

5th Management Plans Work Group

December 16, 2020



Google Form Questionnaire

- Additional opportunity to provide input and feedback on items discussed in the meeting
- Questions are optional so you can choose what you'd like to provide input on
- Responses will be posted anonymously on our 5MP Concepts Webpage
- Please respond by 12/30/2020

Link to Google Form Questionnaire: <https://forms.gle/khx3PWfyZvj6nLAT6>



Agenda

- I. Welcome
- II. Timeline for the 5th Management Plans
- III. Subgroup Meetings Update and Next Steps
 - A. Municipal Subgroup
 - B. Industrial Subgroup
 - i. Turf Breakout
 - C. Agricultural Subgroup
 - D. Safe-Yield Technical Subgroup
- IV. Drafting the 5th Management Plans
 - A. Goals
 - B. Chapter Structure
 - C. Logistics & Timeline
- V. Closing Remarks



Timeline for the 5th Management Plans



Status and Timeline of 4th & 5th Management Plans

4MP

Phoenix
AMA
Adoption
2020

Pinal AMA
Adoption
2020

Santa Cruz
AMA
Adoption
2020

MPWG
2019-2021

Drafting Plans
2021-2022

Adopting
Plans
2022

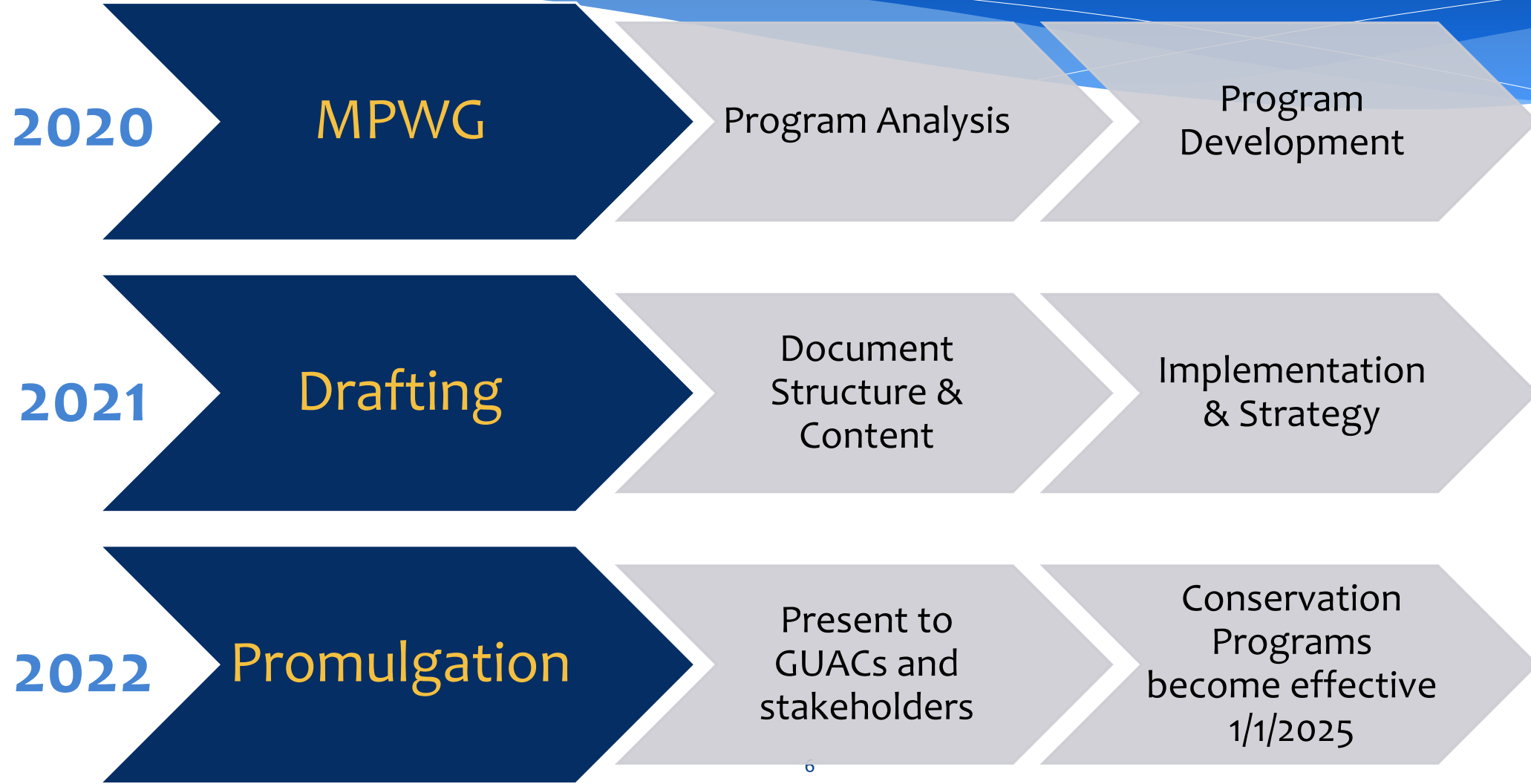
Plans Effective
2025

5MP



Estimated 5MP Timeline

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



Subgroup Meetings Update & Next Steps

MANAGEMENT PLANS WORK GROUP

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

Goals:

- * Assess existing conservation programs
- * Update existing management strategies
- * Develop new management strategies

Municipal Subgroup

Update from Past Meetings:

- * NPCCP
 - * Assessed each BMP & Revised BMP list based on feedback
 - * Developed & discussed tier dashboard
 - * AMWUA presented a proposal for structuring
 - * Discussed components of AMWUA proposal with other ideas/feedback to develop a consensus tiers and points structure proposal
- * GPCD
 - * Presented initial directions for the 5MP GPCD Program
 - * Goals:
 - * Increases conservation
 - * Sets realistic targets
 - * Streamlined/Understandable
 - * Adaptable to characteristics of providers

Next Steps for Future Meetings:

- * Continue discussing new Planning Category for the NPCCP
- * Continue developing GPCD Proposal
- * Consider updates to Alternative Conservation Program

Next Meeting:



2/10/2021



Industrial Subgroup

Update from Past Meetings:

- * Industrial Subgroup met once in September 2019
- * Recommended sub-sector level breakout groups

Next Steps for Future Meetings:

- * Suggestions to meet to discuss mining, cooling towers

Next Meetings:



TBD



Turf Breakout

Update from Past Meetings:

- * Described need for and goals for developing 5MP Turf Conservation Program for Golf Courses
- * Guest presentation from Dr. Paul Brown (University of Arizona Extension Specialist), providing updated ET/water use analysis
- * Introduced proposal for Golf Course Allotment Calculation
- * Introduced discussion of effluent adjustment, allotment additions, and flexibility accounts
- * Introduced potential update to the Non-Golf Turf Conservation Program

Next Steps for Future Meetings:

- * Continued discussion of
 - * Effluent adjustment, allotment additions, and flexibility accounts
 - * Proposal for Golf Course Allotment Calculation
 - * Proposal for Non-Golf Turf Allotment Calculations

Next Meeting:



02/24/2021



Agricultural Subgroup

Update from Past Meetings:

- * Compared the Base and BMP Conservation Programs
- * Discussed new concepts for 5MP Agricultural Conservation Programs including
 - * Modifications to the BMP Program
 - * Potential alternative conservation program, Integrated Farm Program (IFP)
- * Discussion of how multiple agricultural conservation programs (Base, IFP, BMP) could fit together in the 5MP structure
- * Presentation from Agricultural Collaborators Group
- * Introduced new BMP conservation program analysis
- * Introduction of the BMP Advisory Committee

Next Steps for Future Meetings:

- * Discuss additional BMP Conservation Program analysis
- * Continue discussion of new concepts for 5MP Agricultural Conservation Programs
- * Update from BMP Advisory Committee

Next Meetings:



1/27/2021

Agricultural Water Conservation BMP Advisory Committee

Executive Order 2020-55 provides for the continuation of the Agricultural Water Conservation Best Management Practices Advisory Committee as an advisory committee to the Director of ADWR

- Continues the Advisory Committee through the adoption of the final groundwater management plans
 - Requires an additional irrigation district representative
-
- * Chair: Pinal AMA farmer Scott Riggins
 - * December 9th Meeting covered the purpose and scope of the Agricultural Water Conservation BMP Advisory Committee, the history of the Agricultural BMP Conservation Program, and next steps for the committee.
 - * ADWR Public Meetings Calendar for future meetings: <https://new.azwater.gov/meetings>



