

# Douglas AMA Management Plan Development

March 13, 2024



# Agenda

## 3/13: Information Session (1:00pm-2:30pm)

- I. Introduction and Meeting Logistics
- II. Management Plan Programs Background
  - I. Douglas AMA Recharge and Recovery
  - II. Funding- Presentation from WIFA
- III. Future Meetings
- IV. Closing Remarks

## Annual Withdrawal and Use Report Workshop – (3:00pm-6:00pm)

- I. Staff will be available for assisting the public in completing the Annual Withdrawal and Use Report process

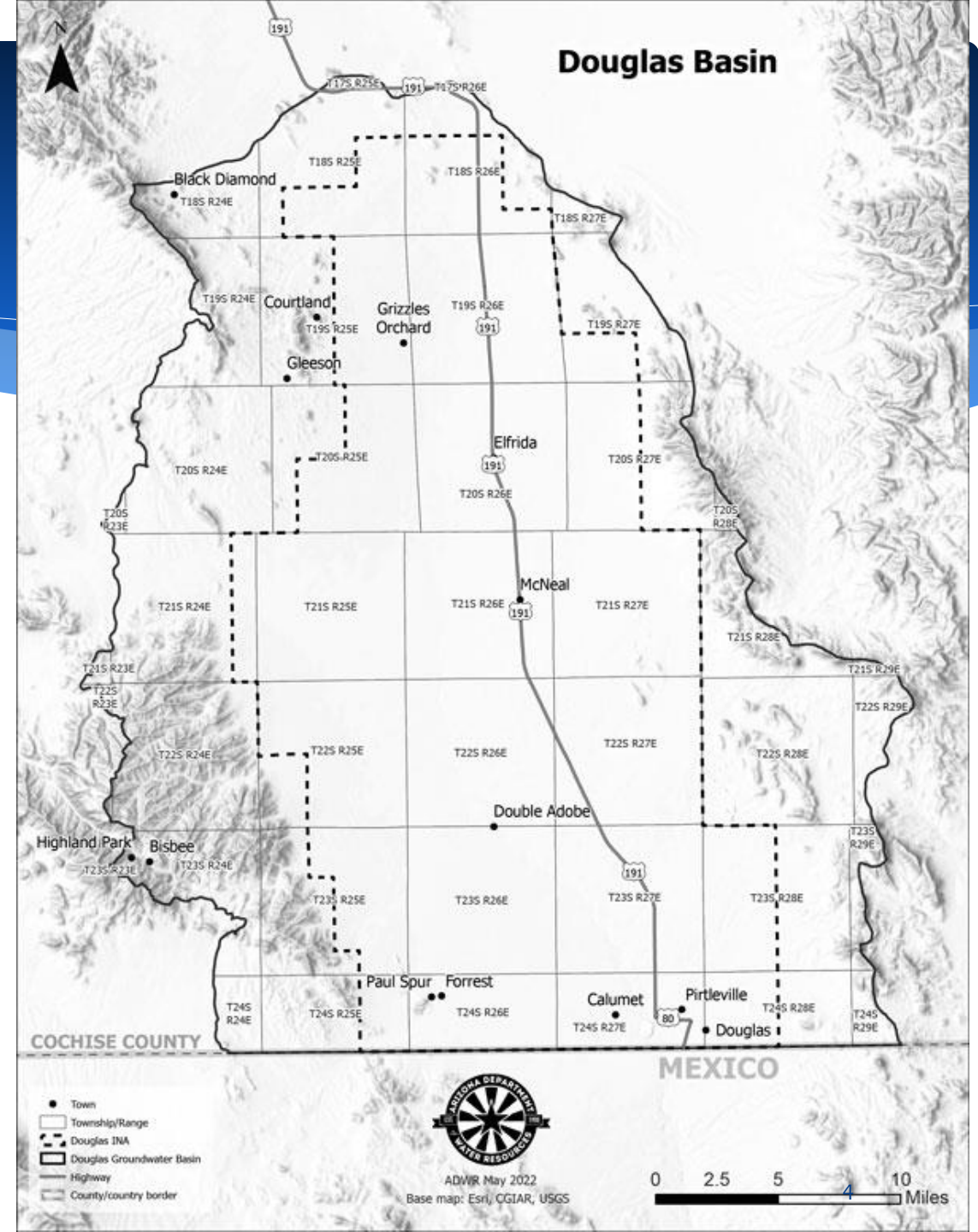
# Meeting Logistics

- \* Meetings are open to anyone who would like to participate.
- \* We are looking for ideas, feedback, and to learn from participants' expertise.
- \* We are expecting an open and collaborative process, including opportunity to challenge ideas in a transparent manner.



