



Water Resources Update

October 1, 2025





Water Resources Topics

For Information and Discussion:

- Glendale's Water Supplies
- Glendale's Water Demands
- Post-2026 Colorado River Negotiations
- Drought Mitigation Projects
- Conservation Efforts
- Next Steps



Where does our water come from?

DIVERSE WATER SUPPLIES

Surface Water
Salt & Verde Rivers
Colorado River



Groundwater



**Effluent
(Reclaimed Water)**





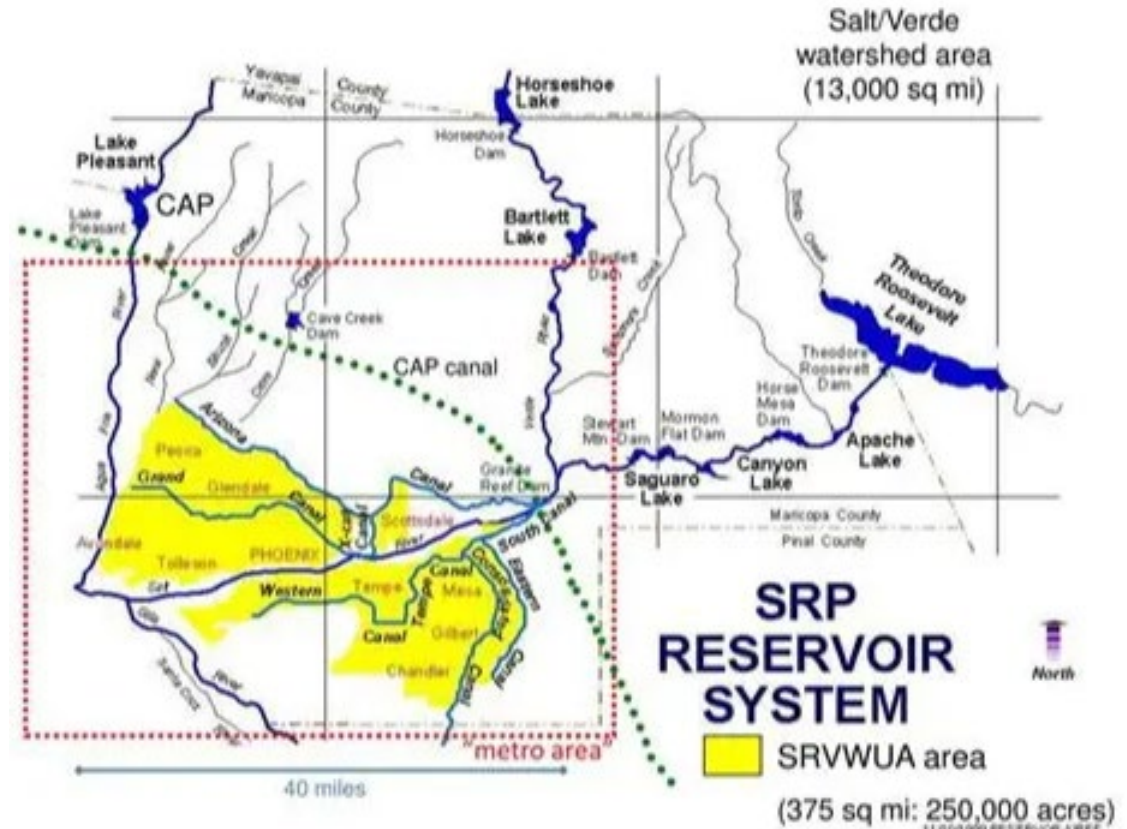
