 kaf
Min Release 330 cfs

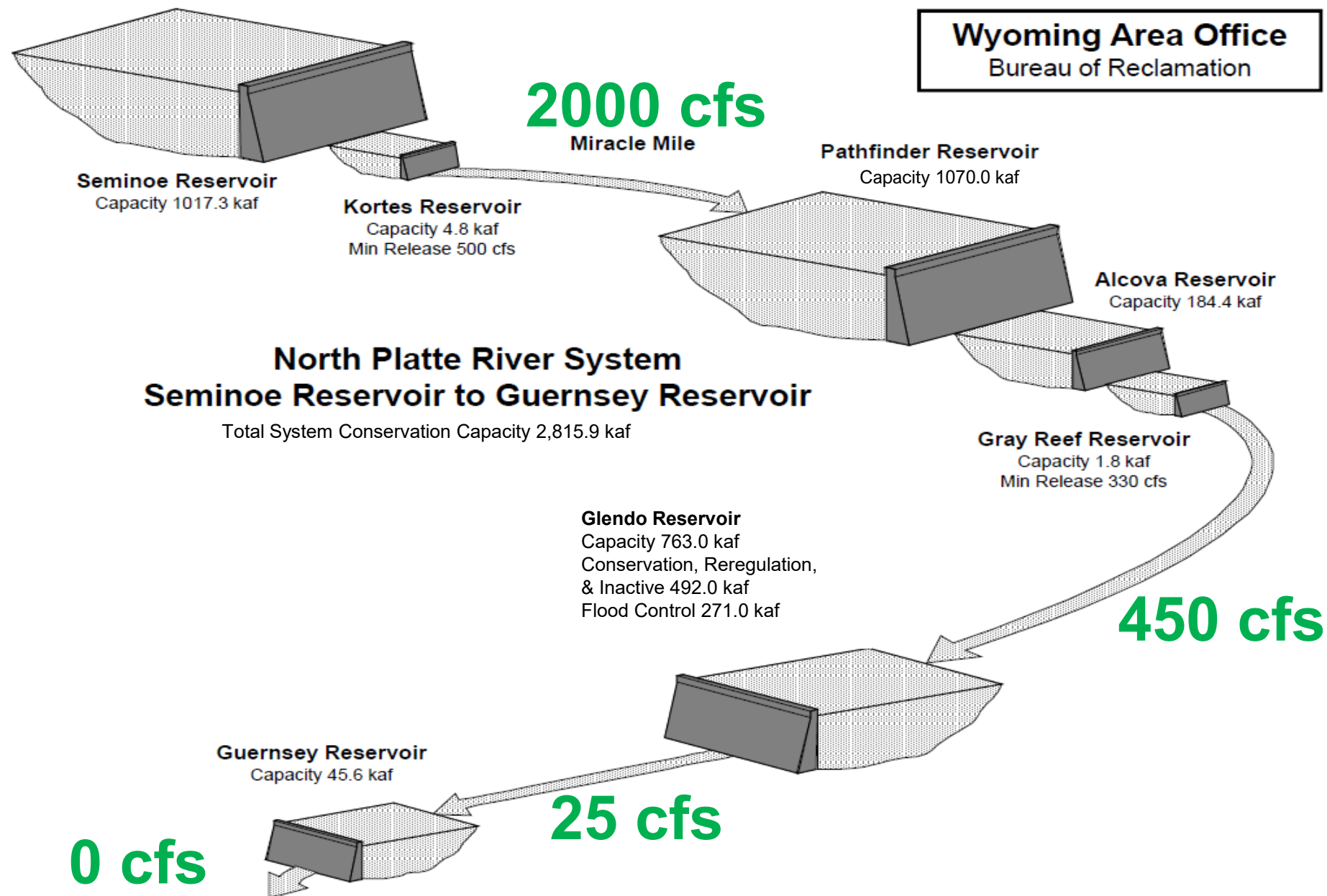
Glendo Reservoir
Capacity 763.0 kaf
Conservation, Reregulation,
& Inactive 492.0 kaf
Flood Control 271.0 kaf

