

5th Management Plans Work Group Turf Breakout Meeting

August 17, 2021

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 8/31/2021

Link to Google Form Questionnaire: https://forms.gle/mybsfjE6Cq7wncCV6



Agenda

- I. Welcome
- II. Status and Timeline of 5th Management Plans
- III. Recap of Previous Meetings
- IV. Golf Conservation Program Updates
 - i. Updates to 5MP Golf Conservation Program Structure
 - ii. Outdoor Legacy Golf Course Revitalization Grant
- V. Discussion
- VI. Next Steps/Closing



Status and Timeline of 5th Management Plans



Estimated 5MP Timeline

new.azwater.gov/5MP

2020

MPWG

Program Analysis

Program Development

2021

Drafting

Document Structure & Content

Implementation & Strategy

2022

Promulgation

Present to GUACs and stakeholders

Conservation
Programs
become effective
1/1/2025



Recap from Previous Meetings

October 2019 - Present



5MP Turf Breakout - Progress

Update from Past Meetings:

- * Detailed existing turf conservation programs
- * Discussed goals for 5MP turf conservation program
- Proposed allotment calculation methods for golf courses and non-golf turf facilities
- Golf conservation program proposal packages

Today:

* Final Golf Conservation Program

Next Steps:

- * Submit final comments via questionnaire
 - * https://forms.gle/mybsfjE6Cq7wncCV6
 - Praft regulatory language will be made available

Next Meeting:



TBD



Summary of 5MP Turf Subgroup Meetings

Meeting Date	Meeting Topic
1. September 9, 2019	First Industrial Subgroup meeting, created Turf Subgroup
2. October 24, 2019	Turf conservation program overview, Goals for 5MP turf conservation program
3. January 23, 2020	Detailed overview of existing golf course conservation program, Potential changes for 5MP turf program
4. June 22, 2020	Guest prestation from U of A, Process for 5MP golf allotment method development, Proposed 5MP golf allotment method
5. August 4, 2020	Proposed 5MP golf allotment method, Effluent incentive, Allotment additions, Nongolf conservation program
6. December 3, 2020	Non-golf conservation program, 5MP non-golf allotment proposal
7. February 24, 2021	Golf conservation program proposal, Guest presentation from golf stakeholders, Allotment additions, Effluent incentive
8. April 28, 2021	Golf conservation program proposal, Presentation from Arizona Alliance for Golf
9. August 17, 2021	Final 5MP golf conservation program

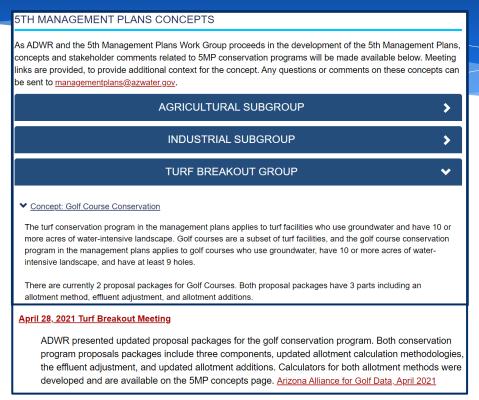
Summary of ADWR and Arizona Alliance for Golf Meetings

Meeting Date	Meeting Topics
 November 12, 2020 December 14, 2020 January 7, 2021 January 12, 2021 January 26, 2020 February 2, 2021 February 16, 2021 February 19, 2021 February 22, 2021 March 26, 2021 April 15, 2021 April 21, 2021 May 14, 2021 	 Management plan golf conservation program overview Clarification of golf conservation program requirements and which facilities are regulated Concerns expressed by the Arizona Alliance for Golf Data used for 5MP program development Counter proposals for allotment method
April 27, 2021	Arizona Alliance for Golf kick-off Meeting

5MP Resources

All meetings are recorded and posted: https://new.azwater.gov/5MP/meetings





5MP Concepts Page includes proposal summaries and applicable meetings, stakeholder comments, additional data:

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

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

APRIL PROPOSED 5MP TURF ALLOTMENT CALCULATOR FOR GOLF COURSES DRAFT							
Enter C	ourse Information In White Box	es Below	Proposed A	llotment Information			
Total T	urfed Acres]	Turf Catego	ry 1 (AF)			
Numbe	er of Holes]	Turf Catego	ry 2 (AF)***			
Water	Surface Acres]	Low Water	Use Acres (AF)			
Low W	ater Use Acres]	Water Surfa	ace Area (AF)**	0.00		
Year Co	ourse Built]	Total Propo	sed Allotment (AF)*	0.00		
AMA	FEBRUARY PROPOSED	5MP TU	JRF ALLOTI	MENT CALCULATO	R FOR GO	LF COL	JRSES ^{DRAFT}
	Enter Course Information I	n White B	oxes Below	Proposed Allotment	Informatio	n	
	Total Turfed Acres			Course Category			
Last Update	Number of Holes			Turf Category 1 (AF)			
	Water Surface Acres			Turf Category 2 (AF)			
	Low Water Use Acres			Turf Category 3 (AF) [§]			
	Year Course Built			Low Water Use Acres	(AF)		
	AMA	Choose	AMA	Water Surface Area (AF)**		
				Total Proposed Allot	ment (AF)*	0	.00

Proposed Program Updates



Goals

Increased conservation ("reductions in withdrawals of groundwater")

Improved simplicity & transparency
Improved data & realistic application rates
Improved administration, communication, & enforcement
Equity

Balanced – lighter impact on those who are already more efficient & not too severe on those who are less efficient



Allotment Design

Allows each course flexibility to manage allotment

Allotment Structure

- Calculation to set a total allotment for a facility
- * Total allotment is a water budget
 - * Facility can use water within their allotment, as they see fit
 - * Allows for management flexibility
 - * Flex accounts accommodates year to year variability

Allotment Variables

- * Acres of
 - * Total Turf
 - * Overseeded Turf
 - * Non-Overseeded turf
 - * Low water Use
 - * Water Surface
- * Application Rate and Assigned Efficiency



Management Plans Requirements

Applicability

- * The Management Plans have regulatory authority related to groundwater.
- * Facilities that use any amount of groundwater in a given year are subject to the conservation requirements in the plans.

Compliance

- * Compliance is calculated using the "Stacking" methodology, under which total water use is regulated for those using groundwater.
- * Compliance is calculated by "stacking" the groundwater on top of other uses.



Stacking Examples

Turf-Related Facility Conservation Allotment = 100 AF

No groundwater use in excess of allotment

Groundwater 20 AF

20 AF in excess of allotment

Groundwater 100 AF Groundwater 50 AF

Colorado River Water 50 AF Colorado River Water 110 AF Colorado River Water 110 AF 40 AF

Groundwater

Effluent 50 AF (50*0.6 = **30 AF**)

Colorado River Water 50 AF

Final Allotment Method

Phoenix AMA

PART 1: Allotment Method

Turf Category	Rate	Limit
Overseeded Turf	77.5% efficiency @ 6.035 AF/Ac	Up to 70 acres*
Non- Overseeded Turf	77.5% efficiency @ 4.36 AF/Ac	70 to 90 acres*
Additional Turf	NONE	NONE
LWU	o.74AF/Ac	Up to 1Ac/Hole

PART 1: Results

Aggregate Change from 4MP			
Courses Currently Using Groundwater	All Courses		
- 3.1%	- 1.3 %		
- 2,248	- 1,207 AF		

PART 2: Effluent Adjustment

* NO CHANGE from current adjustment

PART 3: Allotment Additions

- No change from February proposal
 - Update to low water use application rate
 - Newly turfed areas cannot increase previous total turfed acres



^{*}Acreages shown are for an 18-hole course and would be adjusted for courses with a different number of holes.

5MP TURF CONSERVATION PROGRAM FOR GOLF COURSES

Category	AMA	Rate	Limit	
	Prescott	5.43 AF/Ac		
	Phoenix			
Turf Category 1	Pinal	6.035 AF/Ac	70 acres*	
	Tucson	0.035 AF/AC		
	Santa Cruz			
	Prescott	3.76 AF/Ac		
	Phoenix			
Turf Category 2	Pinal	4 36 AEIAc	70 to 90 acres*	
	Tucson	4.36 AF/Ac		
	Santa Cruz			
	Prescott			
	Phoenix			
Turf Category 3	Pinal	Not Applicable	Not Applicable	
	Tucson			
	Santa Cruz			
	Prescott	5.5 AF/Ac	If built after 1984, 0.14 Acres/Hole	
Water Surface	Phoenix	6.2 AF/Ac	If built after 1989, 0.14 Acres/Hole	
Acres	Pinal	0.271771	If built after 1985, 0.14 Acres/Hole	
	Tucson	- 9 45/4 -	If built after 1991, 0.14 Acres/Hole	
	Santa Cruz	5.8 AF/Ac		
Low Water Use Acres	All	0.74 AF/Ac	1 Acre/Hole	

