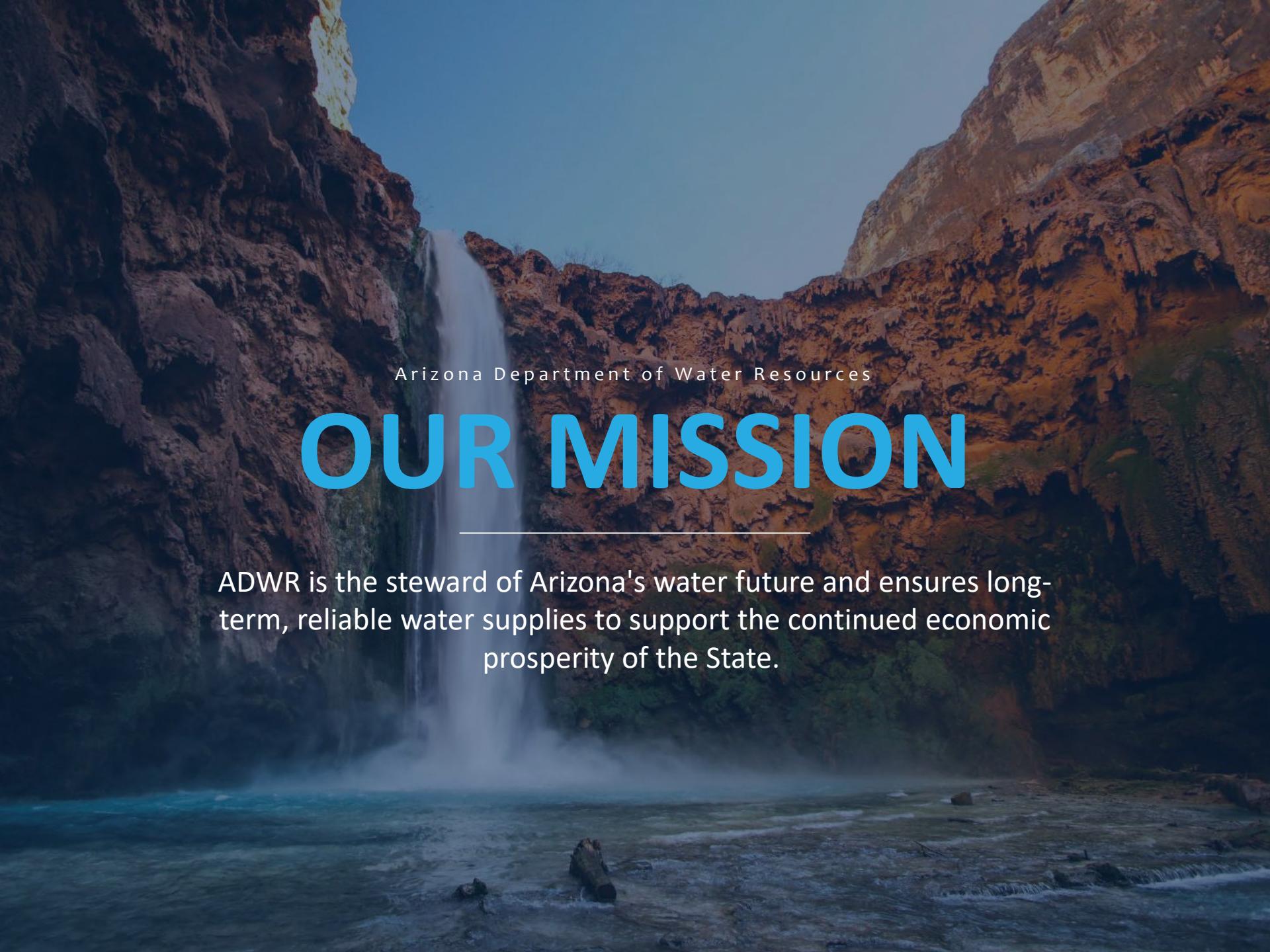


Arizona Fall Water Symposium

Cottonwood, AZ



Natalie Mast
AMA Management Plans Manager
Arizona Department of Water Resources
September 24, 2019

A photograph of a waterfall in a rugged, rocky landscape. The waterfall flows from a high, rocky cliff into a pool of water at the bottom. A large, light-colored rock formation is visible on the right side of the image. The sky is clear and blue.

Arizona Department of Water Resources

OUR MISSION

ADWR is the steward of Arizona's water future and ensures long-term, reliable water supplies to support the continued economic prosperity of the State.



ADWR's Critical Functions

Created By Groundwater Management Act (1980)

- **Groundwater Rights and Surface Water Rights Programs**
- **Assured and Adequate Water Supply Program**
- **Recharge and Recovery Program**
- **Regional Planning**

