Glendale
ARIZONA

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?

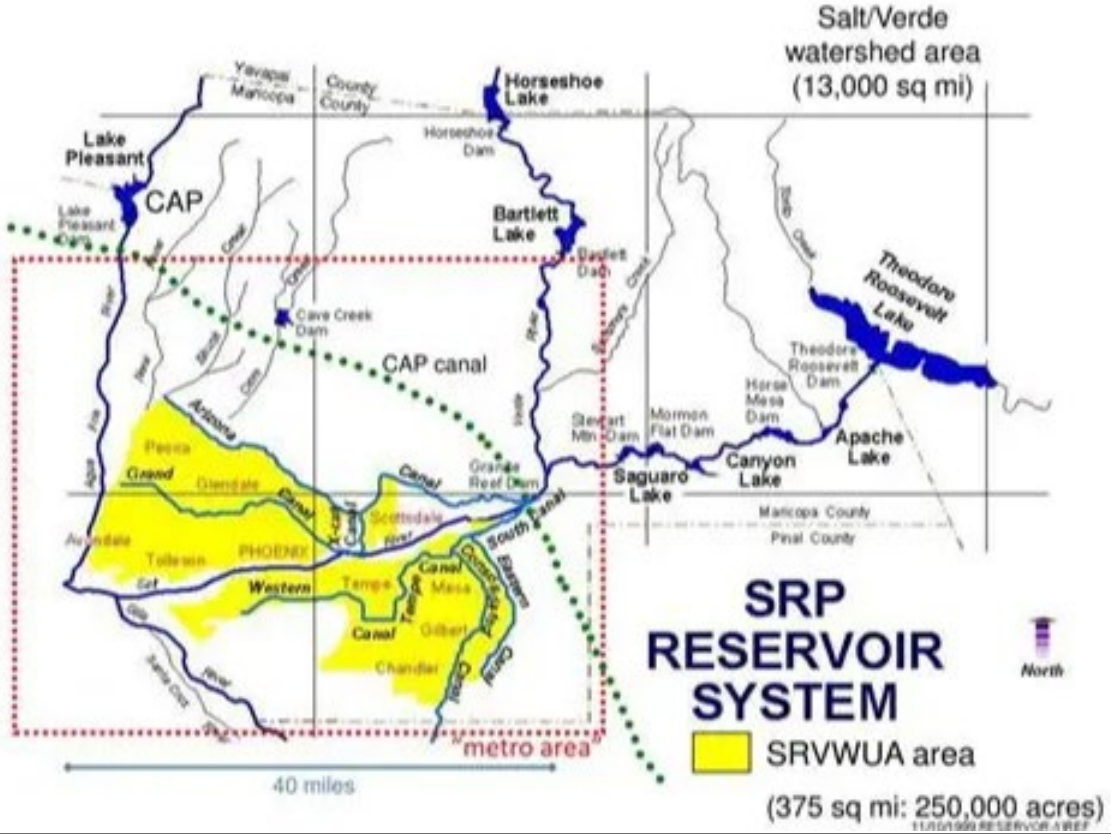
DIVERSE WATER SUPPLIES

Surface Water
Salt & Verde Rivers
Colorado River

Groundwater

Effluent (Reclaimed Water)