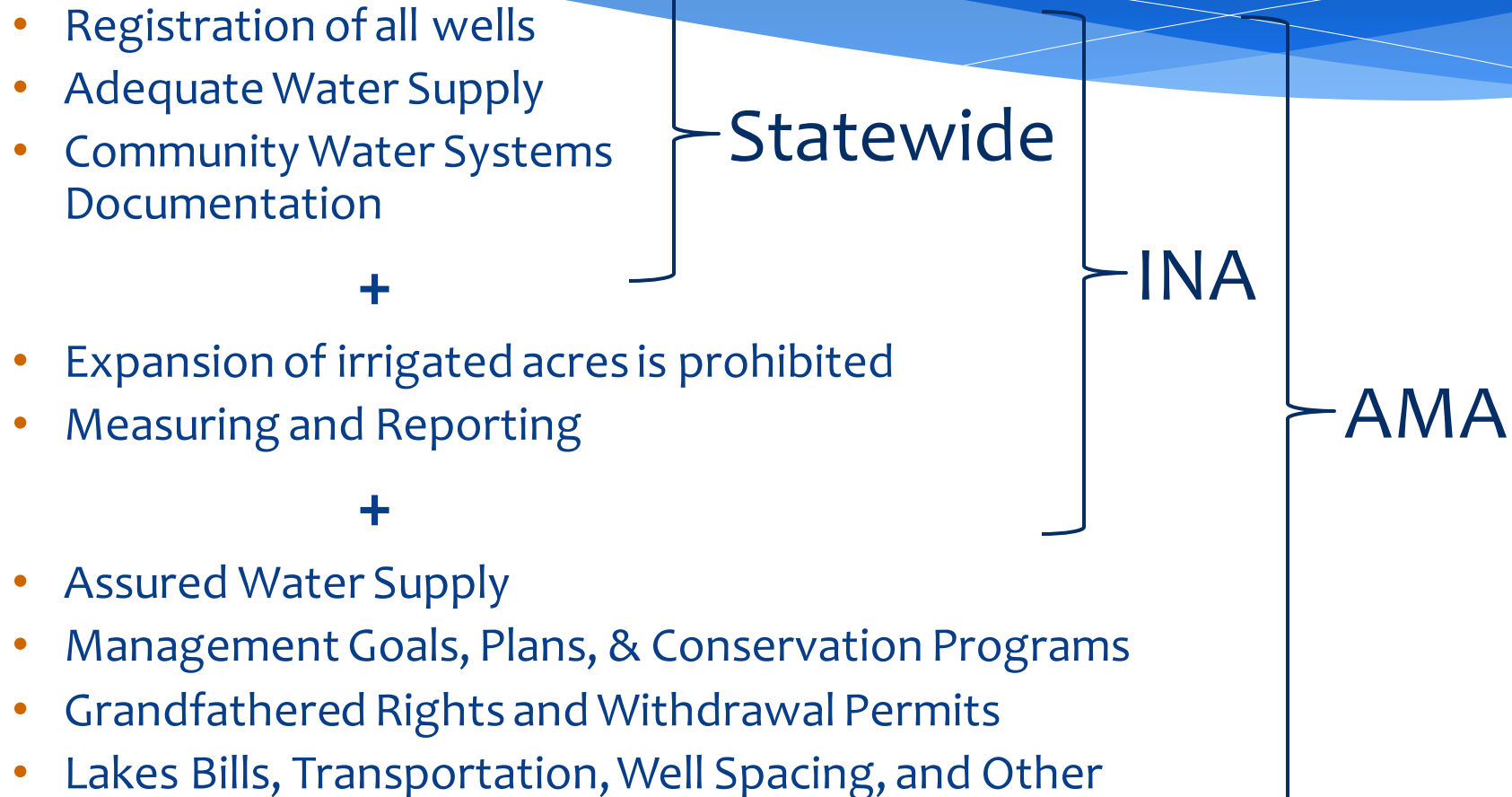
# Douglas Active Management Area

- First subsequent AMA, first to be established by local election
  - Est. December 1, 2022
- Located entirely in Cochise County
- A portion of the basin was previously an INA
- Cochise County – Mandatory Adequacy



# Management Plans – Background & Statutes

# Regulatory Structure



# Management Goals, Management Plans, & Conservation Programs

## 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.”*

The management plans for a subsequent AMA follow the statutes for the management plans for the initial AMA as close as practical.



# Management Plans

A.R.S. § 45-569 (B)

“Not later than **two years** after the designation of a subsequent active management area, the director shall promulgate an initial management plan for the active management area...

**Douglas AMA Designation: December 1, 2022**

**Tentative Promulgation of Initial Management Plan: December 1, 2024**

**Tentative Effective Date for Conservation Requirements: January 1, 2027**



# Management Plans

## A.R.S. § 45-569 (B)

“Not later than two years after the designation of a subsequent active management area, the director shall promulgate an initial management plan for the active management area... If the director determines that active management is necessary to preserve the existing supply of groundwater for future needs... the director, in developing the plan or plans, shall include measures for reducing groundwater withdrawals which follow as closely as practicable the program set forth in sections 45-564 through 45-568...”

## Process & Principles

- \* Development
  - \* Series of public meetings to discuss and develop concepts for conservation programs & other plan details
