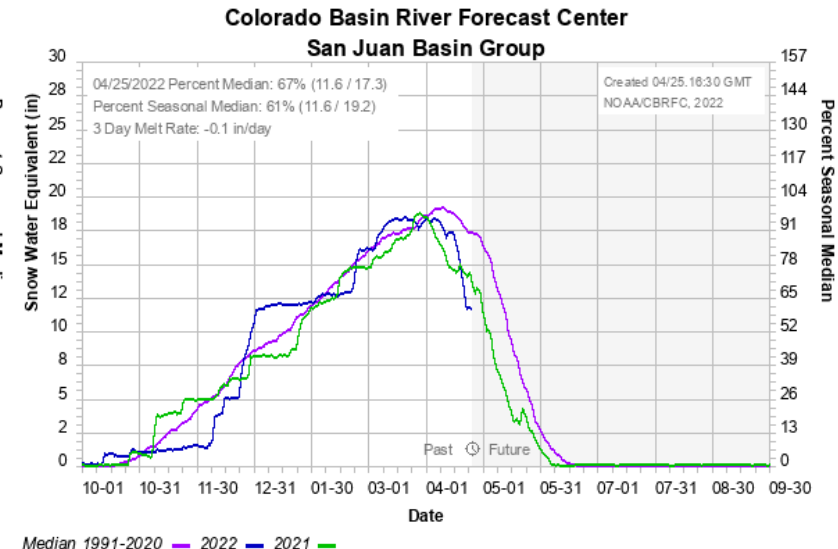
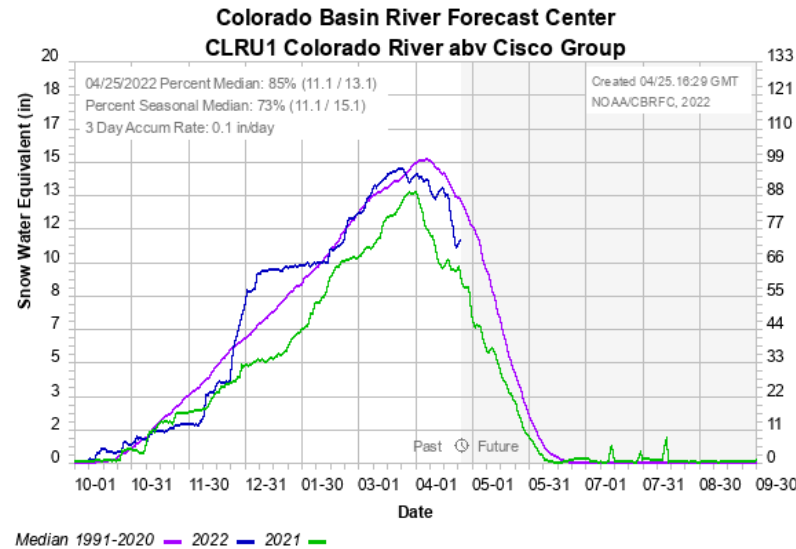
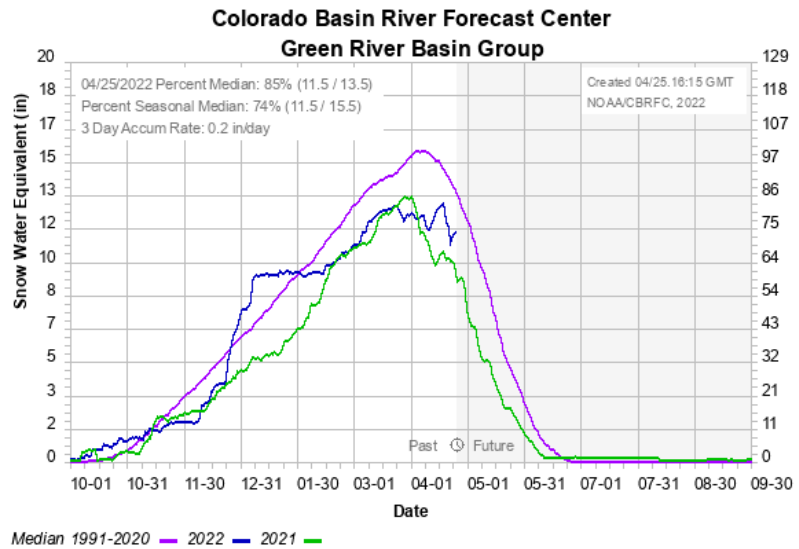