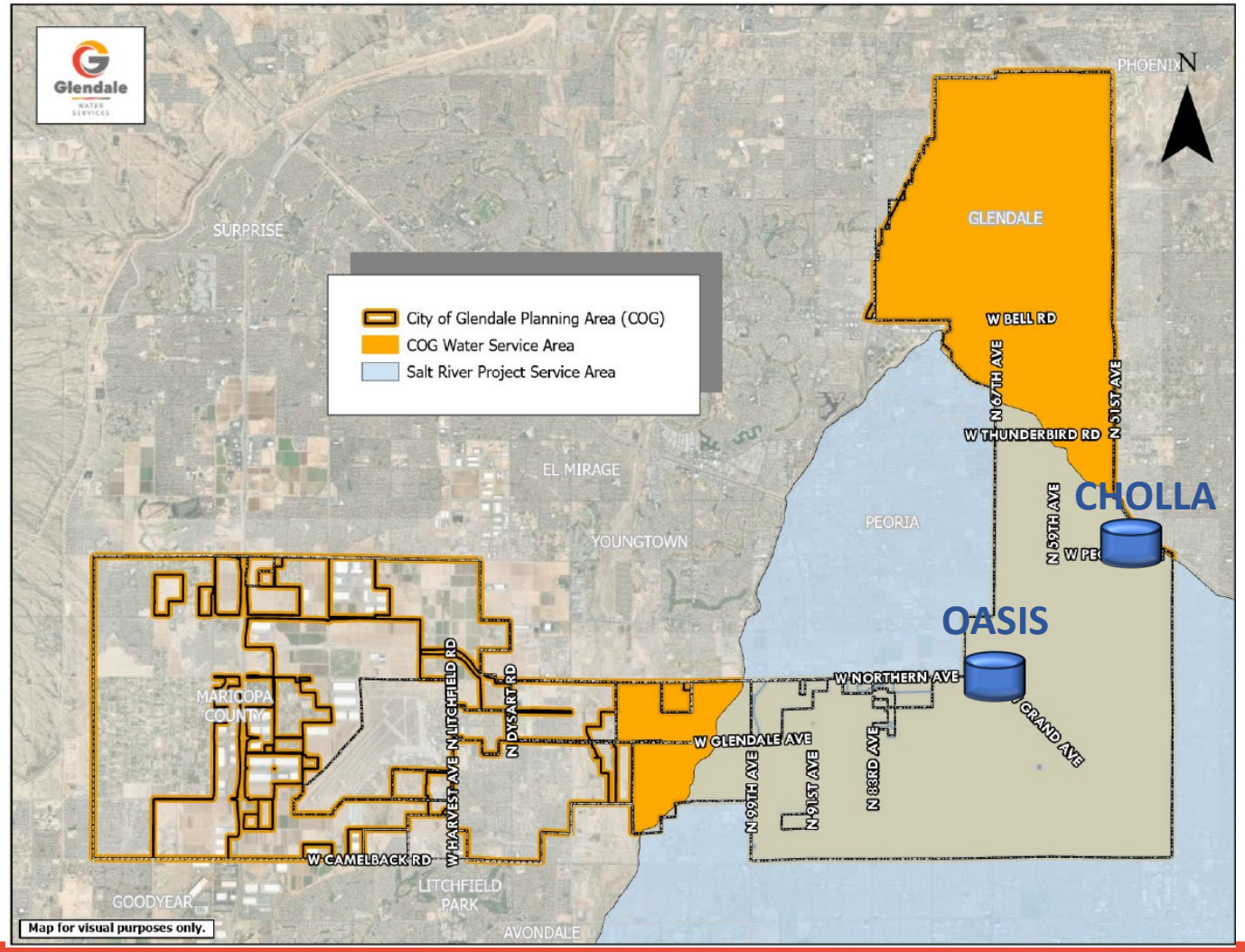
Salt and Verde Rivers



Annual SRP Supply = 55,455 Acre-Feet

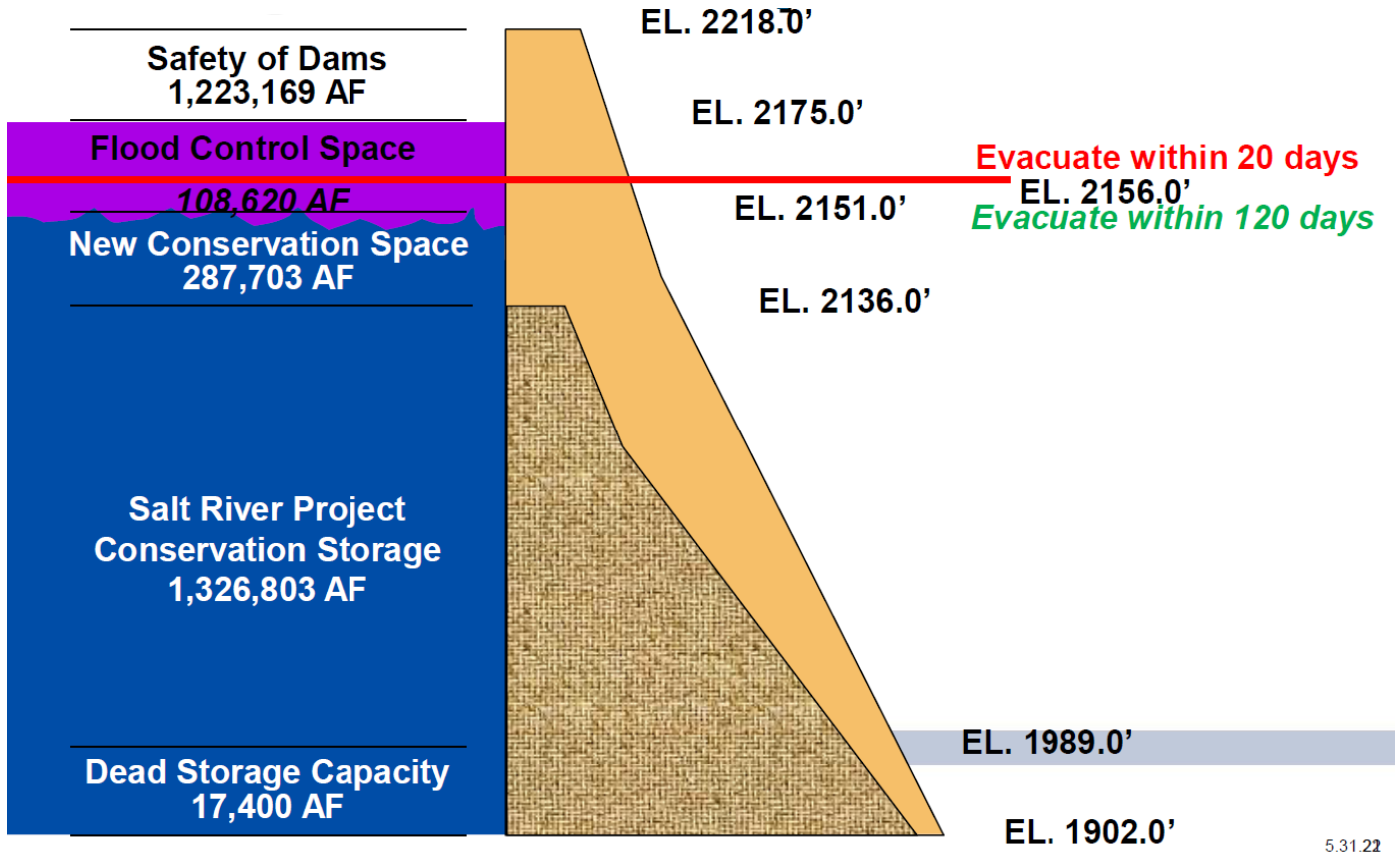
Salt River Project (SRP) On-/Off-Project

- 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.

