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
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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COLORADO RIVER BASIN
STATUS UPDATE

Presented to:
Groundwater Users Advisory Council
Tucson Active Management Area
February 22, 2022
COLORADO RIVER SYSTEM
RESERVOIR STATUS

TOTAL SYSTEM CONTENTS – 36% or 21.683 MAF
(Total system contents last year 46% or 27.169 MAF)

February 2022
Updated as of February 14

Data Source: United States Bureau of Reclamation
(Total system contents last year 46% or 27.169 MAF)
Snow Water Equivalent
Conditions as of Feb 15, 2022

Upper Colorado SWE at 91% of Median
California Region SWE at 82% of Median
Lake Powell Unregulated Inflow
Water Year 2022 Forecast *(issued February 3)*
Comparison with History

**Water Year 2022 Forecast**
- Feb Min Prob: 5.63 maf (59%)
- Feb Most Prob: 7.26 maf (76%)
- Feb Max Prob: 10.67 maf (111%)

**Decrease from January 2022**
- Min Prob: 0.74 maf
- Jan Most Prob: 1.51 maf
- Jan Max Prob: 3.21 maf

Average: 9.60 maf (1991-2020)
## Lower Basin Side Inflows – WY/CY 2021\(^1,2\)

Intervening Flow from Glen Canyon to Hoover Dam

<table>
<thead>
<tr>
<th>Month in WY/CY 2021</th>
<th>5-Year Average Intervening Flow (kaf)</th>
<th>Observed Intervening Flow (kaf)</th>
<th>Observed Intervening Flow (% of Average)</th>
<th>Difference From 5-Year Average (kaf)</th>
</tr>
</thead>
<tbody>
<tr>
<td>October 2020</td>
<td>58</td>
<td>35</td>
<td>60%</td>
<td>-23</td>
</tr>
<tr>
<td>November 2020</td>
<td>71</td>
<td>56</td>
<td>79%</td>
<td>-15</td>
</tr>
<tr>
<td>December 2020</td>
<td>67</td>
<td>59</td>
<td>88%</td>
<td>-8</td>
</tr>
<tr>
<td>January 2021</td>
<td>95</td>
<td>72</td>
<td>75%</td>
<td>-23</td>
</tr>
<tr>
<td>February 2021</td>
<td>97</td>
<td>55</td>
<td>57%</td>
<td>-42</td>
</tr>
<tr>
<td>March 2021</td>
<td>111</td>
<td>33</td>
<td>30%</td>
<td>-78</td>
</tr>
<tr>
<td>April 2021</td>
<td>81</td>
<td>36</td>
<td>45%</td>
<td>-45</td>
</tr>
<tr>
<td>May 2021</td>
<td>50</td>
<td>9</td>
<td>19%</td>
<td>-41</td>
</tr>
<tr>
<td>June 2021</td>
<td>29</td>
<td>-31</td>
<td>-107%</td>
<td>-60</td>
</tr>
<tr>
<td>July 2021</td>
<td>64</td>
<td>95</td>
<td>148%</td>
<td>31</td>
</tr>
<tr>
<td>August 2021</td>
<td>81</td>
<td>89</td>
<td>110%</td>
<td>8</td>
</tr>
<tr>
<td>September 2021</td>
<td>71</td>
<td>50</td>
<td>70%</td>
<td>-21</td>
</tr>
<tr>
<td>October 2021</td>
<td>58</td>
<td>80</td>
<td>138%</td>
<td>22</td>
</tr>
<tr>
<td>November 2021</td>
<td>71</td>
<td>42</td>
<td>60%</td>
<td>-29</td>
</tr>
<tr>
<td>December 2021</td>
<td>67</td>
<td>65</td>
<td>97%</td>
<td>-2</td>
</tr>
<tr>
<td><strong>WY 2021 Totals</strong></td>
<td><strong>876</strong></td>
<td><strong>558</strong></td>
<td><strong>64%</strong></td>
<td><strong>-319</strong></td>
</tr>
<tr>
<td><strong>CY 2021 Totals</strong></td>
<td><strong>876</strong></td>
<td><strong>596</strong></td>
<td><strong>68%</strong></td>
<td><strong>-281</strong></td>
</tr>
</tbody>
</table>

\(^1\) Values were computed with the LC’s gain-loss model for the most recent 24-month study.