Colorado River Water Supply Report May 2022

Vineetha Kartha
Colorado River Programs Manager

CAWCD Board Meeting
May 5, 2022

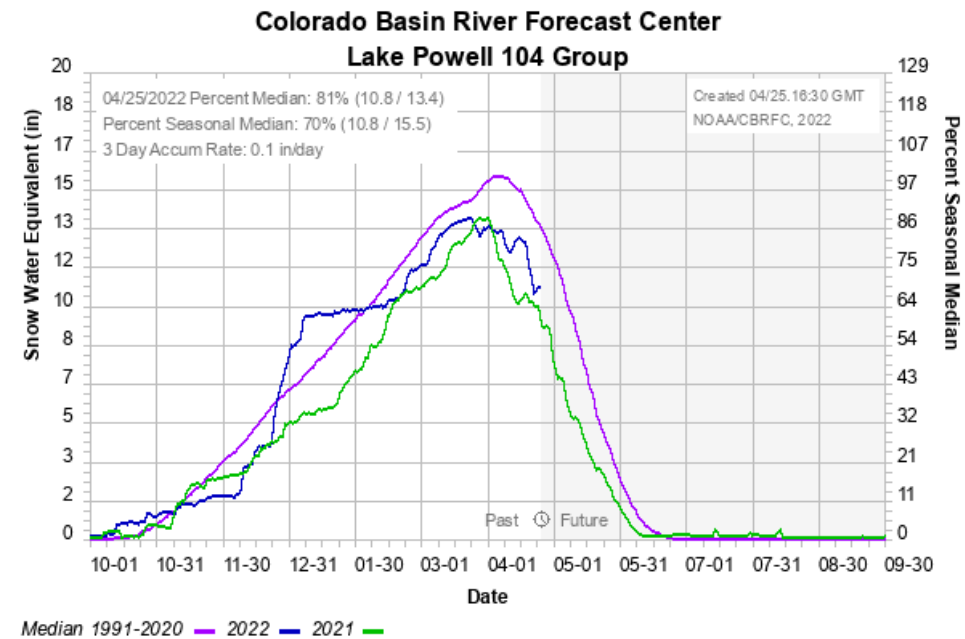


As of 4/25/2022, snow accumulation in the Green River Basin (which contributes ~33% of the flows into Lake Powell) is at 11.5 in. (blue line), which is 85% of the 30-year median for this date of 13.5 in. (purple line). The green line is last year's data.

Snow accumulation in the Upper Colorado River Basin (contributes ~42%) to date is at 11.1 in., which is 85% of the 30-year median for this date of 13.1 in.

Snow accumulation in the San Juan River Basin (contributes ~13%) to date is at 11.6 in., which is 67% of the 30-year median for this date of 17.3 in.

For the overall Colorado River Basin above Lake Powell, the snow accumulation to date is at 10.8 in., which is 81% of the 30-year median for this date of 13.4 in.