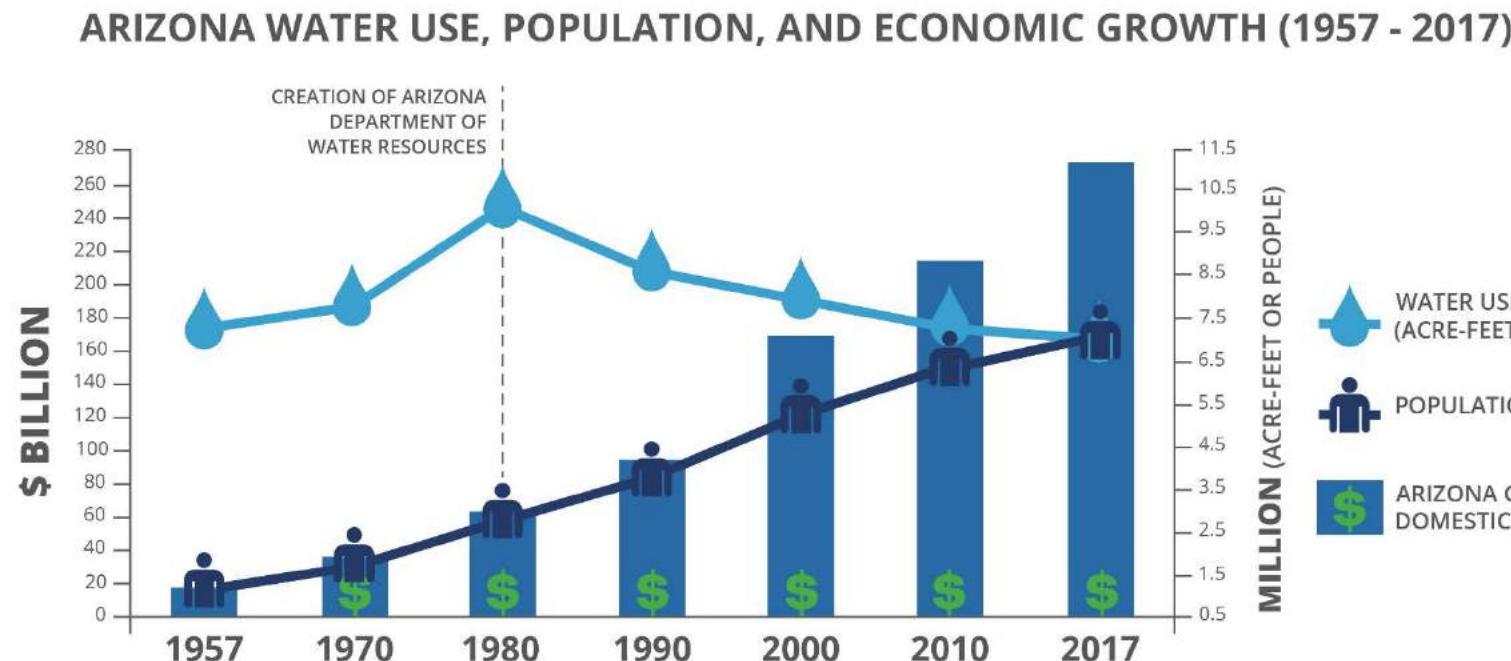


ADWR's Critical Functions

Created By Groundwater Management Act (1980)

- Colorado River Management
- Dam Safety and Flood Mitigation
- Hydrology
- Represents the State of Arizona in Indian Water Rights Settlements

ARIZONA'S WATER MANAGEMENT SUCCESS



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

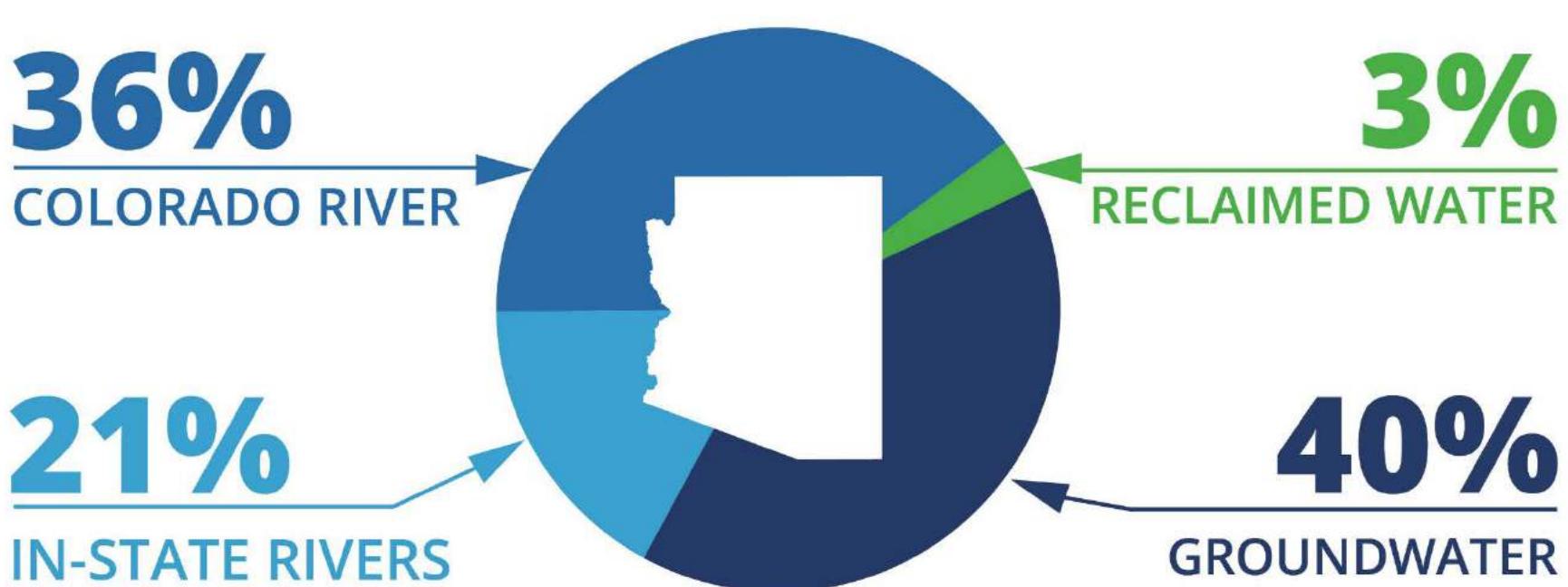
1,951% CHANGE FROM 1957-2017



Water Use By Sector (2017)



