

# Welcome

The meeting will begin shortly, in the meantime please,

- Keep your phone muted during the meeting.
- If you have a question/comment during the meeting type it in the chat box and it will be read and addressed during the Call to Public.
- During the Call to Public people will have the option to speak to the Council.
- If you experience any technical difficulties, please contact ADWR Help Desk at 602-771-8444 or [tickets@azwater.gov](mailto:tickets@azwater.gov)



# Tucson AMA GUAC

## September 13th, 2024



# Meeting Agenda

**1. Call to Order – Welcome & Introductions – Chair**

**2. Meeting Logistics – Nicholas Mason, ADWR**

**3. Elect GUAC Chair & Vice Chair – Council Members, Tucson GUAC**

**4. Arizona Water Banking Authority – Rebecca Bernat, AWBA**

Rebecca will present the AWBA 2025 Preliminary Plan of Operation

**5. Water Management Assistance Program Updates. – Melissa Sikes, ADWR**

Melissa will review withdrawal fee rates and money collected in past five years, current projects, and remaining balance

**6. WMAP Completed Projects**

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# 2025 Preliminary AWBA Plan of Operation

Rebecca Bernat, Ph.D., Manager



Groundwater Users Advisory Council | Tucson AMA  
Sept 13, 2024

# 2025 Preliminary Plan of Operation

## **Water Availability**

- BOR announced Tier 1 shortage for 2025
  - 512,000 AF reduction to AZ Colorado River entitlement
- Resultant reduction to CAP
  - Portion of non-Indian agricultural (NIA) pool

# 2025 Preliminary Plan of Operation

## Credit Development

- No Excess CAP water available to AWBA
- Goals achieved through other means
  - Intentionally Created Surplus (ICS) Firming Credits
  - Long-term Storage Credit (LTSC) purchases
    - Changes in pricing method due to tightening market

# Funding for 2025 Plan of Operation

Funding Source	Estimated Funds Available		Estimated Funds Utilized		Estimated Credits (AF)	
	AWBA	CAWCD	AWBA	CAWCD	Water Storage	Developed Credits
<b>Withdrawal Fees</b>						
Phoenix AMA <sup>1</sup>	\$1,676,210		\$1,676,210		0	5,327
Tucson AMA <sup>2</sup>	\$367,337		\$367,337		0	918
<b>Water Storage Tax</b>						
Phoenix AMA		\$0		\$0	0	0
Pinal AMA		\$0		\$0	0	0
Tucson AMA		\$0		\$0	0	0
<b>Total</b>	<b>\$2,043,547</b>		<b>\$2,043,547</b>		<b>0</b>	<b>6,245</b>

<sup>1</sup> Funds used to develop ICS Firing Credits at \$283.2/AF pursuant to AWBA's 2019 IGA with the Community. Developed credits include a 10% loss factor.

<sup>2</sup> The purchase rate of \$400 per LTSC neither accounts for the source of credit nor market fluctuation.

# Distribution of Credits

## Firming for 2025

- Tier 1 Shortage condition
- Tribal firming obligation for the Gila River Indian Community (Community): 6,102 AF

Firming Proposal for the Community - Tier 1 Shortage in 2025:

Year	Firming Credits Developed			Firming Credits Used (AF)		Remaining Balance (AF)
	Firming Credits Developed (AF)	Cost/AF	Total Cost	Through CY 2024	CY 2025 <sup>1</sup>	
2015	16,000	\$157.00	\$2,512,000	16,000	0	0
2016	12,000	\$161.00	\$1,932,000	11,174	826	0
2017	7,000	\$164.00	\$1,148,000	0	5,276	1,724
2018	9,000	\$160.00	\$1,440,000	0	0	9,000
<b>Total</b>	<b>44,000</b>		<b>\$7,032,000</b>	<b>27,174</b>	<b>6,102</b>	<b>10,724</b>

<sup>1</sup> Based on CAWCD's August 2024 estimates of 2025 water orders.

