

Arizona Association of Women in Water and Agriculture

May 24, 2022 **Vineetha Kartha** *Colorado River Programs Manager Central Arizona Project*

Colorado **River in the** News

US West Prepares for Possible 1st Water Shortage Declaration

The New Hork Times

FILE - In this July 28, 2014, file photo, lightning strikes over Lake Mead near Hoover Dam that impounds Colorado Rive Area in Arizona. The Bureau of ...

AP

Courthouse News Service · 27d

Colorado River Reservoirs Are So Low. **Government Will Delay Releases** The decision will keep more water in Lake Powell on the Arizona-Utah border, instead of releasing it downstream to Lake Mead. Both reservoirs are at their lowest points.

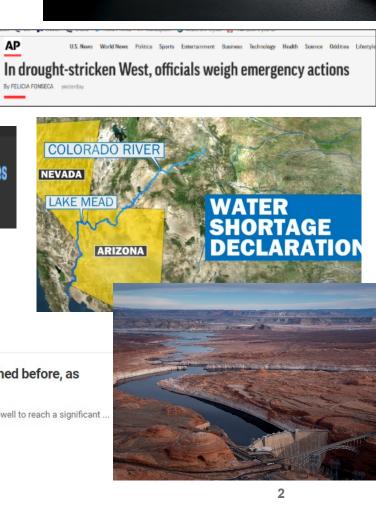
Lake Mead - "The shrinking lake" - Lake Mead at historic lows - Pictures - CBS News



Lake Powell is about to drop below a critical level never reached before, as drought rages on

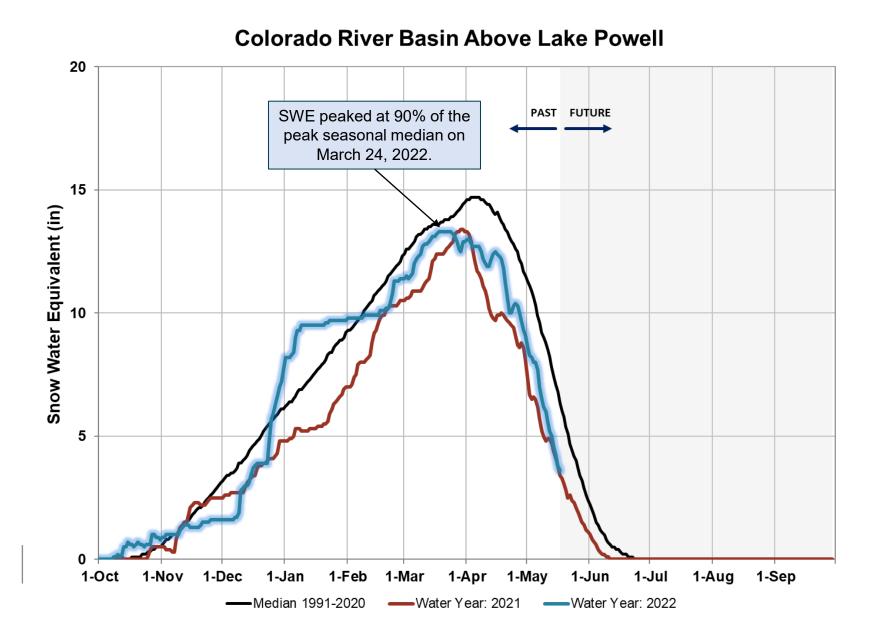
The US Bureau of Reclamation told CNN it is currently anticipating water levels in Lake Powell to reach a significant ..

