Welcome

• Please keep your phone muted during the meeting.

• Type your question/comment in the chat box and it will be read and addressed at the end of each presentation.

• During the Call to public people will have the option to speak to the Council.

• With any technical difficulties please contact ADWR Help Desk at 602-771-8444 or tickets@azwater.gov
Meeting Agenda

1. **Call to Order - Chair**

2. Webinar Logistics – *Kennedy Shepard, ADWR*

3. AMA Director Report – *Kyle Miller, ADWR*
   - Kyle will provide an update on 2021 Annual Reports and agency activities.

4. Groundwater Withdrawal Fee Recommendation & WMAP
   a. Review withdrawal fee rates and money collected in past five years, WMAP projects, and remaining balance – *Melissa Sikes, ADWR*
   b. Discuss ways to invite potential WMAP projects - *Council*
   c. Discuss and recommend to ADWR Director groundwater withdrawal fee rates for reporting year 2022 – *Council*

5. Overdraft and Safe-Yield in the Santa Cruz AMA – *Amanda Long, ADWR*
   - Amanda will present on the status of safe-yield in the Santa Cruz AMA using the methods described in a recently published report assessing each AMA’s progress towards its management goal.

6. Statewide Planning Updates – *John Riggins, ADWR*
   - John will discuss upcoming supply and demand assessments and provide the council with an update on GWAICC activities and progress

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8. **Call to Public - Chair**

9. **Adjournment - Chair**
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### 2021 Annual Reporting

#### Total Reports Received by Filing Method – All AMAs

<table>
<thead>
<tr>
<th>SECTOR</th>
<th>FILED ONLINE</th>
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### Total Reports Received by Filing Method 2020

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### Total Reports Received by Filing Method 2021

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<tr>
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<td>TOTAL</td>
<td>89</td>
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</table>
5th Management Plan
5MP Adoption Timeline

1. Initial Draft Published
2. GUAC and Public Comments
3. Updated Draft Published
4. Public Hearing
5. Final Adoption

Tucson AMA
- Adopted May 2022

Prescott AMA
- Adopted June 2022

Pinal AMA
- Adopted July 2022

Phoenix AMA
- Hearing August 10, 2022

Santa Cruz AMA
- Hearing September 27, 2022

5MP Conservation Programs are expected to become effective January 1, 2025.

Conservation Program Requirements go into effect at least 2 years after a plan is adopted. ADWR shifts the actual effective date past the 2 year mark to line up with Reporting Years.
## Santa Cruz AMA 5MP Dates

<table>
<thead>
<tr>
<th>Milestone</th>
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<tr>
<td>Initial Draft Published</td>
<td>January 31, 2022</td>
</tr>
<tr>
<td>Presented to GUAC for Comment</td>
<td>March 10, 2022</td>
</tr>
<tr>
<td>Hearing</td>
<td>September 27, 2022</td>
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<tr>
<td>Adoption</td>
<td>TBD</td>
</tr>
<tr>
<td>Variance/Administrative Review Application Deadline</td>
<td>TBD</td>
</tr>
<tr>
<td>Conservation Requirements go into Effect <em>(tentative)</em></td>
<td>January 1, 2025</td>
</tr>
</tbody>
</table>
The 5MPs are the final management plans established by the Groundwater Management Act.

* 5MP conservation requirements become effective January 1, 2025
* The requirements in the 5MP remain in effect “until the legislature determines otherwise” (A.R.S. § 45-568(C))
Get hands-on assistance from our Wells team
* First virtual event 8/17 @ 10:00
* Will be held every other month
* permit-wells@azwater.gov
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Overdraft and Safe-Yield in the Santa Cruz AMA

Santa Cruz AMA GUAC Meeting
August 17, 2022
Amanda Long
AMA Planning Manger
Agenda

* Safe-Yield Discussions in the Management Plans
* Fifth Management Plans Work Group: Safe-Yield Technical Subgroup
  • Safe-Yield vs. Overdraft
  • Annual Overdraft Calculation
  • Long-Term Overdraft Calculation
  • Achieve & Maintain
  • Communication Strategy
* Overdraft Data Dashboard
* Status of Safe-Yield in the Santa Cruz AMA