\(^2\) Percent of average are based on the 5-year mean from 2016-2020.

Source: Bureau of Reclamation
Most Probable End of CY 2022 Projection: 3,524.35 feet
24-Month Study Min/Max Probable Range: 3,510.45 to 3,564.97 feet
Most Probable End of CY 2022 Projection: 1,050.26 feet
24-Month Study Min/Max Probable Range: 1,047.84 to 1,052.33
Upper Basin – Lake Powell
Percent of Traces with Event or System Condition
Results from January 2022 CRMMS-ESP/CRSS with 1988-2019 Resampled Hydrology (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>Equalization Tier (Powell ≥ Equalization [EQ] Elevation)</td>
<td>0</td>
<td>0</td>
<td>&lt;1</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>Equalization – annual release &gt; 8.23 maf</td>
<td>0</td>
<td>0</td>
<td>&lt;1</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>Equalization – annual release = 8.23 maf</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Upper Elevation Balancing Tier (Powell &lt; EQ Elevation and ≥ 3,575 ft)</td>
<td>0</td>
<td>10</td>
<td>30</td>
<td>35</td>
<td>34</td>
</tr>
<tr>
<td>Upper Elevation Balancing – annual release &gt; 8.23 maf</td>
<td>0</td>
<td>10</td>
<td>29</td>
<td>34</td>
<td>31</td>
</tr>
<tr>
<td>Upper Elevation Balancing – annual release = 8.23 maf</td>
<td>0</td>
<td>&lt;1</td>
<td>&lt;1</td>
<td>&lt;1</td>
<td>3</td>
</tr>
<tr>
<td>Upper Elevation Balancing – annual release &lt; 8.23 maf</td>
<td>0</td>
<td>0</td>
<td>&lt;1</td>
<td>0</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Mid-Elevation Release Tier (Powell &lt; 3,575 and ≥ 3,525 ft)</td>
<td>100</td>
<td>60</td>
<td>42</td>
<td>34</td>
<td>33</td>
</tr>
<tr>
<td>Mid-Elevation Release – annual release &gt; 8.23 maf</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>7</td>
<td>6</td>
</tr>
<tr>
<td>Mid-Elevation Release – annual release = 7.48 maf</td>
<td>100</td>
<td>60</td>
<td>42</td>
<td>26</td>
<td>26</td>
</tr>
<tr>
<td>Lower Elevation Balancing Tier (Powell &lt; 3,525 ft)</td>
<td>0</td>
<td>30</td>
<td>27</td>
<td>28</td>
<td>28</td>
</tr>
<tr>
<td>Lower Elevation Balancing – annual release &gt; 8.23 maf</td>
<td>0</td>
<td>9</td>
<td>10</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td>Lower Elevation Balancing – annual release &lt; 8.23 maf</td>
<td>0</td>
<td>21</td>
<td>18</td>
<td>19</td>
<td>19</td>
</tr>
</tbody>
</table>

Notes:
1. Modeled operations include the 2007 Interim Guidelines, Lower Basin Drought Contingency Plan, and Minute 323, including the Binational Water Scarcity Contingency Plan.
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4. Percentages shown in this table may not be representative of the full range of future possibilities that could occur with different modeling assumptions.
5. Percentages shown may not sum to 100% due to rounding to the nearest percent.