Salt and Verde Rivers



Legend

- Cities
- Major Rivers
- ▭ Watershed Boundaries

0 20 40 80 120 160
Kilometers

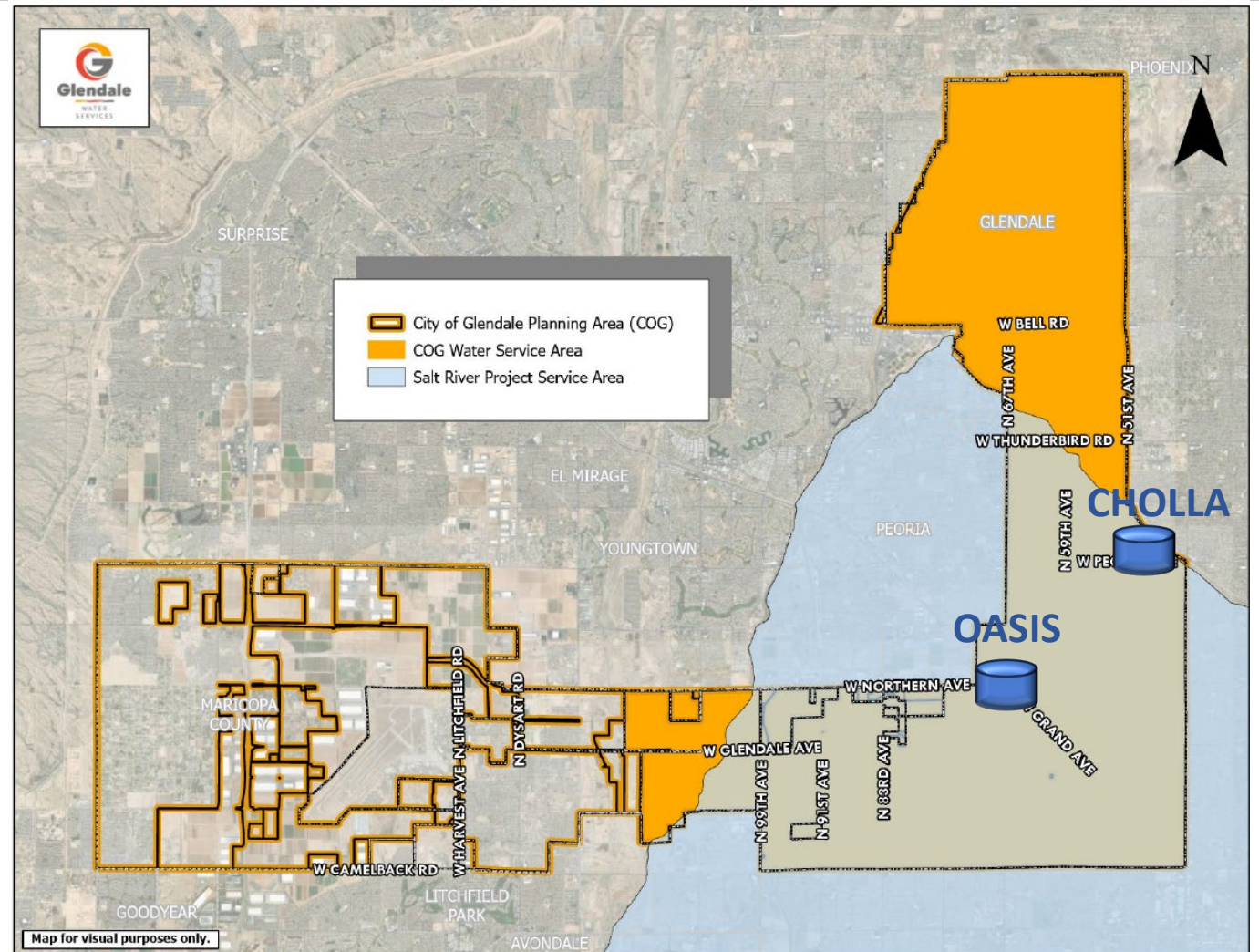


Annual SRP Supply = 55,455 Acre-Foot



Salt River Project (SRP) On-/Off-Project

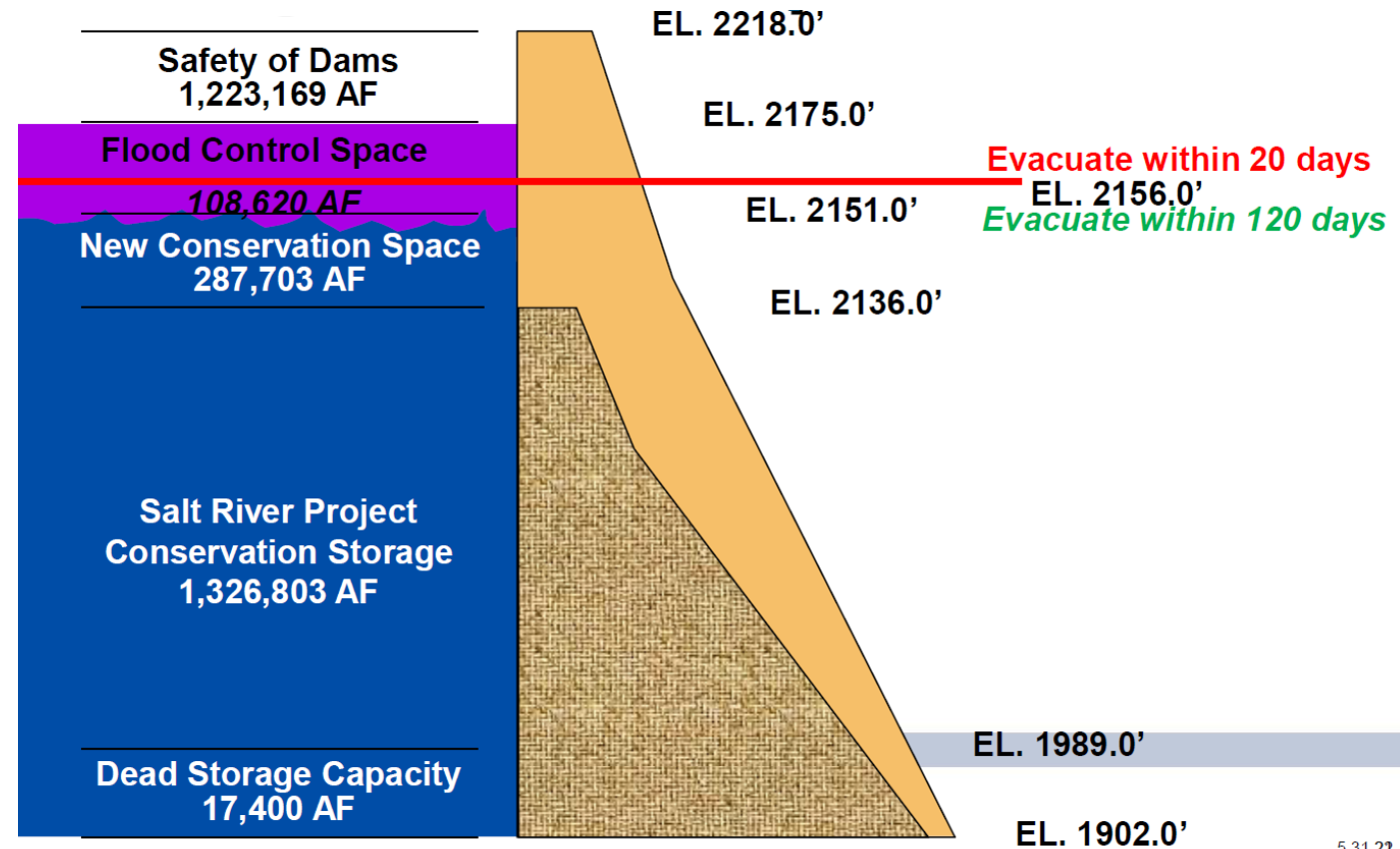
- On-project = SRP member lands.
- Off-project = Does not include SRP member lands.
 - Primarily CAP water is served off-project.
 - If SRP water is used, it needs to be replaced.