- \* Initial Management Plan - Principles
  - \* “Reducing groundwater withdrawals”
  - \* Transitional plan
    - \* Works to educate on AMA requirements and processes
    - \* Introduces basic conservation requirements



# Tentative Management Plan Timeline Douglas AMA (Development)

**Public Meeting:  
Introduction, Overview  
& Timeline**

Sept 2023

**Public Meetings:  
Sector Workshops –  
Agriculture, Municipal,  
Industrial**

Nov 2023 – Jan 2024

**Public Meeting:  
Other topics –  
recharge, voluntary  
measures**

Mar 2024

**Additional Information  
published:  
Framework, policies**

Apr 2024

**Publish initial  
regulatory language  
for comment**

Apr 2024



# Tentative Management Plan Timeline Douglas AMA (Adoption)

**GUAC Meeting:  
Informal Draft Review  
& Comments, including  
GUAC**

**Aug 2024**

**Hearing Notice:  
Formal Comment  
Period Begins**

**Oct 2024**

**Public Hearing:  
Formal Comment  
Period Ends**

**Nov 2024**

**Adoption of First  
Management Plan**

**Dec 2024**

**Effective date for  
Conservation  
Requirements**

**Jan 2027**



# Questions?

managementplans@azwater.gov

Douglas AMA Information and Applications:

<https://www.azwater.gov/douglas-ama>

# Douglas AMA Management Plan Development: Recharge and Recovery



# Recharge and Recovery Program Overview

- \* Underground storage of Effluent or Surface Water
- \* Annually reporting storage to ADWR/Accounting/Earn Long Term Storage Credits
- \* Recovery of stored Effluent or Surface Water Long Term Storage Credits

# Types of Recharge Facilities

- \* Underground Storage Facilities (USFs)
  - \* Physically adding renewable water supplies to an aquifer, typically using structures such as basins, wells, etc.