Safe-Yield Technical Subgroup

Update from Past Meetings:

- * Discussed each component of the annual safe-yield calculation
- * Proposed method to look at safe-yield in the long-term
 - * Updated the [Overdraft Dashboard](#) to include long-term analysis methods
- * Proposed method of communication for safe-yield

Next Steps for Future Meetings:

- * Continue discussion of long-term analyses
- * Continue discussion of communication strategies for safe-yield

Next Meeting:



3/10/2021



Proposed Method of Communication – Safe-Yield Metrics

Safe- Yield Metric	Definition	1985–2015				
		AMA				
		Prescott	Phoenix	Pinal**	Tucson	Santa Cruz
Annual	Proportion of years in overdraft	✗	✗	✗	✗	✗
Long-Term Status	Overdraft status of the most recent year of long-term analysis	✗	✗	✗	✓	✗
Long-Term Direction	Direction of overdraft in the most recent 3 years of the long-term analysis	✗	✗	✓	✓	✓
Single Year Overdraft	Amount of overdraft in the most recent year of the long-term analysis	12,154	151,136	166,077	-721	9,488
% Overdraft (by Total Demand)	Single year overdraft, using the most recent year of the long-term analysis, as a percent of total water demand	35.8%	6.5%	15.3%	-0.2%	17.1%
% Overdraft (by Groundwater Demand)	Single year overdraft, using the most recent year of the long-term analysis, as a percent of groundwater demand	77.3%	16.2%	26.1%	-0.4%	56.3%
Outlook	Narrative about potential future issues that may impact the achievement or maintenance of safe-yield	*Absence of imported water supplies	*Shortage of Colorado River Water *Uncertainty re:surface water supplies *Difficulty achieving goal with existing tools	*Cuts to Agricultural Pool *Shortage of Colorado River Water	*Shortage of Colorado River Water	*Sensitivity to Drought *Shallow Basins *Adjudications *IOI Agreement
Long-Term Status	What does this all mean?	Not at Safe-Yield, unlikely to achieve with current practices	Not at Safe-Yield, unlikely to achieve with current practices	Safe-Yield is not the goal	Currently at or around Safe-Yield, unlikely to maintain in Colorado River shortage conditions	Not at Safe-Yield, status is significantly impacted by drought conditions

** Safe-yield is not the goal for the Pinal AMA



Drafting the 5th Management Plans

Goals for designing 5MP drafts

- * Simplicity
 - * Shorter – simplified chapters, less repetition
 - * More accessible
 - * Providing online interactive data & tools
- * Statutory Requirements
 - * Conservation programs designed to reduce withdrawals of groundwater
 - * Other required information & programs
- * Providing references to additional information
 - * Groundwater Models