SCAMA 5MP Chapter 2, available at: https://new.azwater.gov/sites/default/files/media/SCAMA5MPDraft_Jan2022_0.pdf
Management Goals
(A.R.S. § 45-562)

**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))

**Santa Cruz AMA:**
To maintain a safe-yield condition in the AMA and to prevent local water tables from experiencing long term declines

**Prescott, Phoenix, and Tucson AMAs:**
Safe-yield by the year 2025

**Pinal AMA:**
To allow development of non-irrigation uses and to preserve existing agricultural economies in the AMA for as long as feasible, consistent with the necessity to preserve future water supplies for non-irrigation uses.
Safe-Yield Discussions in the Management Plans

* Safe-yield and Management Goal discussions in the first to fourth management plans:
  * Not consistent
  * Past plans may have included:
    * Annual water budgets overtime
    * Potential for safe-yield under various projections and scenarios
    * Impediments to safe-yield
  * Often did not include the actual status of the goal

* Goal for 5MP:
  * Clear, consistent methodology for assessing safe-yield or the management goal in each AMA
  * A method to communicate the status of safe-yield to the public, regulated community, and water professionals
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.”

ADWR-led stakeholder forum for the development of the 5th Management Plans (2019-2021)

Goals:
* Assess existing conservation programs
* Update existing management strategies
* Develop new management strategies

Five Subgroups Created
* Agricultural
* Municipal
* Industrial
* Turf
* Safe-Yield Technical Subgroup
Safe-Yield vs. Overdraft
Safe-Yield

For the purpose of this presentation, groundwater is used interchangeably with “water, other than stored water, withdrawn from a well”, “underground water”, or some other variation of these phrases to mean water that is underground. However, due to the statutory recognition of the interconnected nature of underground water and surface water in the SCAMA and ongoing adjudications, the legal nature of water that is underground water has not yet been resolved.

What Safe-Yield is:

* Statutory definition with 3 parts:
  * Annual Calculation
  * Long-term Balance
  * Achieve & Maintain Balance
* AMA Level, all sectors play a role
* A groundwater-focused budget comprised of paper and wet water components
  * Legal groundwater vs. water that is under the ground
* Attempts to achieve

**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))

What Safe-Yield is Not:

* Not a set volume
* Not a measure of aquifer health
* Does not prevent groundwater withdrawals
* Does not solve cumulative overdraft
* Overdraft ≠ Safe-yield
  * Overdraft is one component of Safe-yield
Overdraft Calculation

- Quantitative water budget calculation comparing inflows to and outflows from the aquifer
- Annual or long-term timeframe
- Groundwater focused
- AMA-level
- One component of safe-yield

OVERDRAFT
Outflows from Aquifer > Inflows to Aquifer

BALANCE
Inflows to Aquifer ≥ Outflows from Aquifer
Safe-Yield

ACHIEVE AND MAINTAIN LONG-TERM BALANCE = SAFE-YIELD!

YEAR 1 + YEAR 2 + YEAR X = LONG-TERM

* Safe- Yield:
  * Quantitative and Qualitative
  * No overdraft in the long-term (long-term balance of inflows and outflows) & maintenance thereafter
  * Considers:
    * Annual inflows and outflows (Annual Overdraft Calculation, Quantitative)
    * Long-term trends of annual inflows and outflows (Long-Term Overdraft Calculation, Quantitative)
    * Other factors that may allow or prevent maintenance of a long-term balance (Qualitative)
Goals

1. Assess each component of annual overdraft and develop a consistent method to calculate annual overdraft (Annual Overdraft Calculation)
2. Develop a general and consistent approach to assessing overdraft in the long-term (Long-Term Overdraft Calculation)
3. Develop a communication strategy that considers qualitative and quantitative factors to provide status of the management goal in each AMA (Achieve & Therefore Maintain)

* Development dashboard and concept/proposal summaries:
https://new.azwater.gov/5MP/plans-concepts