# Types of Recharge Facilities

- \* Groundwater Savings Facilities (GSFs)
  - \* Direct use of renewable water supplies in-lieu of pumping groundwater; indirect recharge using agricultural lands



# Recovery of Stored Water-Long Term Storage Credits

- \* Must use permitted recovery wells
- \* Stored water retains the "legal character" when recovered- not considered groundwater
- \* Stored water may be recovered anywhere within AMA, regardless of where within the AMA it was stored

# Questions?

Email:

Recharge@azwater.gov

Phone:

602-771-8737

Website information: <http://www.azwater.gov/recharge-program-overview>



**WATER INFRASTRUCTURE**  
FINANCE AUTHORITY OF ARIZONA



# Water Infrastructure Finance Authority of Arizona (WIFA)

## Funding Overview

Douglas Active Management Area  
Meeting

**John Riggins**

Water Resources Advisor

[jriggins@azwifa.gov](mailto:jriggins@azwifa.gov)

[www.azwifa.gov](http://www.azwifa.gov)

# WIFA'S FUNDING OPPORTUNITIES



- **Clean Water SRF**  
Loans, technical assistance to political subdivisions for wastewater and stormwater projects
- **Drinking Water SRF**  
Loans, technical assistance to public water systems for drinking water infrastructure
- **Water Supply Development RF**  
Loans and technical assistance for water supply development outside of urban centers
- **Water Conservation Grant Fund**  
Grants to governmental and non-governmental organizations for projects that promote conservation and decrease water use
- **Long-Term Water Augmentation Fund**  
For projects that import water into Arizona and in-state augmentation projects