Turf Category 1: Overseeded acres

Turf Category 2: Non-overseeded acres

Turf Category 3: Acres in excess of 5 Acres/Hole or 90 Acres/18 Holes

Low Water Use Acres: Land that is watered by a permanent imigation system and planted primarily from ADNR's LWU plant list

Final Allotment Method –

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r	d		

5MP TURF ALLOTMENT CALCULATOR FOR GOLF COURSES DRAFT				
Enter Course Information In	White Boxes Below	Proposed Allotment Information		
Total Turfed Acres		Course Category		
Number of Holes		Turf Category 1 (AF)		
Water Surface Acres		Turf Category 2 (AF)		
Low Water Use Acres		Turf Category 3 (AF) [§]		
Year Course Built		Low Water Use Acres (AF)		
AMA	Choose AMA	Water Surface Area (AF)**		
		Total Proposed Allotment (AF)*	0.00	
		*Total Proposed Allotment does not account for a adjustments. **If water surface acres were added after a cert the course may not eligible for full water surface of Description for more information).	in year, depending on the AMA,	

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

*Acreages shown are for an 18-hole course and would be adjusted for courses with a different number of holes.



Effluent Adjustment – Part 2

No changes from 4MP

AMA	4MP	Proposed 5MP	5MP
Prescott	0.6	0.7	0.6
Phoenix	0.6	0.7	0.6
Pinal	0.7	0.7	0.7
Tucson	0.7	0.7	0.7
Santa Cruz	0.7	0.7	0.7

 One AF of effluent use would be counted as 0.6 or 0.7 AF of water use for the purpose of compliance



Allotment Additions- Part 3

Updated in 5MP

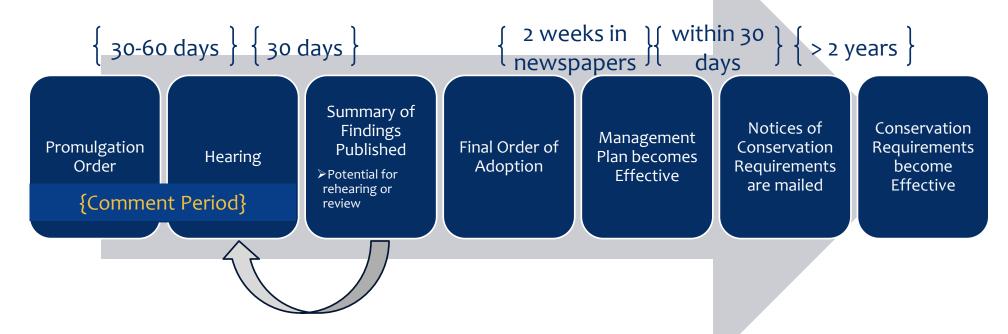
- * Revegetation
 - * updated application rate of 0.74 AF/Acre
 - * Limited to three years
- * Newly Turfed Area
 - * Single year, 1 AF/ac and no more than 5 AF/hole (PrAMA: 0.8 AF/ac and no more than 4 AF/hole)
 - * Only applies if total turfed area does not increase

Unchanged from 4MP

- * Filling or Refilling Bodies of Water
 - * Single year
- * Addition for Leaching
 - * Remains in effect as long as TDS remains high



Management Plan Promulgation





Administrative Review & Variance

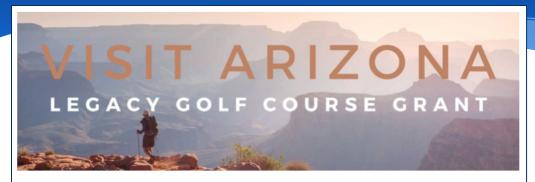
- * Application for a conservation requirement that differs from that established by the Management Plan conservation program
- * Can result in an adjustment to conservation requirement that lasts:
 - * Administrative Review: the length of the management plan
 - * Administrative Variance: Up to 5 years
- * Process:
 - * Application within 90 days of notice of conservation requirement
 - * Consideration of extraordinary circumstances which makes unreasonable to comply with conservation requirement