Safe-yield:
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Safe-Yield Technical Subgroup
https://new.azwater.gov/5MP

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(A.R.S. § 45-561(12))
## Annual Calculation – Data Sources

### Annual Overdraft Calculation:

\[
\text{Inflows} - \text{Outflows} = \text{Overdraft} \\
\text{or} \\
\text{Inflows} - \text{Outflows} = \text{Balance}
\]

<table>
<thead>
<tr>
<th>Source</th>
<th>Inflows</th>
<th>Outflows</th>
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<tbody>
<tr>
<td>Natural</td>
<td><em>Groundwater Inflow</em></td>
<td><em>Groundwater Outflow</em></td>
</tr>
<tr>
<td></td>
<td><em>Streambed Recharge</em></td>
<td><em>Riparian Demand</em></td>
</tr>
<tr>
<td></td>
<td><em>Mountain-front Recharge</em></td>
<td></td>
</tr>
<tr>
<td>Artificial</td>
<td><em>Incidental Recharge:</em></td>
<td><em>Sector Demands:</em></td>
</tr>
<tr>
<td></td>
<td>Agricultural</td>
<td>Agricultural</td>
</tr>
<tr>
<td></td>
<td>Municipal</td>
<td>Municipal</td>
</tr>
<tr>
<td></td>
<td>Industrial</td>
<td>Industrial</td>
</tr>
<tr>
<td></td>
<td><em>Canal Seepage</em></td>
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<tr>
<td></td>
<td><em>Cut to the Aquifer</em></td>
<td><em>Remediated Groundwater</em></td>
</tr>
<tr>
<td></td>
<td><em>CAGRD Replenishment</em></td>
<td><em>Poor Quality Groundwater</em></td>
</tr>
</tbody>
</table>

Items highlighted in **blue** are outputs of ADWR’s regional groundwater models. Items highlighted in **gray** are compiled from AMA Annual Reports.
Overdraft Data Dashboard: Annual

Click on the columns and/or legend components to highlight specific data

YEAR
- 1985
- 2019

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

SECTOR
- Agricultural
- Artificial
- Industrial
- Municipal
- Natural

COMPONENT
- CAGR Replenishment
- Canal Seepage
- Cut to Aquifer
- Groundwater Demand
- Groundwater Inflow
- Groundwater Outflow

For more information, click here for the Safe-Yield Report

https://new.azwater.gov/ama/ama-data
Safe-Yield Technical Subgroup
https://new.azwater.gov/5MP

* Goals

1. Assess each component of annual overdraft and develop a consistent method to calculate annual overdraft *(Annual Overdraft Calculation)*

2. Develop a general and consistent approach to assessing overdraft in the long-term *(Long-Term Overdraft Calculation)*

3. Develop a communication strategy that considers qualitative and quantitative factors to provide status of the management goal in each AMA *(Achieve & Therefore Maintain)*

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https://new.azwater.gov/5MP/plans-concepts

**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))*
Long-Term Balance Calculation:
- 3 year rolling average of artificial components
- 20 year rolling average of natural components
Safe-Yield Technical Subgroup
https://new.azwater.gov/5MP

* Goals

1. Assess each component of annual overdraft and develop a consistent method to calculate annual overdraft (Annual Overdraft Calculation)
2. Develop a general and consistent approach to assessing overdraft in the long-term (Long-Term Overdraft Calculation)
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(A.R.S. § 45-561(12))
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))

Factors affecting achievement and maintenance of management goal
* Unique Hydrology
  * Hydraulic connection between aquifer and Santa Cruz river
  * Narrow and shallow nature of aquifers
* Ongoing general stream adjudications of surface water rights claims
* Binational Considerations
* Lack of imported supplies
Safe-Yield Technical Subgroup
https://new.azwater.gov/5MP

* Goals

1. Assess each component of annual overdraft and develop a consistent method to calculate annual overdraft (Annual Overdraft Calculation)

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(A.R.S. § 45-561(12))
Communication Strategy: General Public

OVERDRAFT DATA DASHBOARD: Status of Management Goal

**Overdraft**
An annual or long-term AMA-level condition where outflows from the aquifer are greater than inflows to the aquifer. Annual or long-term balance exists when there is no overdraft in an AMA.