CNN · 11d



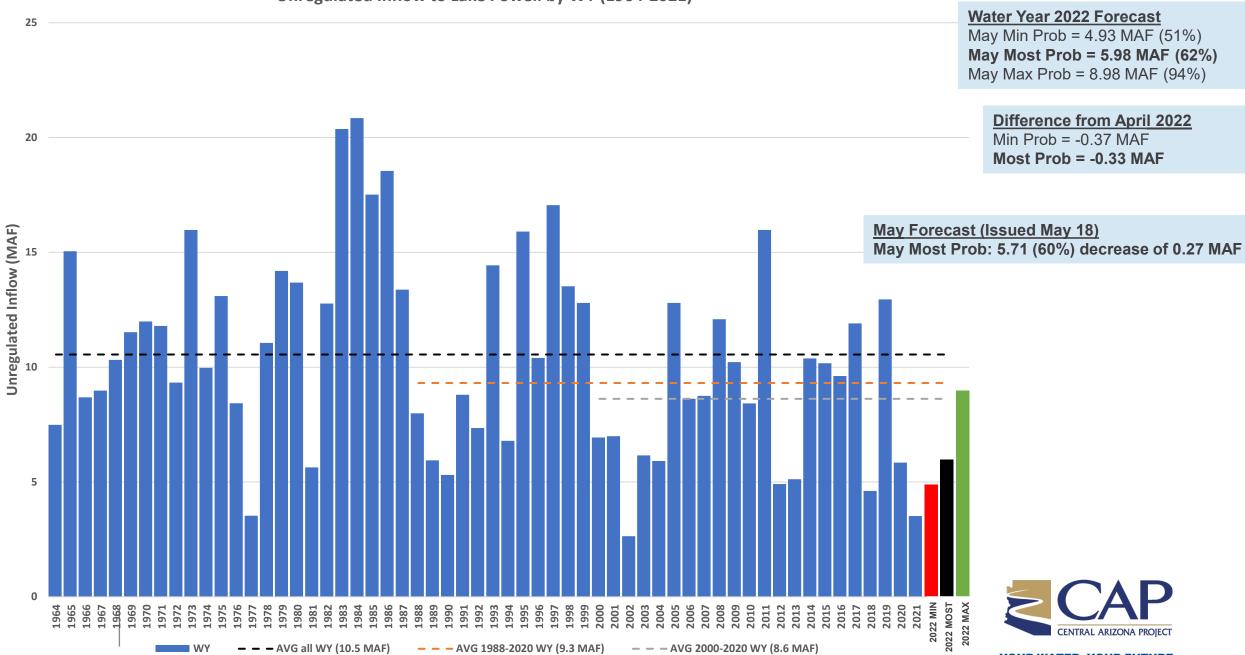


WY 2022 Snowpack



3





What have we done so far?

2007 Guidelines

- Established common commitment for sharing water surplus and shortage
- Created opportunities to conserve water in Lake Mead, including intentionally created surplus (ICS)
- Formalized procedures for coordinated reservoir operations
- Established elevation triggers for reservoir releases and shortage declaration

Minute 323

• Signed in 2017 expanding collaboration and sharing between Mexico and the U.S.

Drought Contingency Plan

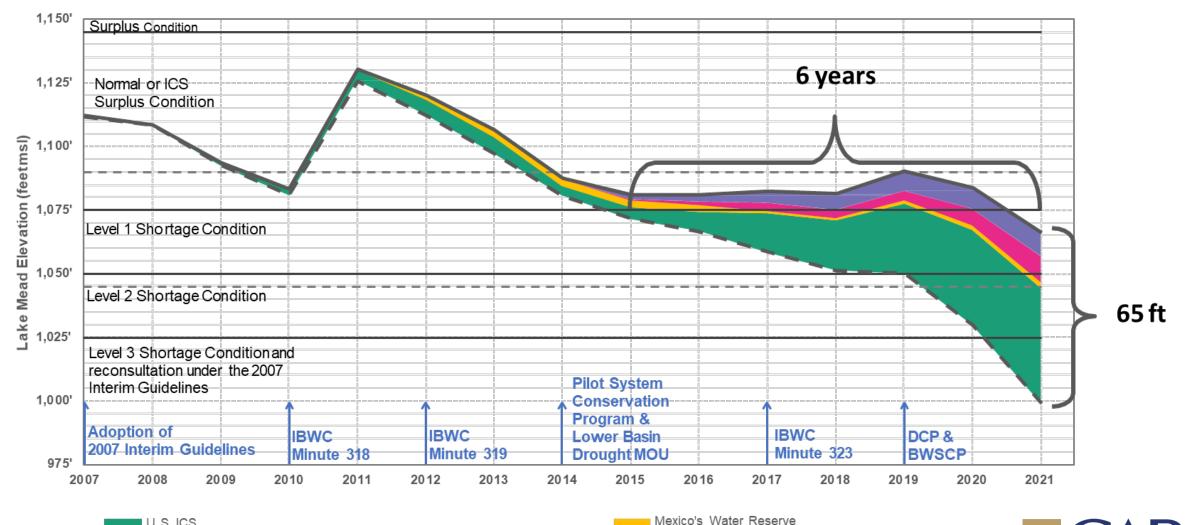
• 7 states agreements to protect the Colorado River system through reductions and conservation

