



# Water Conservation Update

## Resource Management Commission

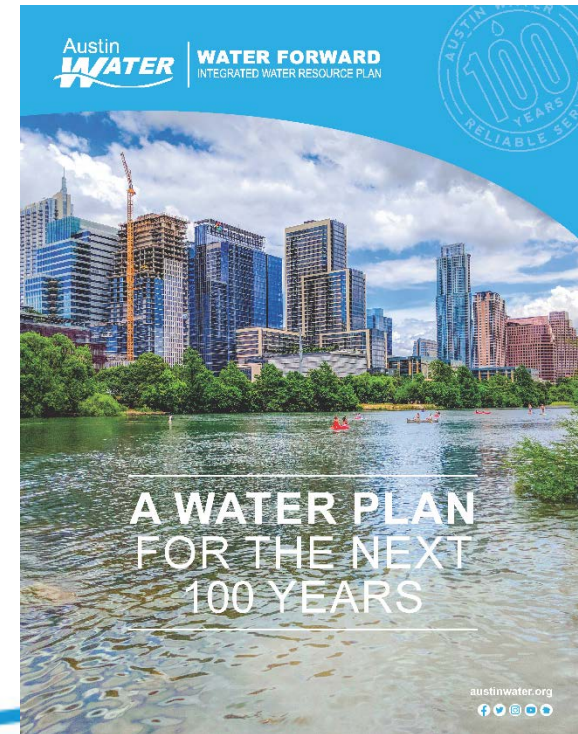
October 16, 2018

Mark Jordan

Environmental Conservation Program Manager

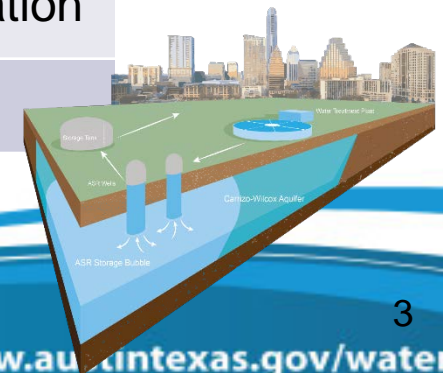
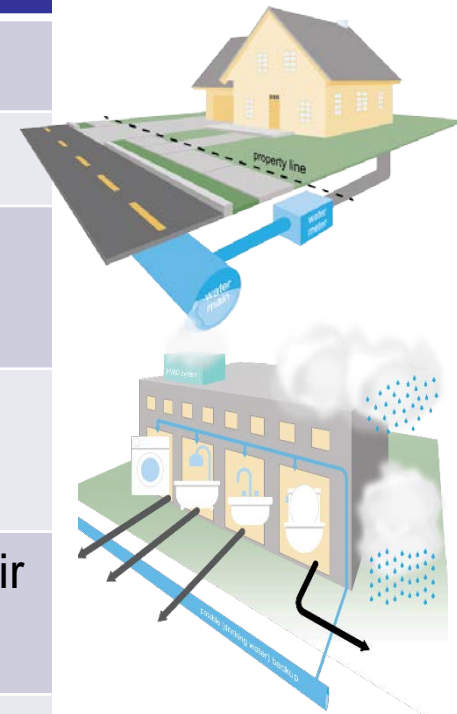
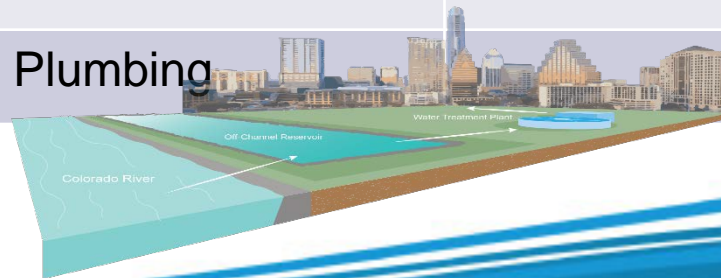
# Water Forward Update

- July- Oct: Briefing of boards and commissions
- Oct 9: Recommended for city council approval by Austin Integrated Water Resources Planning Community Task Force
- Planned city council briefings:
  - Oct 30
  - Nov 13
- Nov 15: Council Action