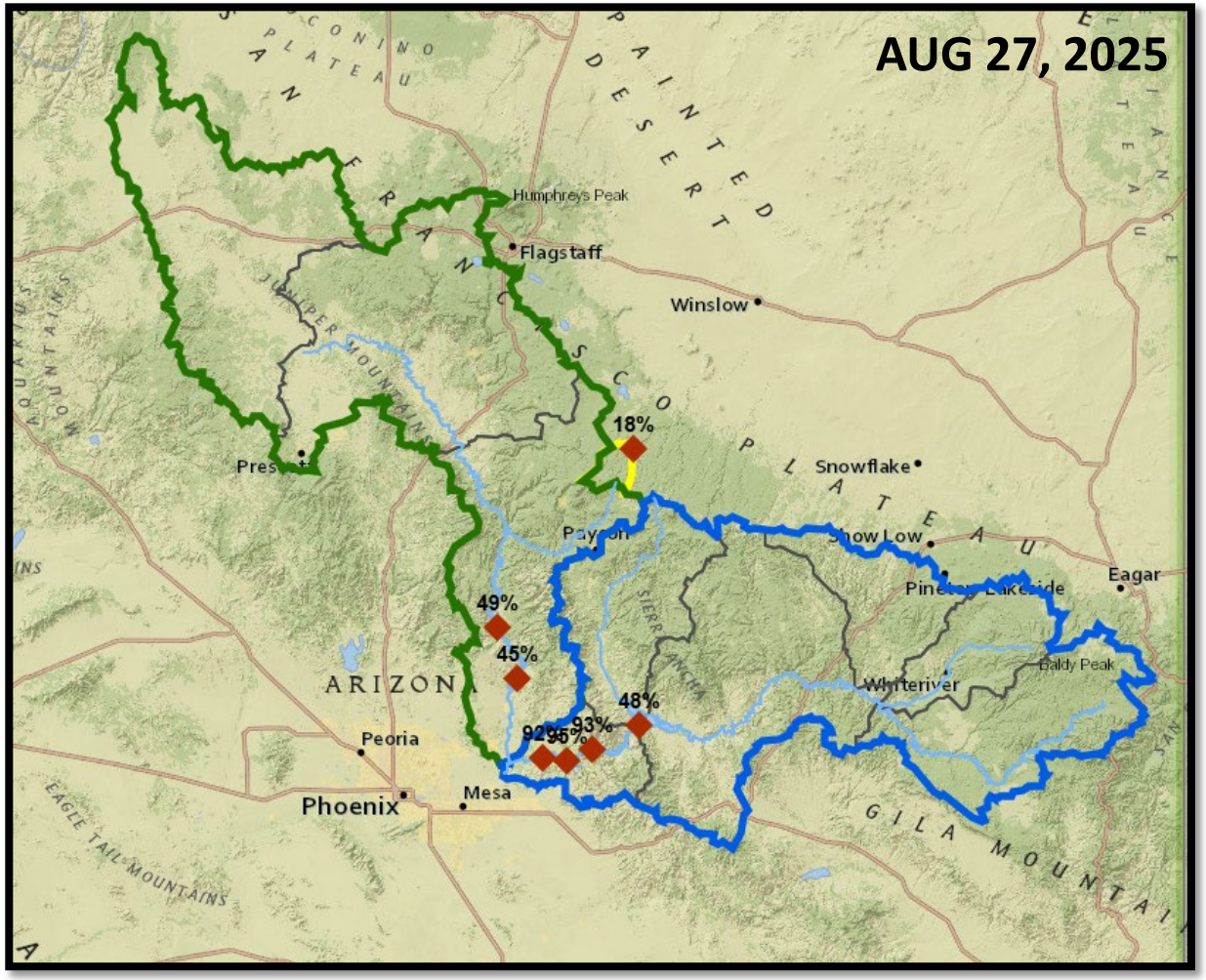


Additional Supplies via SRP System

- 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

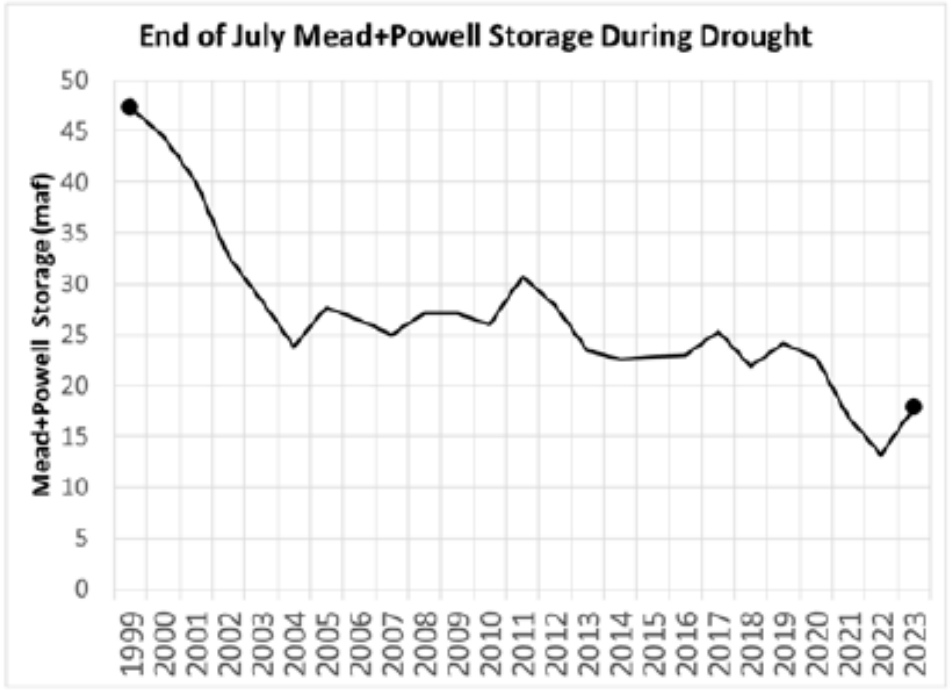


- Western Arizona experienced less than 30% of normal precipitation from the 2024 monsoon season.
- 55% full on SRP system compared to 81% last year at the same time.
- 2024-2025 Winter – below average precipitation
- More SRP groundwater added to the system to compensate for reduced flows.

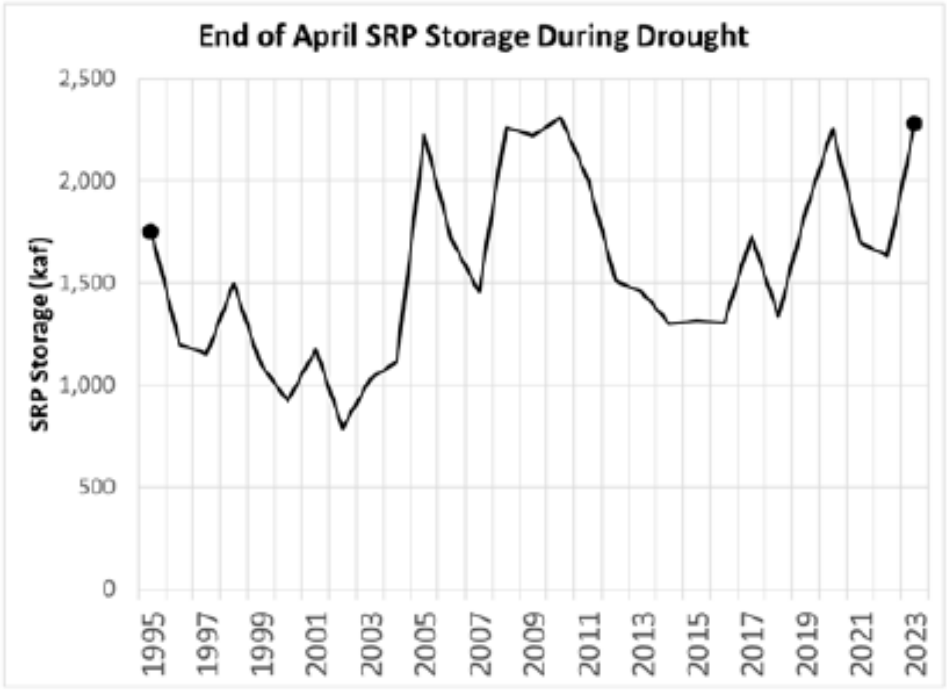
SRP Watershed Conditions

Storage During Extreme Long-term Drought

Colorado River

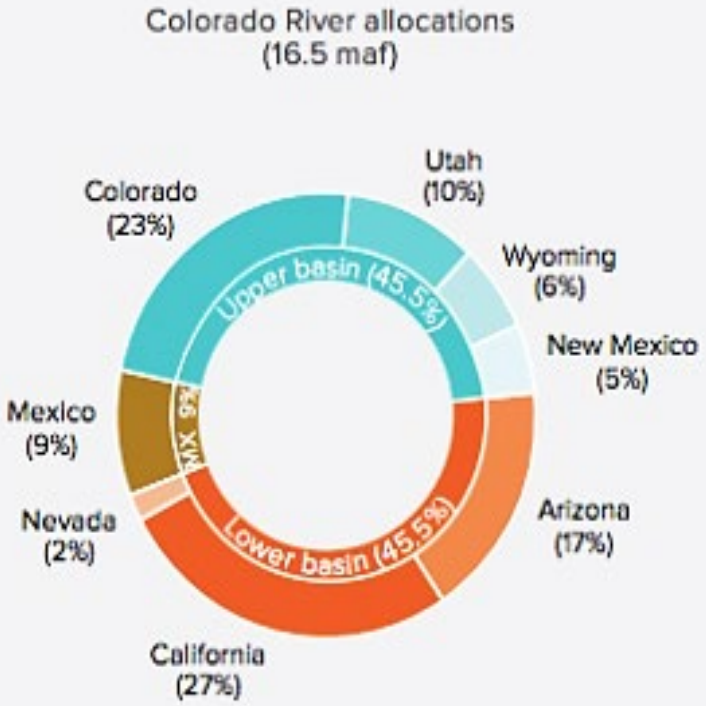


Salt-Verde Rivers



Colorado River

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



- 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.