Arizona Water Use By Source (2017)





Colorado River Water

The Colorado River is shared between:

- Wyoming
- Colorado
- Utah
- New Mexico

Arizona
California
Nevada
Mexico

Drought conditions on the Colorado River Basin ignited drought contingency planning to protect Lake Powell and Lake Mead

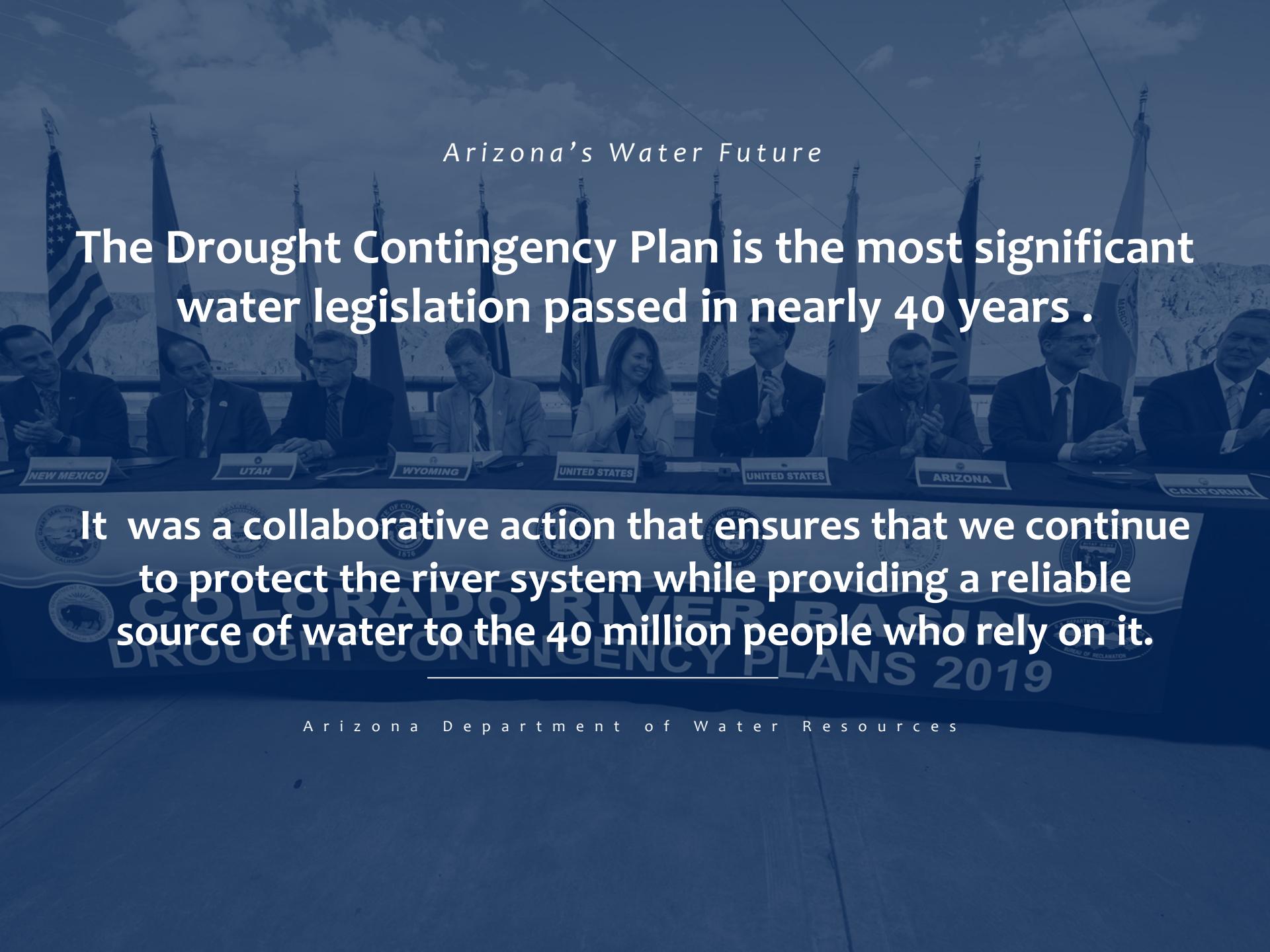
For more information:

- <https://new.azwater.gov/lbdcp>
- <https://new.azwater.gov/crm/shortage-preparedness>



MAP: Colorado River Upper and Lower Basins





Arizona's Water Future

The Drought Contingency Plan is the most significant water legislation passed in nearly 40 years .

It was a collaborative action that ensures that we continue to protect the river system while providing a reliable source of water to the 40 million people who rely on it.