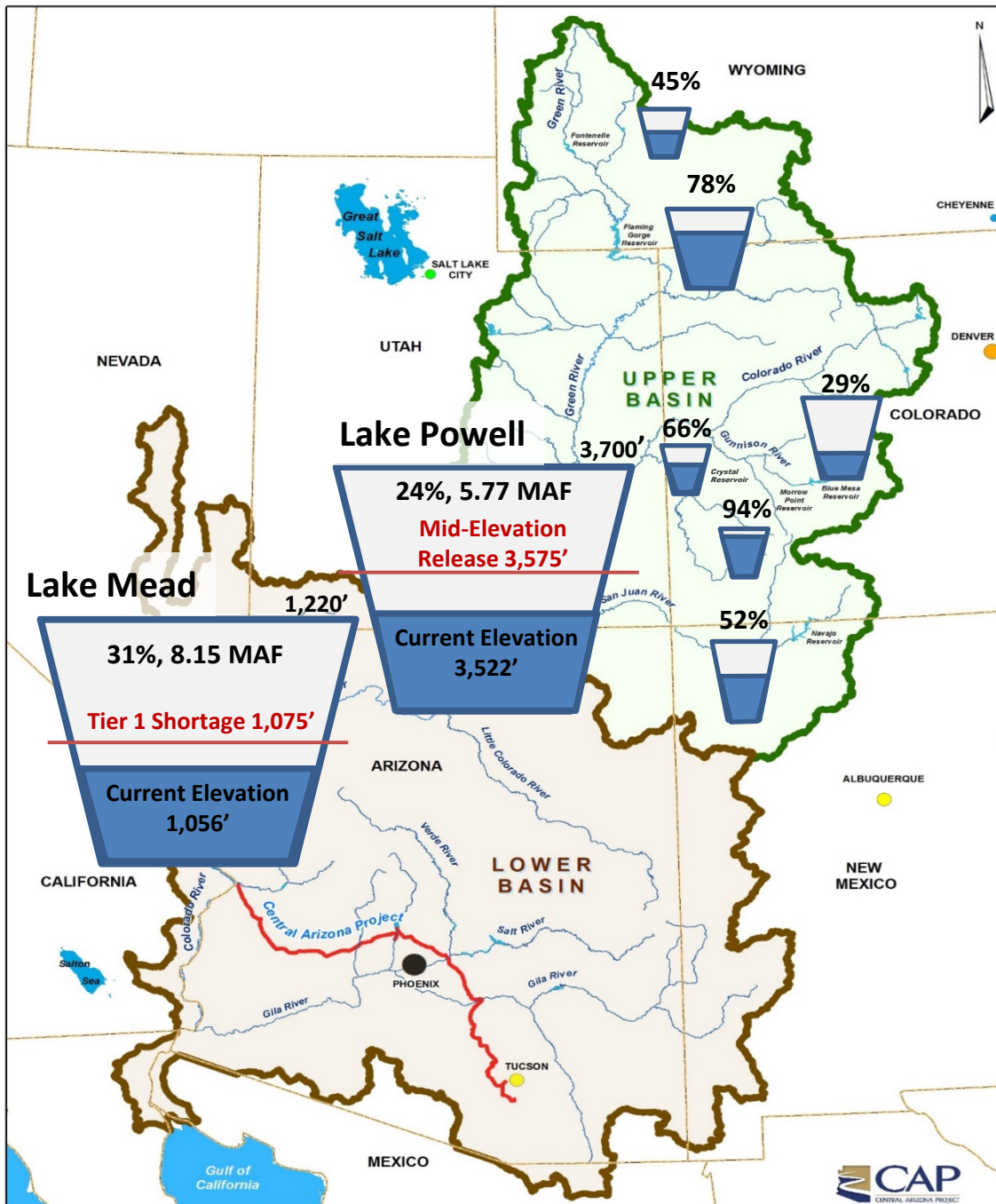


Colorado River Water Supply Report

System Contents: 18.27 MAF

As of April 24, 2022

Last Year System Contents: 23.46 MAF



Reservoir Capacities (MAF)

Reservoir	Current	Change*	Maximum
Lake Mead	8.15	- 0.44	25.90
Lake Powell	5.77	- 0.07	24.30
Flaming Gorge Reservoir	2.94	+ 0.02	3.75
Fontenelle Reservoir	0.15	+ 0.01	0.34
Navajo Reservoir	0.89	+ 0.04	1.70
Blue Mesa Reservoir	0.24	+ 0.01	0.83
Morrow Point Reservoir	0.11	0.00	0.12
Crystal Reservoir	0.02	0.00	0.03