# FIVE-YEAR STRATEGIC FRAMEWORK

## AUGMENTATION

**100k-500k**

acre-feet in new  
supplies

**\$1 Billion**

or more invested



## CONSERVATION

**5 million**

acre-feet of water  
saved

**\$400 million**

invested in conservation



## RELIABILITY

**75**

additional communities  
served

**\$540 million**

new loans and grants



# RELIABILITY

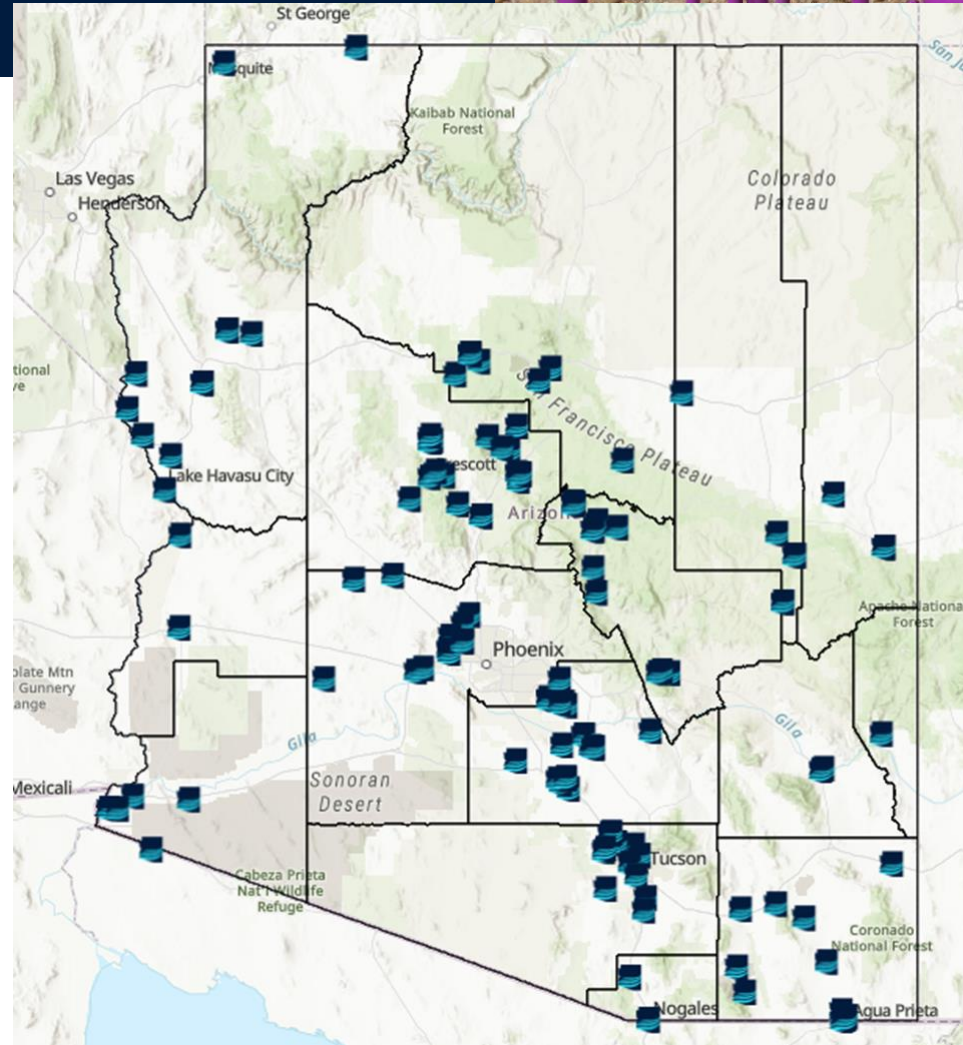


Nearly \$3 Billion  
In loans since 1989

\$150+ Million  
In forgivable principal since 2009

211 Borrowers  
Throughout all of Arizona's Counties

AAA Credit Rating  
With all major bond rating agencies



# CONSERVATION



**\$125 million**

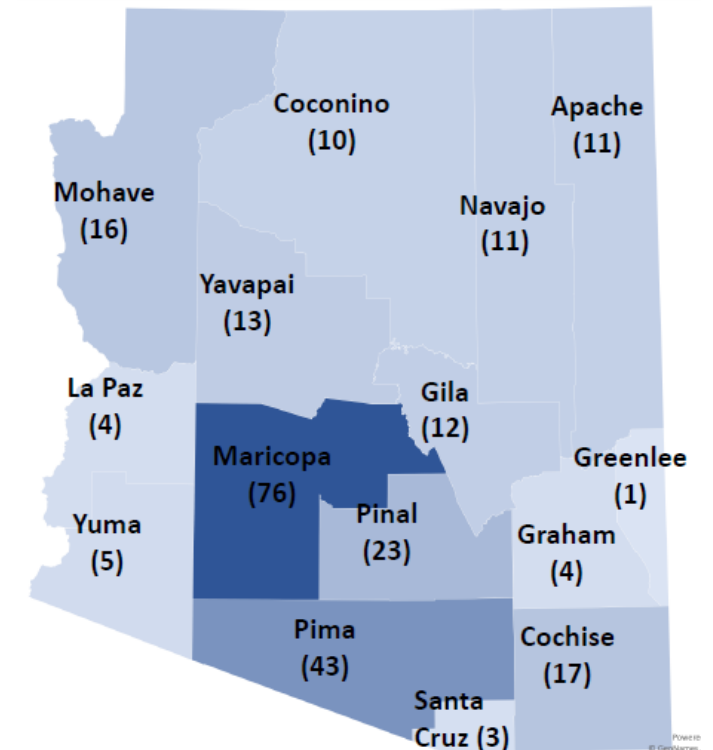
AWARDED FOR CONSERVATION  
GRANT FUND PROJECTS

**2.9 million-4.4 million**

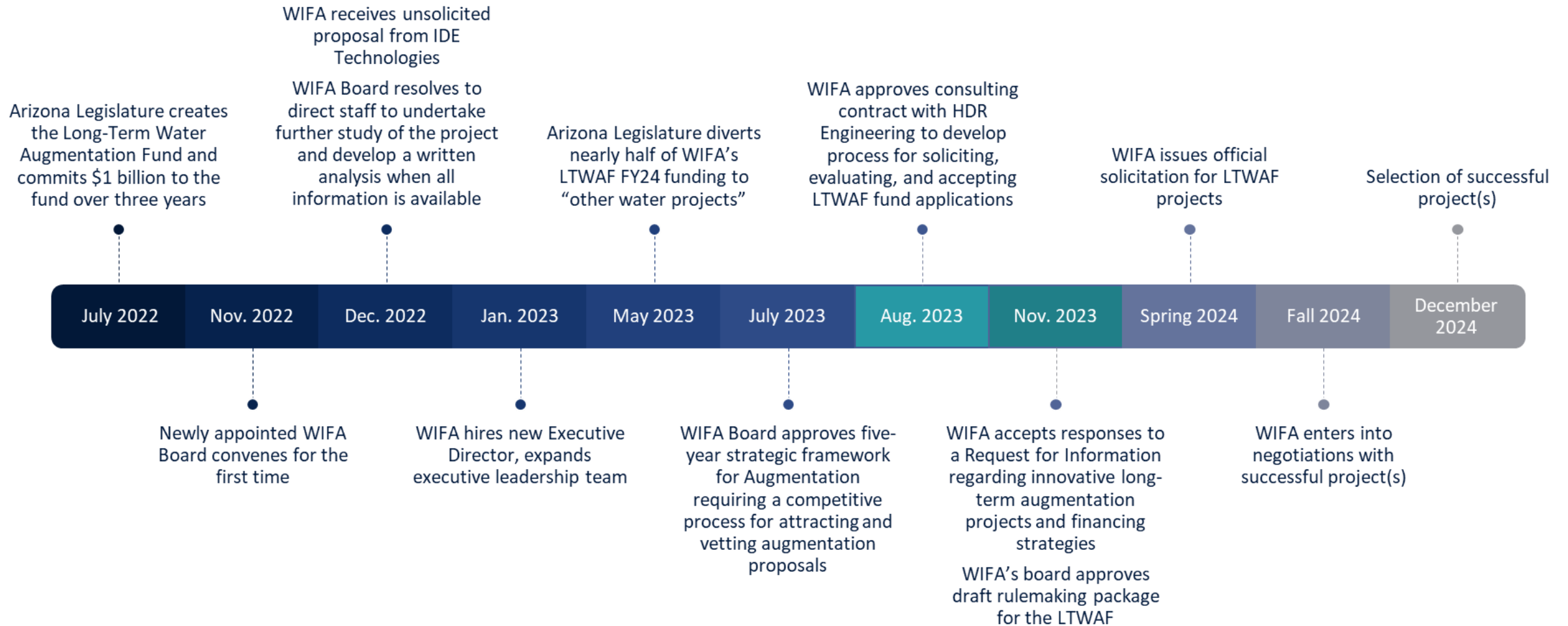
ACRE-FEET OF WATER  
TO BE SAVED

WCGF – December 2023

All Applications Received as of November 30, 2023  
(current as of December 6, 2023)



# AUGMENTATION





**WATER INFRASTRUCTURE**  
FINANCE AUTHORITY OF ARIZONA



# Thank you!

**John Riggins**  
**Water Resources Advisor**

**602-342-5109**  
**[jriggins@azwifa.gov](mailto:jriggins@azwifa.gov)**

Water Infrastructure Finance Authority  