Arizona Department of Water Resources

Drought Contingency Plan Recap

Lower Basin Drought Contingency Plan

- ADWR & CAWCD jointly hosted 9 public Steering Committee meetings to discuss & recommend how to adopt and implement the LBCDP in a way that is acceptable to Arizona water users
- **January 31** – Arizona Legislature passed & Gov. Ducey signed SB 1227
 - The legislation authorized ADWR Director to sign the Interstate DCP Agreements on behalf of Arizona



Colorado River Drought Contingency Plan

- **March 27 & 28** – Reclamation & Colorado River Basin representatives testified at U.S. subcommittee hearings at the Senate (subcommittee chaired by AZ Sen. McSally) & the House (subcommittee chaired by Rep. Huffman; full committee chaired by AZ Rep. Grijalva)
- **April 8** – Bill passed after announced by Sen. McSally & Rep. Grijalva
- **April 16** – Signed by President Trump
- **May 20** – Signed & finalized by Lower Basin States, Reclamation & Interior





SURFACE WATER

Cottonwood Canyon

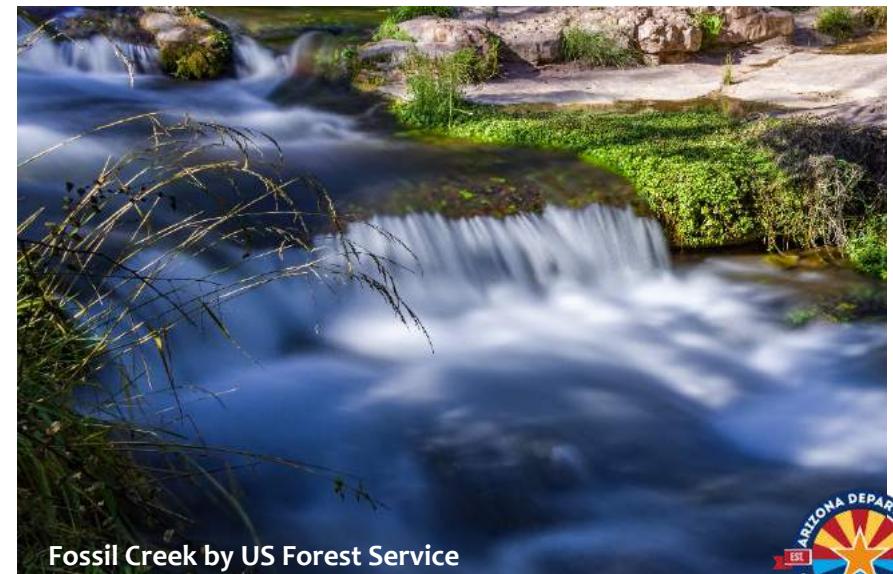
Surface Water

Definition of Surface Water:

“waters of all sources, flowing in streams, canyons, ravines or other natural channels, or in definite underground channels, whether perennial or intermittent, floodwaters, wastewater, or surplus water, and of lakes, ponds, and springs on the surface” (A.R.S. § 45-141)

Doctrine of prior appropriation governs use

- “First in Time, First in Right”
- Appropriate – take for one’s own use
- Beneficial Use (next slide)
- Senior Water Right Holders’ must be fully satisfied before water is available to Junior Rights



Surface Water

Pre - June 12, 1919 Process

- Notice of appropriation at the point of diversion

Public Water Code (1919)

- Application to Appropriate
- Certificate of Water Right (Proof of Appropriation)



Beneficial Uses

Basis, Measure and Limit to the use of water (A.R.S. § 45-141(B))

Beneficial uses are (A.R.S. § 45-151(A)):

- Domestic (which includes the watering of gardens and lawns not exceeding one-half acre)
- Municipal
- Irrigation
- Stockwatering
- Recreation
- Wildlife including fish
- Nonrecoverable water storage
- Mining



Court Decreed Rights

Judicially determined in state or federal court

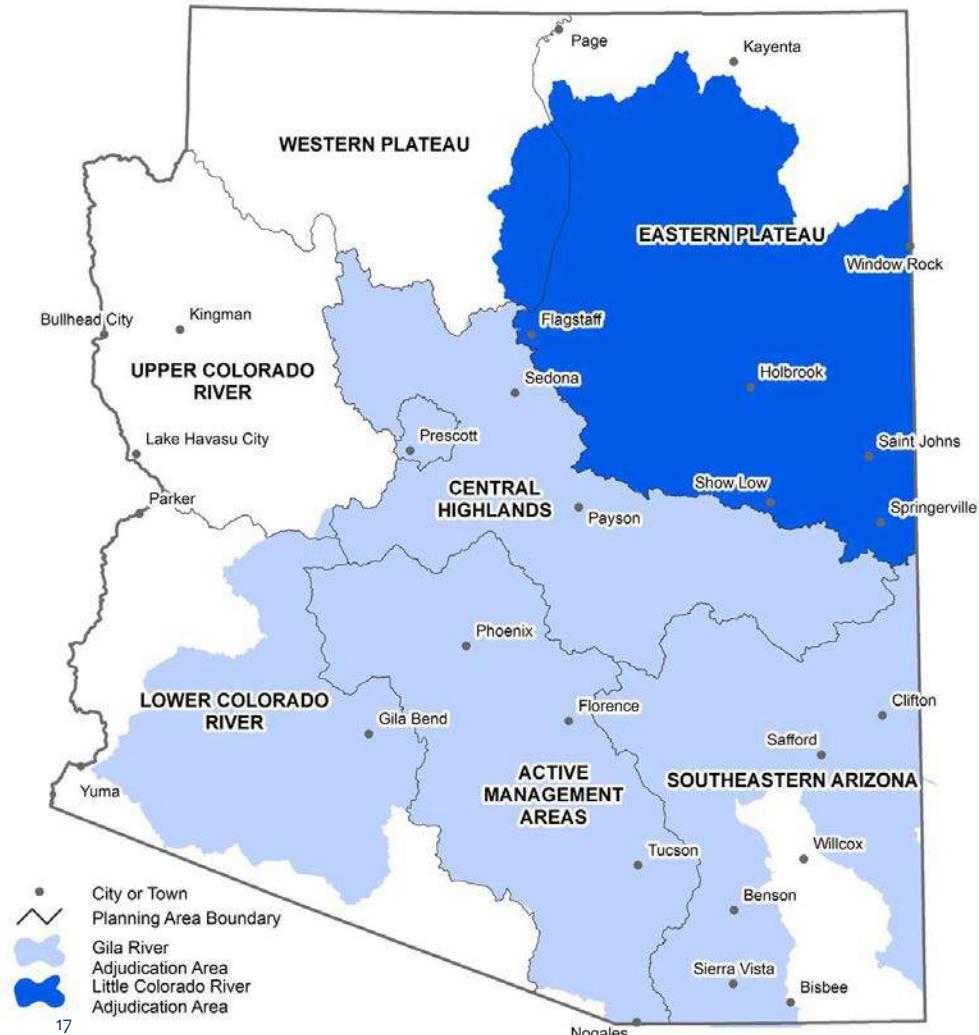
- **Major decrees:**
 - The Kent Decree (Hurley v. Abbott) (1910)
 - Benson v. Allison (1917)
 - Little Colorado River System contains one major decree known as the “Norviel Decree” (1914-1923)
 - Concho Decree (1927)
 - Globe Equity No. 59 (also known as the “Gila Decree” (June 29, 1935)