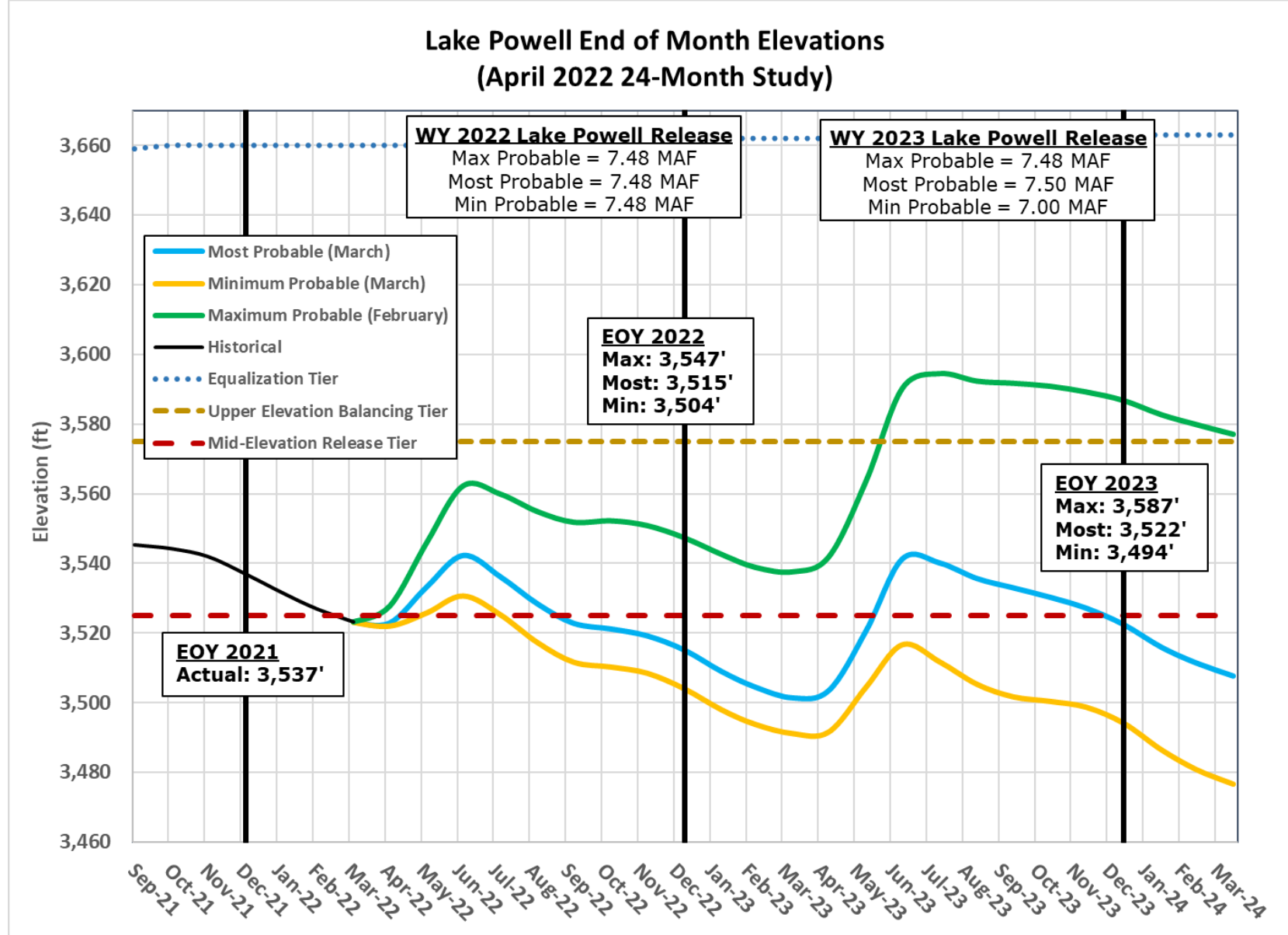
* With respect to previous month's report



YOUR WATER. YOUR FUTURE.