450 cfs

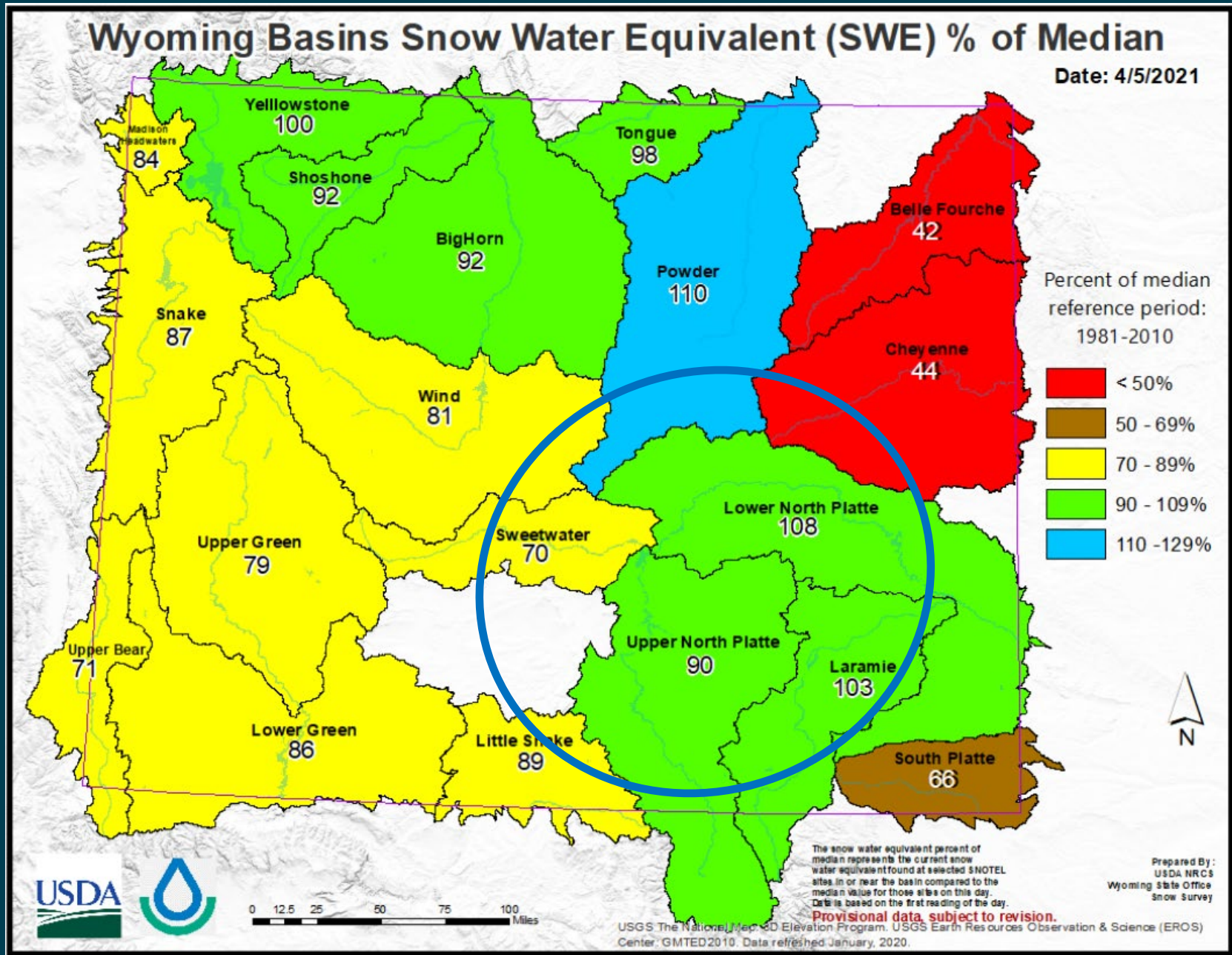
Guernsey Reservoir
Capacity 45.6 kaf

25 cfs

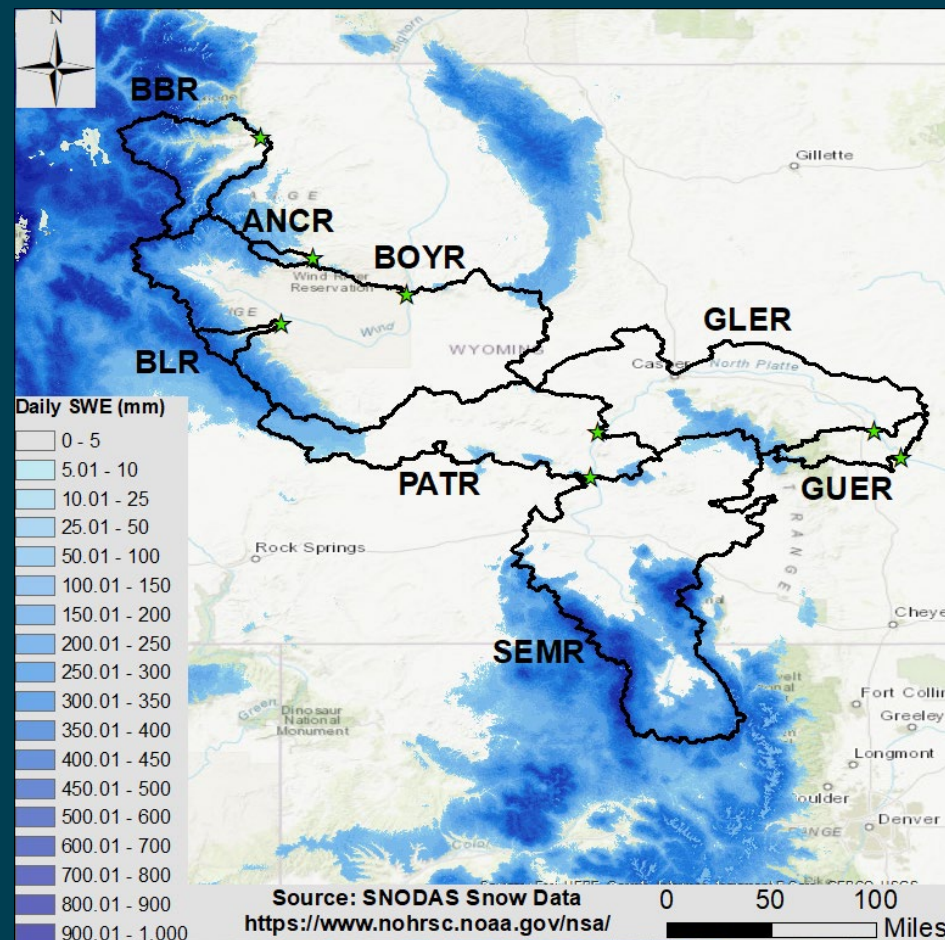
0 cfs



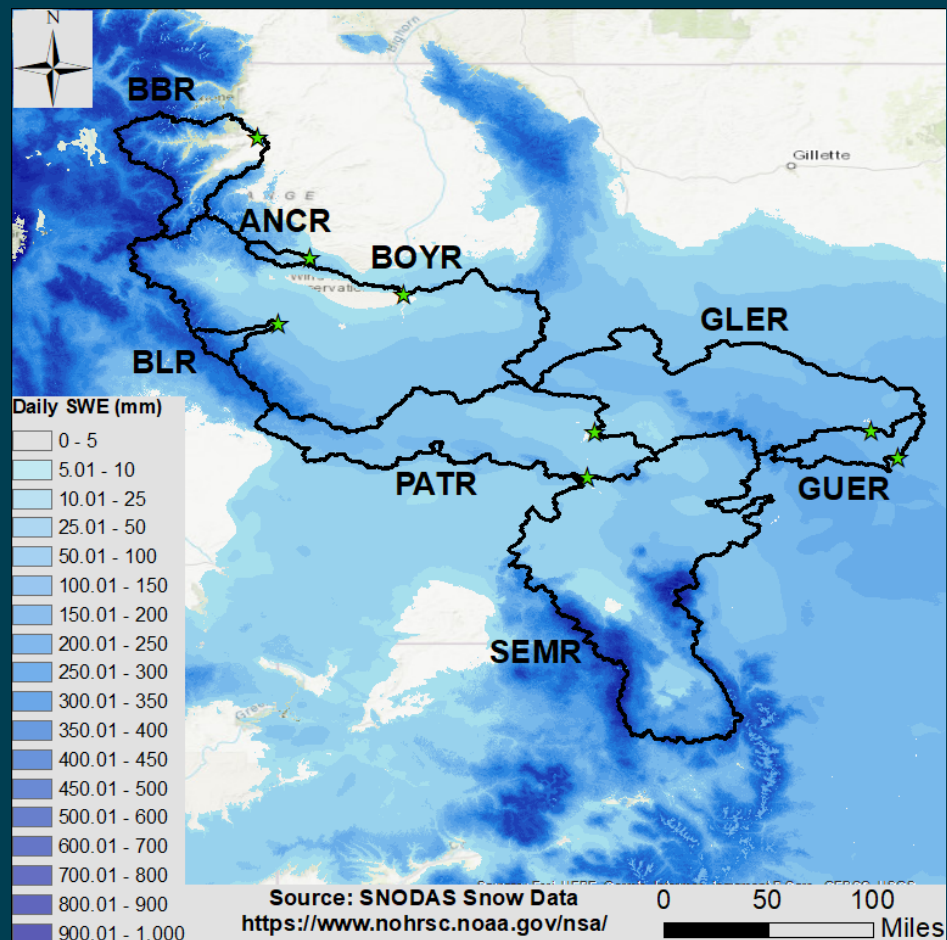
Current Snow Conditions



Mid-March Snowstorm



09 March 2021



15 March 2021

ANCR – Anchor