500+ Plan

 Lower Basin states agreed to target a combined minimum of 1 MAF in Lake Mead to protect against Lake Mead from falling to 1020'



Role of Conservation in protecting Lake Mead



U.S.ICS System Conservation Water 6 Actual Elevation



Other Conservation Activities

Hypothetical Elevation without Storage / Conservation Program



Figure courtesy of the US Bureau of Reclamation

2021 - 500+ Plan

- Goal is to keep Lake Mead from falling to dangerous levels through additional conservation
- Arizona's target of over 200 KAF in 2022 anticipates participation from both on-river and CAP water users
 - o Includes both Tribal and non-tribal participants
 - 30 KAF on-river
 - 193 KAF from CAP water users
- All contributions will directly benefit Lake Mead, through system water or storage, including reduced release of intentionally created surplus (ICS)
- CAP and ADWR are providing funding, and have established guiding principles for Arizona's contributions

Voluntary • Temporary • Compensated



Actions in Arizona in 2022

Total:	~812 KAF
 Other conservation actions: 	~86 KAF
o 500+ Plan conservation:	~214 KAF*
 Tier 1 DCP contribution: 	192 KAF
 Tier 1 Guidelines shortage reduction: 	320 KAF

* 500+ Plan Funding – US, ADWR, CAWCD, Metropolitan Water District of Southern California, Southern Nevada Water Authority



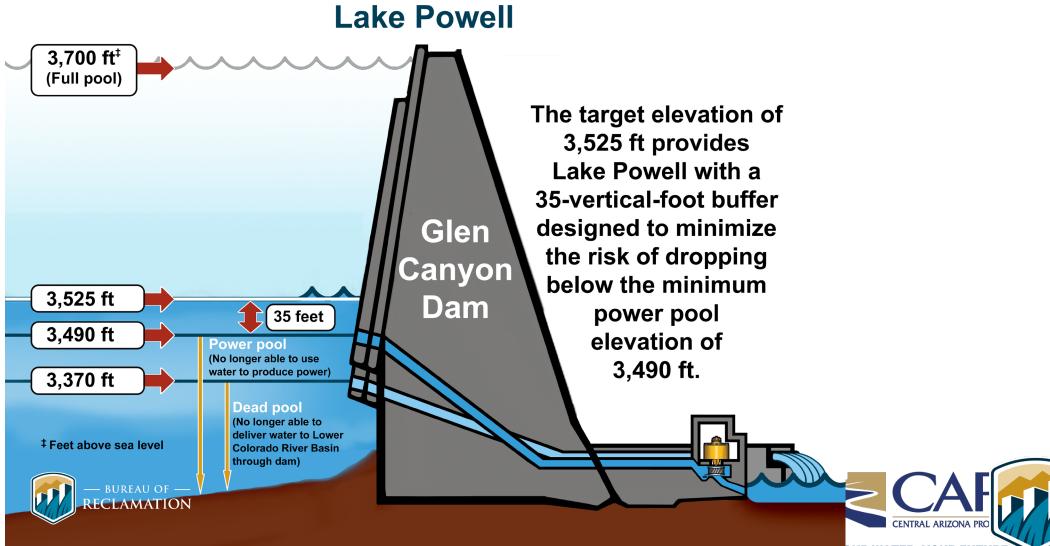
Lake Powell Operational Uncertainty

- 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

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.

