

# Welcome

The meeting will begin shortly, in the meantime please,

- Keep your phone muted during the meeting.
- If you have a question/comment during the meeting type it in the chat box and it will be read and addressed at the end of each presentation.
- During the Call to Public people will have the option to speak to the Council.
- If you experience any technical difficulties, please contact ADWR Help Desk at 602-771-8444 or [tickets@azwater.gov](mailto:tickets@azwater.gov)



# Meeting Agenda

1. Call to Order – Welcome & Introductions – *Chair*
2. Webinar Logistics – *Kennedy Shepard, ADWR*
3. GUAC Webpage Updates – *Kennedy Shepard, ADWR*
4. Election of Officers – *GUAC Members*  
GUAC Members will elect Chair and Vice-Chair to serve a two-year term
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  - a. Draft 5<sup>th</sup> Management Plan Presentation – *Natalie Mast*
  - b. AMA Sector Data Dashboards – *Amanda Long, Nick Redendo, Colette Pansini*
  - c. Mining Proposal – *Sandy Fabritz*
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# Phoenix AMA GUAC

## March 22, 2022



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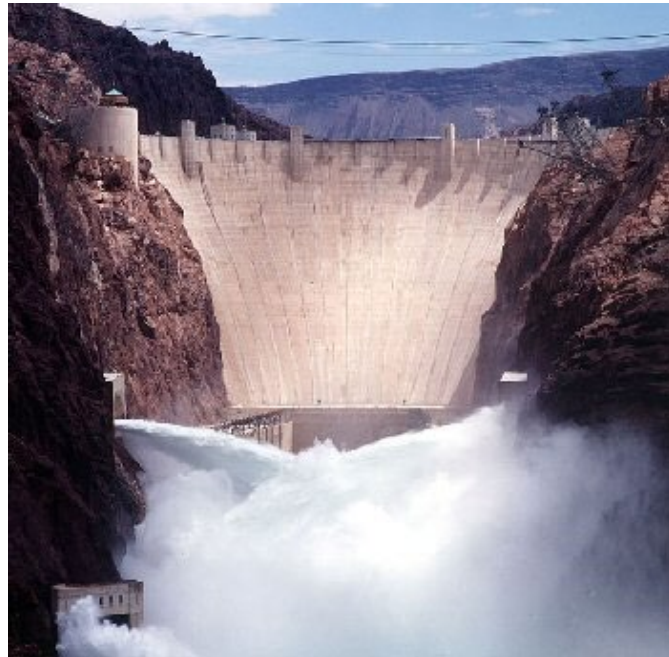
# ***COLORADO RIVER BASIN STATUS UPDATE***

Presented to:

**Groundwater Users Advisory Council**

**Phoenix Active Management Area**

**March 22, 2022**



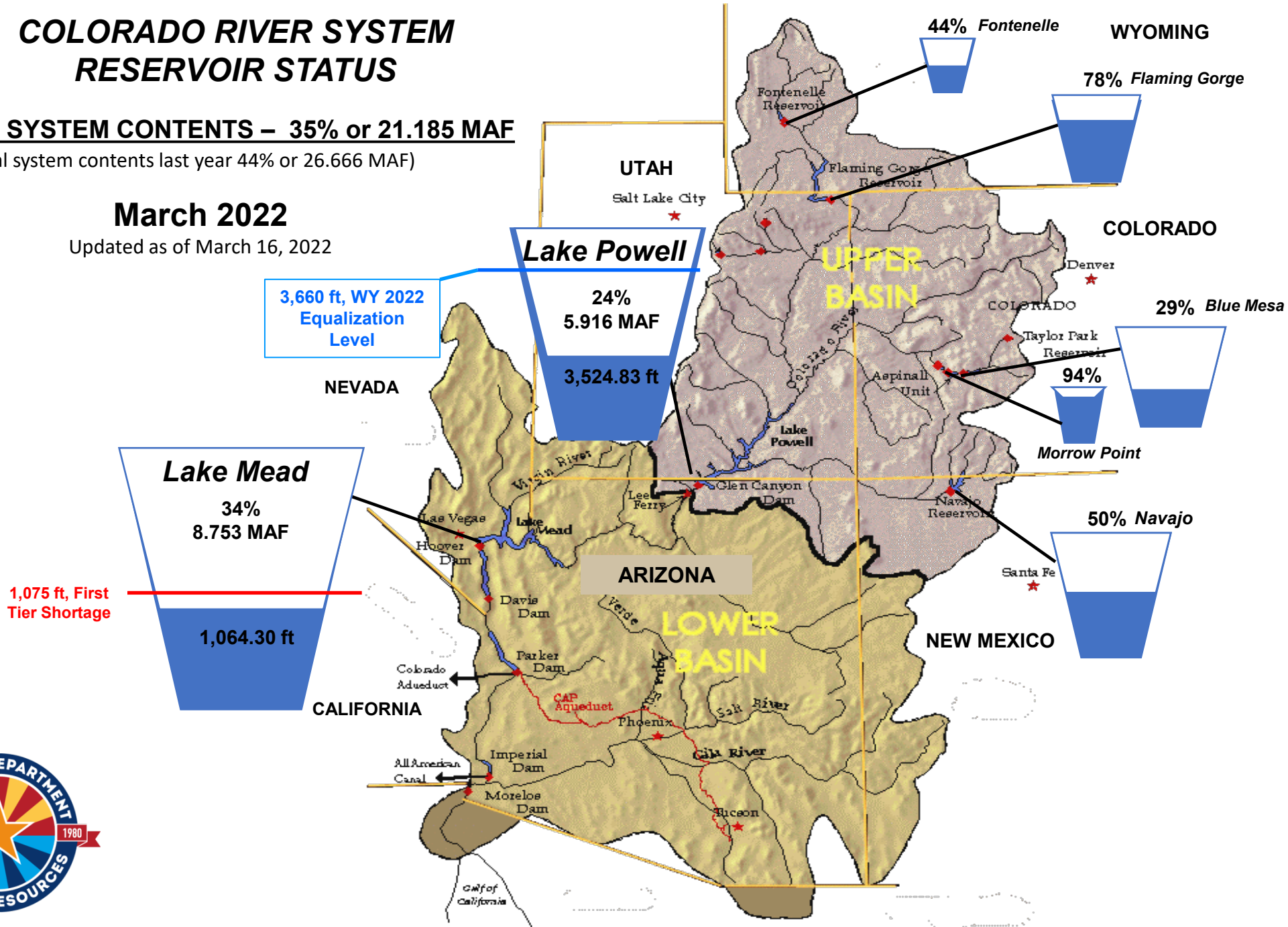
# COLORADO RIVER SYSTEM RESERVOIR STATUS

**TOTAL SYSTEM CONTENTS – 35% or 21.185 MAF**

(Total system contents last year 44% or 26.666 MAF)

