



Responding to Shortage

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Responding to Shortage in Central Arizona

Approaches include:

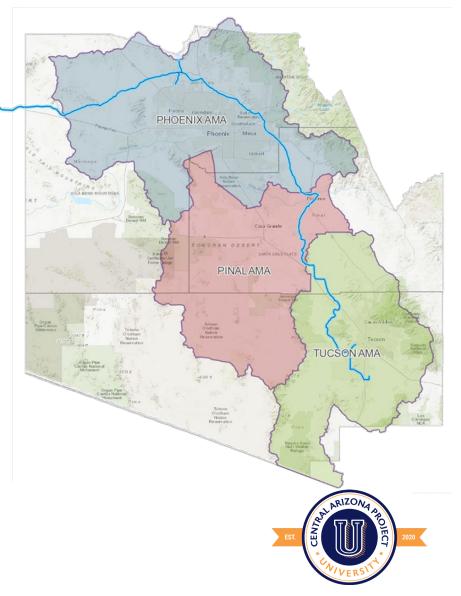
- Conservation
- CAP Priority System
- Water Banking
- Diversification & Innovation



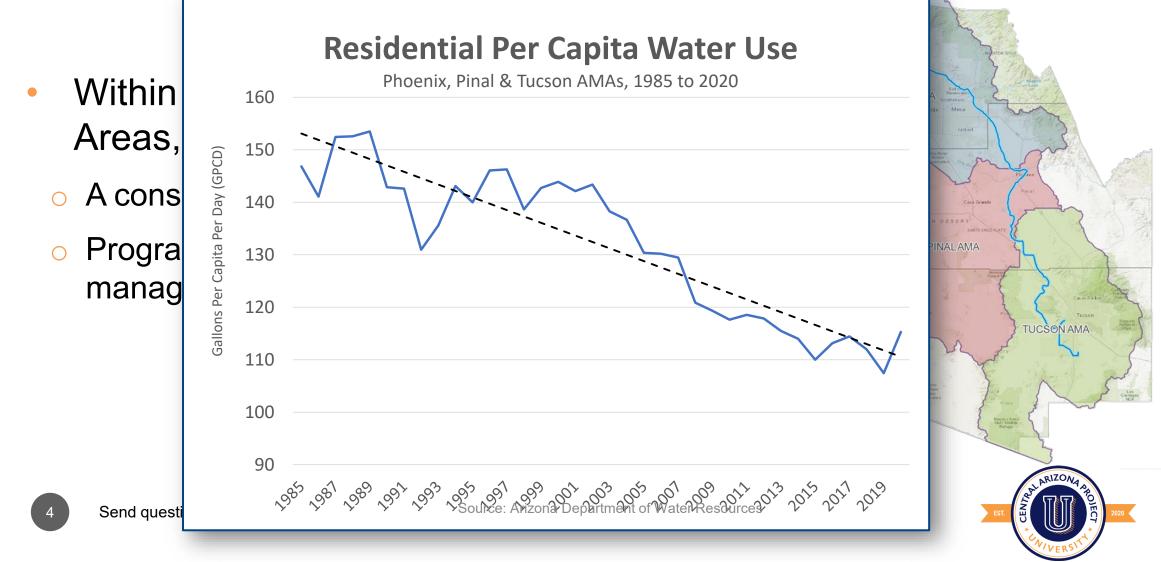
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Conservation

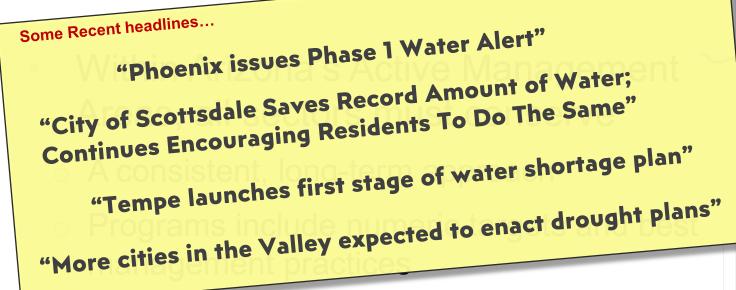
- Within Arizona's Active Management Areas, all sectors must conserve
 - A consistent, long-term approach
 - Programs include numeric targets and best management practices