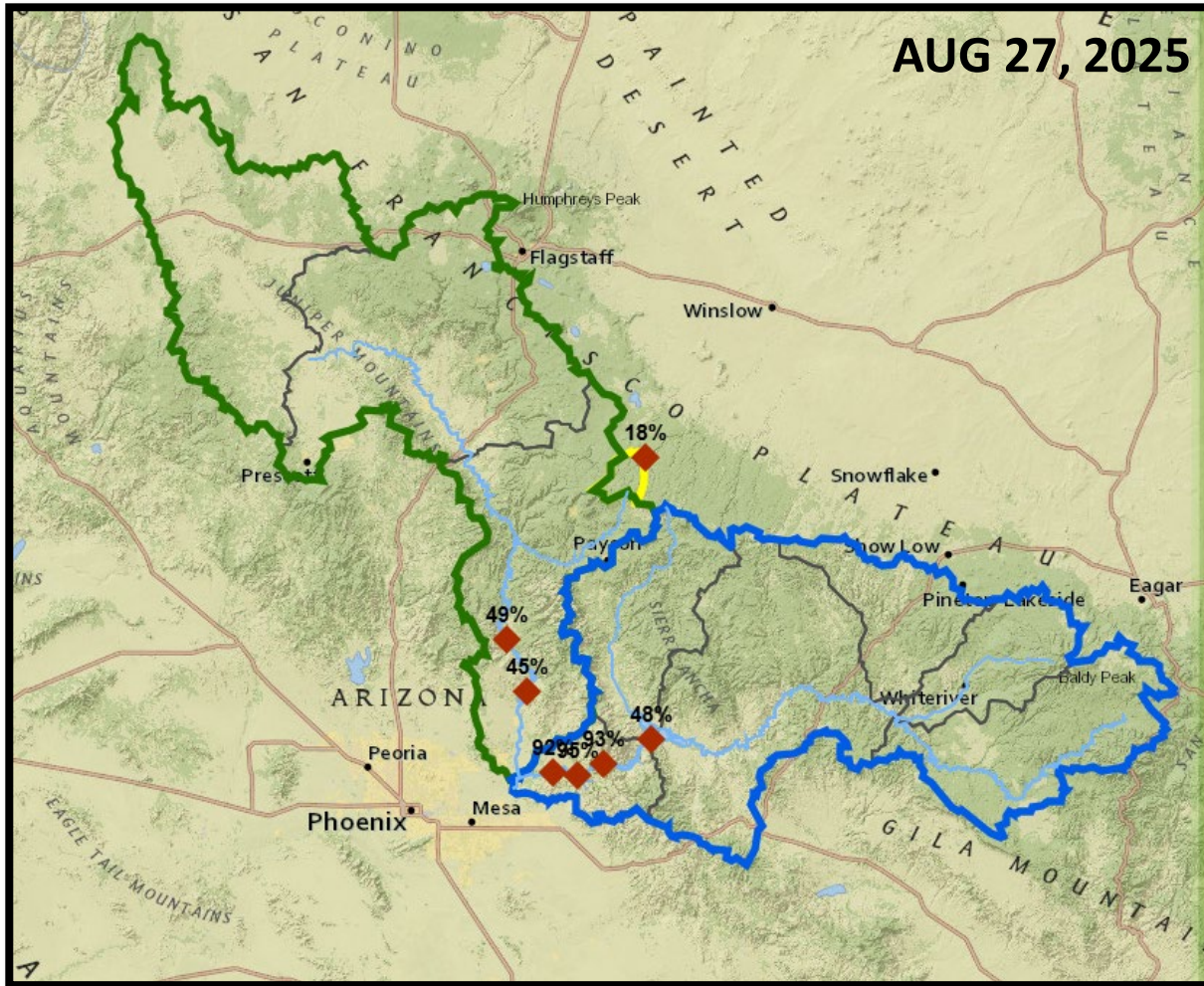
Additional Supplies via SRP System

- Up to 28,770 AF when the New Conservation Space (NCS) fills
- Up to 5,500 AF if Flood Control Space (FCS) fills in 2026, 2027, or 2028
- NCS and FCS water can be used off-project.





SRP Watershed Conditions



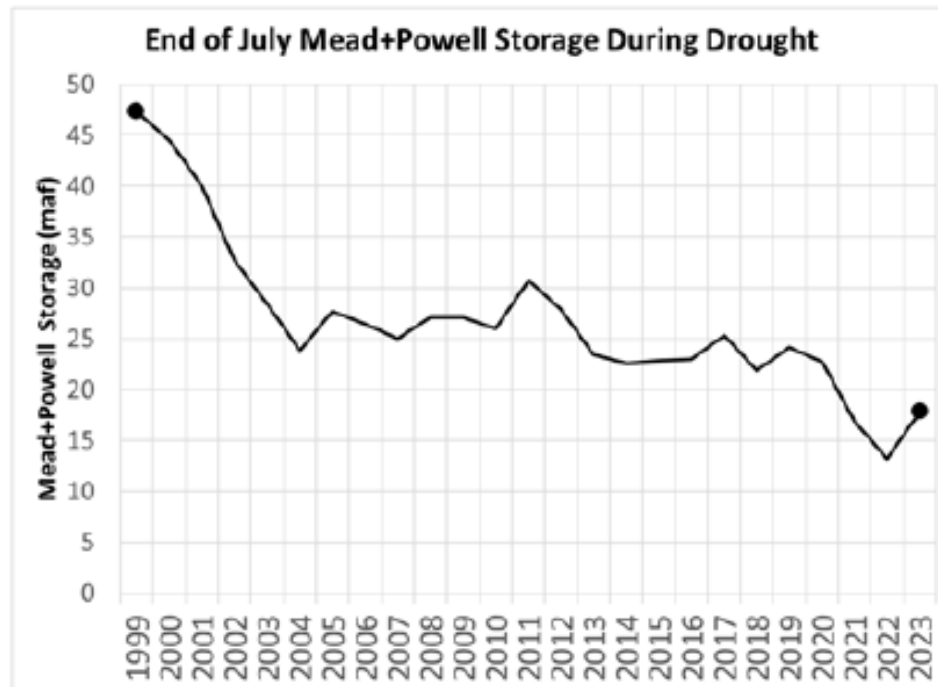
- Western Arizona experienced less than 30% of normal precipitation from the 2024 monsoon season.
- 55% full on SRP system compared to 81% last year at the same time.
- 2024-2025 Winter – below average precipitation
- More SRP groundwater added to the system to compensate for reduced flows.



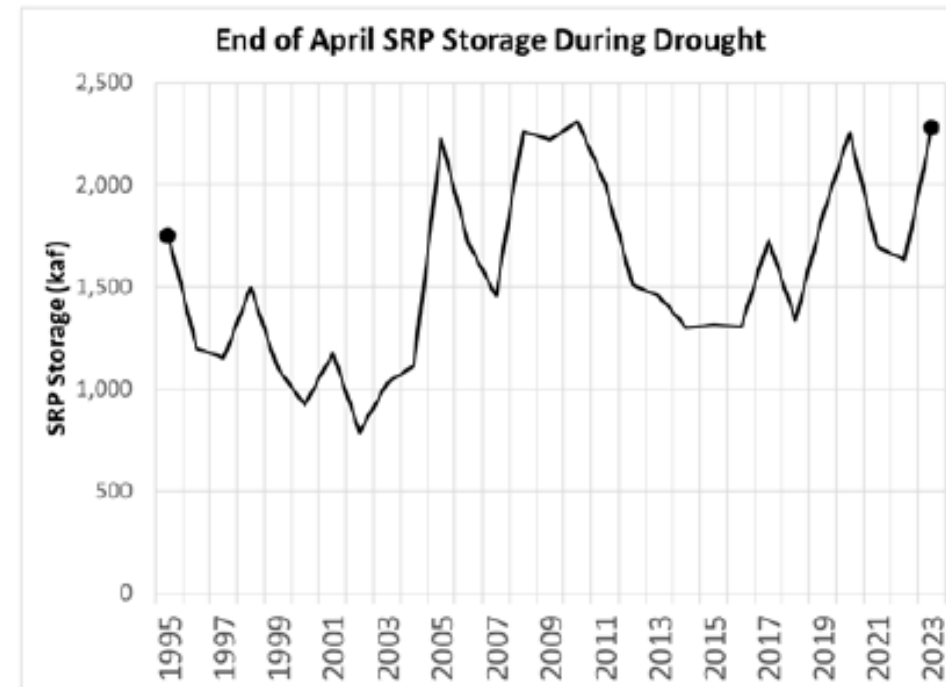
SRP Watershed Conditions

Storage During Extreme Long-term Drought

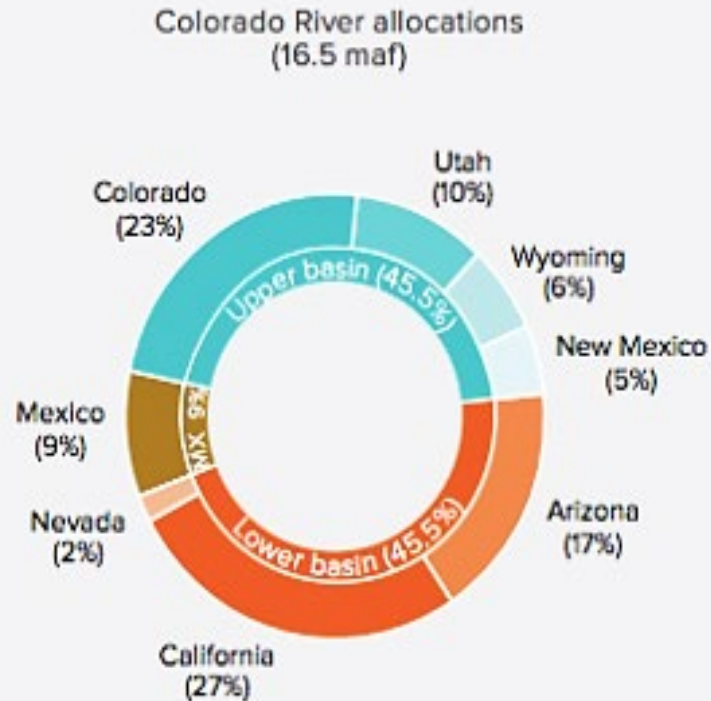
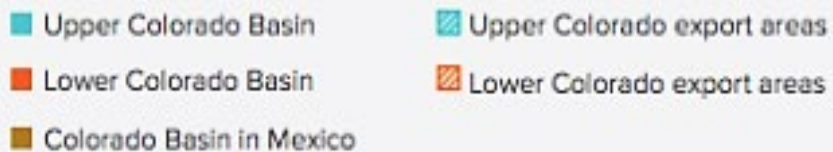
Colorado River