**March 2022**

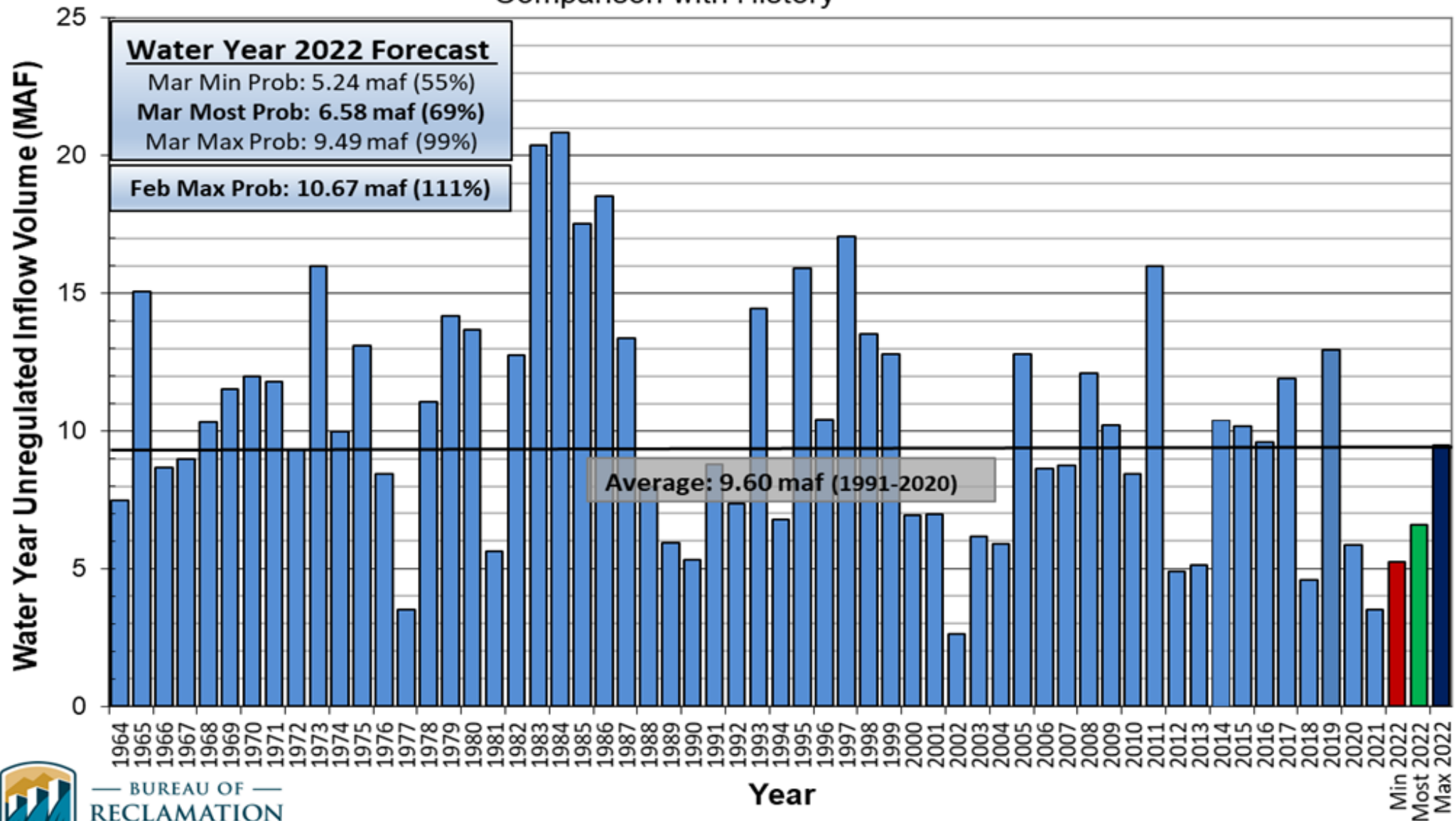
Updated as of March 16, 2022



# Lake Powell Unregulated Inflow

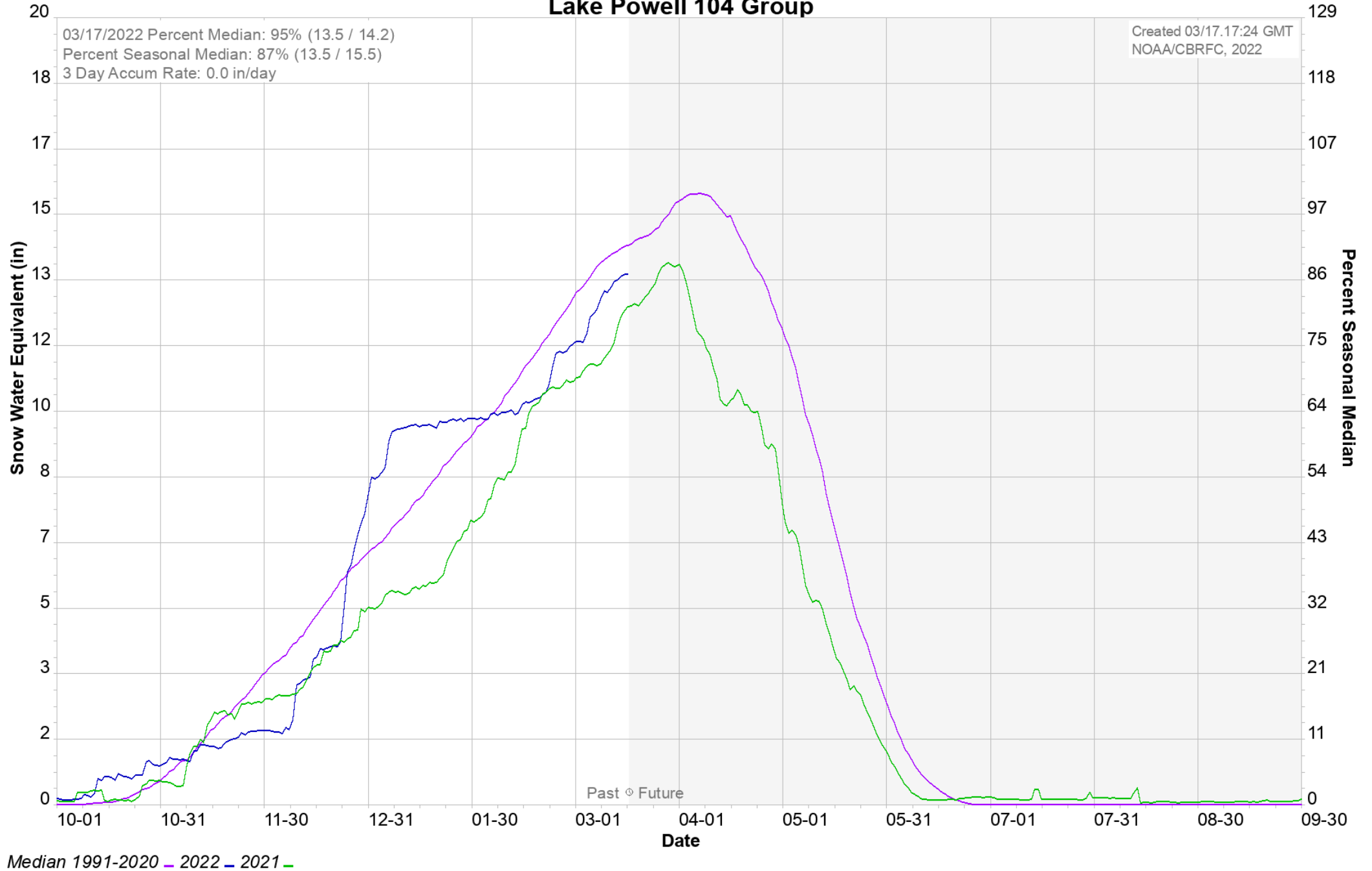
## Water Year 2022 Forecast (issued March 3)