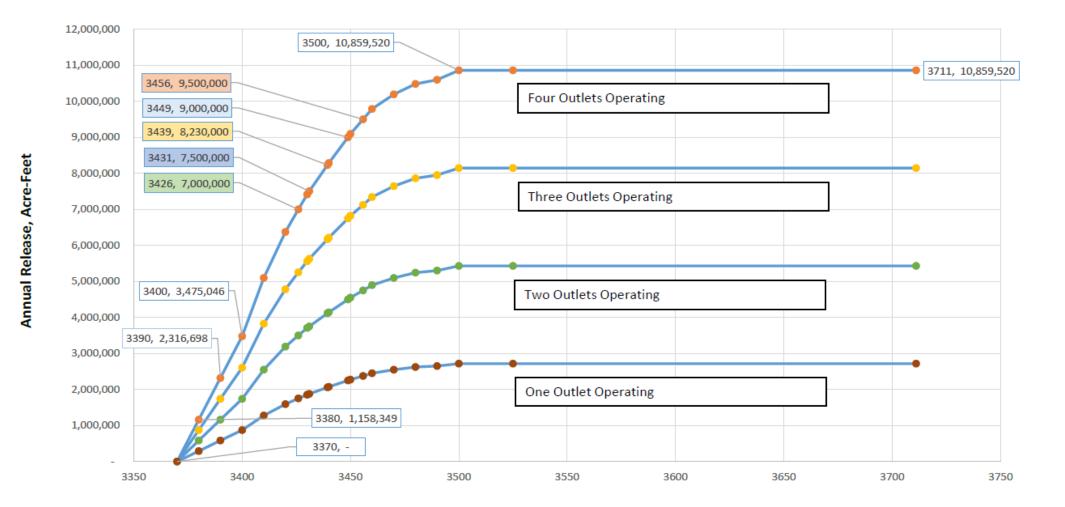


Lake Powell – Key Elevations



Outlet Works – Release Capacity

Glen Canyon Dam Bypass Maxium Release Capacity Through Bypass





Water Surface Elevation, Feet

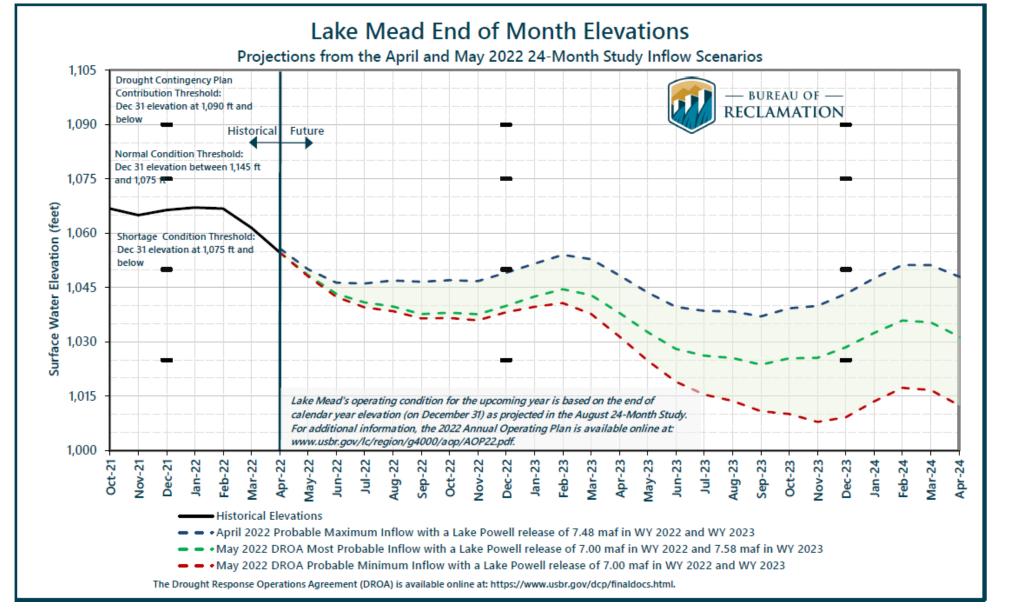
Actions to Preserve Delivery Capacity from Lake Powell