Salt-Verde Rivers



Colorado River



- 1922 Colorado River Compact split 15 million acre-feet (MAF) between the Upper and Lower Basin States. A separate 1944 treaty allocated 1.5 MAF to Mexico.
- Delivered via Central Arizona Project (CAP) canal to the Pyramid Peak Water Treatment Plant.

Annual CAP Supply = 22,582 Acre-Feet

SOURCE: Author illustrations using maps from the US Bureau of Reclamation.

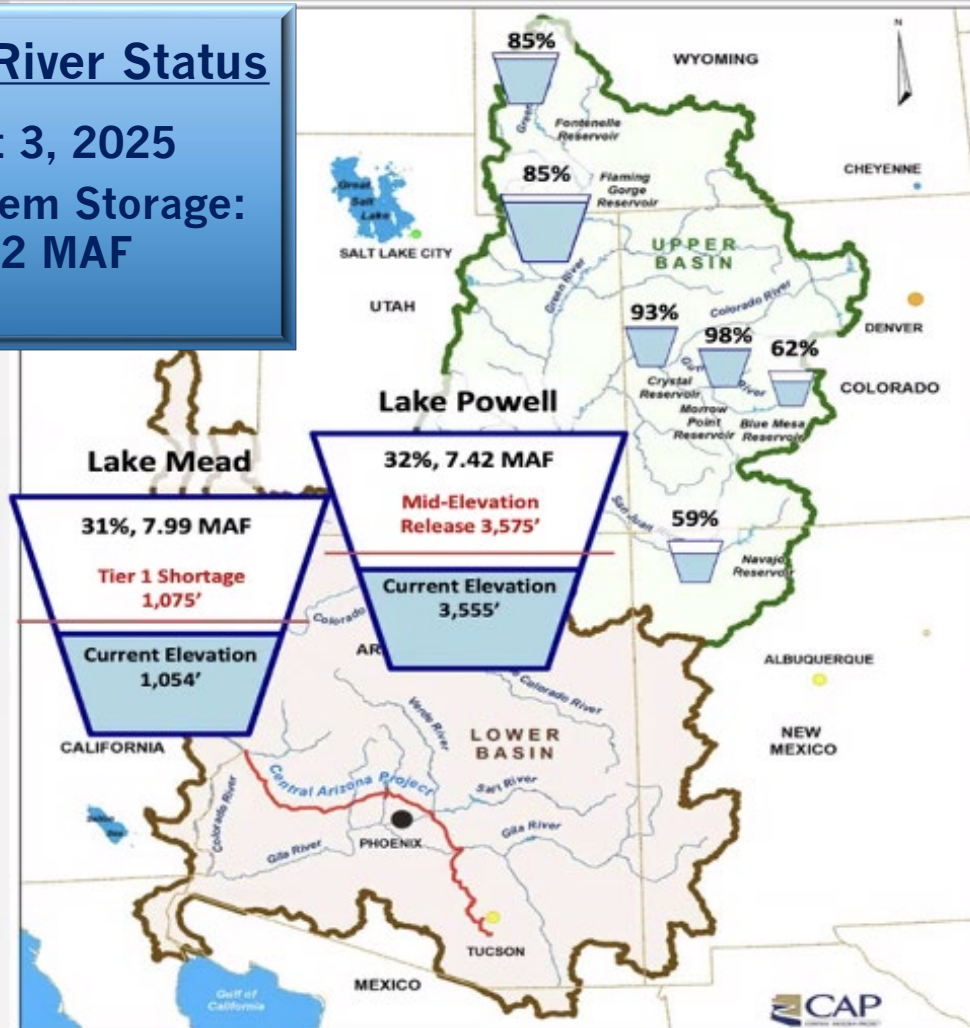


Current Colorado River Conditions

Colorado River Status

August 3, 2025

Total System Storage:
22.72 MAF



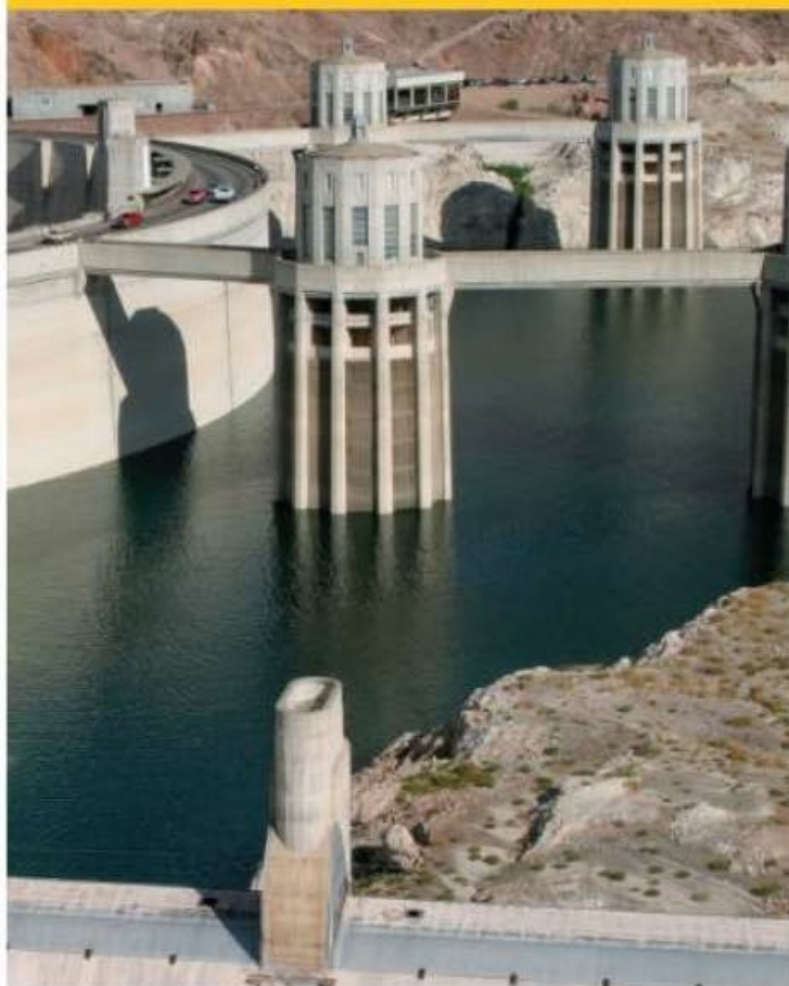
- Winter 2024-2025 precipitation was average.
- Spring runoff was below average.
- Reservoirs are at a combined 37% full compared to 43% this time last year.
- The Colorado River System is currently in a Tier 1 shortage and projected to remain in Tier 1 into 2026.