### Comparison with History



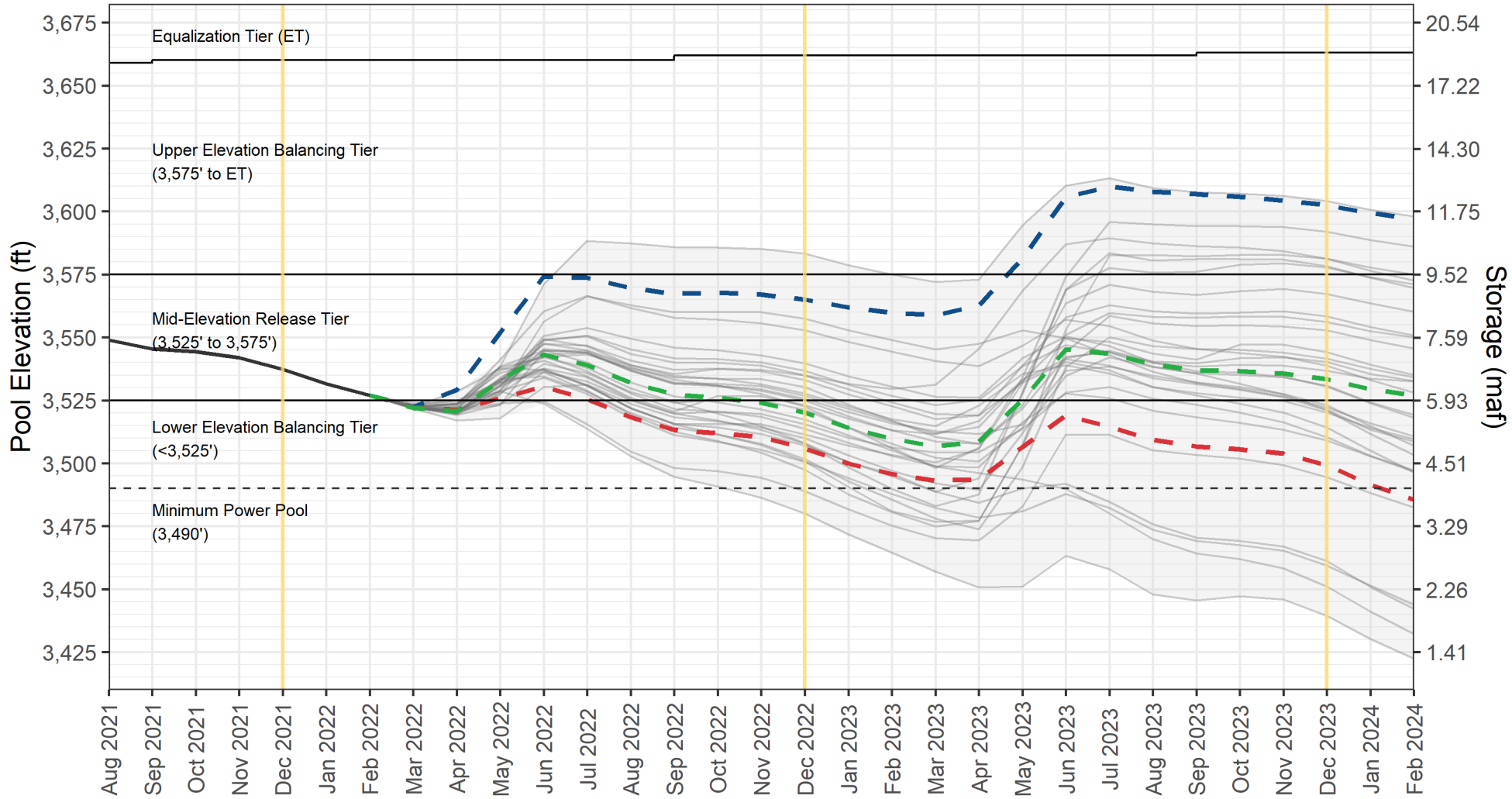
BUREAU OF RECLAMATION

# Colorado Basin River Forecast Center Lake Powell 104 Group



# Lake Powell End-of-Month Elevations

## CRMMS Projections from February and March 2022



**End of CY 2022 Projections**

Most Probable:  
3,520.08 feet (23% full)

Probable Min:  
3,505.84 feet

**End of CY 2023 Projections**

Most Probable:  
3,533.37 feet (27% full)