**Safe-yield**
An AMA level condition where inflows and outflows are balanced and maintained in the long-term. Safe-yield is the management goal for the Prescott, Phoenix, and Tucson AMA. Safe-yield is also a portion of Santa Cruz management goal.

**Status of the Management Goal**
Management goal has not been met, however this status is more prone to rapid changes than other AMAs as it is significantly impacted by wet or dry conditions.

<table>
<thead>
<tr>
<th>AMA</th>
<th>Year of Management Goal Assessment:</th>
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<tbody>
<tr>
<td>Phoenix</td>
<td>2019</td>
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<tr>
<td>Pinal</td>
<td>2019</td>
</tr>
<tr>
<td>Prescott</td>
<td>2019</td>
</tr>
<tr>
<td>Santa Cruz</td>
<td>2019</td>
</tr>
<tr>
<td>Tucson</td>
<td>2019</td>
</tr>
</tbody>
</table>

https://new.azwater.gov/ama/ama-data
## Communication Strategy: Technical

### OVERDRAFT DATA DASHBOARD: Management Goal Assessment

<table>
<thead>
<tr>
<th>ANNUAL OVERDRAFT</th>
<th>LONG-TERM OVERDRAFT</th>
<th>LONG-TERM OVERDRAFT</th>
<th>OUTLOOK (4MP ONLY)</th>
<th>MANAGEMENT GOAL STATUS (4MP ONLY)</th>
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<tbody>
<tr>
<td>Annual</td>
<td>Status</td>
<td><img src="https://new.azwater.gov/ama/ama-data" alt="" /></td>
<td>By Percent of Groundwater Demand</td>
<td>Management goal has not been met, however this status is more prone to rapid changes than other AMAs as it is significantly impacted by wet or dry conditions.</td>
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</tbody>
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### Table

<table>
<thead>
<tr>
<th>AMA</th>
<th>Management Period</th>
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<tr>
<td>Phoenix</td>
<td>1MP (1985-1989)</td>
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<td>Pinal</td>
<td>2MP (1990-1999)</td>
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<tr>
<td>Prescott</td>
<td>3MP (2000-2009)</td>
</tr>
<tr>
<td>Santa Cruz</td>
<td>4MP (2010-Present)</td>
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<tr>
<td>Tucson</td>
<td><img src="https://new.azwater.gov/ama/ama-data" alt="" /></td>
</tr>
</tbody>
</table>

### Metric Definitions:

1. Hover over the white metric box and this symbol to see the definition of the metric.
2. See Section 7 of the Safe-Yield Report.

---

https://new.azwater.gov/ama/ama-data
## Communication Strategy: Technical

### OVERDRAFT DATA DASHBOARD: Management Goal Assessment

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<th>OUTLOOK (4MP ONLY)</th>
<th>MANAGEMENT GOAL STATUS (4MP ONLY)</th>
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</thead>
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<td><img src="x" alt="Annual" /></td>
<td><img src="x" alt="Status" /></td>
<td><strong>12K</strong> Single Year (AF)</td>
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<td><img src="%E2%96%A1" alt="Direction" /></td>
</tr>
<tr>
<td>Annual</td>
<td></td>
<td><strong>80.7%</strong> By Percent of Groundwater Demand</td>
<td><img src="%E2%80%A2" alt="Sensitivity to drought" /> <img src="%E2%80%A2" alt="Shallow basins" /> <img src="%E2%80%A2" alt="Ongoing adjudications" /> <img src="%E2%80%A2" alt="Binational considerations" /></td>
<td>Management goal has not been met, however this status is more prone to rapid changes than other AMAs as it is significantly impacted by wet or dry conditions.</td>
</tr>
<tr>
<td></td>
<td><img src="%E2%96%A1" alt="Direction" /></td>
<td><strong>80.1%</strong> By Percent of Total Demand</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### AMA
- *Phoenix*
- *Final*
- *Prescott*
- *Santa Cruz*
- *Tucson*

### Management Period
- 1MP (1985-1989)
- 2MP (1990-1999)
- 3MP (2000-2009)
- 4MP (2010-Present)

### Metric Definitions:
- Last Year of Long-Term Analysis: 2019

For the definition of the metric:
1. Hover over the white metric box and this symbol.
2. See Section 7 of the Safe-Yield Report.