Severe and sustained drought conditions continue to impact critical storage reserves in the Colorado River Basin.

1983



2003



TODAY





New Colorado River Operations in 2027



Reclamation

Responsible for developing the Post-2026 Guidelines



7 Basin States & Mexico

UDS - Wyoming, Colorado, Utah, New Mexico
LDS - Nevada, California, Arizona



Arizona

Arizona Department of Water Resources
Central Arizona Project



Stakeholders

Tribes, Municipalities, Irrigation Districts,
Conservation Groups

- The current operating guidelines for the Colorado River expire in 2026.
- Ongoing negotiations between the Basin States.
- The exact reductions to the Central Arizona Project are unknown at this time.
- We are preparing for different water shortage scenarios.



Groundwater



- Pumped from wells and treated onsite or at the Oasis Water Treatment Plant.
- 5 active City-owned wells.
 - Plus 5 wells in design/construction or planned
- City uses 7 SRP-owned wells.
 - Plus 2 wells under construction

Annual Groundwater Allocation = 7,525 Acre-Feet



Glendale Effluent Production and Use



Glendale Effluent: **9,217 AF**

- Recharge accounted for 70% of effluent use
- Reuse accounted for 30% of effluent use

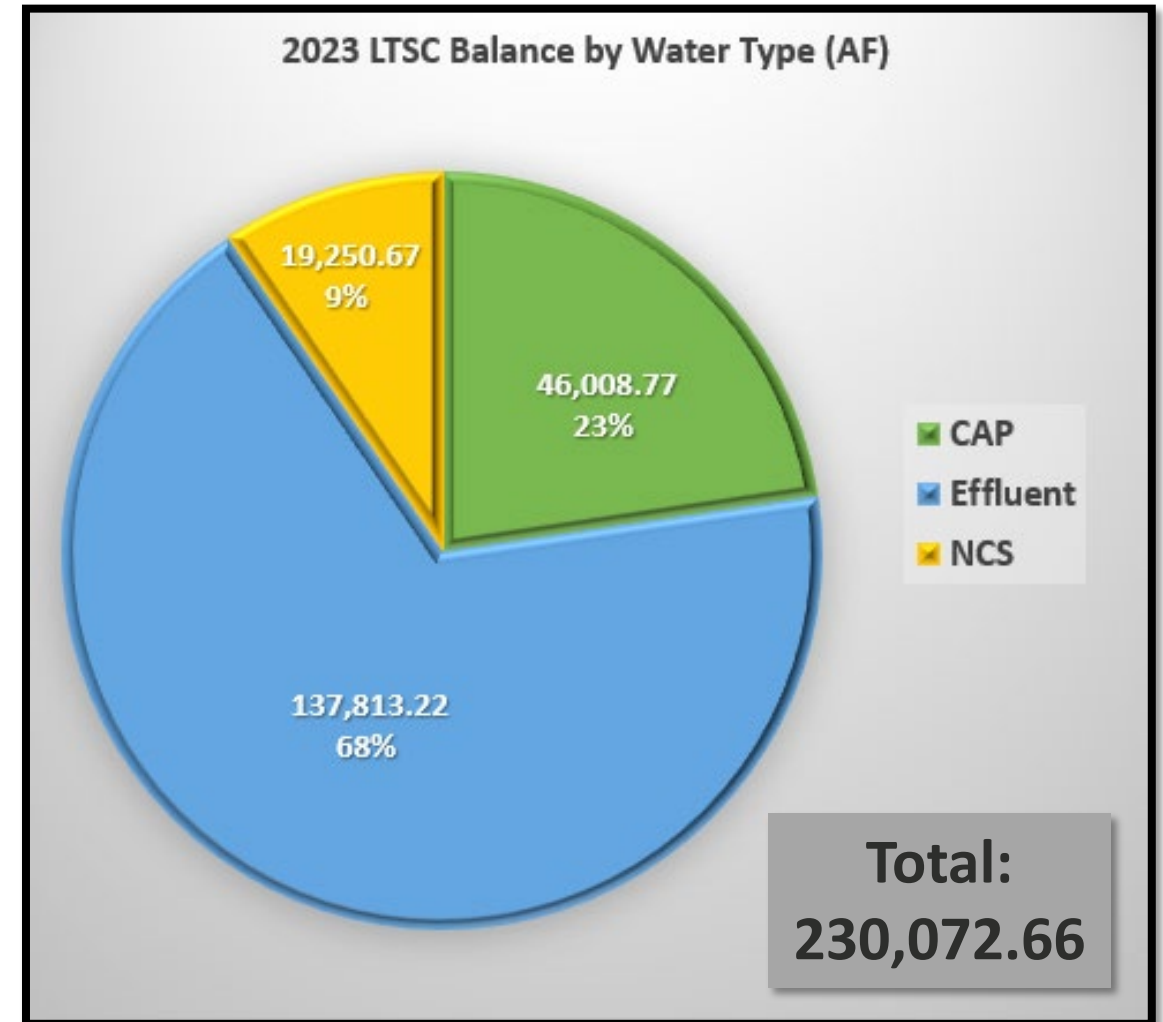
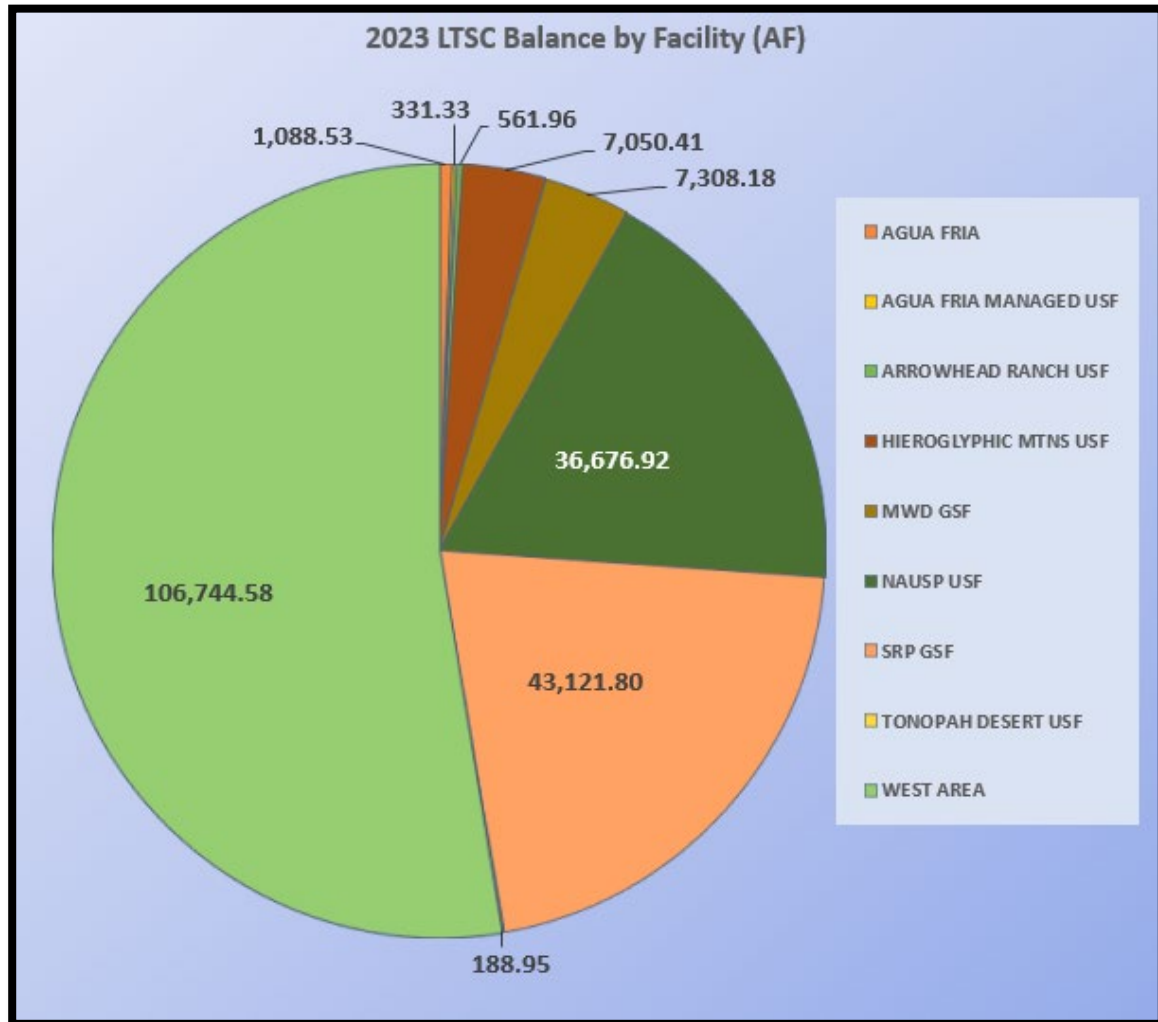
91st Avenue WWTP: **8,696 AF**