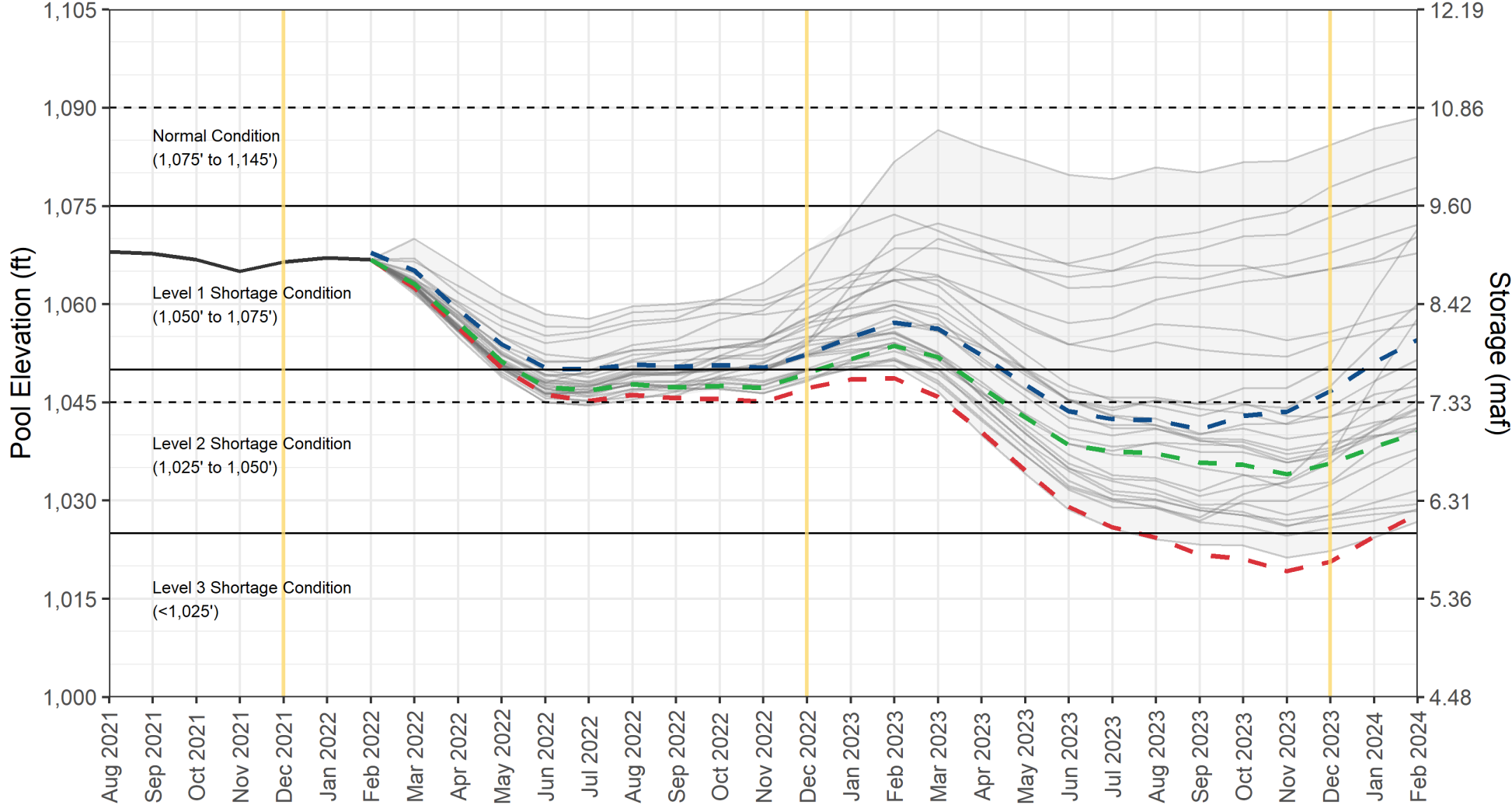
Probable Min:  
3,499.31 feet

- February 2022 DROA Probable Maximum 24-Month Study
- March 2022 Most Probable 24-Month Study
- March 2022 DROA Probable Minimum 24-Month Study
- Historical
- CRMMS-ESP Projection (30 traces)
- CRMMS-ESP Projection Range



# Lake Mead End-of-Month Elevations

## CRMMS Projections from February and March 2022



— February 2022 DROA Probable Maximum 24-Month Study    
 — Historical    
  CRMMS-ESP Projection Range  
- - - March 2022 Most Probable 24-Month Study    
 — CRMMS-ESP Projection (30 traces)  
- - - March 2022 DROA Probable Minimum 24-Month Study



**Lower Basin – Lake Mead**  
**Percent of Traces with Event or System Condition**  
**Results from February 2022 CRMMS-ESP (values in percent)**

<b>Event or System Condition</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	
<b>Surplus Condition – any amount (Mead ≥ 1,145 ft)</b>	0	0	0	0	0	
Surplus – Flood Control	0	0	0	0	0	
<b>Normal or ICS Surplus Condition (Mead &lt; 1,145 and &gt; 1,075 ft)</b>	0	0	7	7	7	
Recovery of DCP ICS / Mexico’s Water Savings (Mead >/≥ 1,110 ft)	0	0	0	0	0	
DCP Contribution / Mexico’s Water Savings (Mead ≤ 1,090 and > 1,075 ft)	0	0	7	3	0	<b>Tier 0</b>
<b>Shortage Condition – any amount (Mead ≤ 1,075 ft)</b>	100	100	93	93	93	
<b>Shortage / Reduction – 1<sup>st</sup> level (Mead ≤ 1,075 and ≥ 1,050)</b>	100	87	23	17	27	<b>Tier 1</b>
DCP Contribution / Mexico’s Water Savings (Mead ≤ 1,075 and > 1,050 ft)	100	87	23	17	27	
<b>Shortage / Reduction – 2<sup>nd</sup> level (Mead &lt; 1,050 and ≥ 1,025)</b>	0	13	67	47	27	
DCP Contribution / Mexico’s Water Savings (Mead ≤ 1,050 and > 1,045 ft)	0	13	10	13	7	<b>Tier 2a</b>
DCP Contribution / Mexico’s Water Savings (Mead ≤ 1,045 and > 1,040 ft)						
DCP Contribution / Mexico’s Water Savings (Mead ≤ 1,040 and > 1,035 ft)	0	0	57	33	20	<b>Tier 2b</b>
DCP Contribution / Mexico’s Water Savings (Mead ≤ 1,035 and > 1,030 ft)						
DCP Contribution / Mexico’s Water Savings (Mead ≤ 1,030 and ≥/ > 1,025 ft)						
<b>Shortage / Reduction – 3<sup>rd</sup> level (Mead &lt; 1,025)</b>	0	0	3	30	40	<b>Tier 3</b>
DCP Contribution / Mexico’s Water Savings (Mead </≤ 1,025 ft)	0	0	3	30	40	

Notes:

<sup>1</sup> Modeled operations include the 2007 Interim Guidelines, Upper Basin Drought Response Operations, Lower Basin Drought Contingency Plan, and Minute 323, including the Binational Water Scarcity Contingency Plan.