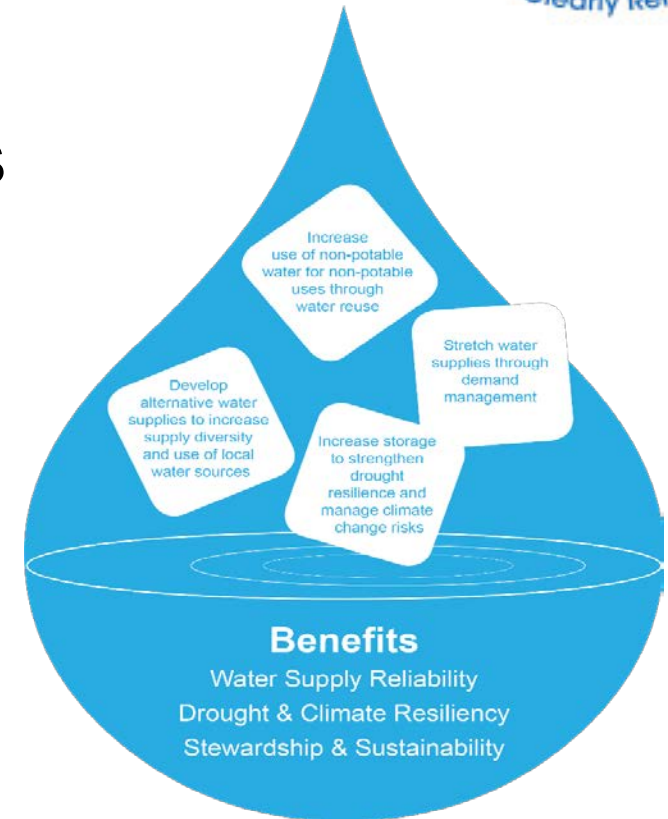
# Recommended strategies

Demand Management	Water Supply
AMI	ASR
Water Loss Control	Reclaimed Water
Landscape Transformation	Stormwater
Irrigation Efficiency	Indirect Reuse
Commercial/Industrial/ Institutional	Off-channel Reservoir
Alternative Water	Brackish Desalination
Dual Plumbing	