General Adjudications

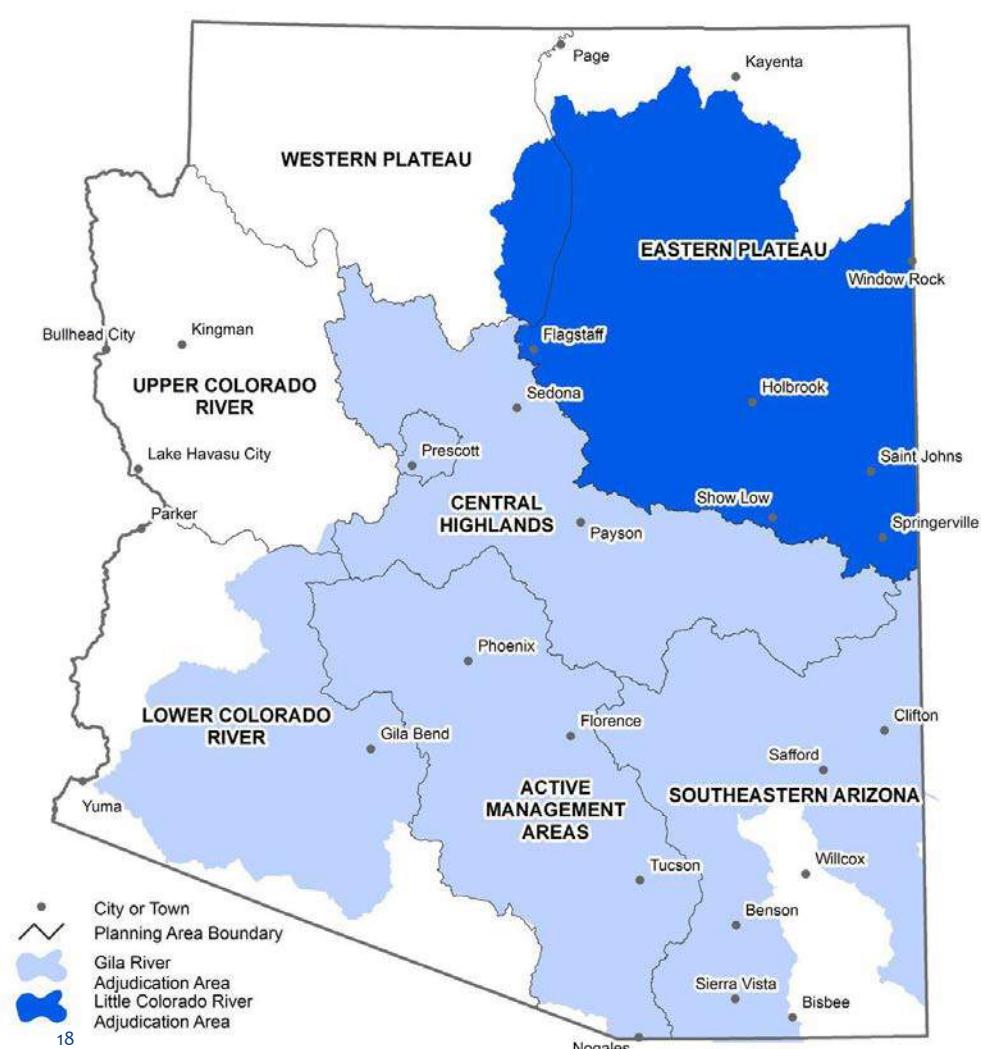
Judicial proceedings to determine the nature, extent, and relative priority of water rights (quantify and prioritize)

- ADWR provides technical and administrative support to the adjudication court
- Two general stream adjudications:
 - Gila River System and Source (Gila Adjudication)
 - Little Colorado River System and Source (LCR Adjudication)



Gila River Adjudication

- Initiated in 1974
- Over 53,000 Square Miles of Area (14% State, 19% Private, 67% Federal)
- 7 Watersheds
- 16 Indian Reservations
- 38,000 Claimants
- 83,000 Statement of Claimants (SOCs)
- 104,000 Claimed Uses
 - A claimant may file multiple SOCs