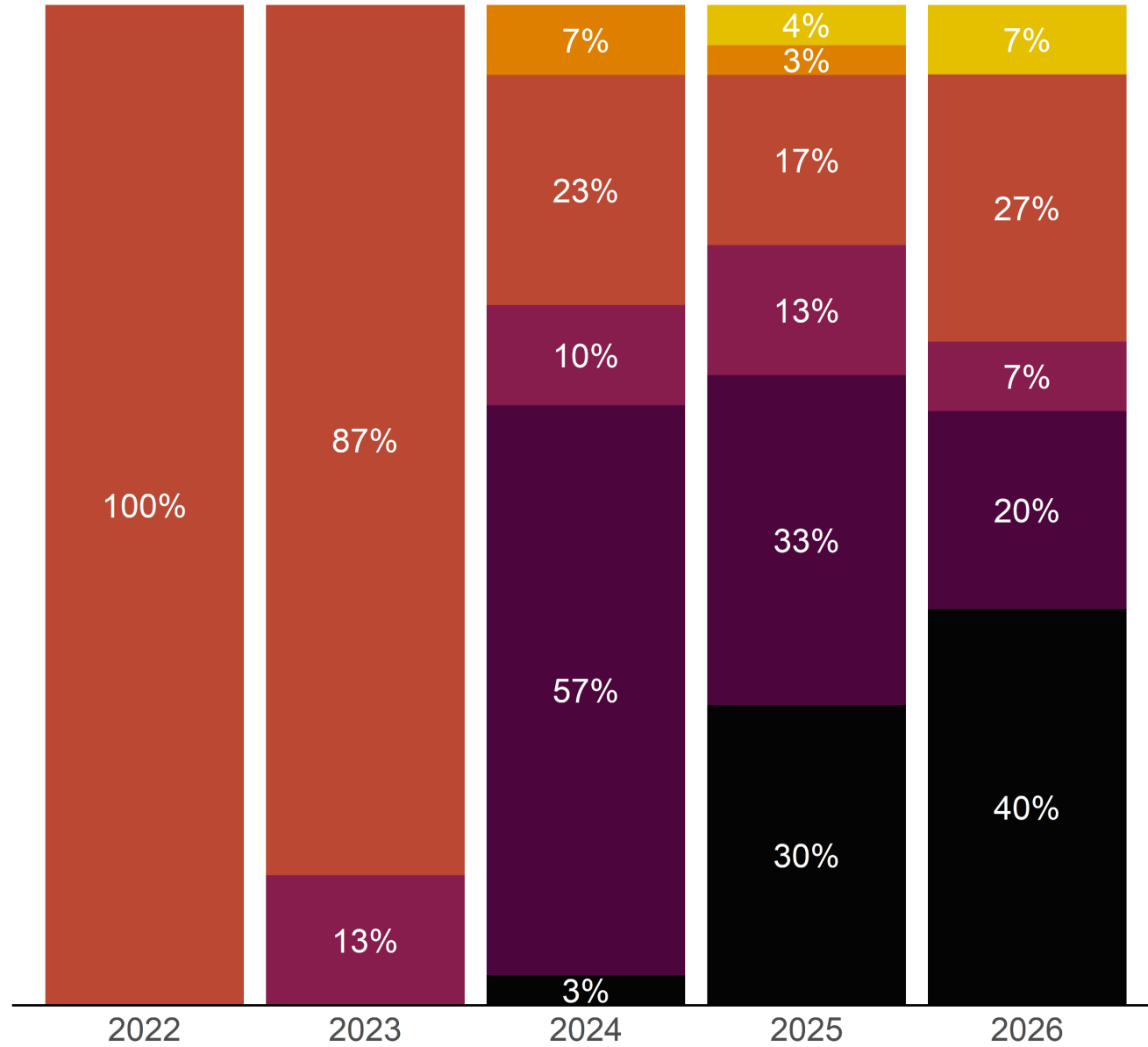
<sup>2</sup> Reservoir conditions for 2022-2026 were simulated using the February 2022 CRMMS in ensemble mode using the CBRFC unregulated inflow forecast ensemble dated February 3, 2022 (CRMMS-ESP).

<sup>3</sup> Percentages shown in this table may not be representative of the full range of future possibilities that could occur with different modeling assumptions.

<sup>4</sup> Percentages shown may not sum to 100% due to rounding to the nearest percent.

# Percent of Traces with Event or System Condition - Lake Mead

February 2022 CRMMS-ESP Projections



Operating Condition	Pool Elevation	AZ Reduction & Contribution
Surplus	≥ 1,145'	0 KAF
Normal	> 1,090' and < 1,145'	0 KAF
Tier 0	> 1,075' and ≤ 1,090'	192 KAF
Tier 1	≥ 1,050' and ≤ 1,075'	512 KAF
Tier 2a	> 1,045' and < 1,050'	592 KAF
Tier 2b	≥ 1,025' and ≤ 1,045'	640 KAF
Tier 3	< 1,025'	720 KAF

Data Source: Bureau of Reclamation

# Questions?

Rachel von Gnechten  
rvongnechten@AZWater.gov

James Heffner  
jheffner@AZWater.gov

## Additional Resources

- Arizona Reconsultation Committee: <https://new.azwater.gov/arc>
- Colorado Basin River Forecast Center: <https://www.cbrfc.noaa.gov/>
- Lower Colorado Region River Operations: <https://www.usbr.gov/lc/riverops.html>
- Upper Colorado Region River Operations: <https://www.usbr.gov/uc/water/index.html>



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# Arizona Department of Water Resources

## Governor's Water Augmentation, Innovation, and Conservation Council (Council) Updates



Jenna Norris  
Council Coordinator  
Arizona Department of Water Resources

# GOVERNOR'S WATER AUGMENTATION, INNOVATION AND CONSERVATION COUNCIL

Grand Canyon

Council & Committee Selection


- Any -

## UPCOMING MEETINGS

COUNCIL & COMMITTEES	MEETING DATE	WEBINAR LINK	MEETING AGENDA	FILES
GWAICC	<a href="#">March 25, 2022</a>	<a href="#">Join Meeting</a>		

## PREVIOUS MEETINGS

COUNCIL & COMMITTEES	MEETING DATE	MEETING RECORDING	MEETING AGENDA	FILES
Long-Term Water Augmentation Committee	<a href="#">January 13, 2022</a>	<a href="#">Committee Meeting Video</a>	<a href="#">Agenda</a>	<a href="#">Presentation</a> <a href="#">Chat Log</a>
Non-AMA Groundwater Committee	<a href="#">January 6, 2022</a>	<a href="#">Committee Meeting Video</a>	<a href="#">Agenda</a>	<a href="#">Presentation</a> <a href="#">Chat Log</a>
GWAICC	<a href="#">November 30, 2021</a>	<a href="#">Council Meeting Video</a>	<a href="#">Agenda</a>	<a href="#">2021 Draft ADWR Management Periods Legislation</a> <a href="#">Presentation</a>



- Council Overview
- Committees
- Documents
- Meetings
- Calendar
- Contact Us




(602) 771-4782


GWAICC Council & Committee Selection

- Any -

COMMITTEE	FILES	PUBLISHED DATE
Long-Term Water Augmentation Committee	<a href="#">Appendix A: Finance Workgroup Report (June 2021)</a>	January 21, 2022
Long-Term Water Augmentation Committee	<a href="#">Finance Workgroup Report (Draft - June 2021)</a>	January 21, 2022
GWAICC	<a href="#">2021 Draft ADWR Management Periods Legislation</a>	December 2, 2021
GWAICC	<a href="#">2018 6th Management Period Legislation (S.B.1512 SENATE ENGROSSED)</a>	December 2, 2021
GWAICC	<a href="#">2018 Draft ADWR Management Periods Legislation - With Note</a>	December 2, 2021
Long-Term Water Augmentation Committee	<a href="#">Potential Water Storage Sites on Arizona State Trust Land (2021)</a>	November 28, 2021
Long-Term Water Augmentation Committee	<a href="#">A Guide to Selecting Underground Water Storage and/or Aquifer Augmentation Sites 2021</a>	November 28, 2021
Post-2025 AMAs Committee	<a href="#">Post-2025 AMAs Committee Proposals (Draft #3 -11/16/2021)</a>	November 16, 2021