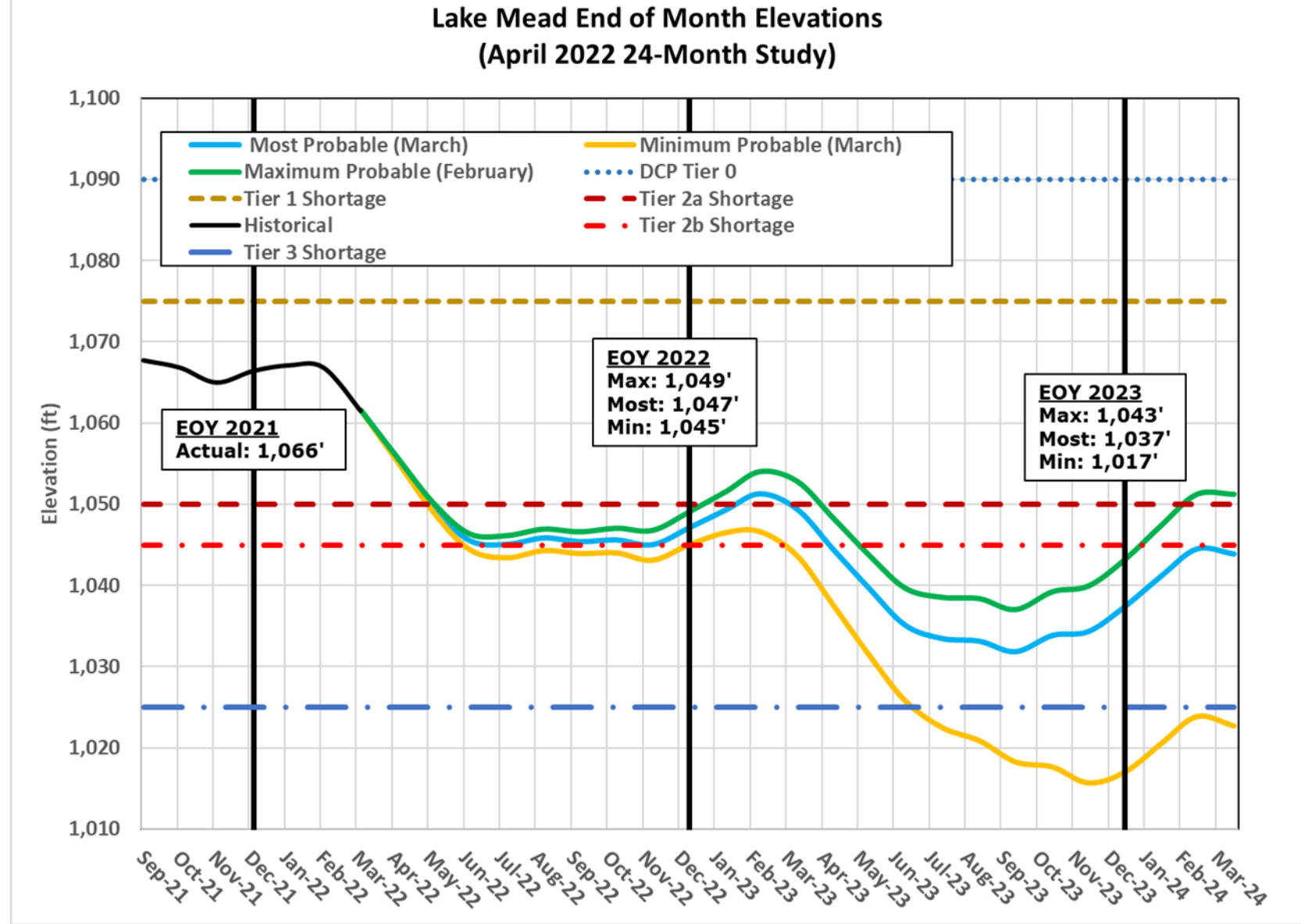
Powell End of Month Elevations – April 24-Month Study

- In WY 2022, projected release is 7.48 MAF for Min, Most, and Max probable scenarios
- Lake Powell release in WY 2023 for Most Probable scenario decreased from 7.54 MAF to 7.50 MAF since last month
- Lake Powell elevations in the Max Probable scenario have decreased by up to 15 feet from last month's model