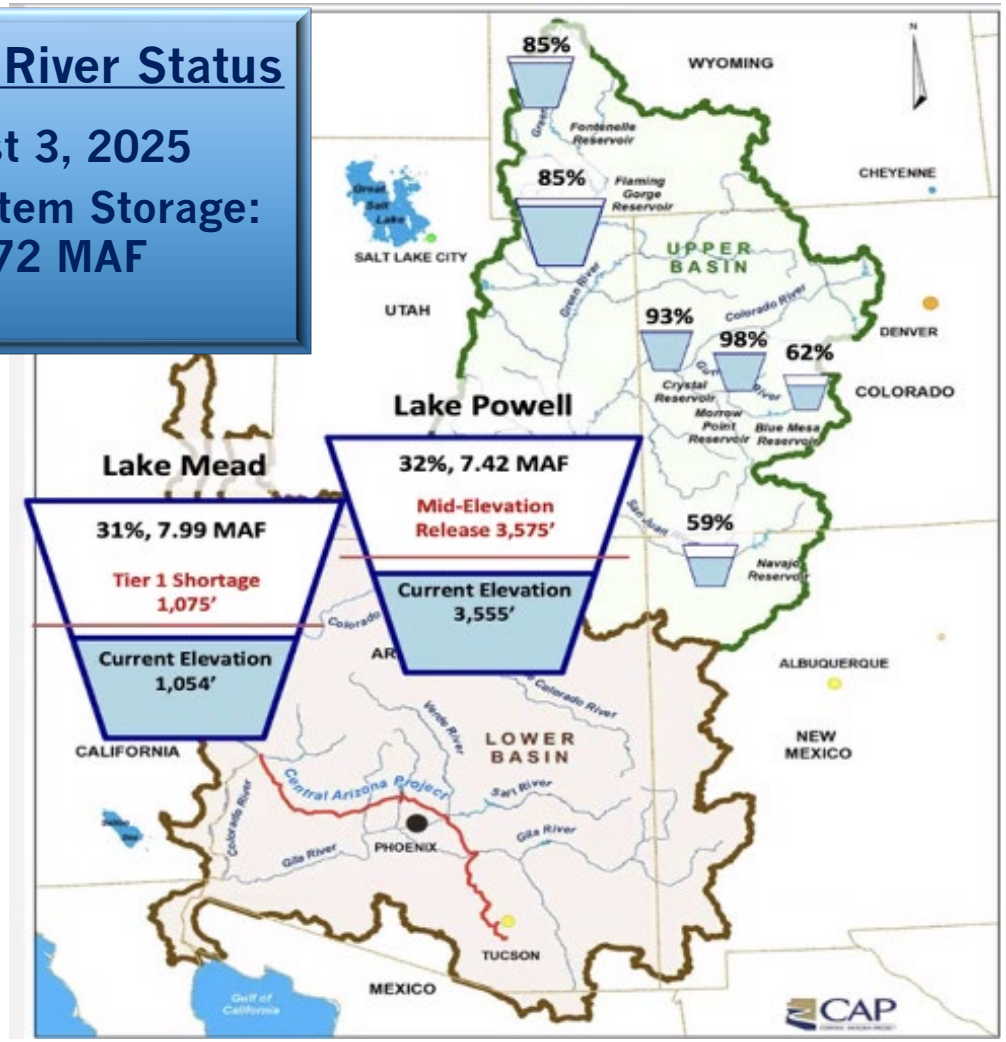
Annual CAP Supply = 22,582 Acre-Feet

Current Colorado River Conditions

Colorado River Status

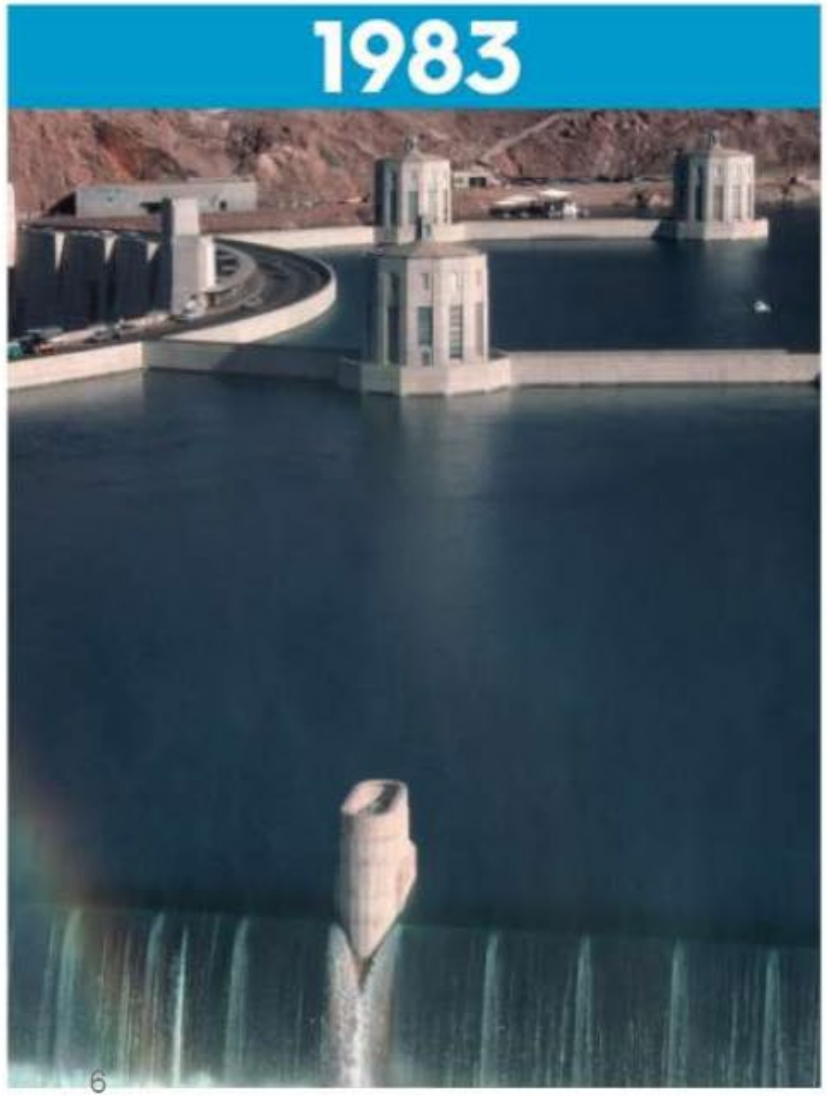
August 3, 2025

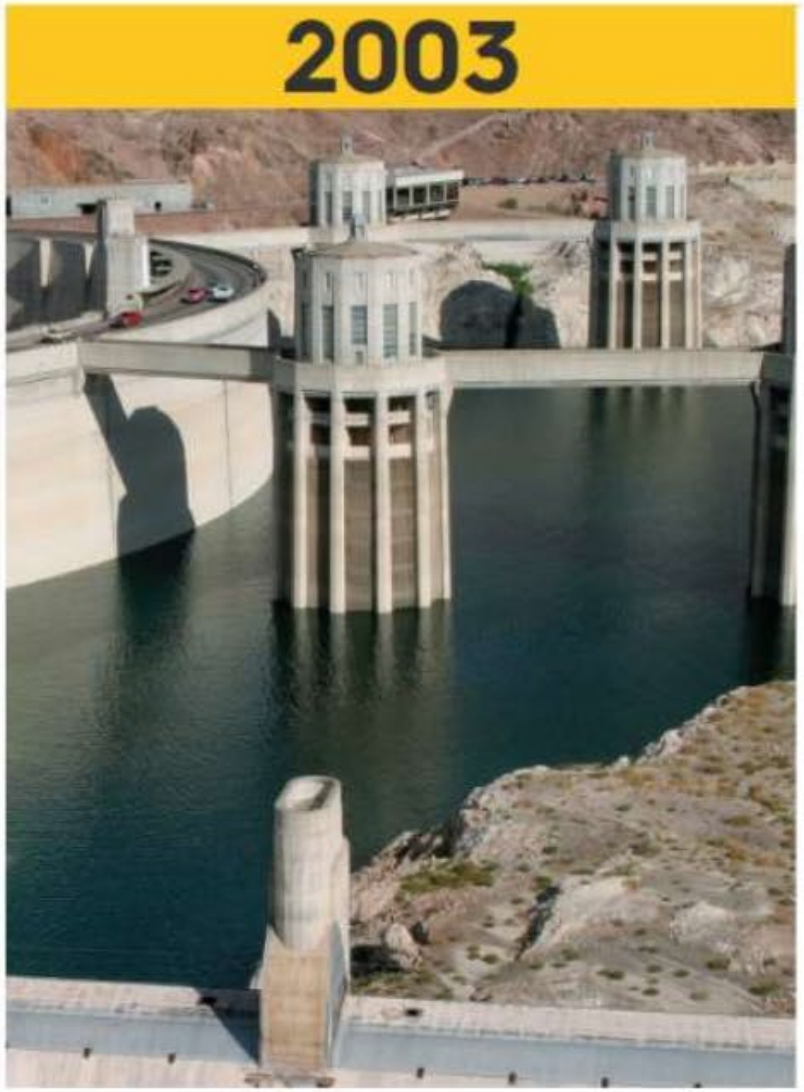
Total System Storage: 22.72 MAF



- 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.