Visit Arizona Initiative: Legacy Golf Course Revitalization Grant

Legacy Golf Course Revitalization Grant

Source: Arizona Office of Tourism Website https://tourism.az.gov/grants/



Visit Arizona Legacy Golf Course Revitalization Grant

OVERVIEW

Nature of the Visit Arizona Legacy Golf Course Revitalization Grant: As the Arizona travel, tourism, and hospitality industries recover from the pandemic, the Legacy Golf Course Revitalization Program will provide assistance to older golf courses to modernize and become more sustainable. Golf driven tourism was tied to 2.4 million visitors and brought an estimated S2.2 billion to the Arizona economy in 2019, supporting 24,100 jobs. The effects of COVID were not uniform across the industry, priority will be given to courses that improve water conservation and sustainability.

Funding Source: American Rescue Plan (ARP) Funds, U.S. Department of the Treasury's Coronavirus State and Local Fiscal Recovery Funds, CFDA/Assistance Listing 21.027

 Funding provided by ARP is meant to aid the tourism, travel and hospitality industries in responding to the negative economic impacts of the pandemic.

Funding Total: Visit Arizona Legacy Golf Course Revitalization Grant Program - \$8 million

Funding Use

- Funds may be used to "respond to the public health emergency or its negative economic impacts, including... aid to impacted industries such as tourism, travel and hospitality." (31 CRF Part 35, pg. 7)
- For the purpose of the Visit Arizona Initiative, funding will be considered only to entities within the tourism, travel δ hospitality industry within Arizona, that meet the stated eligibility requirements and demonstrated need as outlined in the program guidelines.

Eligible Uses

- "Eligible uses that respond to the negative economic impacts of the public health emergency must be designed to address an economic harm resulting from or exacerbated by the public health emergency." (31 CRF Part 35, pg. 30)
- Grant responses must be related and reasonably proportionally to the extent and type of harm experienced. (31 CRF Part 35, pg. 31)

What's Needed to Apply:

Obtain or confirm your entity's valid <u>DUNS Number</u>
Provide proof of <u>SAM.Gov Account</u>. If your entity is not registered in SAM.Gov, please do so as soon as possible. Proof of SAM.Gov Account registration entity is not registration. We understand the SAM.Gov Account registration process will take time. SAM.Gov Account registration needs to be complete by the first reporting period.

- * Funding source: Federal American Rescue Plan
- * Non-competitive, offered on a rolling basis
- * \$15,000 per acre up to \$105,000
- * Guidelines, application, and check-list are available at:
 - * https://tourism.az.gov/visit-arizona-legacy-golfcourse-revitalization-grant/
- * Webinar detailing all Visit Arizona Initiative Grants:
 - * Presentation: https://tourism.az.gov/wp-content/uploads/2021/08/VAI-Presentation_Final.pdf
 - * Recorded Video: https://www.youtube.com/watch?v=G2LL8QZCVcA

Legacy Golf Course Revitalization Grant

Source: Arizona Office of Tourism Website

https://tourism.az.gov/grants/

* Grant Criteria:

- * 18-hole golf course
- * Over 90 acres
- * Built prior to 1986
- * Golf course infrastructure modernization projects that helps the course reduce its dependence on water resources
- * Include a project scope of work and budget that assesses the connection between the negative economic harm and the COVID-19 public health emergency, the nature and extent of that harm, and how the use of this funding would address such harm." (31 CFR Part 35, pg. 11)



Discussion



Closing Comments



Estimated 5MP Timeline

new.azwater.gov/5MP

2020: Development

- Work Group,
 Subgroups, &
 Stakeholder Outreach
- Data Analysis
- Develop <u>Concepts</u> to Increase Conservation
 - ➤ Update Existing Programs
 - ➤ Design New Programs

2021: Drafting

- Build out <u>Concepts</u> developed in previous phase
 - ➤ Regulatory Language
 - Feedback from GUACs/AMAs re: Customization & Implementation
- Draft Narrative & Background
- Develop Data Tools

2022: Adoption

- Publication of initial drafts
- Presentation to GUACs for recommendations
- Promulgation processes
 - ➤ Hearing & Public Comment
 - ➤ Findings & Adoption
 - Noticing of Conservation Requirements



5MP Turf Breakout - Progress

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Next Meeting:



TBD



Questions?

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

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