BBR – Buffalo Bill

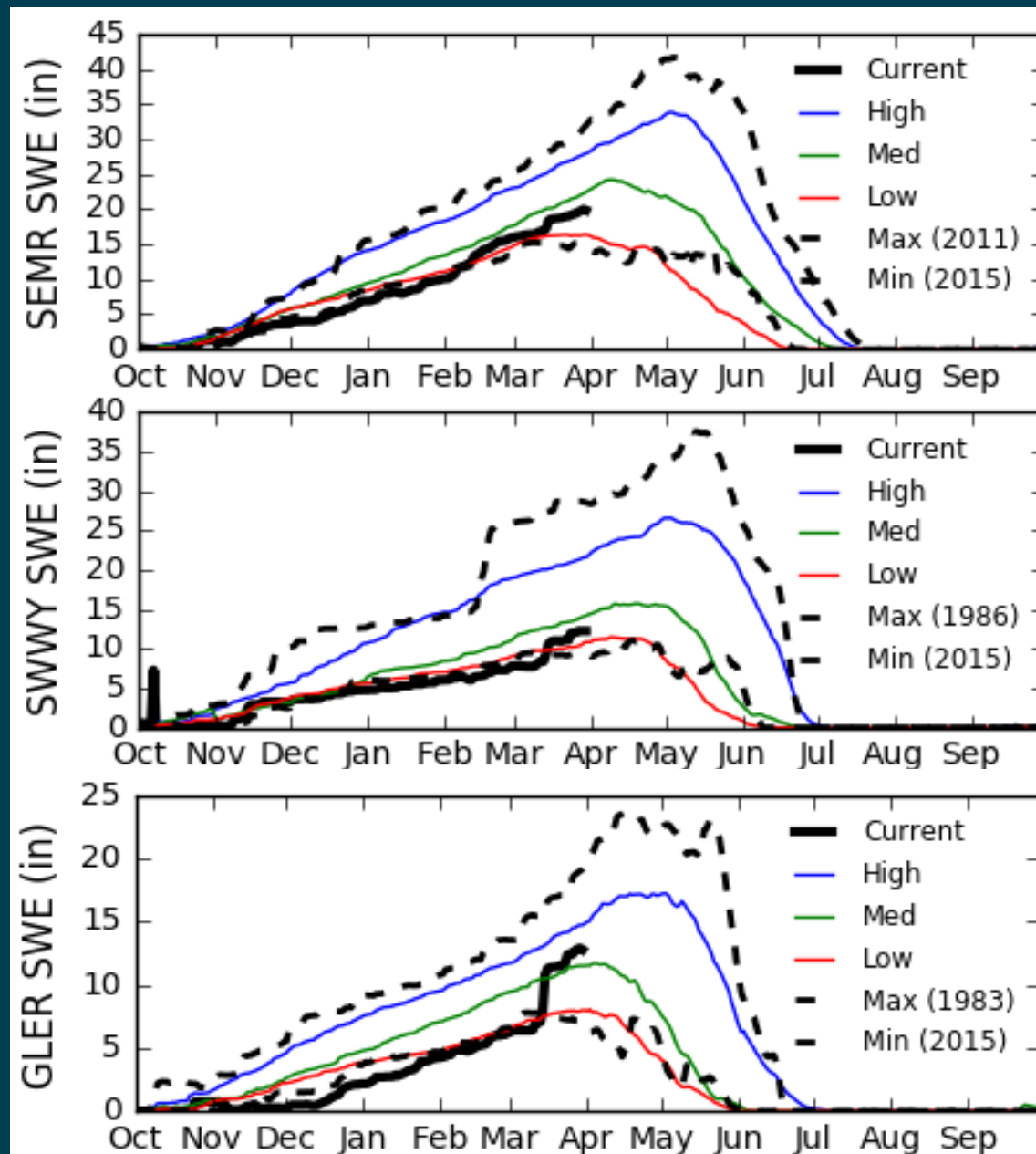
BLR – Bull Lake
BOYR – Boysen

GLER – Glendo
GUER – Guernsey

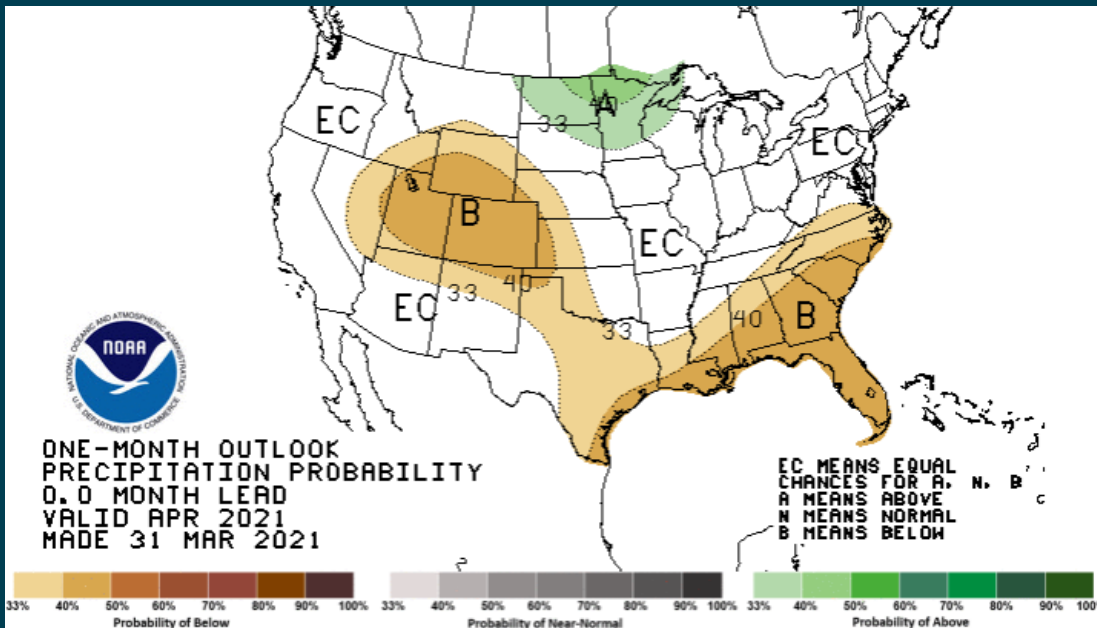
PATR – Pathfinder
SEMR - Seminoe



Current Snow Conditions

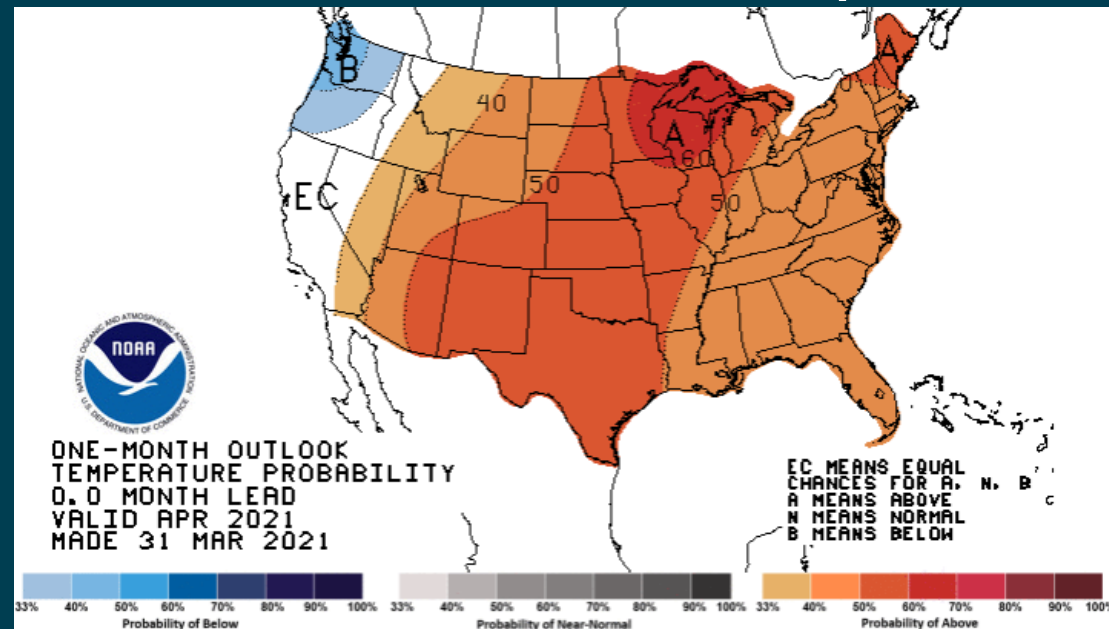


One Month Outlook (April)