Conservation



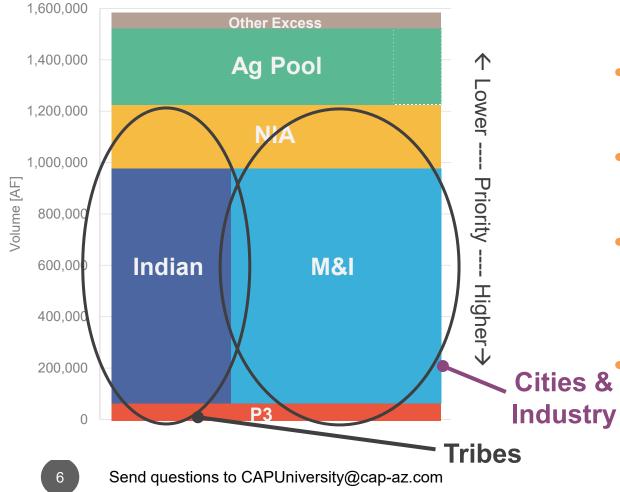
Conservation



 All public and private water companies must have a Drought Response Plan



CAP Priority System—Full Supply Example

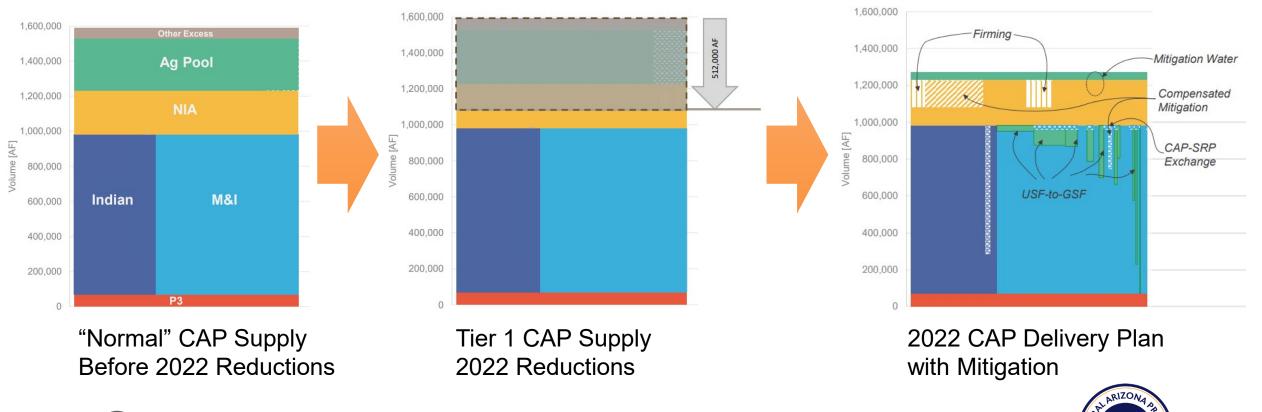


- Not all users have the same access to the CAP supply
- Higher priority towards the bottom of the "Block Chart"
- The priorities help protect the CAP supplies used by public and private water companies

The names of the "pools" do not neatly align with uses



CAP Priority System—Reductions and Mitigation



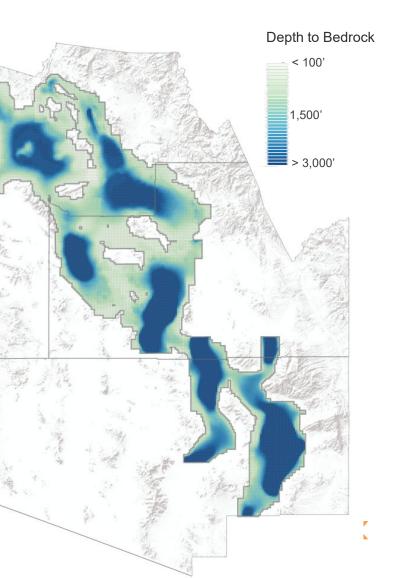


Water Banking

 Recharging water for later use is a critical part of Arizona's strategy for dealing with Colorado River shortages

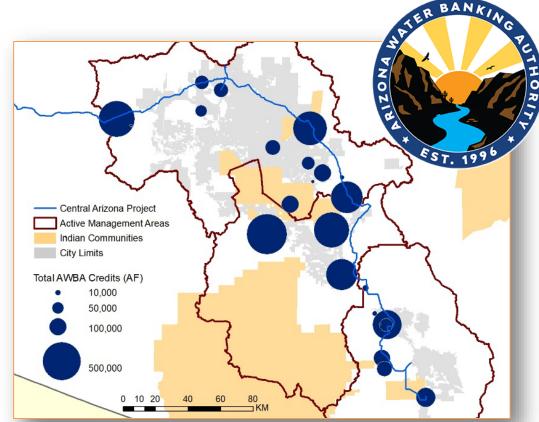






Water Banking

- The Arizona Water Banking Authority was established in 1996 to store available CAP water and to prepare for shortages
- During shortage, stored water is pumped from wells ("recovered") to supplement ("firm") CAP deliveries that have been reduced

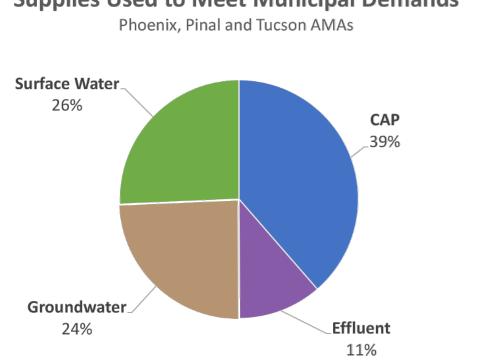


Locations and Volume Stored by the Arizona Water Banking Authority



Diversification & Innovation

- Many water providers have access to more than one type of water supply
- Investments have been made in wells, pipelines, interconnections and other infrastructure



Supplies Used to Meet Municipal Demands

Source: Arizona Department of Water Resources, 2019

Diversification & Innovation

- Maximizing the benefit of existing infrastructure can be an important shortage strategy
- The "System Use Agreement" between CAP and the Bureau of Reclamation provides a framework for using the CAP in new and flexible ways
 - Wheeling, Firming and Exchanges



SUA signing, February 2017



Key Messages

- Central Arizona has adopted a multifaceted approach to managing shortage
- There are long-standing conservation and drought management requirements in place
- The CAP priority system helps reduce the impact to supplies used by public and private water companies
- Banking water in our aquifers has created a valuable supplemental supply for long-term use
- Shortage impacts can be further reduced with diversification of supplies, infrastructure investments and innovative partnerships





Send questions to CAPUniversity@cap-az.com