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Link to Governor's Water Council Webpage: <https://new.azwater.gov/gwaicc>

# Council Updates

Last met on November 30, 2021 ([Meeting Recording](#))

I. Welcome and Introductions

II. Update on 1,030' Consultation – *Council Chair, ADWR Director Tom Buschatzke*

III. Follow-up to Discussion of Additional Management Periods – *Council Chair, ADWR Director Tom Buschatzke*

IV. Committee Updates

a. Post-2025 AMAs Committee

b. Non-AMA Groundwater Committee

c. Long-Term Water Augmentation Committee

V. Council Website Updates – *Jenna Norris, ADWR Governor's Water Council Coordinator*

VI. Closing Remarks

VII. Next Meeting

**March 25, 2022, 10am-noon**

VIII. Adjournment



# Non-AMA Groundwater Committee Updates

## January 6<sup>th</sup>, 2022, [Meeting Recording](#)

- \* Further Discussion on Water Management Strategies
- \* Overview of Available Voluntary Options and Tools to Address Water Availability

## October 14<sup>th</sup>, 2021, [Meeting Recording](#)

- \* 2021 Legislative Success
- \* Enhanced Aquifer Recharge & Stormwater Harvesting
  - Overview of Potential for Enhanced/Informed Aquifer Recharge - *Keith Nelson, ADWR*
  - Efforts to Improve the Aquifer Conditions in the Hualapai Valley Basin - *Nick Hont, Mohave County*
- \* Discussion of Committee Goals



# Long-Term Water Augmentation Committee Updates

## January 13<sup>th</sup>, 2022, [Meeting Recording](#)

- \* Weather Modification and Cloud Control
  - Overview of State Statutes – *Jennifer Heim & Catherine Riedel, ADWR*
  - Overview of Research Efforts & Active Projects – *James Walter, SRP*
- \* Development of Long-Term Water Augmentation Plan



# Post-2025 AMAs Committee Updates

## October 5<sup>th</sup>, 2021, [Meeting Recording](#)

- \* Prescott AMA Exempt Well Study Group Concepts – *Ron Doba, NAMWUA*
  - Draft Prescott AMA Exempt Well Study Group Recommendations ([Link](#))
- \* Discussion of Concepts to Address Prescott AMA Exempt Wells

## October 27<sup>th</sup>, 2021, [Meeting Recording](#)

## November 9<sup>th</sup>, 2021, [Meeting Recording](#)

- \* Review and Discuss Updated 2021 Package of Proposals
  - Post-2025 AMAs Committee Proposals ([Link](#))





# RECHARGE & RECOVERY WORKGROUP

**Recovery Workshop: Tuesday, April 19** from 1:00 - 3:00 p.m.

[Webinar Login Link](#)

Goal: Build a consistent foundational understanding of the program requirements and enable focused discussion at subsequent meetings.

survey ([link](#)). *The survey will be closed on 03/28/2022.*

R&R Workgroup Webpage: <https://new.azwater.gov/recharge/recharge-recovery-workgroup>

# Thank you!

Jenna Norris

*Council Coordinator*

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Office Phone: 602-771-5262

Nadene Hubbard

*Council Facilitator*

[nhubbard@azwater.gov](mailto:nhubbard@azwater.gov)

Office Phone: 602-771-8773

John Riggins

*Statewide Planning Manager*

[jrriggins@azwater.gov](mailto:jrriggins@azwater.gov)

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ADWR Website: <https://new.azwater.gov/>

ADWR Phone: 602-771-8500

Link to ADWR Contacts: <https://new.azwater.gov/adwr/contact-us>

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# Fifth Management Plan

Phoenix AMA GUAC Meeting

March 22, 2022



Natalie Mast

AMA Director – Planning

# Contents

- a. Draft 5th Management Plan Presentation – Natalie Mast
- b. AMA Sector Data Dashboards – AMA Staff
- c. Mining Proposal – Sandy Fabritz
- d. Draft 5th Management Plan Presentation Continued: Next Steps – Natalie Mast
- e. GUAC Discussion & Comments to Director– Council

# Groundwater Management Act (1980)

Created Arizona Department of Water Resources

## Goals of the Act

- Control severe groundwater depletion
- Provide the means for allocating Arizona's limited groundwater resources
- Improve Arizona's groundwater supplies through conservation and development of additional water supplies



Former Arizona Governor and Interior Secretary Bruce Babbitt signing the GMA



# Management Plans

A.R.S. § 45-563 (A)

*“The director shall develop a management plan for each initial active management area for each of five management periods... and shall adopt the plans only after public hearings... The plans shall include a continuing mandatory conservation program... designed to achieve reductions in withdrawals of groundwater.”*

# Estimated 5MP Timeline

[new.azwater.gov/5MP](http://new.azwater.gov/5MP)

## 2019-2020: Development

- Work Group, Subgroups, & Stakeholder Outreach
- Data Analysis
- Develop [Concepts](#) to Increase Conservation
  - Update Existing Programs
  - Design New Programs

## 2021: Drafting

- Build out [Concepts](#) developed in previous phase
  - Regulatory Language
  - Feedback from GUACs/AMAs re: Customization & Implementation
- Draft Narrative & Background
- Develop Data Tools

## 2022: Adoption

- Publication of initial drafts
- Presentation to GUACs for recommendations
- Promulgation processes
  - Hearing & Public Comment
  - Findings & Adoption
  - Noticing of Conservation Requirements

# Draft Fifth Management Plans

<https://new.azwater.gov/ama/management-plans>



Management Plans for each active management area reflect the evolution of the Groundwater Management Code, moving Arizona toward its long-term water management goals. The plans include mandatory conservation programs for all persons withdrawing, distributing or receiving groundwater designed to achieve reductions in withdrawals of groundwater.

A series of five management plans prepared beginning in 1980 and running through 2025 contain progressively more rigorous management requirements for agricultural, municipal and industrial water users.

[Live query for Supplement 1](#)

In 2022, as a result of the discussions of the 5MP Safe-Yield Technical Subgroup, ADWR published the [Overdraft, Safe-Yield, and the Management Goals in the Arizona's Active Management Areas Report](#), a detailed interpretation and analysis of safe-yield. This comprehensive report includes a description of the aspects of safe-yield, how ADWR analyzes those aspects, and the status of each AMA with regards to its management goal. Although the management goal is not safe-yield in every AMA, the applicability of this analysis to other management goals is discussed in the report. The [Overdraft Data Dashboard](#) was developed as a supplement to the report, to support data transparency efforts of the department, and to allow an interactive method to stakeholders to explore the associated data.

## MANAGEMENT PLANS

[First](#) | [Second](#) | [Third](#) | [Fourth](#) | [Fifth](#)

## FIFTH MANAGEMENT PLAN 2020-2025

The provisions of the 4MP will be in effect until the Fifth Management Plan is effective, for the period 2020-2025.

