Welcome

The meeting will begin shortly, in the meantime please,

• Keep your phone muted during the meeting.

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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. Pinal AMA Irrigation Management Service – Eddie Enriquez
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   Rachel will provide an update on Colorado River hydrology.

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COLORADO RIVER BASIN STATUS UPDATE

Presented to:
Groundwater Users Advisory Council
Pinal Active Management Area
March 24, 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

DATA SOURCE: UNITED STATES BUREAU OF RECLAMATION
Lake Powell Unregulated Inflow
Water Year 2022 Forecast *(issued March 3)*
Comparison with History

**Water Year 2022 Forecast**
- Mar Min Prob: 5.24 maf (55%)
- Mar Most Prob: 6.58 maf (69%)
- Mar Max Prob: 9.49 maf (99%)

**Feb Max Prob**: 10.67 maf (111%)

Average: 9.60 maf (1991-2020)
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
**Lake Mead End-of-Month Elevations**

**CRMMS Projections from February and March 2022**

**End of CY 2022 Projections**
- **Most Probable:** 1,049.37 feet (29% full)
- **Probable Min:** 1,047.10 feet

**End of CY 2023 Projections**
- **Most Probable:** 1,035.63 feet (26% full)
- **Probable Min:** 1,020.63 feet
## Lower Basin – Lake Mead

**Percent of Traces with Event or System Condition**

Results from February 2022 CRMMS-ESP (values in percent)

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

**Notes:**

2. 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).
3. Percentages shown in this table may not be representative of the full range of future possibilities that could occur with different modeling assumptions.
4. Percentages shown may not sum to 100% due to rounding to the nearest percent.
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/
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GOVERNOR’S WATER AUGMENTATION, INNOVATION AND CONSERVATION COUNCIL

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 6th, 2022, Meeting Recording
* Further Discussion on Water Management Strategies
* Overview of Available Voluntary Options and Tools to Address Water Availability

October 14th, 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
January 13th, 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
October 5th, 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 27th, 2021, Meeting Recording

November 9th, 2021, Meeting Recording
* Review and Discuss Updated 2021 Package of Proposals
  • Post-2025 AMAs Committee Proposals (Link)
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!

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*Council Coordinator*  
jnorris@azwater.gov  
Office Phone: 602-771-5262

Nadene Hubbard  
*Council Facilitator*  
nhubbard@azwater.gov  
Office Phone: 602-771-8773

John Riggins  
*Statewide Planning Manager*  
jrriggins@azwater.gov  
Office Phone: 602-771-4782

ADWR Website: [https://new.azwater.gov/](https://new.azwater.gov/)  
ADWR Phone: 602-771-8500

Link to ADWR Contacts: [https://new.azwater.gov/adwr/contact-us](https://new.azwater.gov/adwr/contact-us)
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Fifth Management Plan

Pinal AMA GUAC Meeting
March 24, 2022

Natalie Mast
AMA Director – Planning
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)

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
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

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 webpage includes:
  * Draft 5MPs for each AMA
  * Low Water Use and Drought Tolerant Plants Lists
  * Link to Supplement I Live Query
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
Supplemental Materials:

* [AMA Data Page](https://new.azwater.gov/ama/management-plans) - Dashboards
* [Low Water Use and Drought Tolerant Plants List](https://new.azwater.gov/ama/management-plans)
* [Agricultural Supplement I](https://new.azwater.gov/ama/management-plans)
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
Brad Niska – Industrial Data Specialist
Madison Moreno – Municipal Data Specialist

https://new.azwater.gov/ama/ama-data
Alternative Mining Conservation Program
Sandy Fabritz
Next Steps
Natalie Mast
“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

- Program Development (2019-2021)
  - Drafting (2021)
    - Publication of draft regulatory language
  - Publication of Initial Drafts (2022)
    - GUAC discussions and comments
    - Informal public comments

{Formal Comment Period}

Promulgation Order

Hearing

Summary of Findings Published
- Potential for rehearing or review

Final Order of Adoption

Management Plan becomes Effective

Notices of Conservation Requirements are mailed

Conservation Requirements become Effective

30-60 days

30 days

2 weeks in newspapers

within 30 days

> 2 years

46
ADWR is seeking comments from the GUAC on the draft Pinal AMA Fifth Management Plan.
Discussion & Questions?

Management Plans Work Group:
new.azwater.gov/5MP

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

Full Text of Management Plans:
new.azwater.gov/ama/management-plans

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For questions about meetings or to submit comments:
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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. Pinal AMA Irrigation Management Service – Eddie Enriquez
   The council will hear a presentation and discuss a request for WMAP funding based upon such discussion, the Council may vote to make a recommendation to the Director with respect to the proposed action.
   a. Pinal AMA Irrigation Management Service – Eddie Enriquez
   b. WMAP balance - Melissa Sikes, ADWR
   c. GUAC Recommendation - Council
6. Colorado River Update – Rachel Von Gnechtens, ADWR
   Rachel will provide an update on Colorado River hydrology.
7. GWAICC Updates – Jenna Norris, ADWR
   Jenna will provide the council with an update on GWAICC activities and progress.
8. ADWR Legislative Update – Ben Alteneder, ADWR
   a. Draft 5th Management Plan Presentation – Natalie Mast
   b. AMA Sector Data Dashboards – Amanda Long, Brad Niska, Madison Moreno
   c. Mining Proposal – Sandy Fabritz
   d. GUAC Discussion & Comments - Council
10. Call to the Council – Council
11. Call to the Public – Chair
12. Adjournment - Chair
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