New Colorado River Operations in 2027

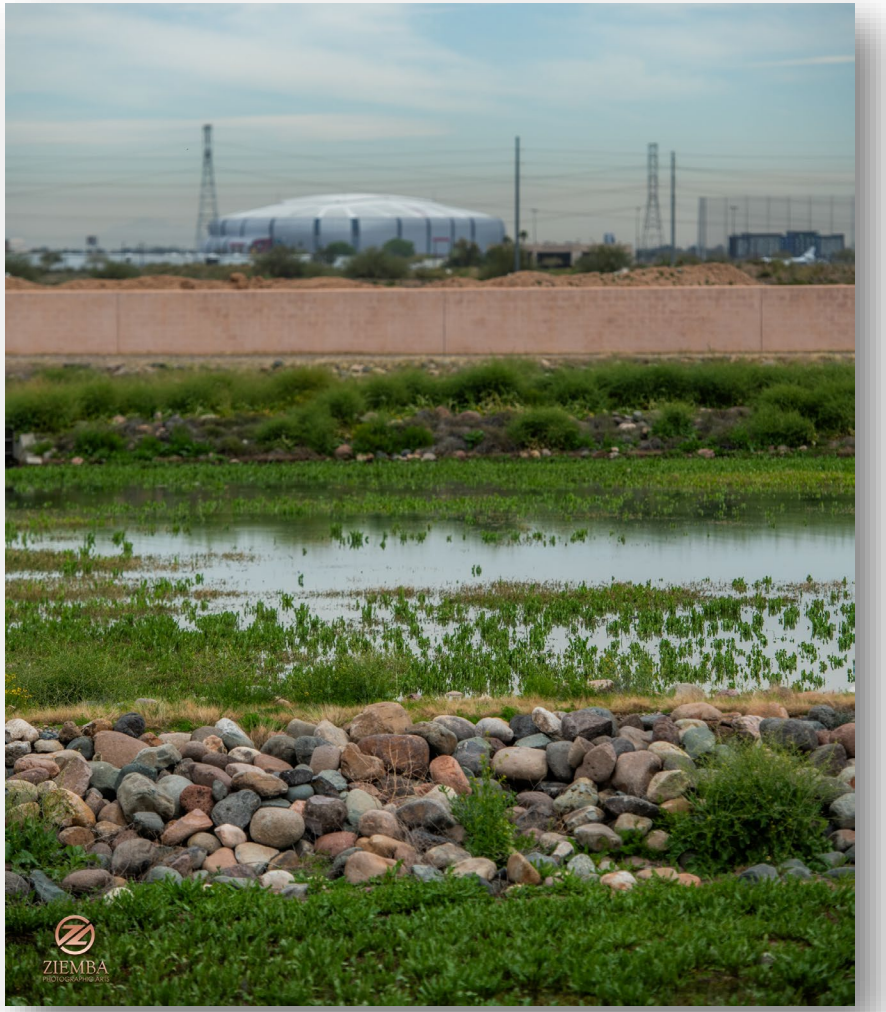
- The current operating guidelines for the Colorado River expire in 2026.
- Ongoing negotiations between the Basin States.
- The exact reductions to the Central Arizona Project are unknown at this time.
- We are preparing for different water shortage scenarios.

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**

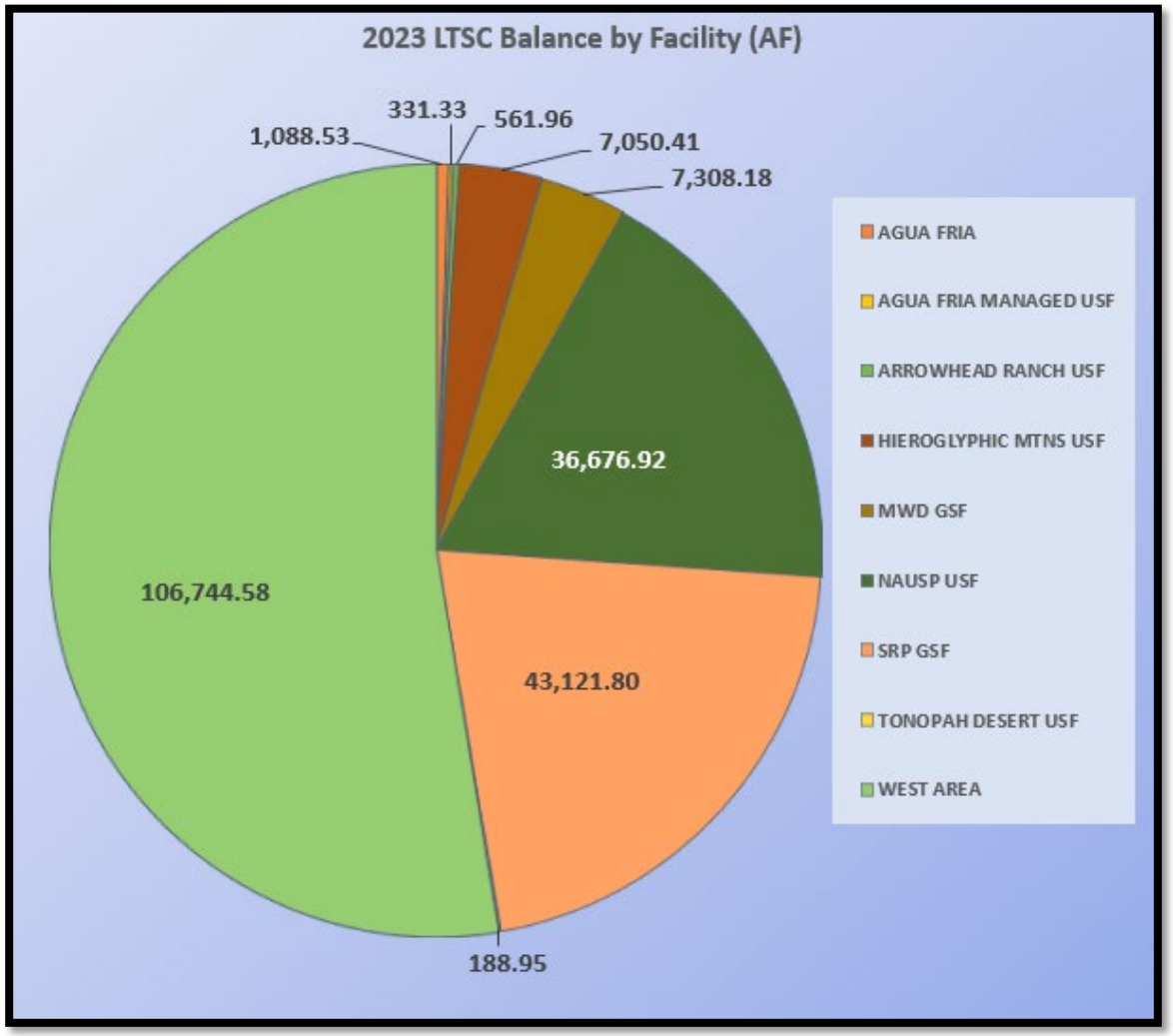
- Recharge accounted for 70% of effluent use
- Reuse accounted for 30% of effluent use