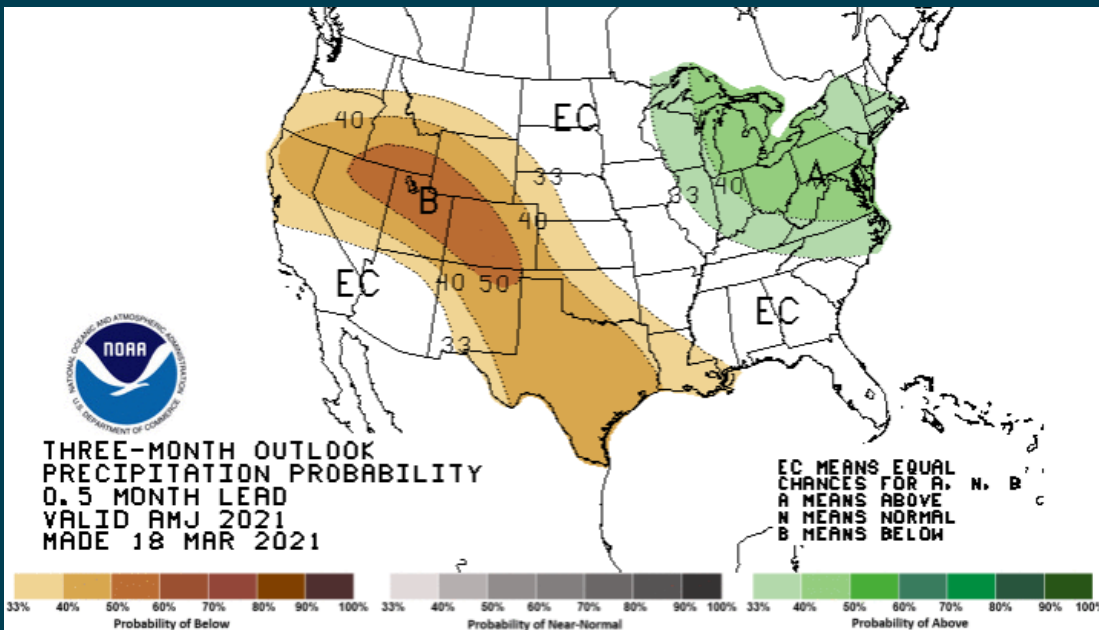


Precipitation

Temperature

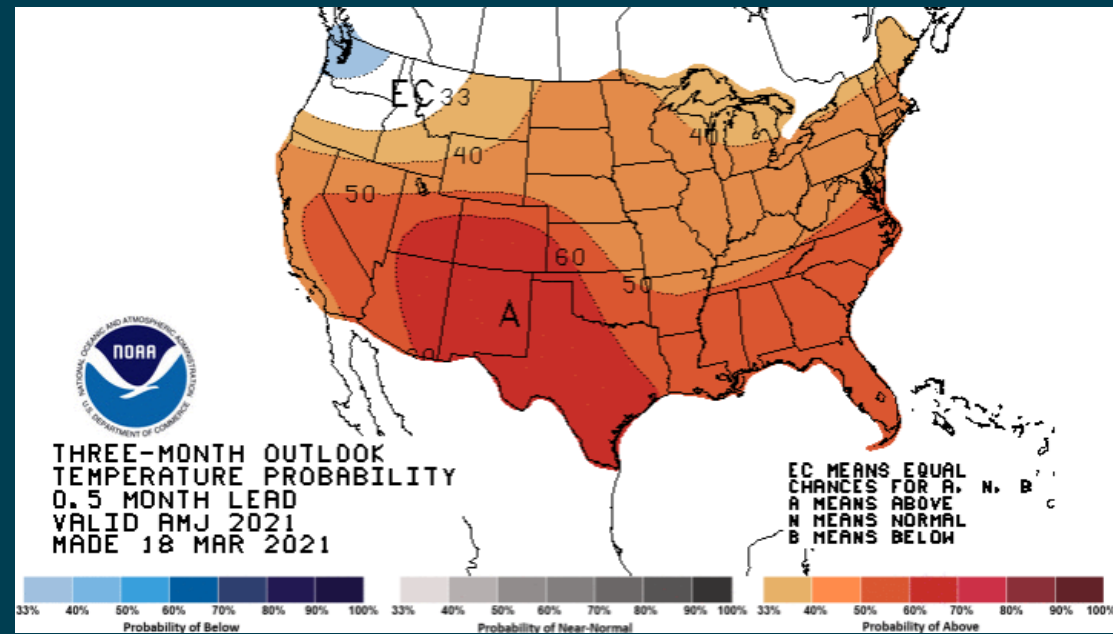


Three Month Outlook (April-June)



