



# Water Conservation Program FY17 2nd Qtr Update

## Resource Management Commission

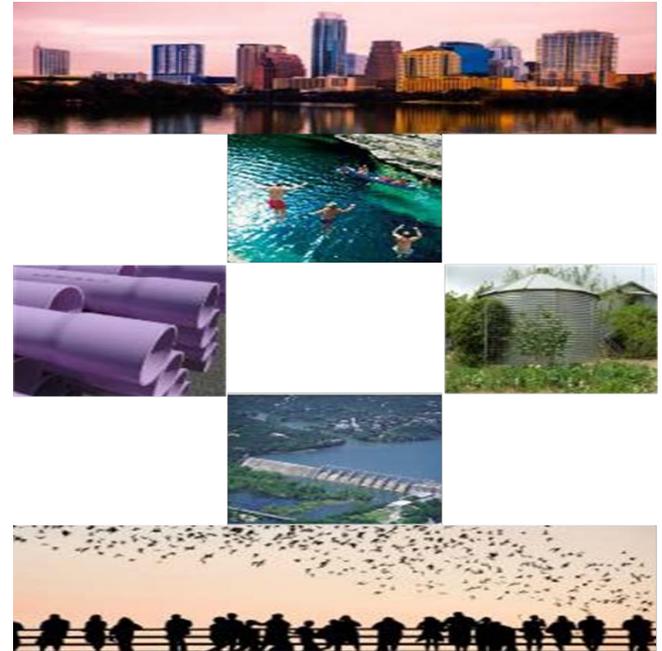
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# Overview

- Water Forward
- New Code Changes
- Dropcountr
- AMI



# Demand Management Scoring

Rank	Measure Name	Weighted Score
1	Landscape Transformation - Ordinances	21
2	Automated Metering Infrastructure (AMI)	19
3	Water Loss Control Utility Side	16
4	Landscape Transformation - Incentives	16
5	Irrigation Efficiency - Incentives	15
6	CII Ordinances - Cooling Towers and Steam Boilers	15
7	Alternative Water – Ordinances*	14
8	Development-focused Water Use Estimates/ Benchmarking - Plan Submittal	14
9	Alternative Water –Incentives*	13
10	Alternative Water Incentives – Graywater, Blackwater*	10

*\*Alternative water measures are being characterized separately with geospatial modeling*

# Screening Criteria

- **Savings** = Water Savings over 100 years  
(1 = low potential; 5 = significant potential)  
*Note: Water Savings given double weight in overall scoring*
- **Cost/Benefit** = Relative Expected Cost to Implement/Avoided Costs  
(1 = significant expense; 5 = minimal)
- **Implementation** = Relative Ease to Implement  
(1 = extremely difficult, many hurdles; 5 = easy, no additional staff or resources required)
- **Climate Resiliency** = Reliable water source, even during extreme drought  
(1 = subject to interruption in most years; 5 = reliable even during DOR and climate impacted theoretical DOR)

# Avoided Costs

- **Water Treatment Variable Cost** includes electrical and chemical treatment cost at water treatment plants
- **Wastewater Treatment Variable Cost** includes electrical and chemical costs at each treatment plant and lift station
- **Payment to LCRA** on the remainder amount under the 1999 water supply agreement when average use in two consecutive years is above 201,000 AF
- **New Water Supply Cost** will be determined after water supply options/costs are identified. Cost also includes transactional costs (permitting, contractual), conveyance and treatment/distribution costs.
- For some measures, additional **“Other”** avoided costs were identified from both the utility and customer perspective

## MARGINAL TREATMENT COSTS (\$/KGAL)

Water Treatment Variable Cost	\$0.46
Wastewater Treatment Variable Cost	\$0.26

# Estimated Water Savings

Measure Name	Yield Potential 2115
Landscape Transformation Ordinance	
Benchmarking	
AMI	
Water Loss Control – Utility	
Landscape Transformation Incentives	
Irrigation Efficiency Incentives	
CII Ordinance for Cooling Towers	

Relative Magnitude of Yield  
(Acre-Feet)