[www.azwifa.gov](http://www.azwifa.gov)

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# Douglas AMA Annual Withdrawal and Use Report

March 13, 2024



# Annual Reporting Background

A.R.S. § 45-632

*“Each person who is required to file an annual report under this section... shall maintain current accurate records of the person's withdrawals, transportation, deliveries, and use of all water withdrawn from a well...”*



# AMA Annual Reporting

- \* For this year, use the 60-XXXXXX.XXXX authority number
  - \* If outside the previous INA boundaries, use the 79-XXXXXX.XXXX assignment number
- \* Online portal available at <https://www.azwater.gov/ama/online-annual-reporting>
- \* Paper copies are available for download on the website

# Well Worksheet

- \* Different Well Worksheets are available for specific types of readings
- \* Well Worksheet Calculator is available for download
- \* Totals need to be in Acre Feet

## WORKSHEET W-1 2023

DWR WELL REGISTRATION NO.	10 0	40 0	160 0	LOCATION Sec	Twp	Rng
TYPE OF MEASURING DEVICE	MAKE / MODEL					
SIZE	UNITS MEASURED					
INSTALLATION OR OVERHAUL DATE						
POWER CO. NAME	ACCOUNT NO.	POWER METER NO.				
ENERGY CONSUMPTION		UNITS				