Source: Bureau of Reclamation
## Lower Basin – Lake Mead

### Percent of Traces with Event or System Condition

Results from January 2022 CRMMS-ESP/CRSS with 1988-2019 Resampled Hydrology (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><strong>Surplus Condition – any amount (Mead ≥ 1,145 ft)</strong></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Surplus – Flood Control</strong></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Normal or ICS Surplus Condition (Mead &lt; 1,145 and &gt; 1,075 ft)</strong></td>
<td>0</td>
<td>3</td>
<td>5</td>
<td>4</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>&lt;1</td>
<td>&lt;1</td>
</tr>
<tr>
<td>DCP Contribution / Mexico’s Water Savings (Mead ≤ 1,090 and &gt; 1,075 ft)</td>
<td>0</td>
<td>3</td>
<td>5</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td><strong>Shortage Condition – any amount (Mead ≤ 1,075 ft)</strong></td>
<td>100</td>
<td>97</td>
<td>95</td>
<td>96</td>
<td>93</td>
</tr>
<tr>
<td>Shortage / Reduction – 1(^{st}) level (Mead ≤ 1,075 and ≥ 1,050)</td>
<td>100</td>
<td>80</td>
<td>22</td>
<td>27</td>
<td>23</td>
</tr>
<tr>
<td>DCP Contribution / Mexico’s Water Savings (Mead ≤ 1,075 and &gt; 1,050 ft)</td>
<td>100</td>
<td>80</td>
<td>22</td>
<td>27</td>
<td>23</td>
</tr>
<tr>
<td>Shortage / Reduction – 2(^{nd}) level (Mead ≤ 1,050 and ≥ 1,025)</td>
<td>0</td>
<td>17</td>
<td>72</td>
<td>40</td>
<td>35</td>
</tr>
<tr>
<td>DCP Contribution / Mexico’s Water Savings (Mead ≤ 1,050 and &gt; 1,045 ft)</td>
<td>0</td>
<td>17</td>
<td>7</td>
<td>8</td>
<td>6</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>19</td>
<td>6</td>
<td>6</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>21</td>
<td>7</td>
<td>6</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>18</td>
<td>9</td>
<td>8</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>7</td>
<td>10</td>
<td>9</td>
</tr>
<tr>
<td>Shortage / Reduction – 3(^{rd}) level (Mead &lt; 1,025)</td>
<td>0</td>
<td>0</td>
<td>&lt;1</td>
<td>30</td>
<td>35</td>
</tr>
<tr>
<td>DCP Contribution / Mexico’s Water Savings (Mead &lt; / ≤ 1,025 ft)</td>
<td>0</td>
<td>0</td>
<td>&lt;1</td>
<td>30</td>
<td>35</td>
</tr>
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Source: Bureau of Reclamation
Questions?

James Heffner
jheffner@AZWater.gov

Rachel von Gnechten
rvongnechten@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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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

Link to Governor’s Water Council Webpage:  https://new.azwater.gov/gwaicc
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)
Thank you!

Jenna Norris  
_Council Coordinator_

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_Council Facilitator_

[nhubbard@azwater.gov](mailto:nhubbard@azwater.gov)
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John Riggins  
_Statewide Planning Manager_

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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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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 & Recommendation to Director– Council
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
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

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
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 - 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

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 ≤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
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}
ADWR is seeking a recommendation from the GUAC on the promulgation of the draft Tucson 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

For questions about meetings or to submit comments:
managementplans@azwater.gov

Natalie Mast
nlmast@azwater.gov
Dashboard Presentations
Mining Proposal
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 – James Heffner, ADWR
   James 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. Tucson AMA Draft 5th Management Plan
   a. Draft 5th Management Plan Presentation – Natalie Mast
   b. AMA Sector Data Dashboards – AMA Staff
   c. Mining Proposal – Sandy Fabritz
   d. GUAC Discussion and Recommendation to Director - Council
8. Call to the Council – Council
9. Call to the Public – Chair
10. Adjournment – Chair
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Meeting Agenda

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