- Palo Verde Nuclear Generating Station (PVNGS)
- Tres Rios Wetlands

2024 Effluent Production = 17,914 Acre-Feet



Long-Term Storage Credits in 2023





2024 Glendale Total Potable Water Use

2024 Total Water Use = 40,590 acre-feet

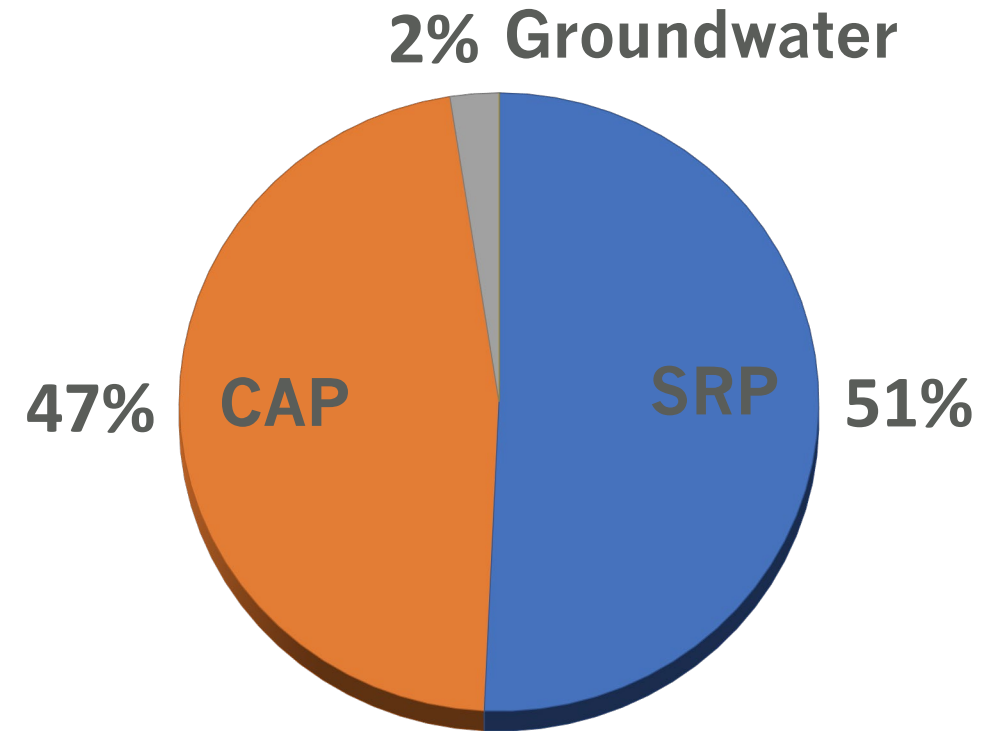
2023 Total Water Use = 37,477 acre-feet

2022 Total Water Use = 38,699 acre-feet

Central Arizona Project (CAP) - 47%

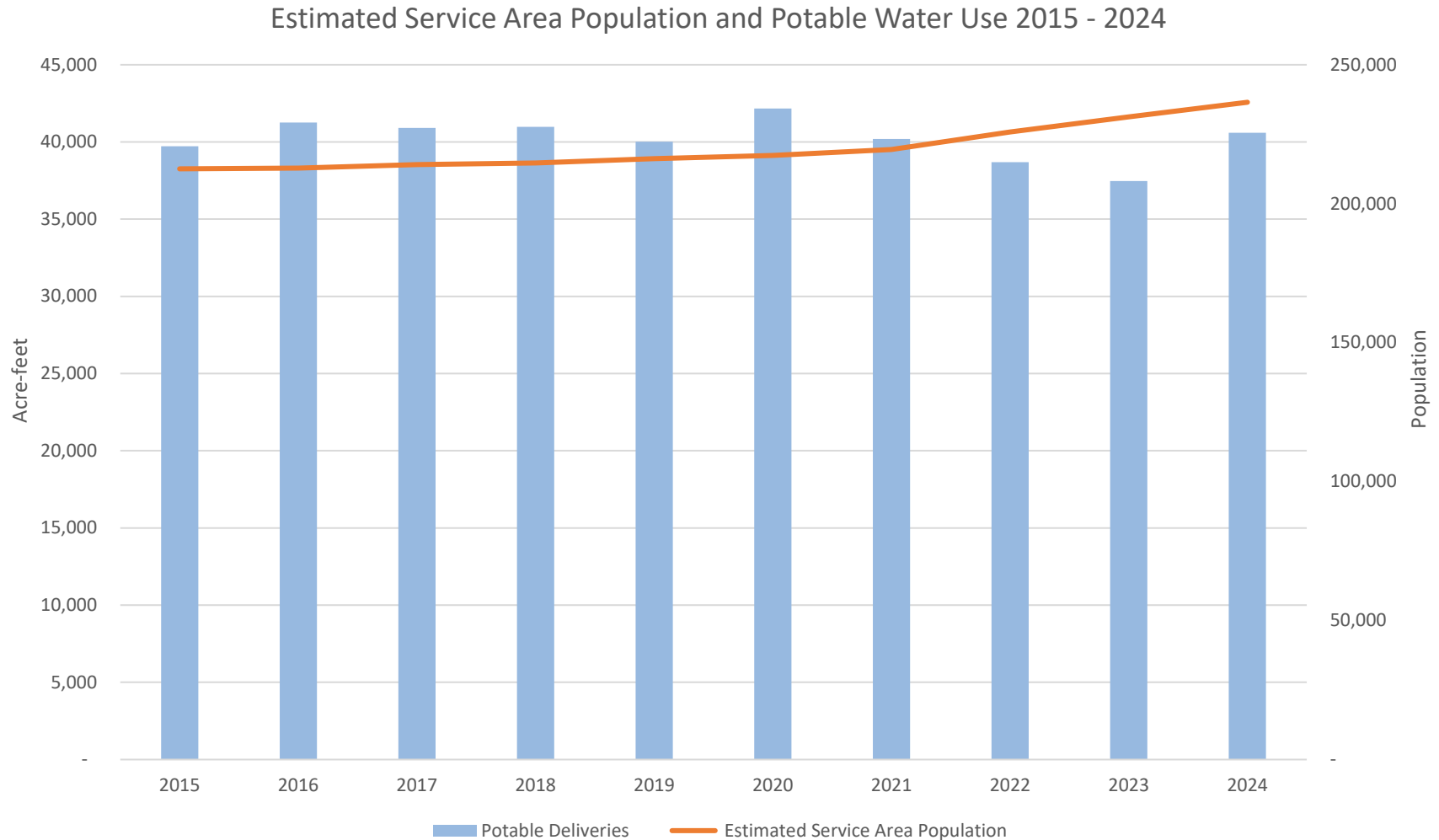
Salt River Project (SRP) - 51%

Groundwater (GW) - 2%



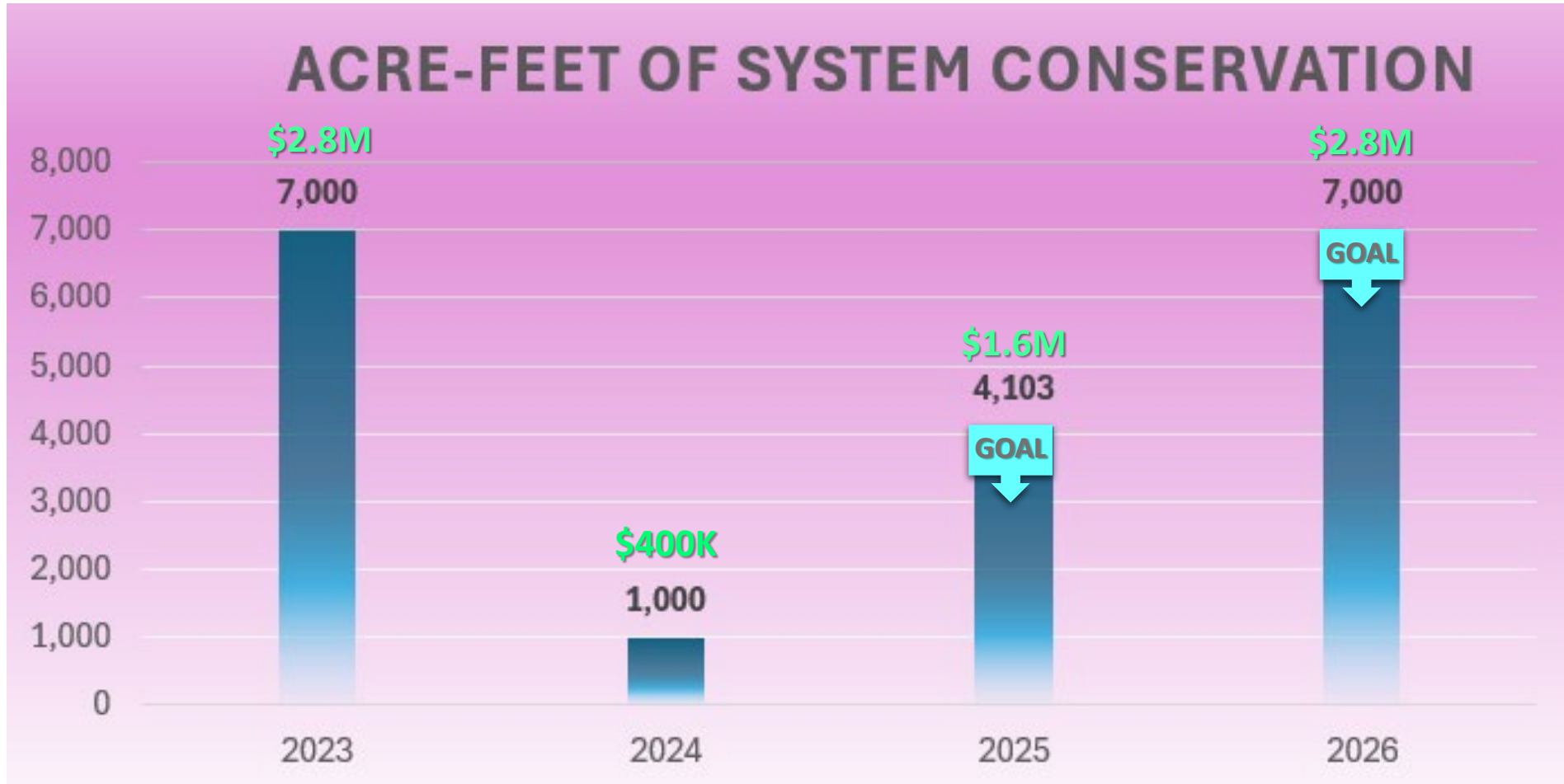


Potable Water Use from 2015 to 2024





Colorado River System Conservation & Compensation



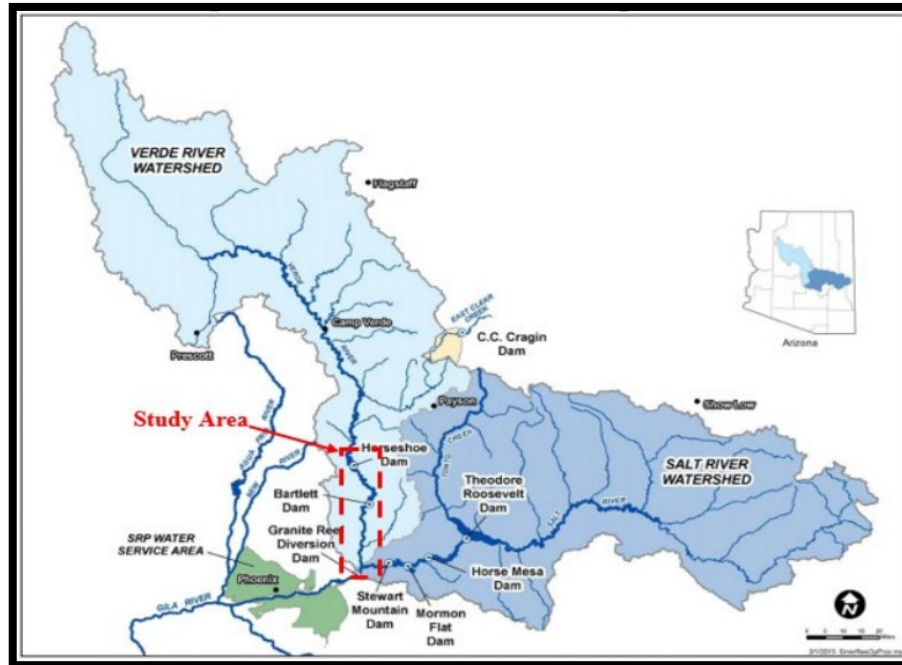


Drought Mitigation Projects

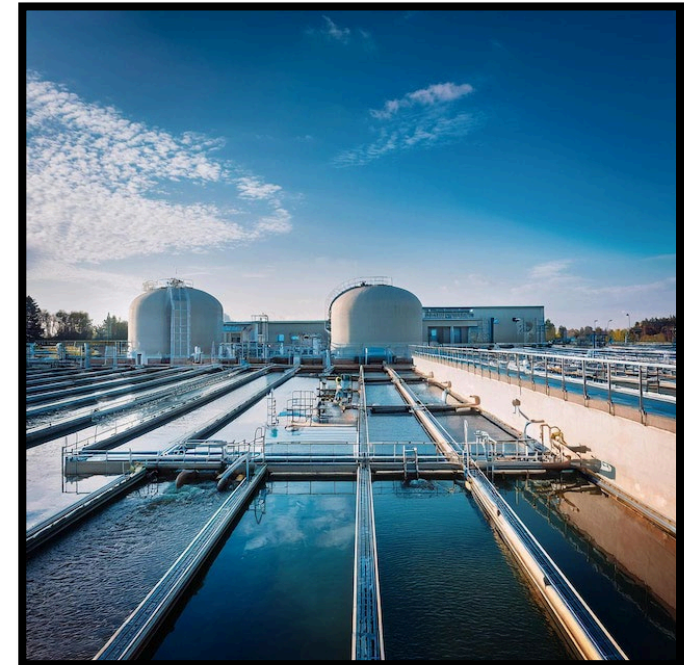
Well Construction

Planned Groundwater Wells		