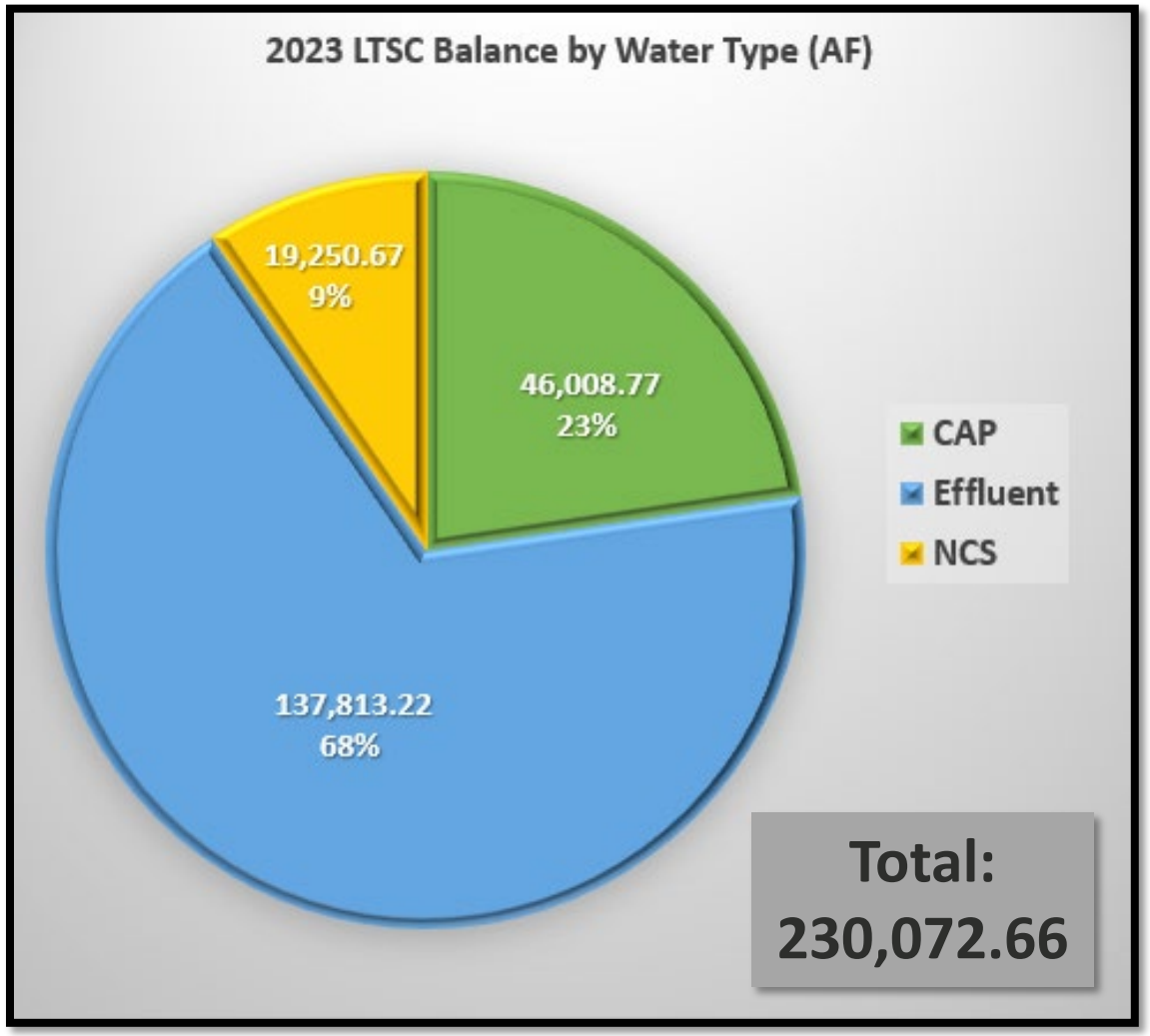
91st Avenue WWTP: **8,696 AF**

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

2024 Effluent Production = 17,914 Acre-Feet

Long-Term Storage Credits in 2023





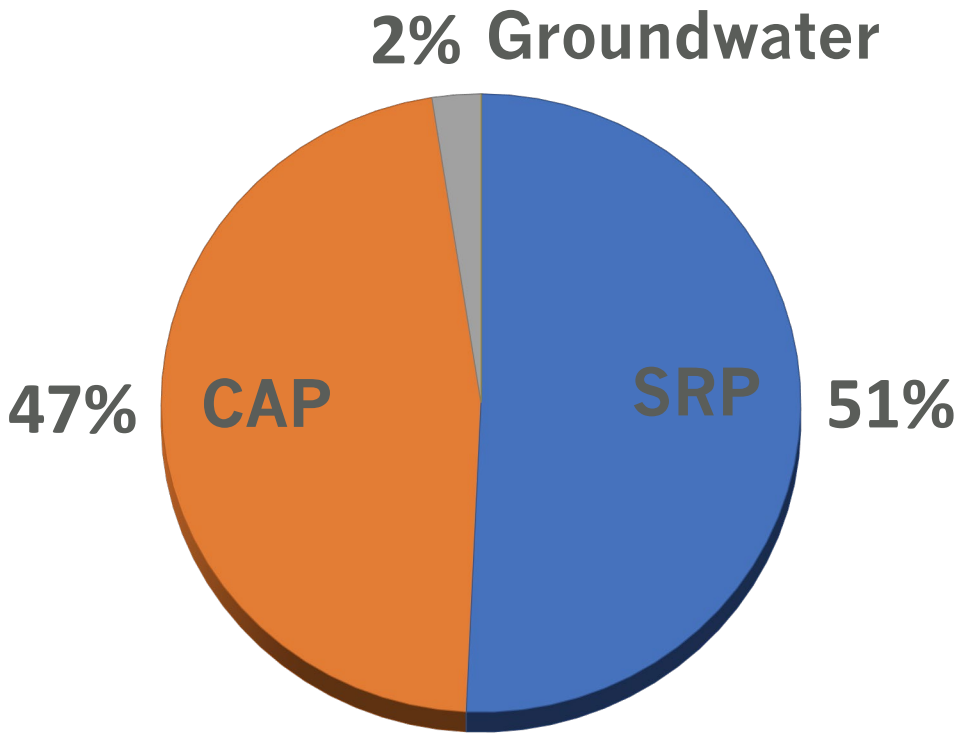
2024 Glendale Total Potable Water Use

2024 Total Water Use = 40,590 acre-feet
2023 Total Water Use = 37,477 acre-feet
2022 Total Water Use = 38,699 acre-feet