Gila River and Lower Colorado River Adjudications



New Use Summons

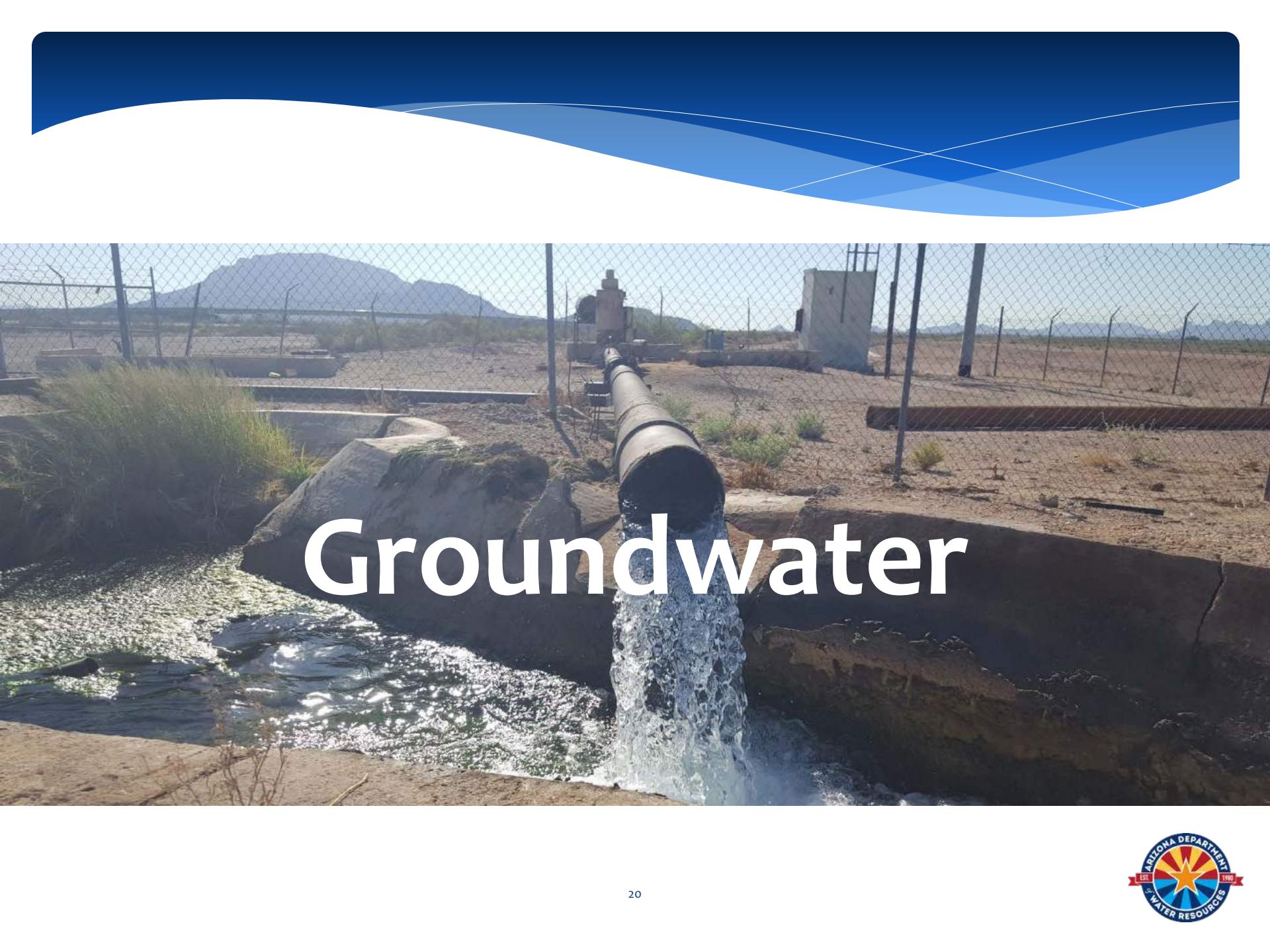
Arizona General Stream Adjudications



*New Use Summons and
Filing a Claim for your Water Rights*

- ADWR's records indicate the owner may have initiated a new use of water including:
 - Application for a surface water right
 - Approved NOI for a new well
 - Late well registration
- Directs owner to make any claims to water rights by filing the appropriate court-approved forms known as statement of claimant (SOC)
- No need to appear in court to file SOCs
- Information provided on filing fees, when and where to file, and impact of failing to file
- If you do not file an SOC, you may lose your water rights, and you may be prevented from claiming those rights later





Groundwater

Groundwater Management Act (1980)