Well	Status	Capacity
COG 50	Construction	2.8 MGD
COG 51	Construction	1.7 MGD
COG 52	Design	2.4 MGD
COG 53	Study	1.7 MGD
Zone 4 Well	Study	2 - 5 MGD

Verde River Sedimentation Mitigation Project



Advanced Water Purification





Water Conservation Rebates Expanded in FY 23

City of Glendale

RESIDENTIAL REBATES

Glendale
WATER SERVICES

IRRIGATION TECHNOLOGY

UP TO **\$750**

LANDSCAPE

UP TO **\$3000**
for xeriscape (\$1.00/SF)

UP TO **\$250**
for artificial grass (\$0.25/SF)

POOL/SPA REMOVAL

UP TO **\$800**

ENERGY STAR CLOTHES WASHER

UP TO **\$200**

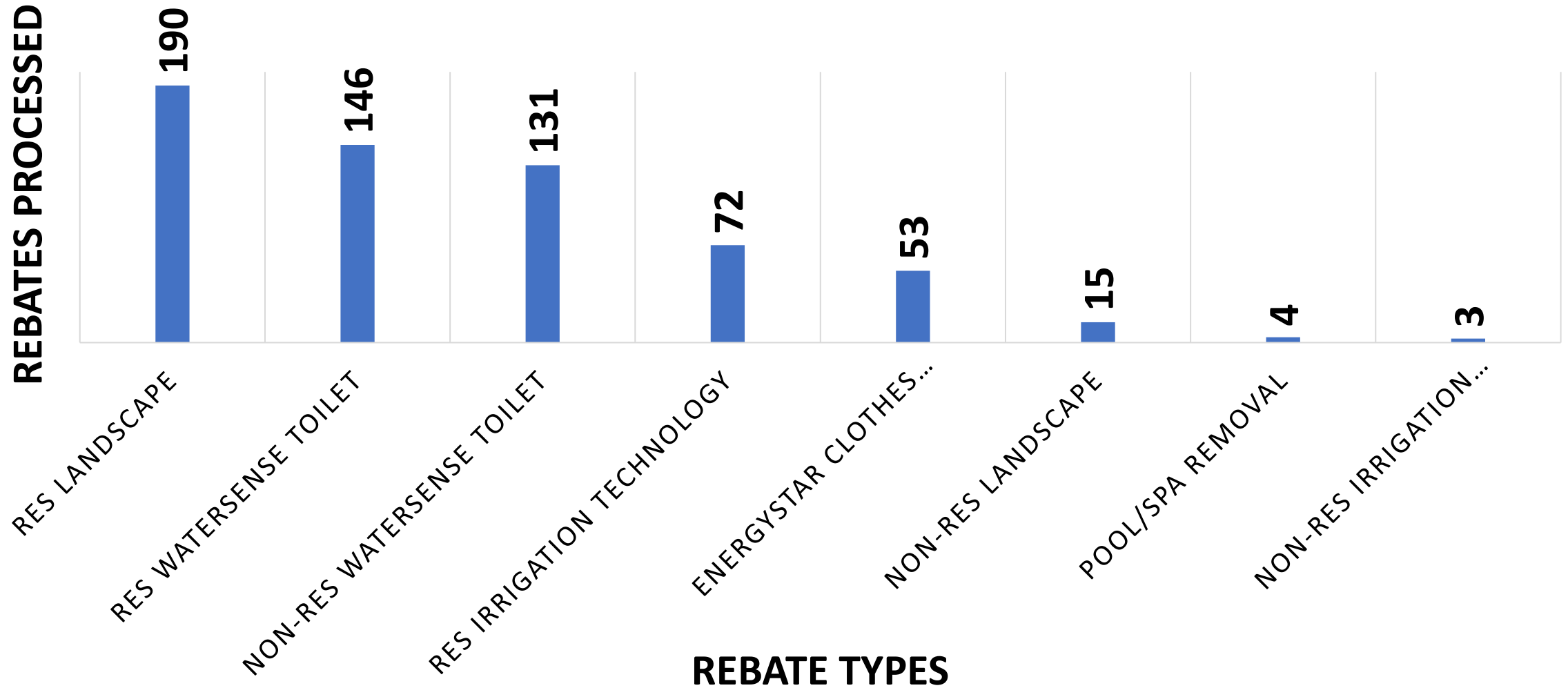
WATERSENSE TOILET

UP TO **\$100**

The infographic depicts a house with a grey roof and a light blue interior. The house is divided into sections representing different rebate categories. On the left, a pool/spa removal icon is shown. In the center, a blue energy star clothes washer and a blue watersense toilet are shown. On the right, an irrigation technology icon (a blue sprinkler) and a landscape icon (a blue plant) are shown. The background is a light blue sky with white clouds.



Water Conservation Rebates Since FY23





Next Steps

- Continue outreach to community and promote water conservation rebates.
- Monitor Colorado River conditions for potential impacts to Glendale's supplies.
- Begin update to City's Drought Management Plan for post-2026 Colorado River operating guidelines.
- Invest in cost-effective projects that create resilience in Glendale's water portfolio.



Thank you. Questions?





Glendale

A R I Z O N A