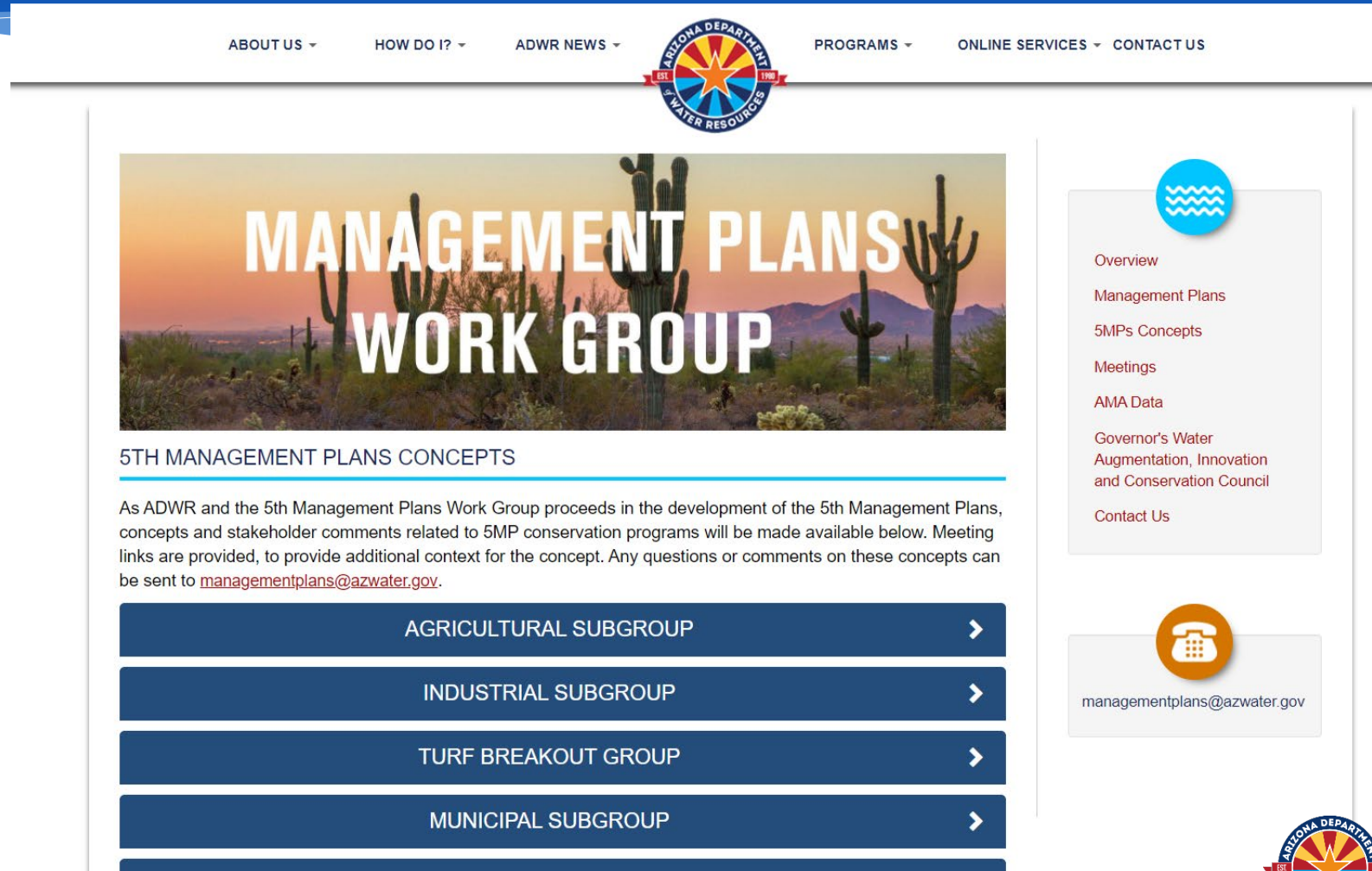
Potential 5MP Chapter Structure

Chapter	4MP Structure	5MP Structure
		Executive Summary
1	Introduction	Hydrology (Quantity & Quality)
2	Hydrology	Supply and Demand (AMA-wide, by Sector, including analysis of goals)
3	Water Demands & Supply	Recharge & Recovery
4	Agricultural	Agricultural
5	Municipal	Municipal
6	Industrial	Industrial
7	Water Quality	Implementation & Support
8	Underground Water Storage, Savings, and Replenishment	Strategy & Look Forward
9	Water Management Assistance	
10	Implementation	
11	TAMA/PrAMA: Projections PhxAMA/PAMA/SCAMA: Water Management Strategy	
12	TAMA/PrAMA: Water Management Strategy	

5MP Concepts Webpage

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

Central location for all 5MP concepts, proposals, tools



The screenshot shows the top navigation bar with links: ABOUT US, HOW DO I?, ADWR NEWS, PROGRAMS, ONLINE SERVICES, and CONTACT US. The Arizona Department of Water Resources logo is centered. The main content area features a large banner with the text 'MANAGEMENT PLANS WORK GROUP' over a desert landscape. Below the banner is the section '5TH MANAGEMENT PLANS CONCEPTS' with a blue underline. A paragraph of text explains the work group's purpose and provides the email managementplans@azwater.gov. Below this are four blue buttons with white text and right-pointing chevrons: 'AGRICULTURAL SUBGROUP', 'INDUSTRIAL SUBGROUP', 'TURF BREAKOUT GROUP', and 'MUNICIPAL SUBGROUP'. On the right side, there is a vertical menu with a blue wavy icon and links: Overview, Management Plans, 5MPs Concepts, Meetings, AMA Data, Governor's Water Augmentation, Innovation and Conservation Council, and Contact Us. Below the menu is a contact box with a phone icon and the email managementplans@azwater.gov. The Arizona Department of Water Resources logo is also present in the bottom right corner of the webpage.