[https://new.azwater.gov/ama/ama-data](https://new.azwater.gov/ama/ama-data)
Communication Strategy: Technical

OVERDRAFT DATA DASHBOARD: Management Goal Assessment

- **ANNUAL OVERDRAFT**
  - Status: Annual

- **LONG-TERM OVERDRAFT**
  - Direction: 
  - Status: 12K Single Year (AF)

- **DIRECTED OVERDRAFT**
  - Status: 80.7% By Percent of Groundwater Demand

- **OUTLOOK (4MP ONLY)**
  - Status: Sensitivity to drought
    - Shallow basins
    - Ongoing adjudications
    - Binational considerations

- **MANAGEMENT GOAL STATUS (4MP ONLY)**
  - Status: Management goal has not been met, however this status is more prone to rapid changes than other AMAs as it is significantly impacted by wet or dry conditions.

Long-Term Overdraft Calculation, Qualitative

https://new.azwater.gov/ama/ama-data
Communication Strategy: Technical

OVERDRAFT DATA DASHBOARD: Management Goal Assessment

**ANNUAL OVERDRAFT**
- **Status**: Annual
- **Direction**:

**LONG-TERM OVERDRAFT**
- **12K**: Single Year (AF)
- **80.7%**: By Percent of Groundwater Demand

**LONG-TERM OVERDRAFT**
- **80.1%**: By Percent of Total Demand

**OUTLOOK**
- (4MP ONLY)
  - Sensitivity to drought
  - Shallow basins
  - Ongoing adjudications
  - Binational considerations

**MANAGEMENT GOAL STATUS**
- (4MP ONLY)
  - Management goal has not been met, however this status is more prone to rapid changes than other AMAs as it is significantly impacted by wet or dry conditions.

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

**Management Period**
- 1MP (1985-1989)
- 2MP (1990-1999)
- 3MP (2000-2009)
- 4MP (2010-Present)

**METRIC DEFINITIONS:**
- For the definition of the metric:
  1. Hover over the white metric box and this symbol
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**Last Year of Long-Term Analysis**
- 2019

[https://new.azwater.gov/ama/ama-data](https://new.azwater.gov/ama/ama-data)
Factors affecting Achievement & Maintenance of Safe-Yield, Qualitative
Communication Strategy: Technical

OVERDRAFT DATA DASHBOARD: Management Goal Assessment

**ANNUAL OVERDRAFT**
- Status: X
- Annual

**LONG-TERM OVERDRAFT**
- Direction: □
- Status: X
- Single Year (AF)
- 12K
- By Percent of Groundwater Demand
- 80.7%

**LONG-TERM OVERDRAFT**
- Status: □
- Direction:
- By Percent of Total Demand
- 80.1%

**OUTLOOK**
- (4MP ONLY)
- Sensitivity to drought
- Shallow basins
- Ongoing adjudications
- Binational considerations

**MANAGEMENT GOAL STATUS**
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**Last Year of Long-Term Analysis**
- 2019

https://new.azwater.gov/ama/ama-data
Resources

5th Management Plans Workgroup
https://new.azwater.gov/5MP/plans-concepts

Overdraft Data Dashboard: https://new.azwater.gov/ama/ama-data

SCAMA 5MP Chapter 2,
available at:
https://new.azwater.gov/sites/default/files/media/SCAMA5MPDraft_Jan2022_0.pdf
Questions?