Precipitation

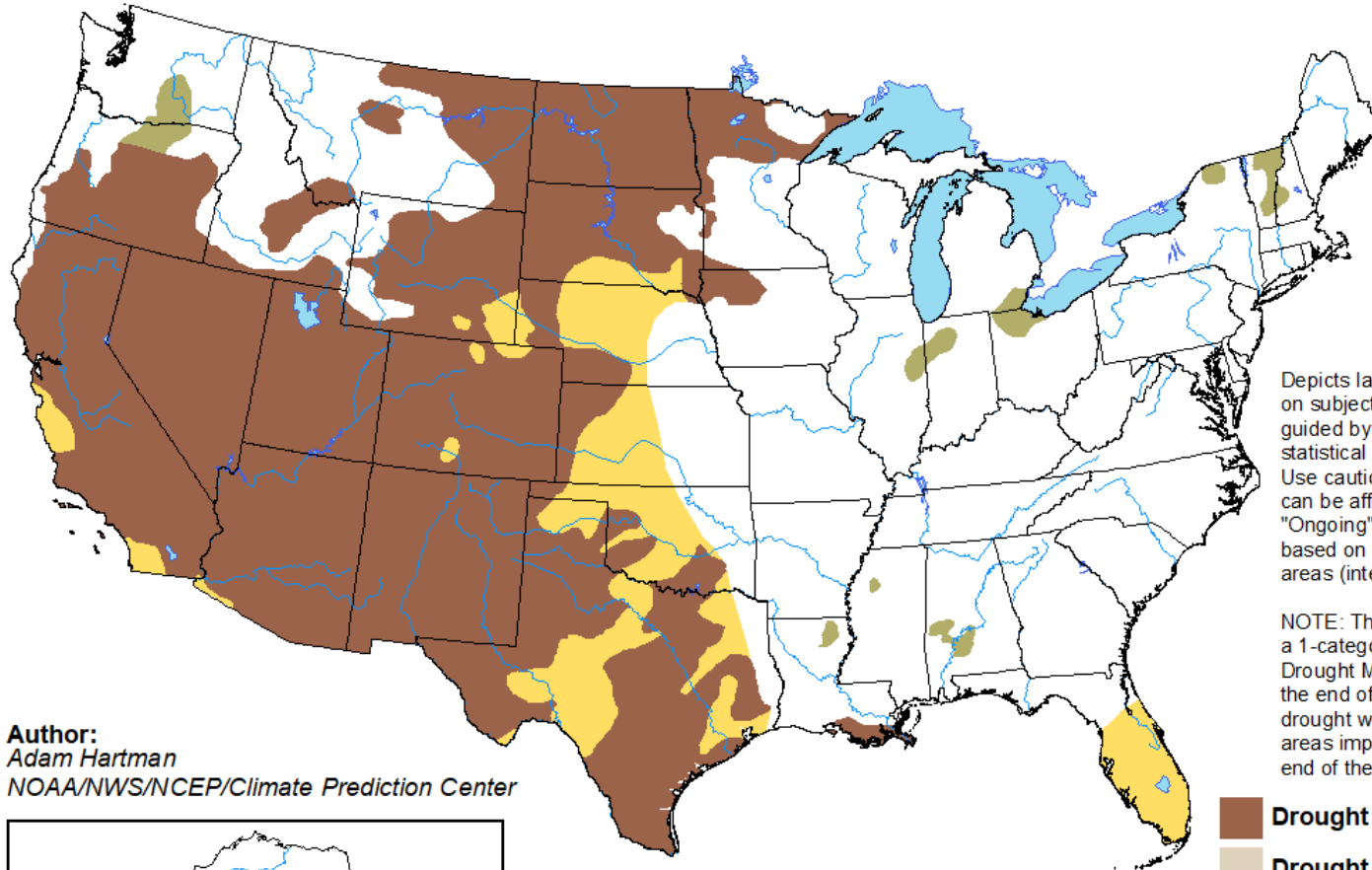
Temperature



Seasonal Drought Outlook (thru June 30)

U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period





Valid for March 18 - June 30, 2021
Released March 18



Author:
Adam Hartman
NOAA/NWS/NCEP/Climate Prediction Center

Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

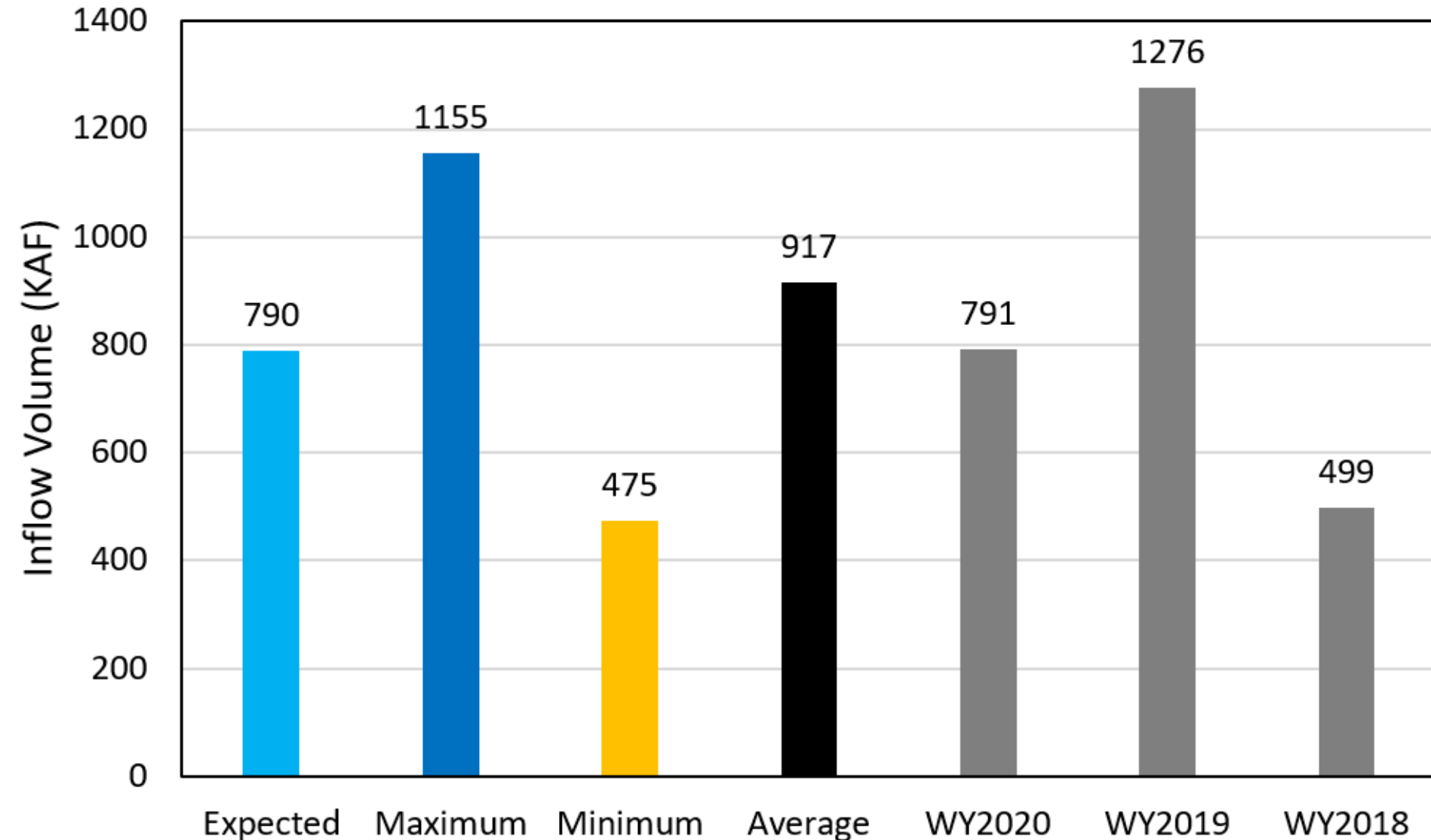
-  Drought persists
-  Drought remains but improves
-  Drought removal likely
-  Drought development likely