- No firming for CAP M&I or on-River (sub)contractors

**No request for Intentionally Created Unused Apportionment**

# Estimated Firming Volumes thru 2025

Objective and Location	Estimated Credits Available as of Dec 31, 2024 <sup>1</sup>	Estimated Credits Used in 2025	Estimated Credits Remaining as of Dec 31, 2025
	Acre-feet		
<b>CAP M&amp;I Firming (4-cent tax)</b>	<b>2,329,457</b>	<b>0</b>	<b>2,329,457</b>
Phoenix AMA	1,582,453	0	1,582,453
Pinal AMA	234,791	0	234,791
Tucson AMA	512,213	0	512,213
<b>On-River M&amp;I Firming (gen. fund)</b>	<b>403,830</b>	<b>0</b>	<b>403,830</b>
<b>Tribal Settlement Obligations:<sup>2</sup></b>	<b>161,262</b>	<b>6,102</b>	<b>155,160</b>
Community - 15,000 AFY	161,262	6,102	155,160
<i>LTSCs</i>	105,390	0	105,390
<i>Firming Credits</i>	16,826	6,102	10,724
<i>ICS Firming Credits</i>	39,046	0	39,046
WMAT - 3,750 AFY	0	0	0
Hualapai - 557.5 AFY	0	0	0
<b>Future Settlements- 4416.5 AFY<sup>3</sup></b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Federal Assistance (SAWRSA)</b>	<b>34,102</b>	<b>0</b>	<b>34,102</b>
<b>Groundwater Mgmt. (W/Fees)</b>	<b>777,591</b>	<b>0</b>	<b>777,591</b>
Phoenix AMA	228,878	12,350	216,528
Pinal AMA	444,757	-12,350	457,107
Tucson AMA	103,956	0	103,956
<b>Shortage Reparations</b>	<b>109,489</b>	<b>0</b>	<b>109,489</b>
<b>Pinal Redirect Credits</b>	<b>14,125</b>	<b>0</b>	<b>14,125</b>
<b>Interstate - SNWA</b>	<b>613,846</b>	<b>0</b>	<b>613,846</b>

<sup>1</sup> Includes all credits accrued and utilized through 2024

<sup>2</sup> The White Mountain Apache Tribe Water Rights Quantification Act enforceability date is December 30, 2027. The Hualapai Tribe settlement enforceability date is April 15, 2029.

<sup>3</sup> The AWBA understands that it is highly unlikely that additional NIA priority water would be included in future settlements. Therefore, the AWBA is assuming there will be no additional firming obligations of NIA priority water.

# Questions?

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

Website: <https://waterbank.az.gov/>



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# TUCSON ACTIVE MANAGEMENT AREA Groundwater Withdrawal Information

Year		2019	2020	2021	2022	2023	2024	2025
WMAP	Fee	-	\$0.25	\$0.25	\$0.50	\$0.50	\$0.50	Max \$2.00
	Collected	-	\$38,901	\$34,446	\$69,727	\$71,856	N/A	
Admin & Enforcement	Fee	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	Min. \$0.50 Max. \$1.00
	Collected	\$73,008	\$78,054	\$69,271	\$69,727	\$71,855	N/A	
Water Bank	Fee	\$2.50	\$2.50	\$2.50	\$2.50	\$2.50	\$2.50	\$2.50
	Collected	\$365,037	\$390,274	\$346,355	\$348,635	\$359,278	N/A	
Total	Fee	\$3.00	\$3.25	\$3.25	\$3.50	\$3.50	\$3.50	TBD
	Collected*	\$527,634	\$605,939	\$542,836	\$578,512	\$583,982	N/A	

\* in addition to AMWP, Admin & Enforcement and Water Bank, amount includes late fees, Recovery Wells fee, and Water Quality Fund

# **Water Management Assistance Program Fund Balance**

**Current Balance: \$139,921**

**Encumbered/committed: \$57,050**

**Remaining Balance: \$82,871**

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# Cortaro-Marana Irrigation District

Automated Gate  
Marana Road Canal



# Main Canal-Marana Road Split



# Flume Gate



# Funds Requested

Automatic Gate	\$28,720
Installation of Gate – CMID	\$ 324
Installation of SCADA	<u>\$ 1,048</u>
<b>Total</b>	<b>\$30,092</b>
CMID Contribution	
SCADA Equipment	<u>\$12,000</u>
<b>Grand Total</b>	<b>\$42,092</b>

# Savings

## Original Estimate

.3 CFS Leakage/Inaccurate Measurement

.6 Ac-ft Day for 7 months

126 ac-ft Savings/year

## Calculated Savings Used

.5 ac-ft/day if Flow under 7cfs

1 ac-ft/day if flow 7-15 cfs

1.5 ac-ft/day if flow is over 15 cfs

# Calculated Savings

Water Savings

Promised

Delivered

378 Ac-ft

758 Ac-ft

Energy Savings

184,497 KWH

# Problems Solved by New Gate

- Leakage through weir boards
- Variation in structure
- Variation in CAP Flow
- SCADA Controlled
- Travel Time to check Flow Rates
- Flood Water Routing

# Gate Location



# Currently Installed Automatic Gates



# Future Installations



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