  
> 40,000

  
20,000 - 40,000

  
10,000 - 20,000

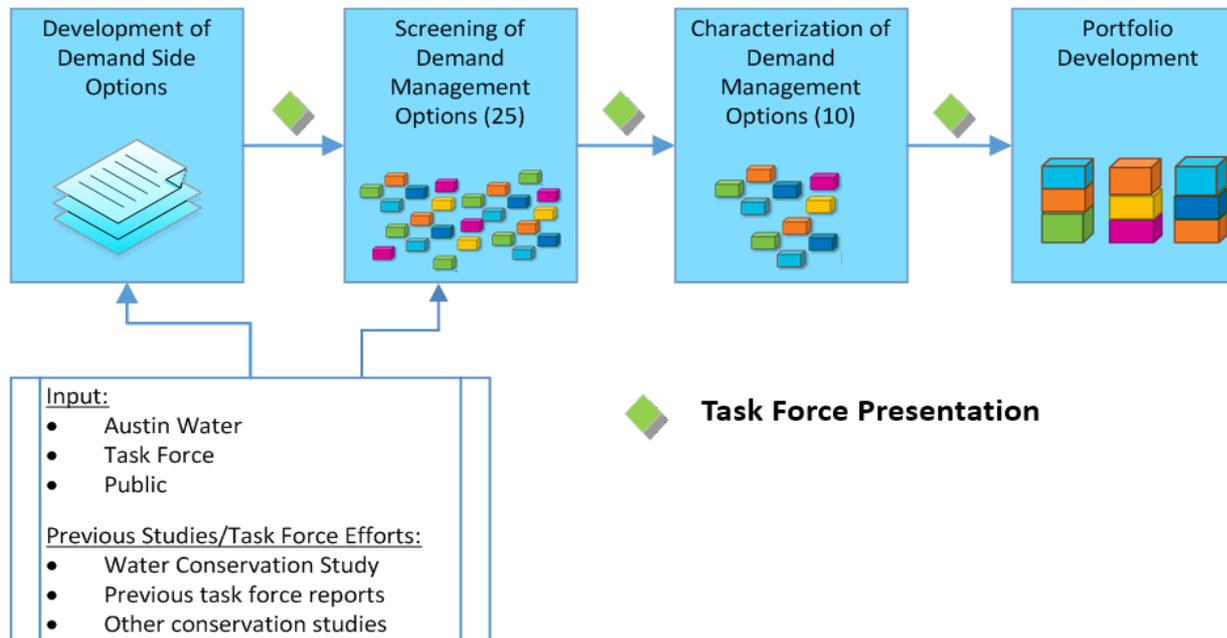
  
1,000 - 10,000

  
< 1,000

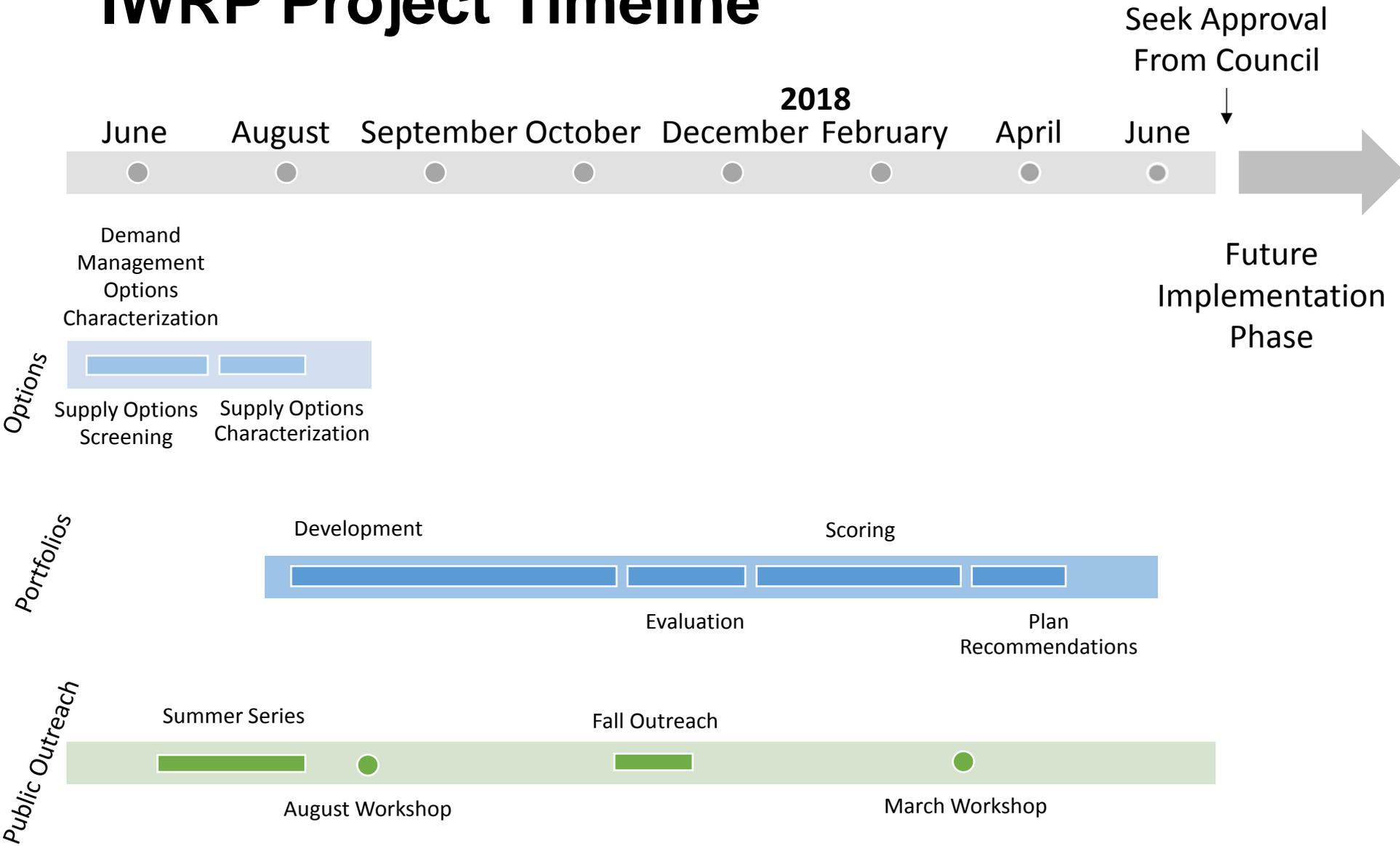
# Next Steps

- Detailed characterization information presented at July meeting
- Development of IWRP portfolios that combines conservation measures with water supply options consistent with the portfolio theme

## Demand Management Options Process

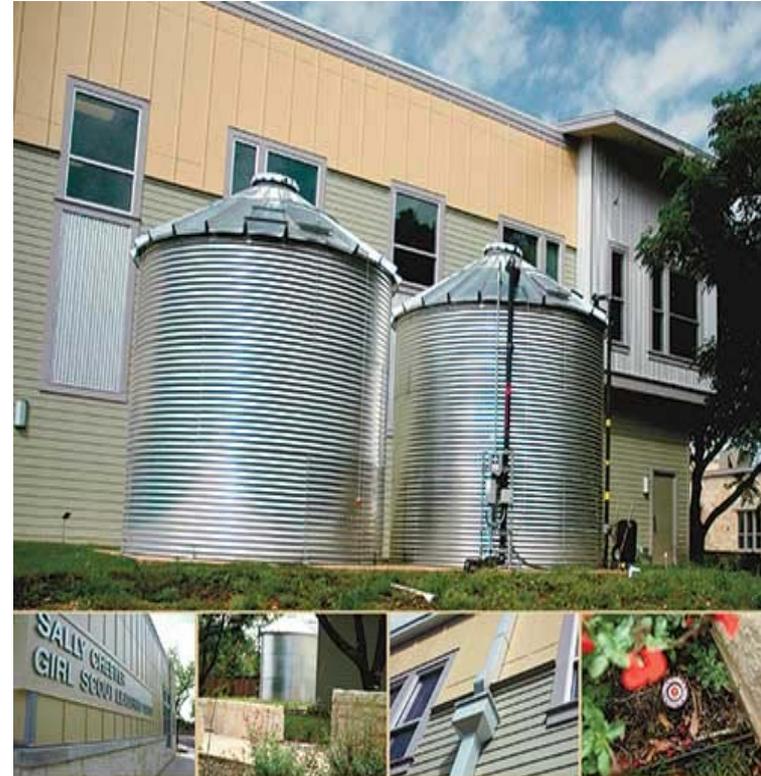


# IWRP Project Timeline



# Adoption of 2015 Uniform Plumbing and Mechanical Codes with Local Amendments

- A/C condensate recovery new development
- All cooling towers must meet efficiency standards, equipment and inspection and reporting requirements
- Steam boilers must have conductivity controllers



# Dropcountr

- Over 15,000 signed up
- 9% aggregate water savings; 17% savings among top quintile water users
- Over 41 million gallons saved in 1<sup>st</sup> year
- Increased customer engagement, “Conservation Conversation”
- Avoided \$250,000 in paper/postage costs
- Most prefer mobile app; would recommend to others
- Spanish language version now being offered



# What's Next

- AMI pilot study
  - Cost and technical feasibility study
  - Up to 180 smart meter participants with near real time water use data and leak alerts
- RFP for native mobile app reports for all residential customers
- Explore possibility of ICI/MF portals





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