500 KAF will be released from Flaming Gorge Reservoir to Lake Powell, pursuant to the Drought Response Operations Agreement ("DROA") over the next 12 months

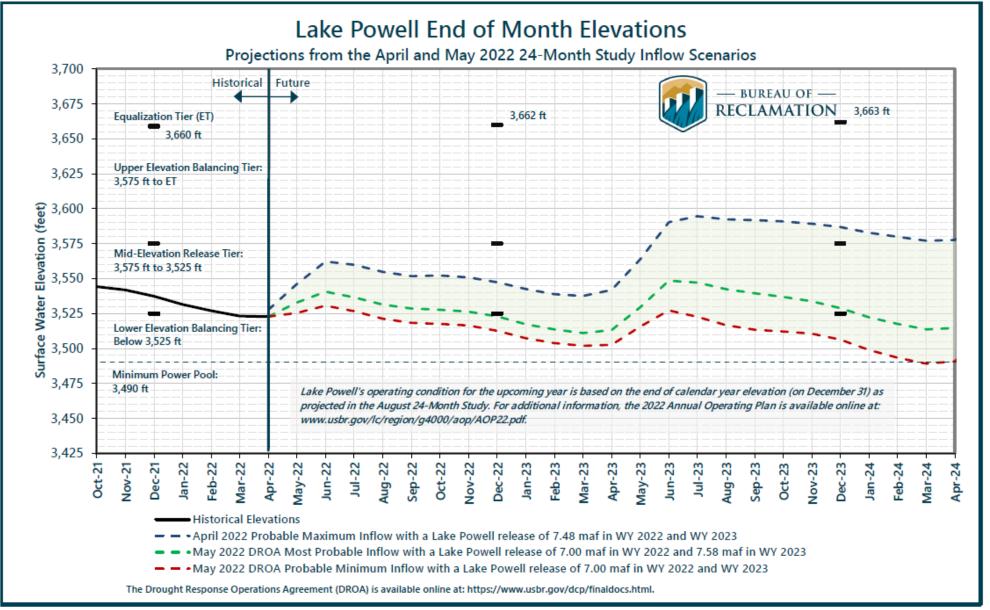
Reclamation will hold 480 KAF in Lake Powell, resulting in a release of 7.0 MAF to Lake Mead in Water Year 2022, rather than 7.48 MAF

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





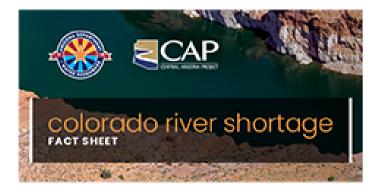






Resources

- CAP's news site KnowYourWaterNews.com
- CAP's main website (with information on DCP and Arizona Reconsultation Committee) – CentralArizonaProject.com
- Other resources:
 - Arizona Department of Water Resources – new.azwater.gov
 - US Bureau of Reclamation usbr.gov



ARIZONA - STRONGER TOGETHER

We articipate the feat-wave "Ter P shartoge destination on the Costrolos their beginning in 2003. The shartoge will result to a substantial value document shows of the new, with reductions failing largest to control Advance operatural values, those a popular for classes with only an electrical and those supplies removes require above.

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YOU SHOULD KNOW

- Advance is proposed for a Colorado floor abortage.
- Water Interests from throughout the state worked asterotively to share the tests and benefits of the prought contingency Pan (DCP).
- Together, these efforts reliate the join of the neighbor term reductions while addressing raiss of future shortspec.
- We see service imposited by observating in portrainings to make the new more substration during insight and the reacity of a holes and doer future.

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WHAT IS A COLORADO RIVER SHORTAGE?

A shortoge means a reductors in the Columba Row supply available to Alasma.

In 2020 and 2021 the free has been specifing in a "fair fair" status, requiring the finale to function (2020) scramfair of Arabient 2.0 million once free service entitiement to control Anionic Project (CoV) particles and may free the Cartool Anionic Project (CoV) particles

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The Tar Trieductions would constitute about 30% of CAPA normal supply about 31% of Adams's Colorado River supply, and reaction 35 of Adams's Units with use.





Questions