Southern California Water Dialogue

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ARIZONA WATER USE, POPULATION, AND ECONOMIC GROWTH (1957 - 2017)

**TOTAL WATER USE (IN MILLIONS ACRE/FEET)**
- 1957: 7.1 MAF
- 2017: 7 MAF
- **-1% CHANGE FROM 1957-2017**

**POPULATION (IN MILLIONS)**
- 1957: 1.1
- 2017: 7
- **536% CHANGE FROM 1957-2017**

**GROSS DOMESTIC INCOME (IN BILLIONS)**
- 1957: $13.4
- 2017: $274.8
- **1,951% CHANGE FROM 1957-2017**
Arizona Water Use By Source (2019)

- **36%** Colorado River
- **18%** In-State Rivers
- **5%** Reclaimed Water
- **41%** Groundwater
Arizona’s Colorado River Use

Source: 2017 Reclamation Water Accounting Report and Central Arizona Project Water Delivery Report
## 2007 Interim Guidelines Shortage Reductions and Incremental DCP Contributions

<table>
<thead>
<tr>
<th>Lake Mead Elevation</th>
<th>AZ 2007</th>
<th>AZ DCP</th>
<th>AZ TOTAL</th>
<th>NV 2007</th>
<th>NV DCP</th>
<th>NV TOTAL</th>
<th>CA 2007</th>
<th>CA DCP</th>
<th>CA TOTAL</th>
<th>BOR DCP</th>
<th>MX Min 323</th>
<th>MX BWSCP</th>
<th>MX Total</th>
<th>TOTAL</th>
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</table>
Recharge Projects & Storage

- **101 recharge projects in AZ**
  - 84 USFs
  - 17 GSFs

- **11.8 MAF stored for future use**
  - AWBA 4.2 MAF
    - NV interstate .6 MAF
  - Cities, Utilities, Others 6.1 MAF
  - Tribal Storage 1.5 MAF

- **Stores water underground for future use**
Colorado River Priorities and Uses in AZ (2019)

- **Priority 6**: Entitlements to Surplus Water
- **Priority 5**: Unused Arizona Entitlement or Apportionment
- **Priority 4**: Post-September 30, 1968 contracts, Secretarial Reservations, and Perfected Rights
- **Priority 3**: Entitlements pursuant to contracts between the United States and water users in the State of Arizona executed on or before September 30, 1968
- **Priority 2**: Secretarial Reservations and Perfected Rights established or effective prior to September 30, 1968
- **Priority 1**: Present Perfected Rights as defined and provided for in the Decree

Priority 6: (474,276 AF)  
Priority 2 & 3: (528,502 AF)  
Priority 4: (56,324 AF)  
P5/6: (4,474 AF)  
EC-ICS: (3,736 AF)  
System Conservation: (56,137 AF)  
Losses: (75,000 AF)

On-River CAP

2019 Available Supply ≈ 1.7 MAF
2019 Consumptive Use ≈ 1.1 MAF

System Conservation: (143,146 AF)
EC-ICS: (134,005 AF)

Priority 4: (1,280,592 AF)
Priority 3: (68,400 AF)
EC-ICS: (143,146 AF)
System Conservation: (143,146 AF)
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
• 512,000 AF* Reduction/Contribution
  • 320,000 AF per 2007 Guideline
  • 192,000 AF per LBDCP
• Pre-Mitigation Impacts
  • 100% Reduction to Ag Pool
  • ~60% Reduction to NIA Pool

* P5/6 reductions accounted for separately.
2022 – Tier 1 Shortage (CAP)

Volume [AF]

- Mitigation Water
- Firming
- Compensated Mitigation
- CAP-SRP Exchange
- Urban-To-Ag

2022 – Tier 1 Prior to Mitigation
Mitigation Commitments

- **Mitigation Component**
  - Wet water CAP deliveries for mitigation
  - Payment for reductions (compensated mitigation) when wet water mitigation is insufficient
  - Money for new groundwater infrastructure for CAP Ag

- **Offset Component**
  - System conservation and ICS creation to replace CAP ICS that is used for mitigation
  - Pre-firming concept to address NIA firming obligations from Indian water settlements
2022 – Tier 1 Shortage recap

Tier 1 Shortage: CAP Reductions

Drought Contingency Plan (DCP) Tiers
Lake Mead Surface Elevation

- DCP Tier Zero
  - 1,090’
- DCP Tier 1
  - 1,075’
- DCP Tier 2a
  - 1,045’
- DCP Tier 2b
  - 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

2022 Reduction to CAP Users After DCP Mitigation

- Reduced by 100%
- Reduced by 65%
- No Reduction
- Municipal & Industrial
- Tribes

* Graphics are not to scale and serve only as a representation.

To learn more, please visit: www.cap-az.com/colorado-river-shortage