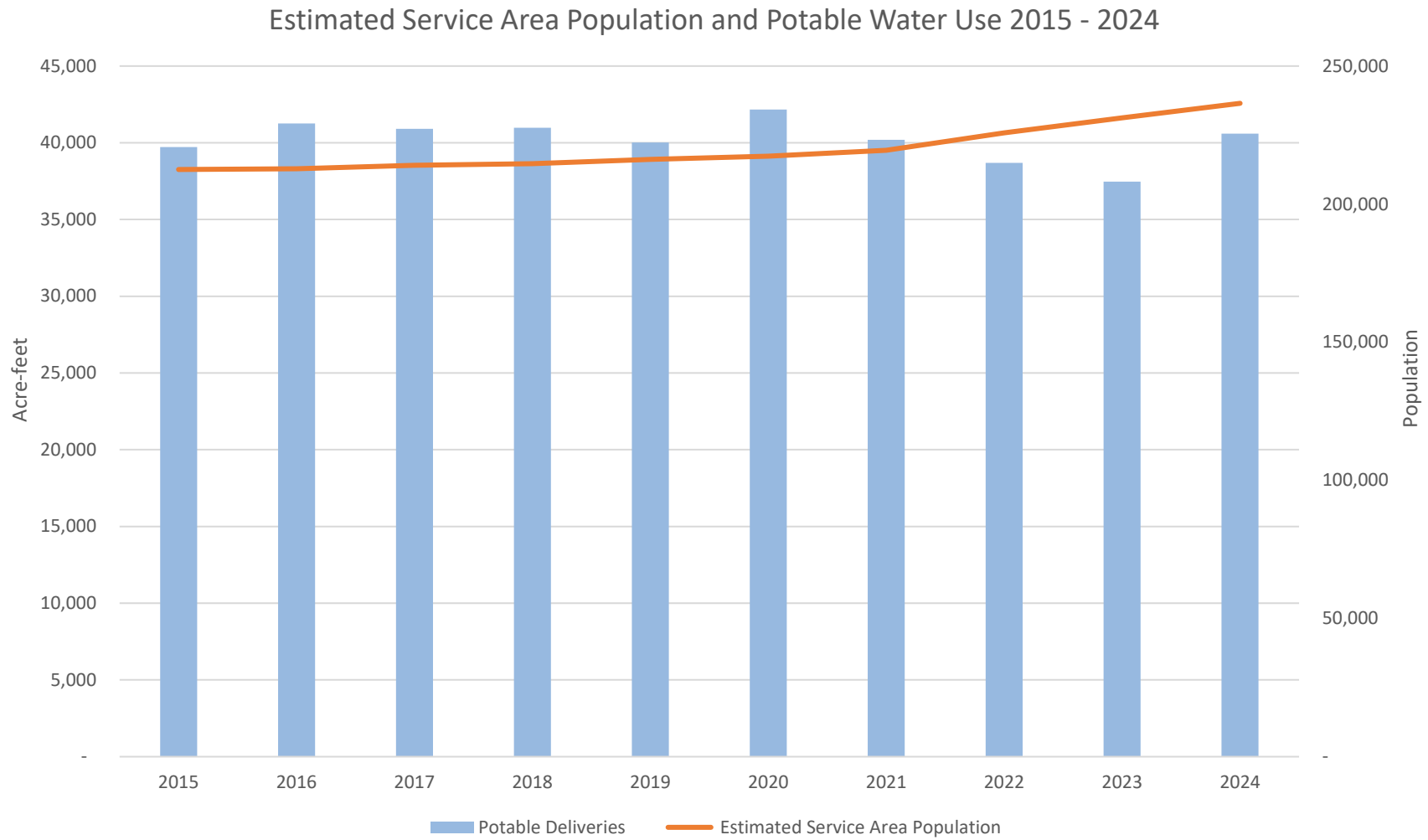
Central Arizona Project (CAP) - 47%

Salt River Project (SRP) - 51%

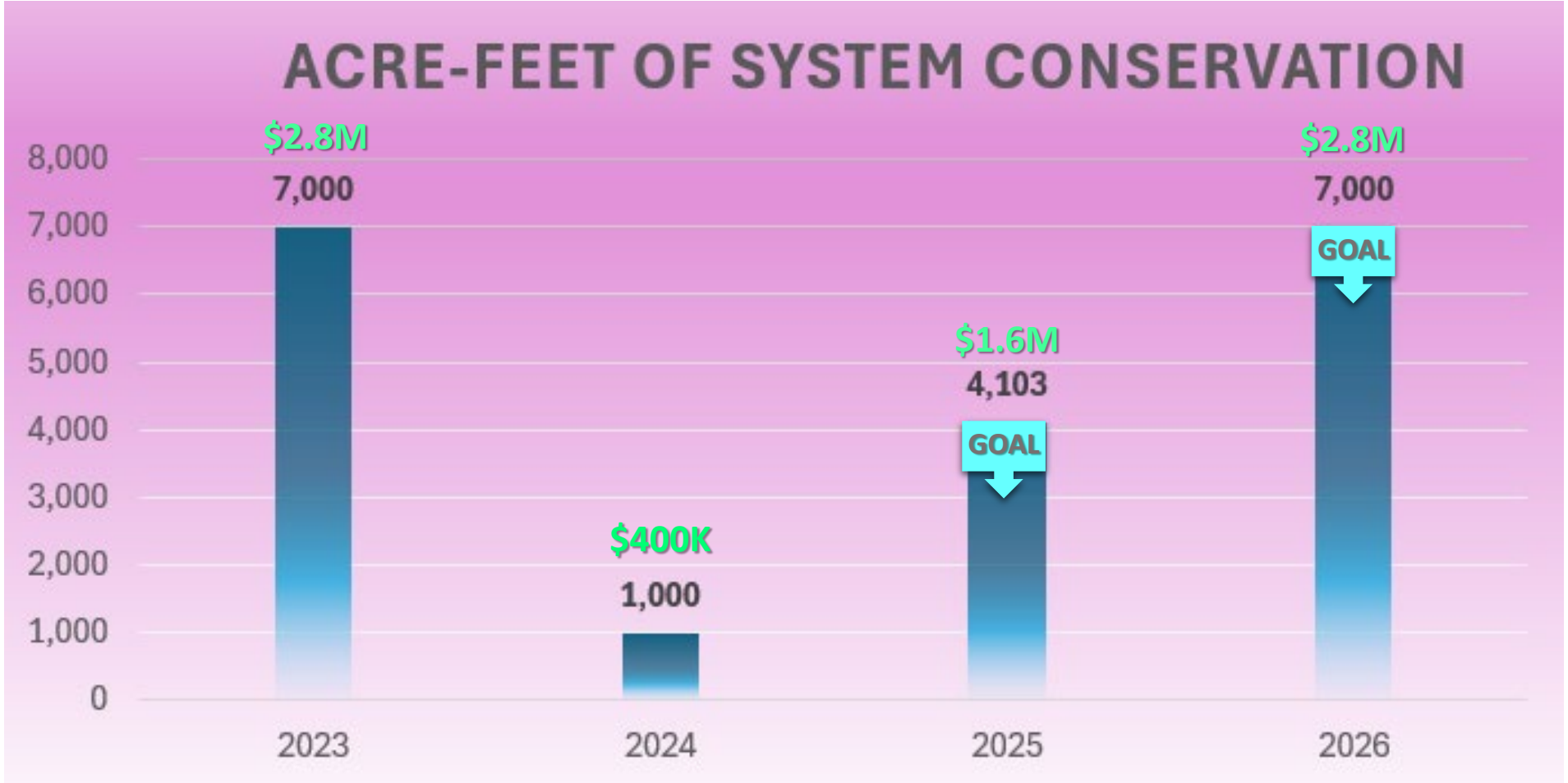
Groundwater (GW) - 2%



Potable Water Use from 2015 to 2024



Colorado River System Conservation & Compensation

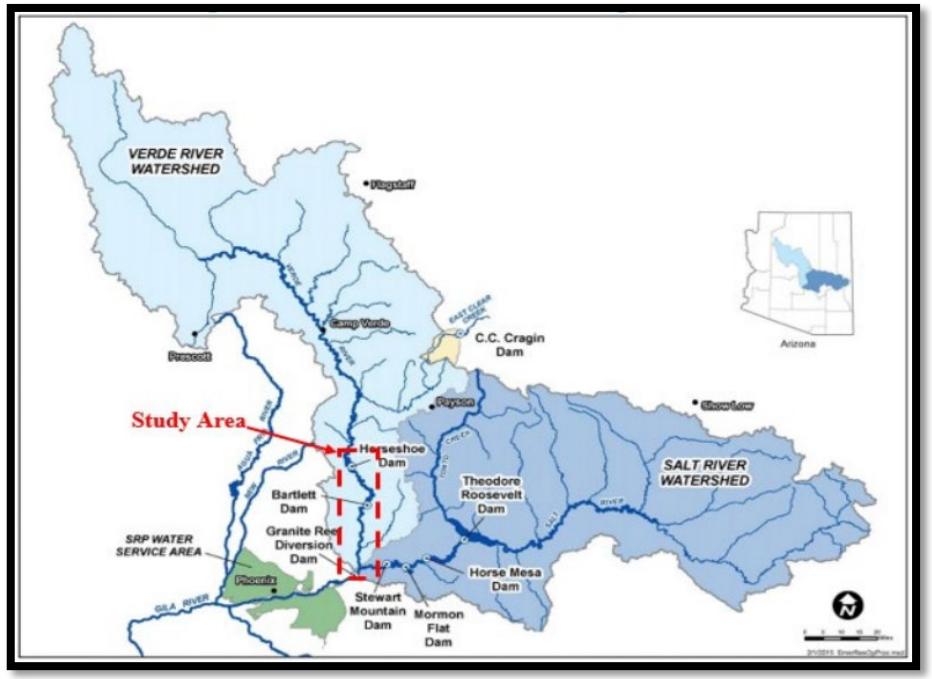


Drought Mitigation Projects

Well Construction

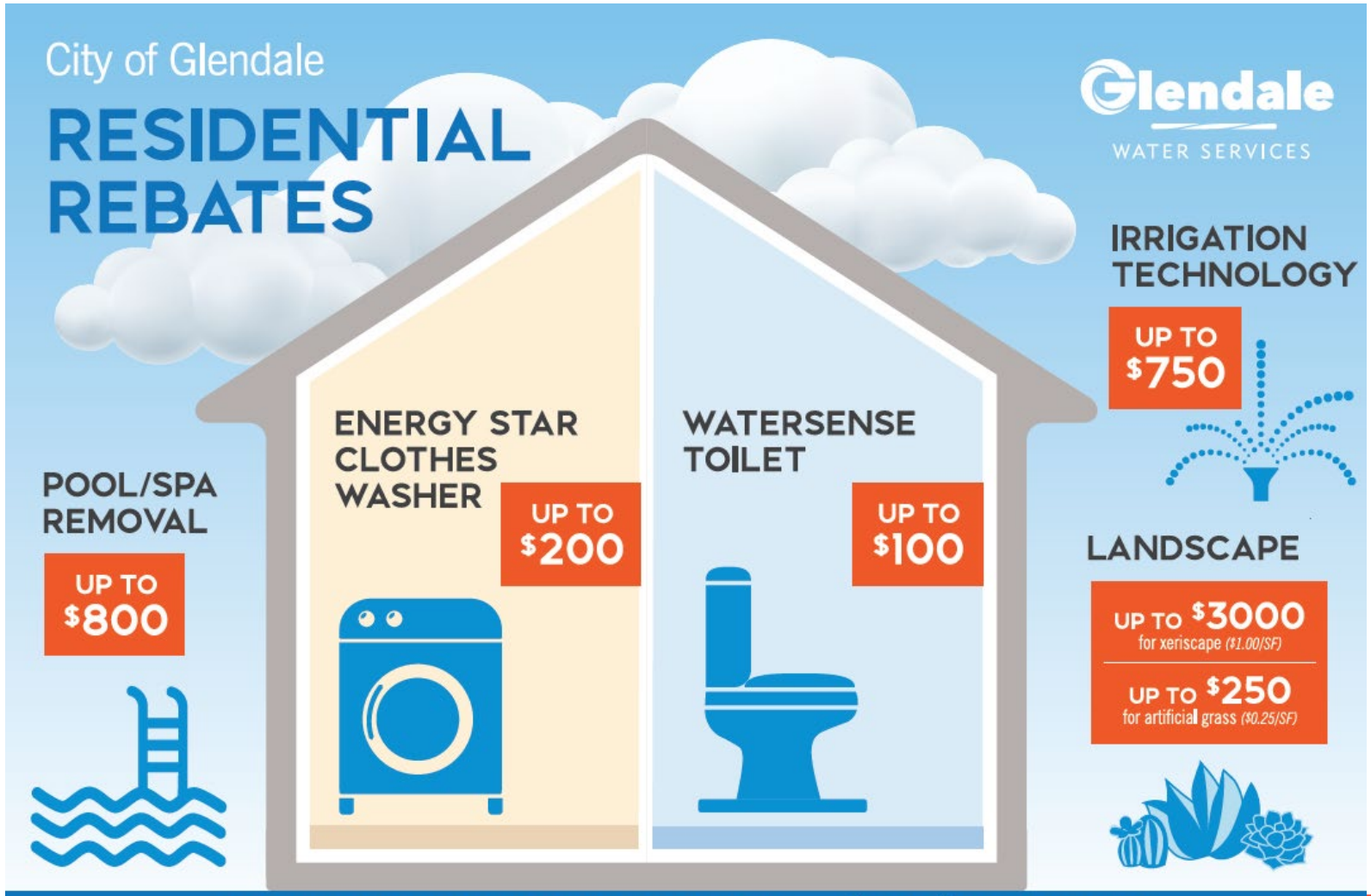
Planned Groundwater Wells		