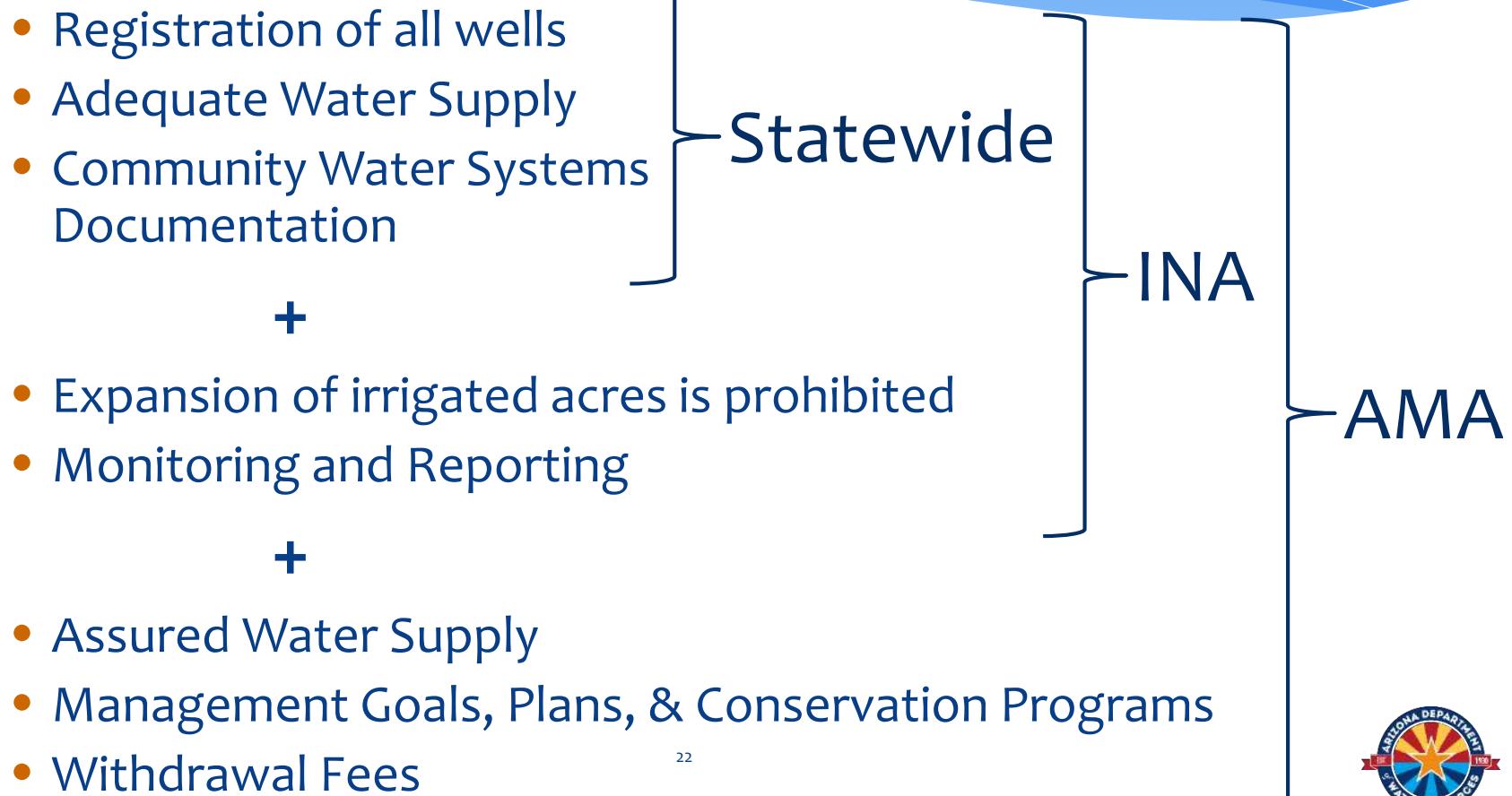
Created Arizona Department of Water Resources

- **Goals of the Act**
- Control severe groundwater depletion
- Provide the means for allocating Arizona's limited groundwater resources
- Improve Arizona's groundwater supplies through conservation and development of additional water supplies

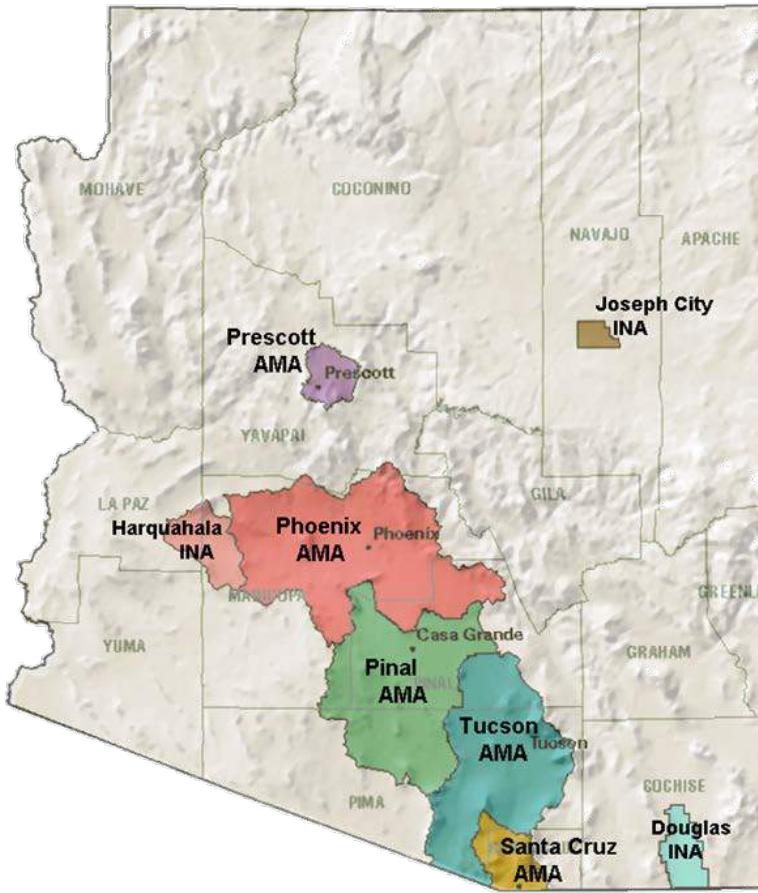
Former Arizona Governor and Interior Secretary Bruce Babbitt signing the GMA



Regulatory Structure



Active Management Areas (AMA) & Irrigation Non-Expansion Areas (INA)



Five AMAs

- Prescott AMA
- Phoenix AMA
- Pinal AMA
- Tucson AMA
- Santa Cruz AMA

Three INAs

- Joseph City INA
- Harquahala INA
- Douglas INA



Management Plans

A.R.S. § 45-563 (A)

“The director shall develop a management plan for each initial active management area for each of five management periods... and shall adopt the plans only after public hearings... The plans shall include a continuing mandatory conservation program... designed to achieve reductions in withdrawals of groundwater.”