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AMA Planning Manager
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(602) 771-8420

Natalie Mast
AMA Director - Planning
nlmast@azwater.gov
(602) 771-4646
Meeting Agenda

1. Call to Order - Chair
2. Webinar Logistics – Kennedy Shepard, ADWR
3. AMA Director Report – Kyle Miller, ADWR
   Kyle will provide an update on 2021 Annual Reports and agency activities.
4. Groundwater Withdrawal Fee Recommendation & WMAP
   a. Review withdrawal fee rates and money collected in past five years, WMAP projects, and remaining balance – Melissa Sikes, ADWR
   b. Discuss ways to invite potential WMAP projects - Council
   c. Discuss and recommend to ADWR Director groundwater withdrawal fee rates for reporting year 2022 – Council
5. Overdraft and Safe-Yield in the Santa Cruz AMA – Amanda Long, ADWR
   Amanda will present on the status of safe-yield in the Santa Cruz AMA using the methods described in a recently published report assessing each AMA’s progress towards its management goal.
6. Statewide Planning Updates – John Riggins, ADWR
   John will discuss upcoming supply and demand assessments and provide the council with an update on GWAICC activities and progress
7. Call to Council – Council
8. Call to Public - Chair
9. Adjournment - Chair
Supply & Demand

John Riggins
Statewide Planning Manager
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)
“Challenges bring opportunity. This expansion of WIFA creates an opportunity for the state to secure its water future. I want to thank Governor Ducey, the Arizona Legislature and stakeholders for coming together to collaboratively come up with this important legislation.”

TOM BUSCHATZKE
DIRECTOR, ARIZONA DEPARTMENT OF WATER RESOURCES
A.R.S. § 45-105(B)(14)

“Not later than December 1, 2023 and on or before December 1 of each year thereafter, prepare and issue a water supply and demand assessment for at least six of the forty-six groundwater basins established pursuant to section 45-403. The director shall ensure that a water supply and demand assessment is completed for all groundwater basins at least once every five years...”
A.R.S. § 49-1304

“A. The authority shall determine the order and priority of water supply development projects proposed to be funded in whole or in part with monies from the long-term water augmentation fund, participation in projects to import water or allocation of imported water based on the following, as applicable:

...  

14. Existing, near-term and long-term water demands compared to the volume and reliability of existing water supplies of the beneficiaries of the funding or project. In evaluating this criterion, the authority shall consider information contained in any applicable water supply and demand assessment that has been issued by the director of water resources pursuant to section 45-105, subsection b, paragraph 14, in addition to any other information submitted to evaluate this criterion.”
Previous Assessments/Studies

Source: 2010 Supply and Demand Assessments
Statewide Water Use Estimates

Compiled AMA data is available at new.azwater.gov/ama/ama-data
Statewide Water Use information is available at www.arizonawaterfacts.com
Statewide Water Use Estimates
(2019)

CREATION OF ARIZONA DEPARTMENT OF WATER RESOURCES

$ BILLION


WATER USE (ACRE-FEET)

POPULATION

ARIZONA GROSS DOMESTIC INCOME

36% COLORADO RIVER

5% RECLAIMED WATER

22% MUNICIPAL USE

72% AGRICULTURAL USE

18% IN-STATE RIVERS

41% GROUNDWATER

6% INDUSTRIAL USE

http://www.arizonawaterfacts.com/water-your-facts
• Present – December 2022
  ▪ Hiring/Training Staff
  ▪ Developing initial datasets
  ▪ Developing initial assumptions
  ▪ Identify initial basins for analysis
• CY 2023
  ▪ Analyses for initial basins
  ▪ Reports due December 1, 2023 (and December 1 of each year thereafter)
Considerations for Scenarios & Assumptions

Supply

- Treatment of water types/categories
  - Source
  - Current Utilization
  - Additional Supply
- Definition of Imbalance
- Shortage Scenarios

Demand

- Treatment of Various Sectors/Water Uses
  - Data availability
  - Methods for estimates
- Impact of Conservation Programs and/or Curtailments
- Impact of Population Change
“In Arizona, we’re going to have to make tough policy choices about water management. We’ll have to make choices about which aspects of our lifestyle we can give up and which we will maintain.”

ADWR Director Tom Buschatzke
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