YOUR WATER. YOUR FUTURE.

MARK TAYLOR, CAWCD BOARD VICE PRESIDENT

IBWC Southeast Arizona Citizens Forum
June 10, 2021
CAP Facts and Figures
Central Arizona Project

• 336-mile aqueduct stretches from Lake Havasu to Tucson
  • 14 pumping plants lift water nearly 3,000 feet
  • 10 siphons, 4 tunnels
  • Lake Pleasant, New Waddell Dam and Waddell Pump Generating Station
• Delivers more than 500 billion gallons of water annually
• Deliveries began in 1985 in Maricopa County
• Construction complete in 1993
CAP Service Area

• 3 counties
• 23,790 square miles
• 5 million people (approx. 80% of Arizona’s population)
• < 8” annual rainfall
• 350,000 acres of irrigated agriculture
• 11 tribes
CAP Water Usage

- **Municipal & Industrial (subcontracts)**: 36%
- **Tribal (contracts)**: 28%
- **Contributions To Lake Mead (Drought Contingency Plan)**: 17%
- **Agricultural**: 15%
- **Other Excess**: 4%
Colorado River Basin
Colorado River Basin

- In 1922, Colorado River Compact divided the states’ Colorado River water supply into Upper and Lower Basins, giving them each 7.5 million acre feet of water/year
  - Upper – Colorado, New Mexico, Utah, Wyoming
  - Lower – Arizona, California, Nevada
- Mexican Water Treaty of 1944 gave 1.5 million acre feet of water/year to Mexico
Colorado River Lower Basin Allocations

Arizona – 2.8 MAF
Nevada – 300,000 AF
California – 4.4 MAF

Mexico – 1.5 MAF
Colorado River Basin and Major Reservoirs
Colorado River Water Supply Report

System Contents: 23.46 MAF
As of April 26, 2021

<table>
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<tr>
<th>Reservoir</th>
<th>Current</th>
<th>Change*</th>
<th>Maximum</th>
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<tbody>
<tr>
<td>Lake Mead</td>
<td>10.05</td>
<td>-0.38</td>
<td>25.90</td>
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<tr>
<td>Lake Powell</td>
<td>8.56</td>
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<td>Morrow Point Reservoir</td>
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<tr>
<td>Crystal Reservoir</td>
<td>0.02</td>
<td>0.00</td>
<td>0.03</td>
</tr>
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* With respect to previous month’s report
End of Calendar Year 2021 Projections
May 2021 24-Month Study Most Probable Inflow Scenario

Based on a Lake Powell release of 8.23 maf in WY 2021 and 7.48 maf in WY 2022

Not to Scale

1 WY 2021 unregulated inflow into Lake Powell is based on the CBRFC forecast dated 5/4/21.
Colorado River shortage and future of the Colorado River system
Tier 1 Shortage: CAP Reductions

Drought Contingency Plan (DCP) Tiers
Lake Mead Surface Elevation

DCP Tier Zero
DCP Tier 1
DCP Tier 2a
DCP Tier 2b
DCP Tier 3

1,090’
1,075’
1,050’
1,045’
1,025’

Estimated elevation on Jan. 1, 2022

CAP Supply
Volume (AF)
1,600,000
1,400,000
1,200,000
1,000,000
800,000
600,000
400,000
200,000
0

Reduction to CAP Delivery Supply
DCP Mitigation
CAP Delivery Supply Under Tier 1

* Graphics are not to scale and serve only as a representation.
CAP Priorities—Full Supply

- “Block Chart” illustrates delivery requests by CAP priority
  - Higher priority entitlements are towards the bottom of the chart
- The names of the “pools” do not neatly align with uses
- Assumptions for 2022:
  - 1.595 MAF delivery supply prior to reductions
  - Water orders similar to 2021
  - Includes NIA Reallocation
CAP Impacts in a Tier 1 Shortage

2022 – Tier 1 Prior to Mitigation

2022 – Tier 1 After Mitigation

* P5/6 reductions accounted for separately.
DCP Mitigation Implementation

- Potential Tier One 2022 conditions would trigger Arizona’s Mitigation Plan
  - CAWCD Lake Pleasant 50 kaf release and CAWCD ICS releases to NIA Pool
  - CAWCD Compensated mitigation to NIA Pool
  - M&I GSF to AG Pool plus AWBA LTSC Exchange
Next Steps: Tier 1 Shortage

• We expect the first-ever Tier 1 shortage declared on the Colorado River later this year, impacting 2022 Colorado River water supplies. A Tier 1 Shortage would require Arizona to reduce uses by 512,000 acre-feet, borne almost entirely by the CAP system.

• The shortage will result in a substantial cut to Arizona’s share of the river, falling largely to central Arizona agricultural users.

• While significant, the high priority CAP water supply for cities and tribes is not affected.

• These impacts are painful, but we are prepared.
Arizona’s Estimate of Reconsultation Processes and Timeline

- **Arizona Reconsultation Committee Process (intra-Arizona consensus)**
- **BOR Reconsultation Process* (multiple levels and engagement)**
- **Basin States Process - preferred alternative/consensus agreement**

*Exact timing of BOR Reconsultation Process yet to be determined
**Federal legislation if necessary
AZ Reconsultation Committee (ARC)

- Establish a process for continued engagement within Arizona throughout the Reconsultation process
- Provide a venue for developing and sharing stakeholder perspectives and values to guide Arizona’s guiding principles in the Reconsultation process
- Identify risks and benefits to inform Arizona’s input to the Reconsultation process
- Continue the transparency established during the successful DCP Steering Committee effort
- Conduct fact-based technical work to understand the impacts to Arizona
For more information:

• CAP’s news site – knowyourwaternews.com

• CAP’s main website (with information on the Drought Contingency Plan and Arizona Reconsultation Committee – CentralArizonaProject.com

Other resources:

• Arizona Department of Water Resources -- new.azwater.gov

• US Bureau of Reclamation – usbrc.gov
KNOW YOUR WATER

Thank you!

KnowYourWaterNews.com