Online Resources

- * AMA Supply & Demand Data (Dashboards & Datasets)
- * Projections
- * Low Water-Use Plant List
- * Supplement I
- * Annual Reporting

Logistics and Timeline

- * Focus
- * All 5 Management Plans will be drafted simultaneously
 - * A lot of overlap between chapters
- * Subgroup check-ins as respective chapters are developed
- * AMA Customization

	Year	Month	Topic
5MP Drafting	2020	December	Planning and prep. Requests to Hydrology, Recharge, AMAs & GUACs, Compliance, AWBA, and ADEQ
	2021	January	Supply/Demand/Safe-Yield (Publish draft Report?)
		February	Municipal
		March	
		April	Industrial
		May	
		June	Agricultural
		July	Possible MPWG update, outreach, GUACs
		August	Implementation/Compliance
		September	Introduction and Strategy/Needs/Closing
		October	Internal Review
		November	
		December	Present to GUACs

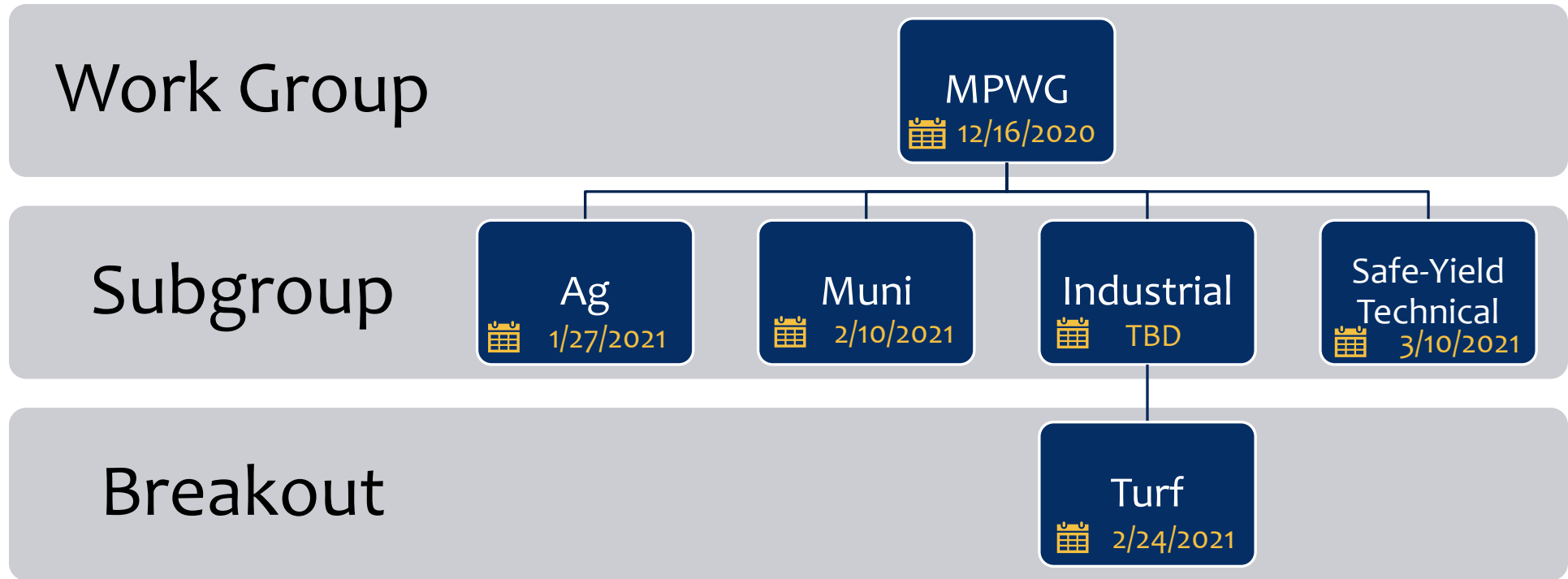


Closing



MPWG Subgroups

{All meeting info is available at new.azwater.gov/5MP }



Questions?

managementplans@azwater.gov

Management Plans Work Group:
new.azwater.gov/5MP

Full Text of Management Plans:
new.azwater.gov/ama/management-plans

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