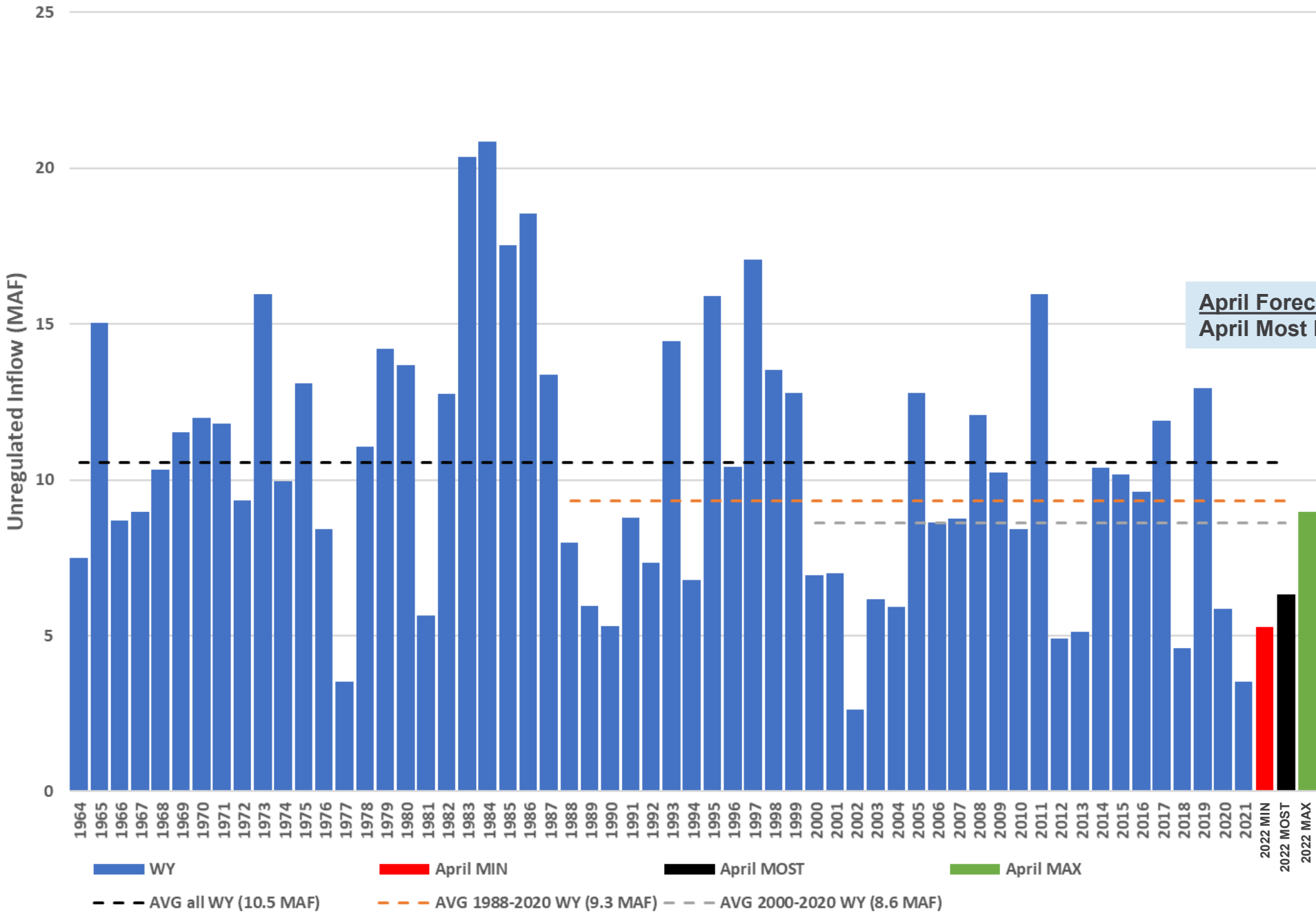


Mead End of Month Elevations – April 24-Month Study

- Projected 2023 Conditions:
 - T2a = All 3 scenarios
- Anticipated 2024 Conditions:
 - T2b = Most Probable
 - T3 = Min Probable



Unregulated Inflow to Lake Powell by WY (1964-2021)