<http://go.usa.gov/3eZ73>



North Platte Above Glendo April 1st Runoff Forecast of April-July Inflows



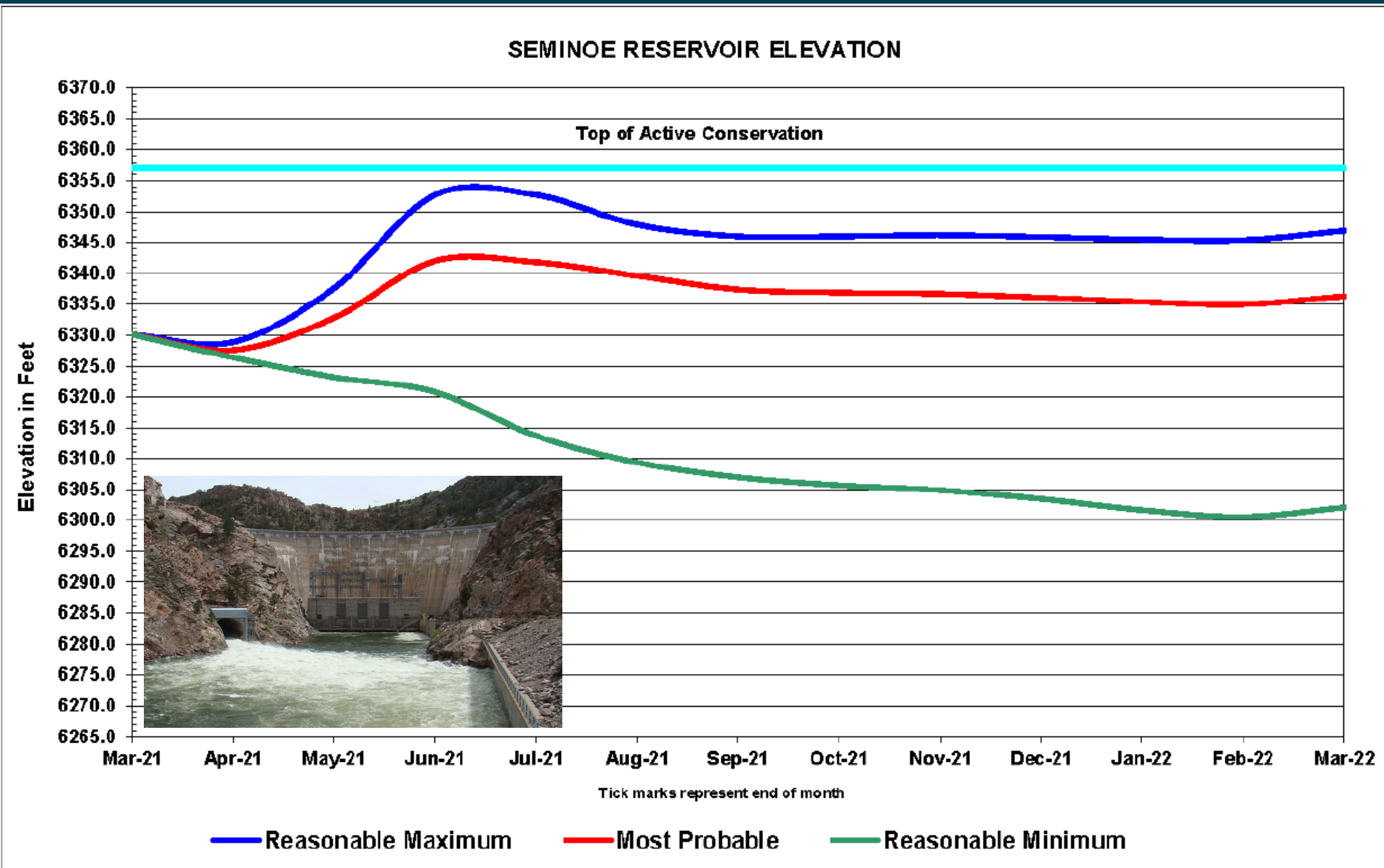
Allocation

No allocation expected based on April 1 Forecast

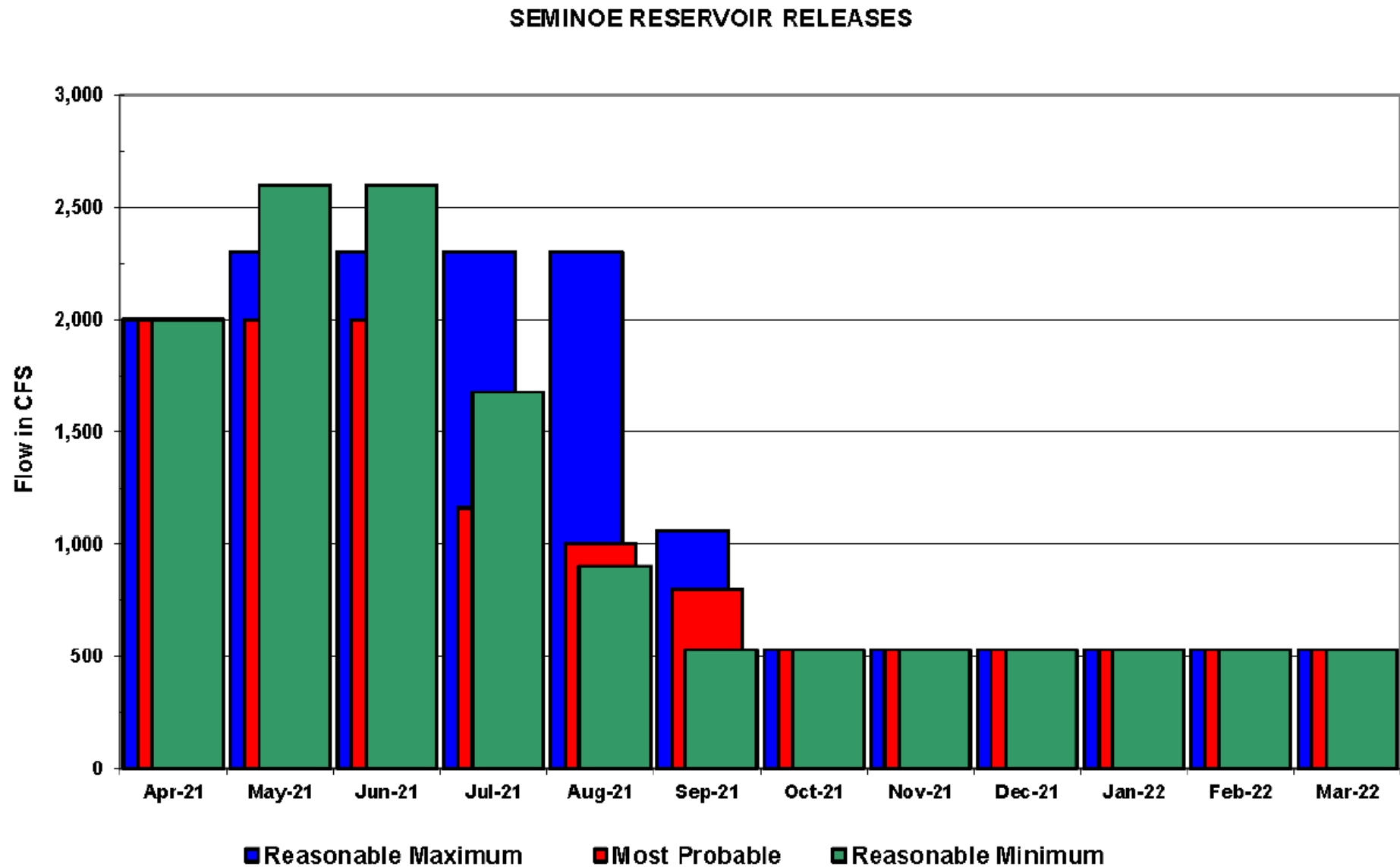
Approximate Irrigation Demand 1.1 MAF

Forecasted Supply 1.37 MAF

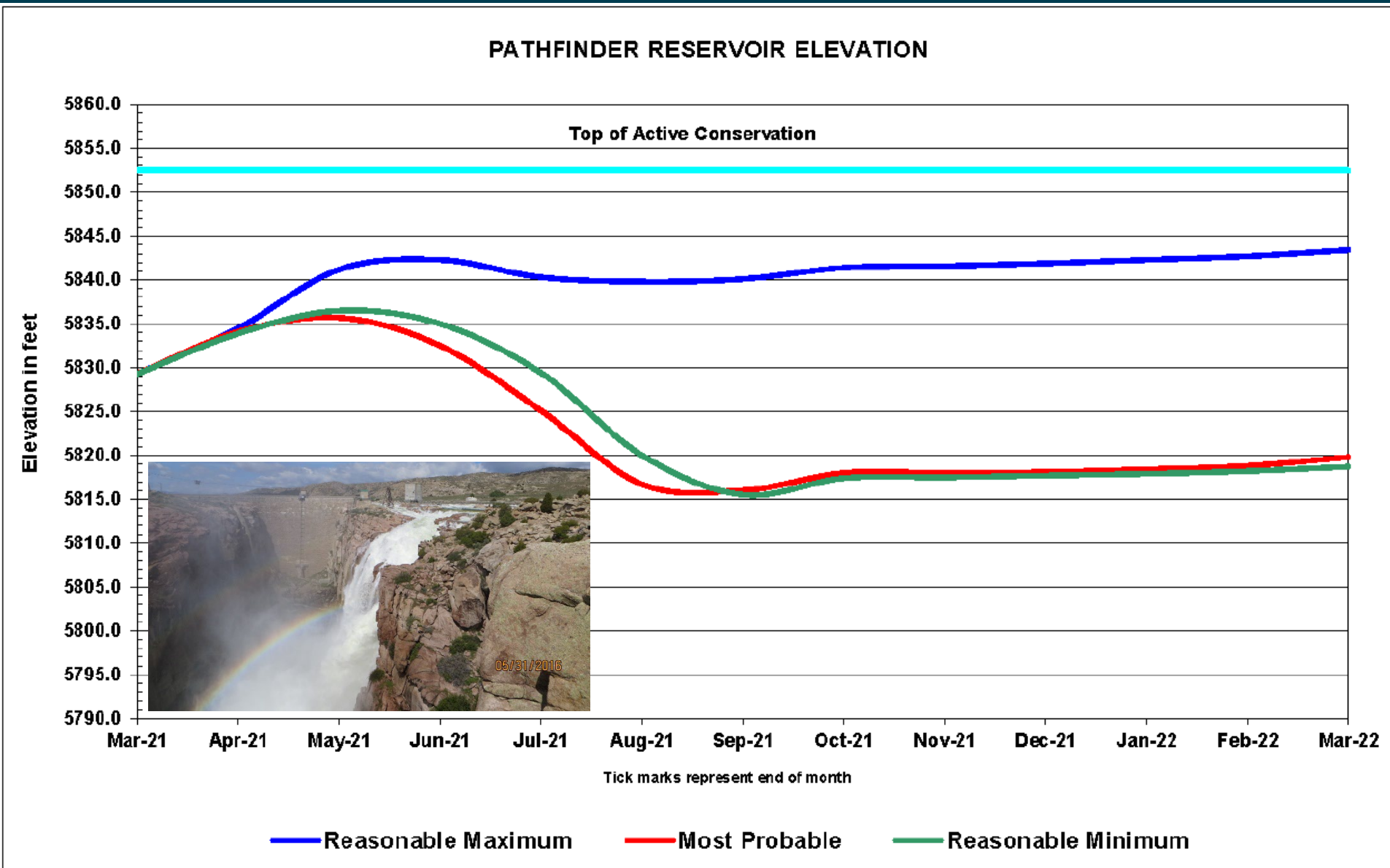
Seminole Reservoir Operations: Elevation