### GROUNDWATER RIGHT/PERMIT/ BMP Farm Unit NO.

**4** DOES ENERGY METER SERVE USES OTHER THAN THE WELL PUMP?  Yes  No  
ENTER "Y" OR "N" IN COLUMN 5 OF SCHEDULE A

WATER TOTALIZING METER READINGS		
<b>5</b> INITIAL	<b>6</b> ENDING	<b>7</b> DIFFERENCE

IF METER WAS REPLACED DURING THE YEAR, INDICATE BEGINNING AND ENDING READING FOR EACH METER IN THE BOXES ABOVE.

<b>8</b> ACRE FEET	<b>9</b> BREAKDOWN ESTIMATE
--------------------	-----------------------------

Enter total Acre-feet  
 Shown in **10** in one of  
 Columns 5-9 of Schedule A

<b>10</b> TOTAL IN ACRE-FEET
------------------------------

Acre Feet Conversion Rates	
.01 Gallons	32,585,100
.1 Gallons	3,258,510
Gallons	325,851
10 Gallons	32585.1
100 Gallons	3258.51
1000 Gallons	325.851
Million Gallons	0.325851
Cubic Feet	43559.9
Acre Feet	1

# Schedule A

\* Schedule A is a total of quantity of water pumped from individual wells.

## SCHEDULE A

REPORT OF PUMPING

ANNUAL REPORT 2023

Owner

1 RIGHT/PERMIT/BMP Fa

Note: Pumpage for each well must be shown on the attached well worksheets.  
Information for up to four wells may be shown on each worksheet.

2 DWR WELL REGISTRATION NO.				3 SSP SUBZONE (Certain municipal and industrial wells in PINAL AMA only)			4 Depth to Static Water Level (Designated Providers Only)			5 RECOVERED WATER PUMPED				10 Total Water Pumped
10	40	160	LOCATION			Date # 1	Msmt # 1	Well Running ? (Y/N)	Ground-water Pumped	6 CAP	7 SW	8 EFF/ IN	9 EFF/ OUT	10 Total Water Pumped
Q	Q	Q	SEC	TWN	RNG									

# Schedule D

- \* Any amount of water delivered to another authority holder
- \* Need the amount, type, and other authority number

## SCHEDULE D

REPORT OF WATER DELIVERIES  
TO OTHER WATER RIGHTS

ANNUAL REPORT 2023

owner

1 RIGHT/PERMIT/BMP Farm Unit NO.

2 RIGHT NO. DELIVERED TO	4 DWR WELL NUMBER	5 CUSTOMER ACCOUNT NUMBER	6 FILING ON BEHALF	7 HOW MEASURED OR ESTIMATED	A ACRE-FEET DELIVERED BY TYPE OF WATER					TOTAL ACRE-FEET DELIVERED
					GW	CAP	EFF	SRP	Other SW	
3 TYPE OF RIGHT										

# Schedule E

- \* Any amount of water received from another authority holder
- \* Need the amount, type, and other authority number

## SCHEDULE E -- Non-Muni Users

ARIZONA DEPARTMENT OF WATER RESOURCES

If you are a municipal provider (56-xxxxxx.xxxx) do not use this form. Please use Schedule E-Municipal.

Owner

WATER RECEIVED FROM OTHER SOURCES

ANNUAL REPORT 2023

RIGHT/PERMIT/BMP Farm Unit NO.

PART I - Water Received or Diverted from Sources other than Irrigation Districts									
Right No. Supplying Water	Type of Right	Measurement Method	Acre-feet Received by Water Type						
			Water, other than stored water, withdrawn from a well	Water not withdrawn from a well	Direct Use Effluent	Other			Total Received
			DWR Well Number						

# Need Help?

Email: [EARP@azwater.gov](mailto:EARP@azwater.gov)

Phone: 602-771-8585