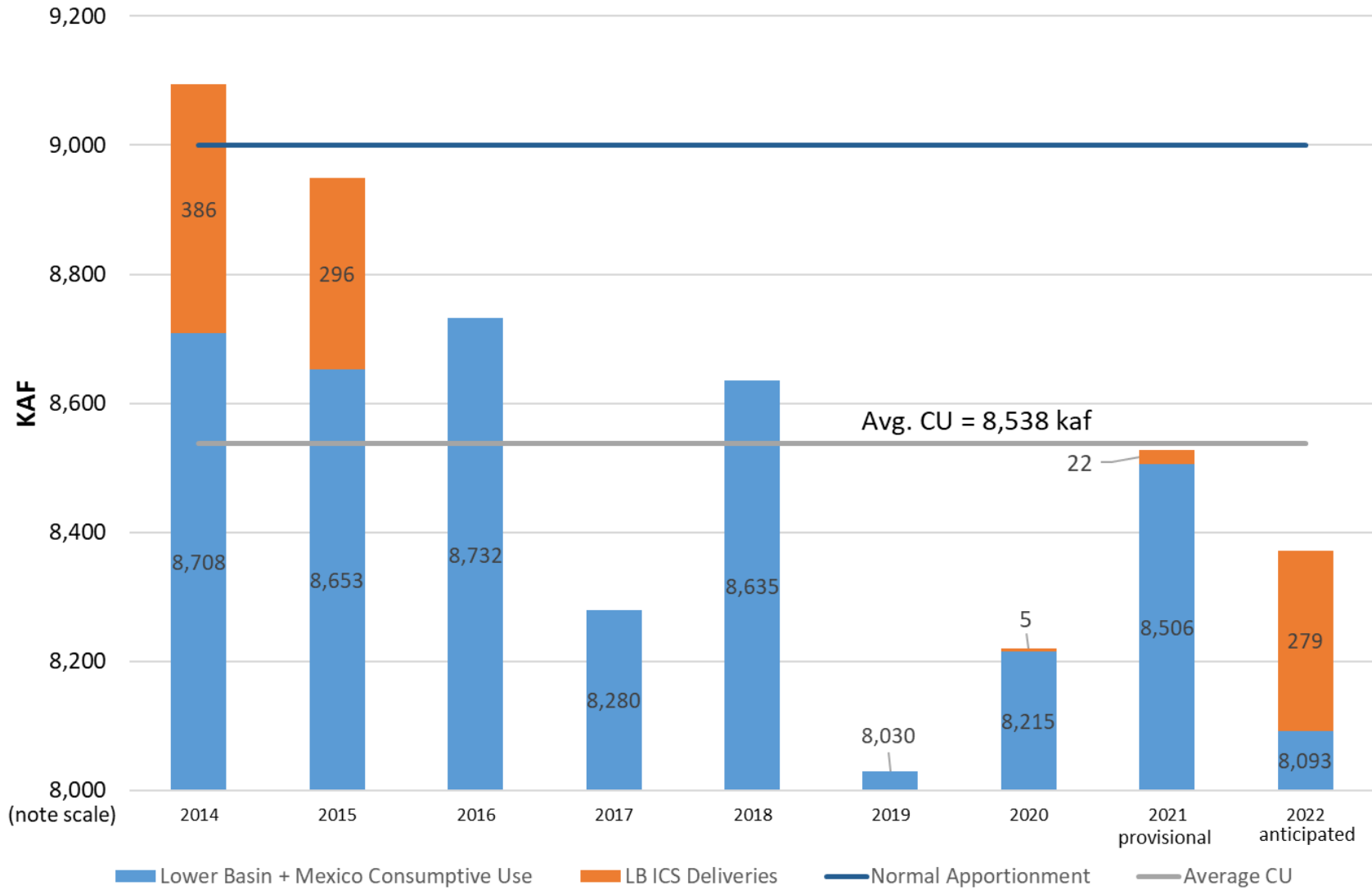
Water Year 2022 Forecast
 Apr Min Prob = 5.27 MAF (55%)
Apr Most Prob = 6.31 MAF (66%)
 Apr Max Prob = 8.98 MAF (94%)

Difference from Mar 2022
 Min Prob = -0.03 MAF
Most Prob = 0.27 MAF
 Max Prob = 0.52 MAF

April Forecast (Issued April 18)
 April Most Prob: 6.31 (66%) decrease of 0.47 MAF



**Lower Basin + Mexico Colorado River Consumptive Use
2014 - 2022
(values in kaf)**



Consumptive Uses in Lower Basin and Mexico: 2014-2022

- Average has been well below 9.0 MAF apportionment
- Includes delivery of ICS credits
- Each LB state has taken a delivery of ICS credits

Lake Powell Operational Uncertainty

- Prolonged drought, and low runoff conditions have depleted storage conditions
- At current levels, Glen Canyon Dam facilities face unprecedented operational reliability challenges
 - Below 3490' Water releases could only be made through River Outlet Works
 - Hydropower operations would be adversely impacted
- Water and Power supplies would be subject to increased operational uncertainty

The Department of the Interior has consulted with the Basin States on actions to protect the integrity of Glen Canyon Dam infrastructure, and to ensure water releases to the Lower Basin continue.

Exchange of Letters

- **April 8 – U.S. letter proposing reducing releases by 480 KAF in an operationally neutral manner from Lake Powell to Mead in coordination with 2022 DROA releases.**
- **April 22 – Basin States response to the U.S agreeing that additional cooperative actions should be taken to reduce the risk of Lake Powell declining below critical elevations**

Actions to Preserve Delivery Capacity from Lake Powell

500 KAF will be released from the Flaming Gorge Reservoir to Lake Powell, pursuant to the Drought Response Operations Agreement (“DROA”)

Reclamation will hold 480 KAF in Lake Powell, resulting in a release of 7.0 MAF to Lake Mead, rather than 7.48 MAF

- Tier/shortage determinations to be made as if the 480 KAF had been released from Glen Canyon Dam in WY 2022

DROA Releases

- **Goal is to reduce risks of declining below 3,490' in Lake Powell**
- **UCRC prepared and approved the DROA plan as of April 21, 2022**
 - **DROA – 3 step Process**
 - **Releases of approx. 500,000 acre-feet from May 2022 – April 2023**
 - **No DROA releases planned from Blue Mesa or Navajo planned at this time**