The Fifth Management Plan drafts below are available for informal comments. Comments may be sent to [managementplans@azwater.gov](mailto:managementplans@azwater.gov) until February 28, 2022.

PHOENIX AMA

[Draft Phoenix AMA Fifth Management Plan](#)

PINAL AMA

- Overview
- Phoenix AMA
- Pinal AMA
- Prescott AMA
- Santa Cruz AMA
- Tucson AMA
- AMA Conservation
- AMA Data
- AMA Queries and Reports
- Groundwater Rights Map
- GUAC Meetings
- BMP Advisory Committee Meetings
- Management Plans
- Agricultural Program
- Industrial Program
- Municipal Program
- Online Annual Reports
- Water Management Assistance Program
- FAQs
- Contact Us



earp@azwater.gov  
(602) 771-8585

- \* Management Plans webpage includes:
  - \* Draft 5MPs for each AMA
  - \* Low Water Use and Drought Tolerant Plants Lists
  - \* Report: “Overdraft, Safe-Yield, and the Management Goals in Arizona’s Active Management Areas”
  - \* Link to Supplement I Live Query



# FIFTH MANAGEMENT PLAN

PHOENIX ACTIVE MANAGEMENT AREA

2020-2025

# Draft Phoenix AMA 5MP

<https://new.azwater.gov/ama/management-plans>



## Contents:

0. Executive Summary
1. Hydrology
2. Supply and Demand
3. Underground Water Storage, Savings, and Replenishment
4. Agricultural
5. Municipal
6. Industrial
7. Implementation, Compliance, and Support
8. Water Strategy



# FIFTH MANAGEMENT PLAN

PHOENIX ACTIVE MANAGEMENT AREA

2020-2025

# Draft Phoenix AMA 5MP

<https://new.azwater.gov/ama/management-plans>



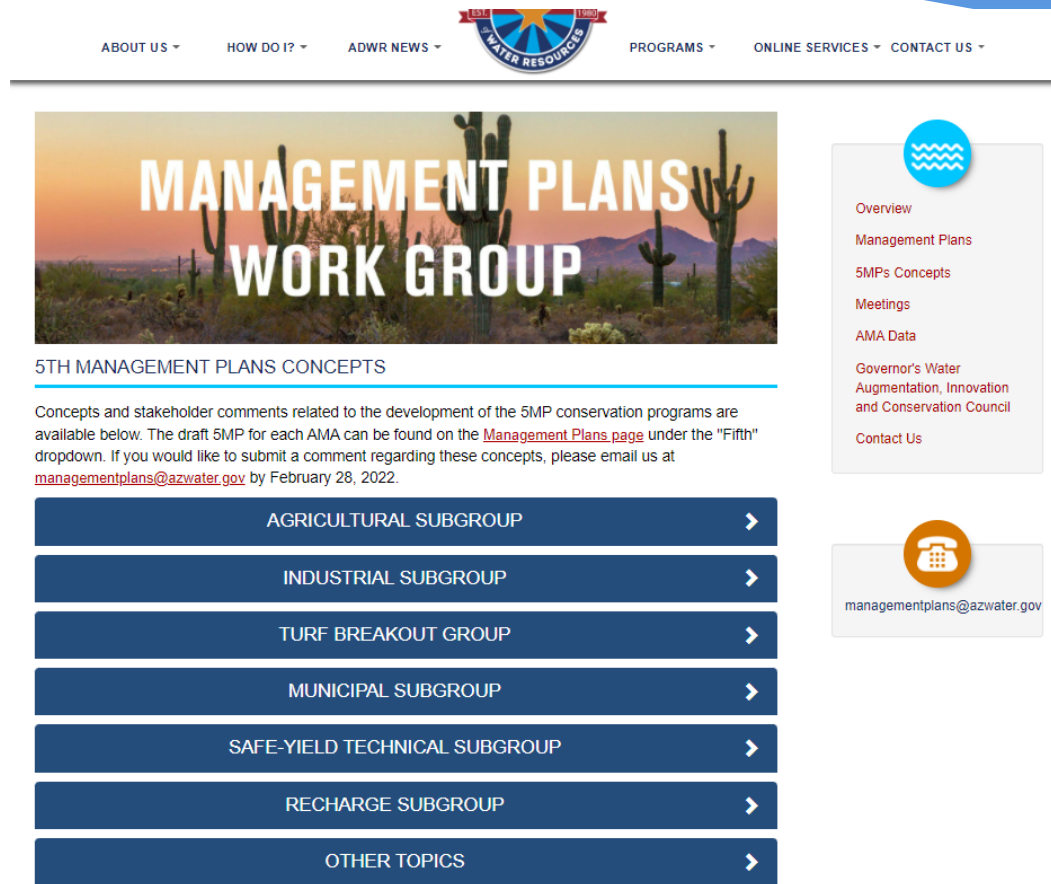
## Supplemental Materials:

- \* [AMA Data Page](#) - Dashboards
- \* [Report and Dashboard](#): “Overdraft, Safe-Yield, and the Management Goals in Arizona’s Active Management Areas”
- \* [Low Water Use and Drought Tolerant Plants List](#)
- \* [Agricultural Supplement I](#)



# 5MP Concepts Webpage

<https://new.azwater.gov/5MP/plans-concepts>



The screenshot shows the top navigation bar with links: ABOUT US, HOW DO I?, ADWR NEWS, PROGRAMS, ONLINE SERVICES, CONTACT US. Below is a banner for 'MANAGEMENT PLANS WORK GROUP' with a desert landscape background. A sub-header reads '5TH MANAGEMENT PLANS CONCEPTS'. The main text states: 'Concepts and stakeholder comments related to the development of the 5MP conservation programs are available below. The draft 5MP for each AMA can be found on the Management Plans page under the "Fifth" dropdown. If you would like to submit a comment regarding these concepts, please email us at [managementplans@azwater.gov](mailto:managementplans@azwater.gov) by February 28, 2022.' Below this is a list of subgroups: AGRICULTURAL SUBGROUP, INDUSTRIAL SUBGROUP, TURF BREAKOUT GROUP, MUNICIPAL SUBGROUP, SAFE-YIELD TECHNICAL SUBGROUP, RECHARGE SUBGROUP, and OTHER TOPICS. To the right of the main content is a sidebar with a water icon and a list of links: Overview, Management Plans, 5MPs Concepts, Meetings, AMA Data, Governor's Water Augmentation, Innovation and Conservation Council, and Contact Us. Below the sidebar is a phone icon and the email address [managementplans@azwater.gov](mailto:managementplans@azwater.gov).