Well	**Status**	**Capacity**
COG 50	Construction	2.8 MGD
COG 51	Construction	1.7 MGD
COG 52	Design	2.4 MGD
COG 53	Study	1.7 MGD
Zone 4 Well	Study	2 - 5 MGD

Verde River Sedimentation Mitigation Project

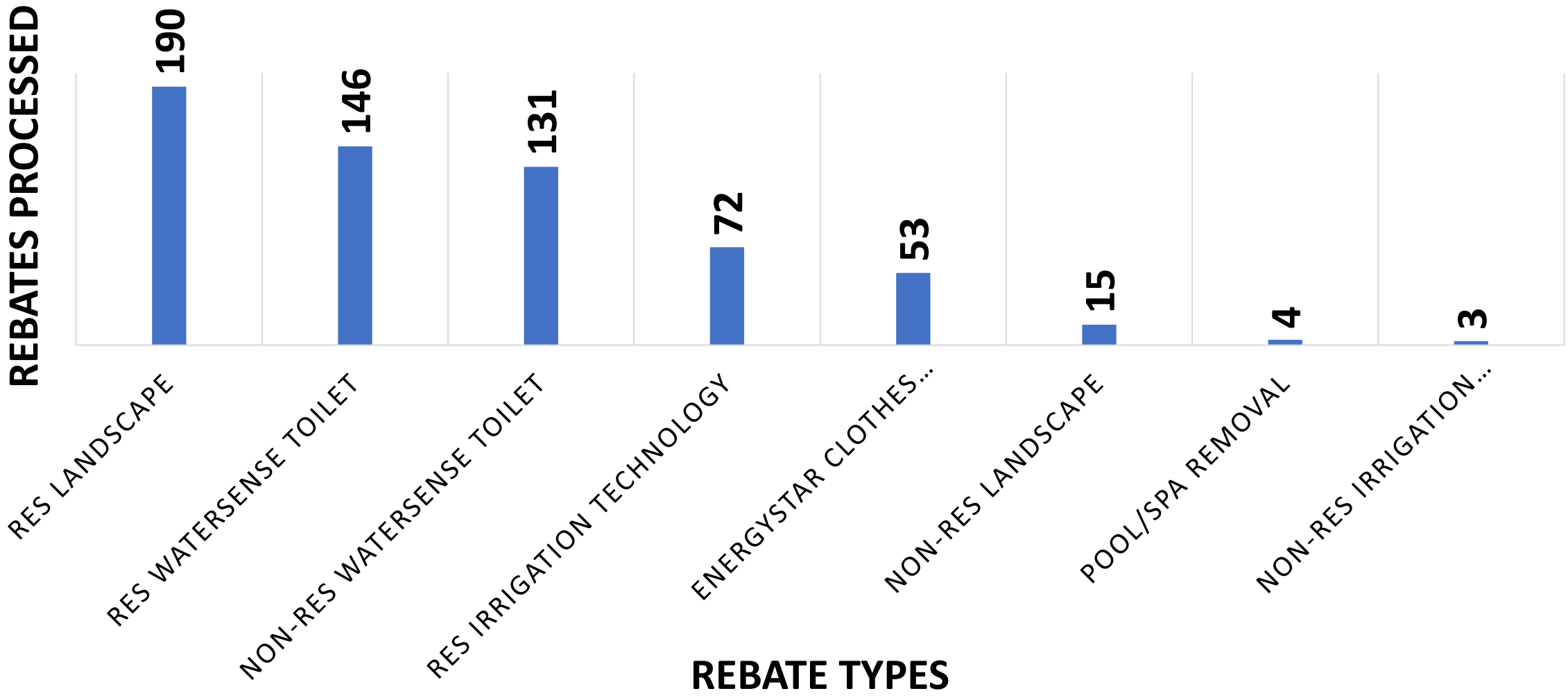


Advanced Water Purification

Water Conservation Rebates Expanded in FY 23



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?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