Management Goals (A.R.S. § 45-562)

“The management goal of the Tucson, Phoenix, and Prescott active management areas is safe-yield by January 1, 2025...”

(A.R.S. § 45-562(A))

Safe-yield:

“A groundwater management goal which attempts to achieve and thereafter maintain a long-term balance between the annual amount of groundwater withdrawn in an active management area and the annual amount of natural and artificial recharge in the active management area.”

(A.R.S. § 45-561(12))





Arizona's Water Future

As Arizona transitions to a drier future, we must continue to promote a culture of conservation - one that enables the unbeatable quality of life and boundless opportunity we enjoy.

GOVERNOR DOUG DUCEY
Signs Arizona DCP Legislation (1.31.19)

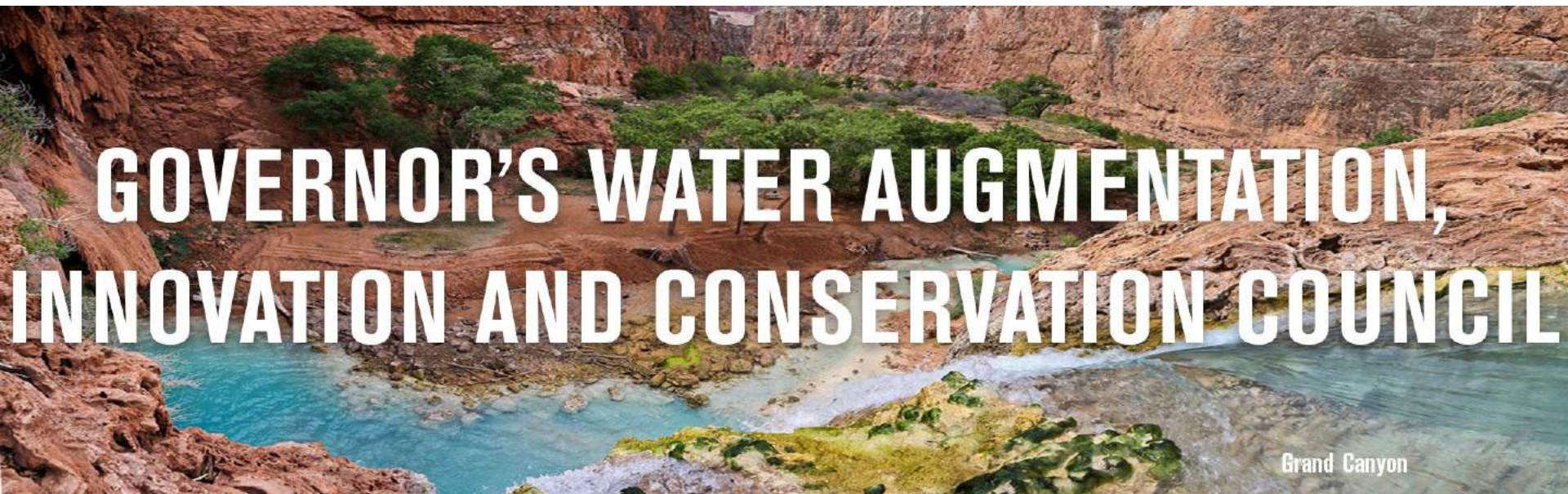


The Next Big Thing: Arizona Prepares For The Next Step In CO River Management Discussions

NEWS



MANAGEMENT PLANS WORK GROUP



GOVERNOR'S WATER AUGMENTATION, INNOVATION AND CONSERVATION COUNCIL

Grand Canyon



Governor's Water Initiative



- The GWAICC will continue to investigate long-term water augmentation strategies for the state
- Additionally the Council will investigate strategies for water innovation and conservation
- The Council will assess the long-term impacts of conservation projects funded by the newly funded Augmentation and Conservation Assistance Fund
- 38 members were appointed by the Governor, plus 4 legislators

GWAIICC Committees

Desalination

- **Goal:** Investigate desalination opportunities within the state, including potential locations for brackish groundwater desalination projects to augment the state's water supplies

Non-AMA Groundwater **NEW**

- **Goal:** Address groundwater issues in all areas of the state outside the AMAs (kickoff meeting July 23, 2019)

Long-Term Water Augmentation

- **Goal:** Investigate weather modification, watershed management, recharge, storage, and other types of augmentation (completing year-long study this summer)

AMAs Post 2025 **NEW**

- **Goal:** Discuss and define goals and direction for AMAs beyond the statutory 2025 Management Plans

Arizona Department of Water Resources

Protecting & Enhancing Arizona's Water Supplies For Current And Future Generations.

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THE NEXT BIG THING: ARIZONA PREPARES FOR THE NEXT STEP IN CO RIVER MANAGEMENT DISCUSSIONS

ARIZONA WATER NEWS

The Next Big Thing: Arizona Prepares For The Next Step In CO River Management Discussions

Breaking Free: Arizona Still Has A Long Way To Go To Bust Loose Of Drought, Long Term

Director Envisions A "Great Crusade" Ahead For CO River Community In Coming Negotiations

That's A Cap! ADWR Well-Capping Team Acts Fast To Cover Dangerous Open Wells

MORE NEWS

HOT TOPICS



Questions?

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PROTECTING
ARIZONA'S WATER SUPPLIES
for **CURRENT & FUTURE GENERATIONS**