## Contents:

- \* 5MP proposals
- \* 5MP Work Group meeting summaries and links
- \* Stakeholder comments

# Major Changes - Programs

## Recharge (Chapter 3)

- \* Added language to allow clarification of definition of “shallow depth to water conditions”

## Agricultural (Chapter 4)

- \* Base Program: 5% reduction of top 25% of water duties pursuant to A.R.S. § 45-568(A)(2)
- \* BMP Program: Updated BMP list and minimum points requirements with recommendations from the BMP Advisory Committee
- \* Integrated Farm Program: New alternative option allowing an owner/operator to combine the allotments of multiple IGFRs, with a 5% “cut to the aquifer”

# Major Changes - Programs

## Municipal (Chapter 5)

- \* GPCD Program: Updated requirement calculation method and flex range
- \* NPCC Program: Made significant updates to BMP list in collaboration with 5MP Municipal Subgroup; added an additional tier; added minimum number of categories for each tier; updated points requirements

## Industrial (Chapter 6)

- \* Power Plants: Added language allowing a modification to cycles of concentration requirements if blowdown water will be put to a beneficial reuse
- \* Golf Courses: Overhauled allotment calculation method to better reflect actual practices and recent consumptive use analyses
- \* Non-Golf Turf Facilities: Split into two categories: High and Low water use landscapes, where landscapes with  $\leq 30\%$  water intensive landscape use a more generous allotment calculation
- \* Mining: Proposal will be discussed today – not currently included in the draft

# Major Changes – Structure & Content

- \* Shifted data online
  - \* Transparency
  - \* Ongoing updates
- \* Added Executive Summary
  - \* Assists with quick reference to information throughout the 5MP
- \* Streamlined
  - \* Uses references for more detailed information
- \* Added Engagement Information
  - \* Increased emphasis on opportunities for contact and engagement

# AMA Sector Data Dashboards

Amanda Long – AMA Planning Manager

Nick Redendo – Industrial Data Specialist

Colette Pansini – Municipal Data Specialist

<https://new.azwater.gov/ama/ama-data>

# Alternative Mining Conservation Program

Sandy Fabritz

# Next Steps

Natalie Mast



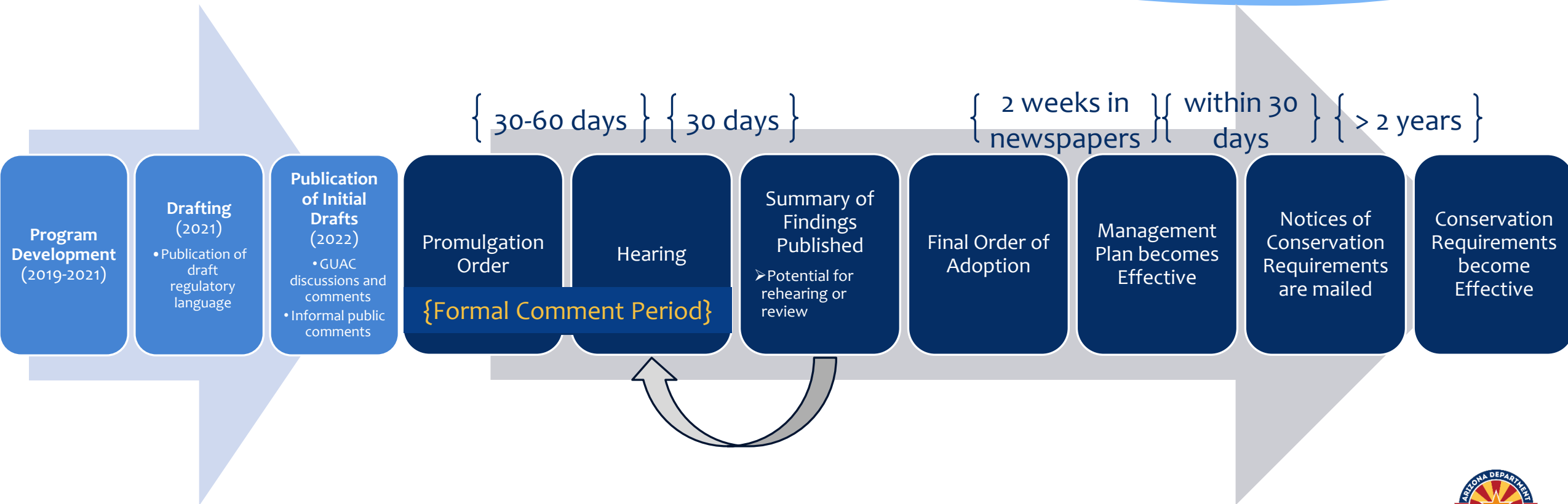
# A.R.S. § 45-421(1)

“The groundwater users advisory council shall:

1. Advise the area director for the active management area, make recommendations on groundwater management programs and policies for the active management area and comment to the area director and to the director on draft management plans for the active management area before they are promulgated by the director.
2. Keep the minutes of its meetings and all records, reports and other information relative to its work and programs in permanent form indexed and systematically filed.
3. Elect from its members a chairman and vice-chairman for terms of two years expiring on the third Monday of January of each even numbered year.
4. Designate the person or persons who shall execute all documents and instruments on behalf of the council.
5. Manifest and record its actions by motion, resolution or other appropriate means.
6. Make a complete record of its proceedings which shall be open to public inspection during regular business hours in the branch office of the department in the active management area.
7. Provide comment to the Arizona water banking authority with regard to draft plans for additional storage facilities and draft plans of operation in accordance with sections 45-2453 and 45-2456.”



# Management Plan Promulgation



# GUAC Comments

***ADWR is seeking comments from the GUAC on the draft Phoenix AMA Fifth Management Plan.***

# Discussion & Questions?

**Natalie Mast**  
nlmast@azwater.gov

**Management Plans Work Group:**

[new.azwater.gov/5MP](https://new.azwater.gov/5MP)

**Concepts page:** <https://new.azwater.gov/5MP/plans-concepts>

**Full Text of Management Plans:**

[new.azwater.gov/ama/management-plans](https://new.azwater.gov/ama/management-plans)

**For questions about meetings or to submit comments:**

[managementplans@azwater.gov](mailto:managementplans@azwater.gov)



# Meeting Agenda

1. Call to Order – Welcome & Introductions – *Chair*
2. Webinar Logistics – *Kennedy Shepard, ADWR*
3. GUAC Webpage Updates – *Kennedy Shepard, ADWR*
4. Election of Officers – *GUAC Members*  
GUAC Members will elect Chair and Vice-Chair to serve a two-year term
5. Colorado River Update – *Rachel Von Gnechten, ADWR*  
Rachel will provide an update on Colorado River hydrology
6. GWAICC Update – *Jenna Norris, ADWR*  
Jenna will provide the council with an update on GWAICC activities and progress.
7. Phoenix AMA Draft 5<sup>th</sup> Management Plan
  - a. Draft 5<sup>th</sup> Management Plan Presentation – *Natalie Mast*
  - b. AMA Sector Data Dashboards – *Amanda Long, Nick Redendo, Colette Pansini*
  - c. Mining Proposal – *Sandy Fabritz*
  - d. GUAC Discussion & Recommendation to Director - *Council*
8. Call to the Council – *Council*
9. Call to the public – *Chair*
10. Adjournment - *Chair*



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