Seminole Reservoir Operations: Outflow

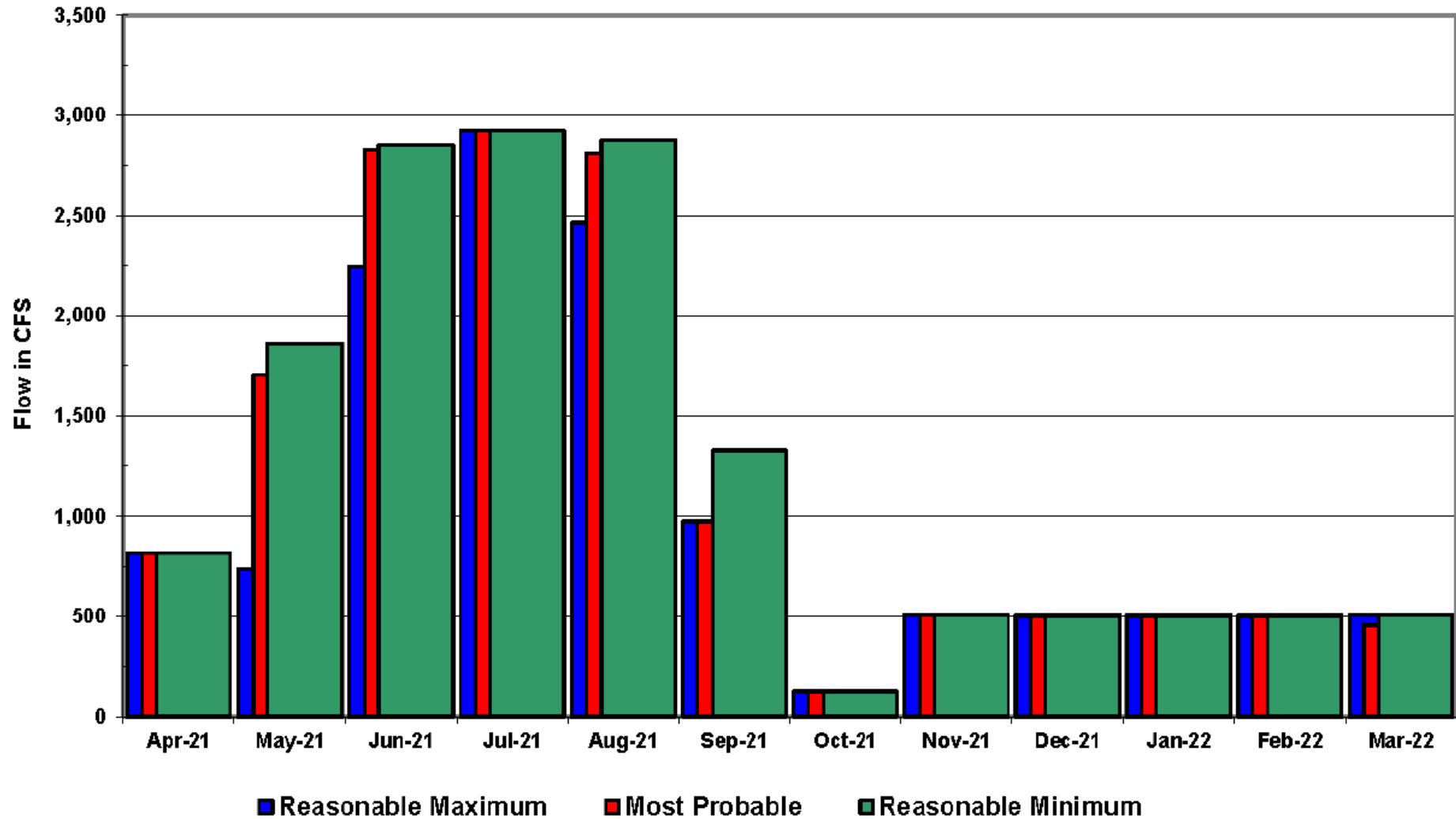


Pathfinder Reservoir Operations: Elevation

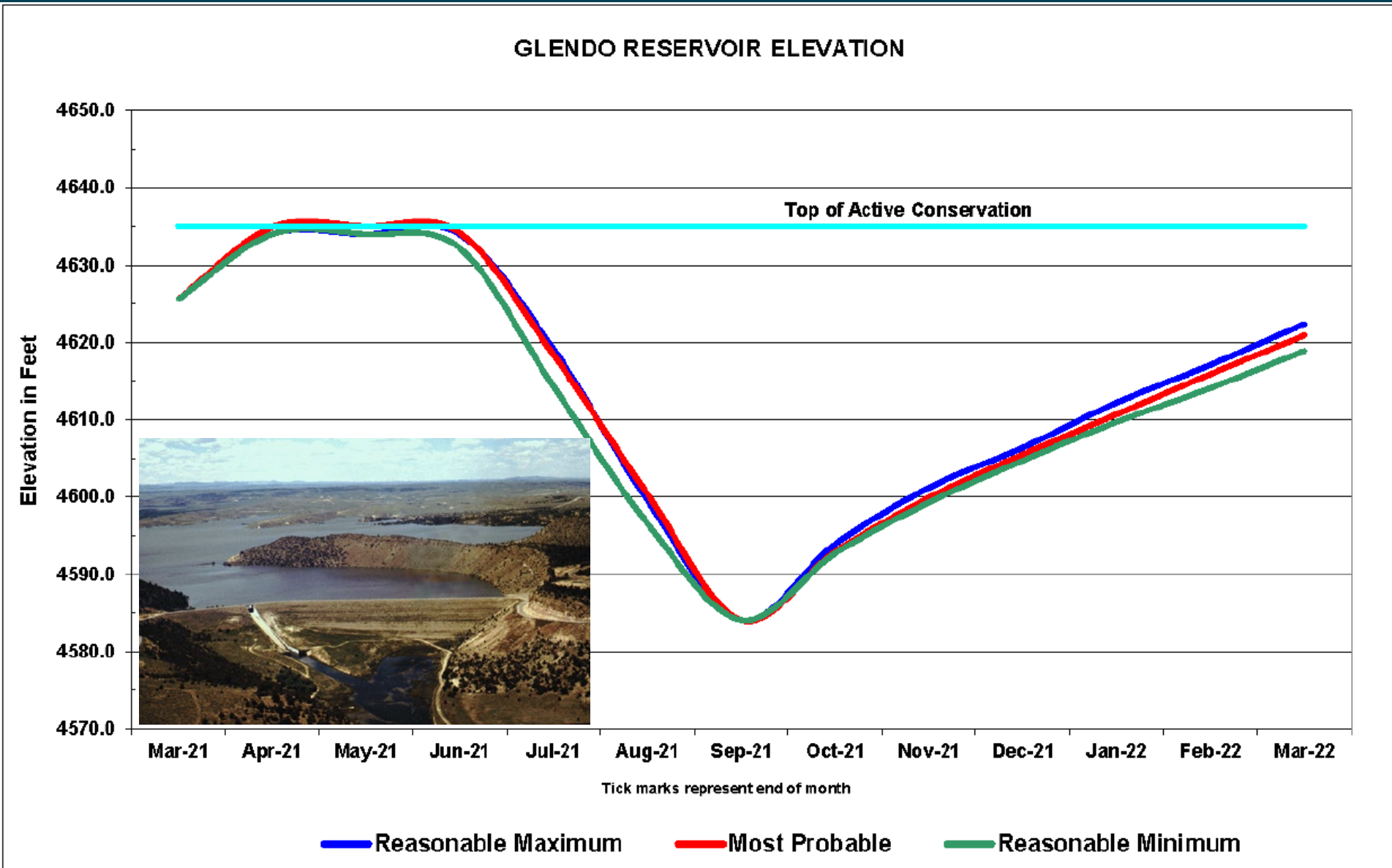


Pathfinder Reservoir Operations: Outflow

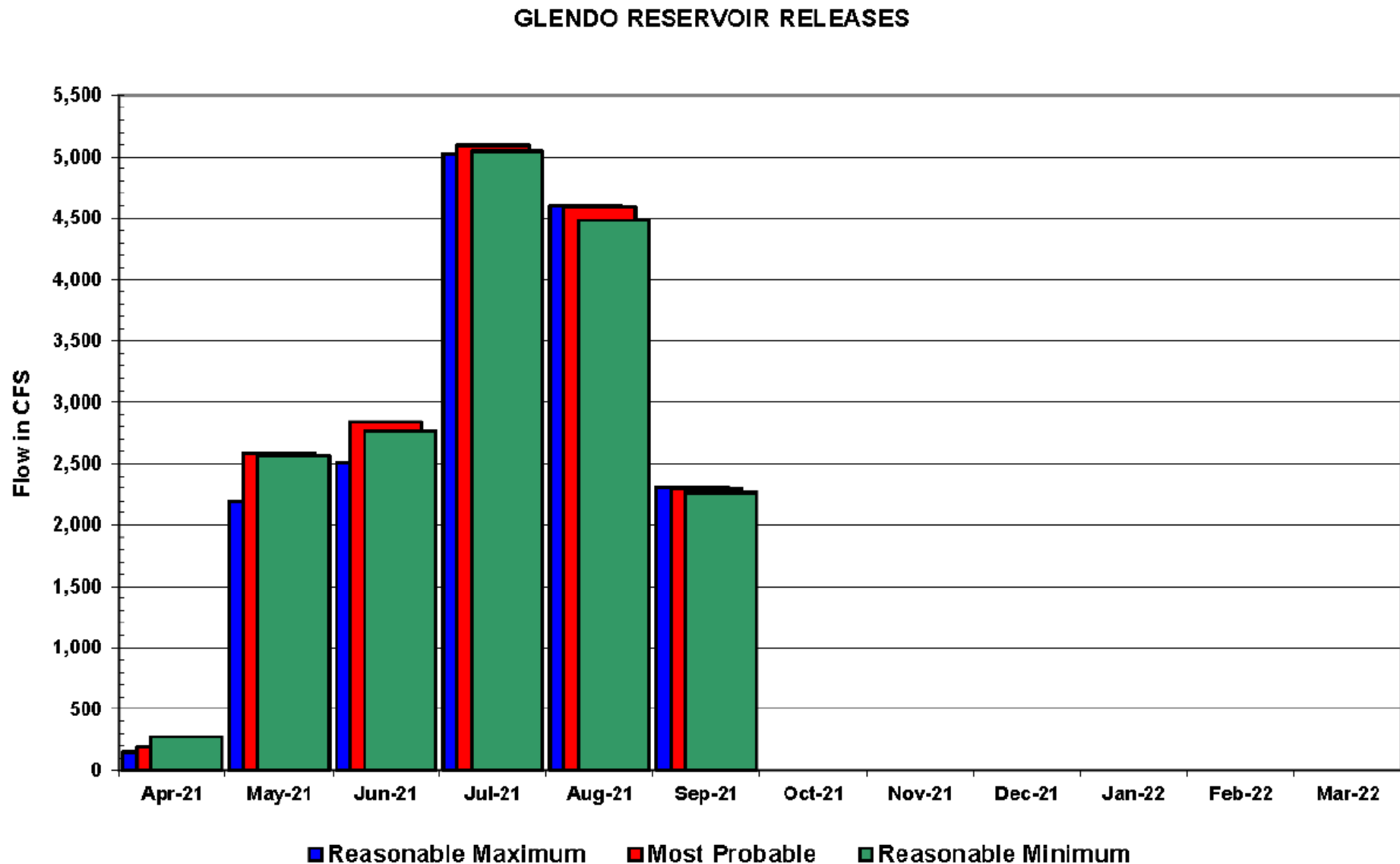
PATHFINDER RESERVOIR RELEASES



Glendo Reservoir Operations: Elevation



Glendo Reservoir Operations: Outflow



WYAO

Wyoming Area Office

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<https://www.usbr.gov/gp/hydromet/>



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