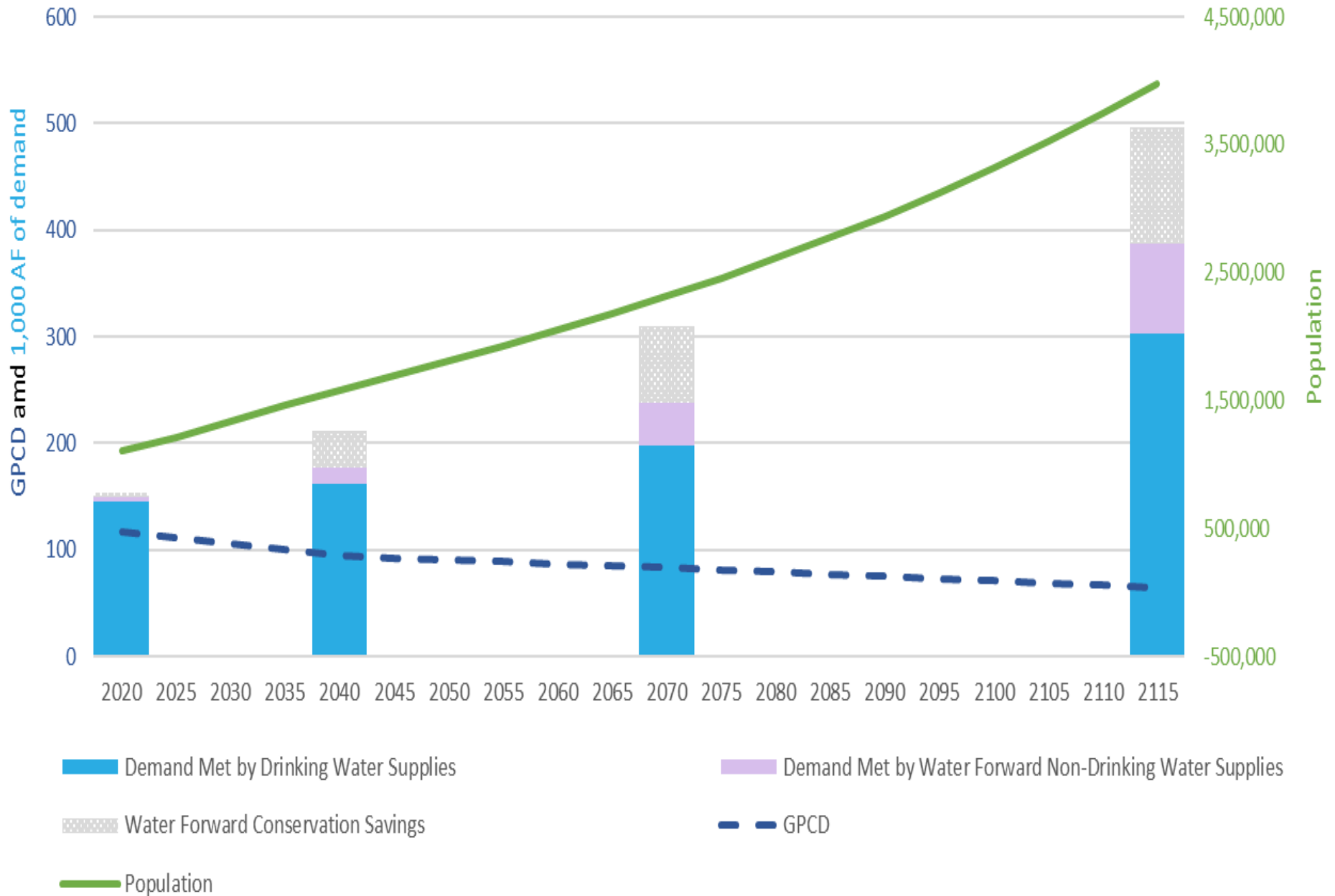


# Benefits

- Extends existing water supplies
- Enhances climate resiliency
- Reduces/delays treatment and distribution costs
- Reduces/delays new or expanded infrastructure
- Further postpones LCRA contract payment



# Population, Climate Change-Adjusted Demand, and Gallons per Person per Day (GPCD)



# What we heard

- Generally very supportive:
  - Accounts for climate change
  - Plans for drought resiliency
  - Integrates water conservation into water resources planning
  - Gives preference to local sources of supply
  - Takes the long view
  - Applies adaptive management approach



# What we heard (con't)

- Accelerate demand management strategies (e.g., dual plumbing, benchmarking)
- ASR feasibility pilot needs to address energy costs, regulatory uncertainty, stored water recovery and quality
- Lady Bird Lake water quality concerns from indirect reuse
- Off-channel reservoir costs and source water availability
- Include reallocation of COA steam electric water rights
- Would like to see more information about LCRA/COA water supply agreements and potential for additional supplies from Highland Lakes

# Short-term implementation

DM Measure	FY20	FY22	FY23	FY25	FY28	FY32
Benchmarking Phase I	X					
Dual Plumbing Phase I		X				
Alt. Water Ord. Phase I		X				
Landscape Incentive		X				
Irrigation Incentive		X				
Alt. Water Incentive			X			
Landscape Ordinance				X		
Dual Plumbing Phase II					X	
Alt. Water Ord. Phase II					X	
Benchmarking Phase II						X
Next IRWP Update			X			

# Implementation steps

- Establish cost benchmarks
- Refine strategy through stakeholder process
- Calculate estimated water savings/cost
- Perform cost/benefit analysis
- Apply cost benchmark to set rebate amounts
- Determine cost/benefit ratio
- Modify strategy/timeline if needed

# Update water conservation plan and monthly reports

- 140 GPCD by 2020 goal will need to be updated
- New goals will be in 5 year update submitted to TWDB/TCEQ by May 1, 2019
- RMC monthly report will reflect new goals and metrics



**WATER FORWARD**  
INTEGRATED WATER RESOURCE PLAN



**More information about Water Forward:**

[austintexas.gov/aiwrpctf](http://austintexas.gov/aiwrpctf)

[austintexas.gov/waterforward](http://austintexas.gov/waterforward)

**Final draft (version 5.0) of the Water Forward Report:**

[austintexas.gov/cityclerk/boards\\_commissions/meetings/132\\_1.htm](http://austintexas.gov/cityclerk/boards_commissions/meetings/132_1.htm)

**Possible City Council Discussion Dates:**

October 30, November 13, November 15

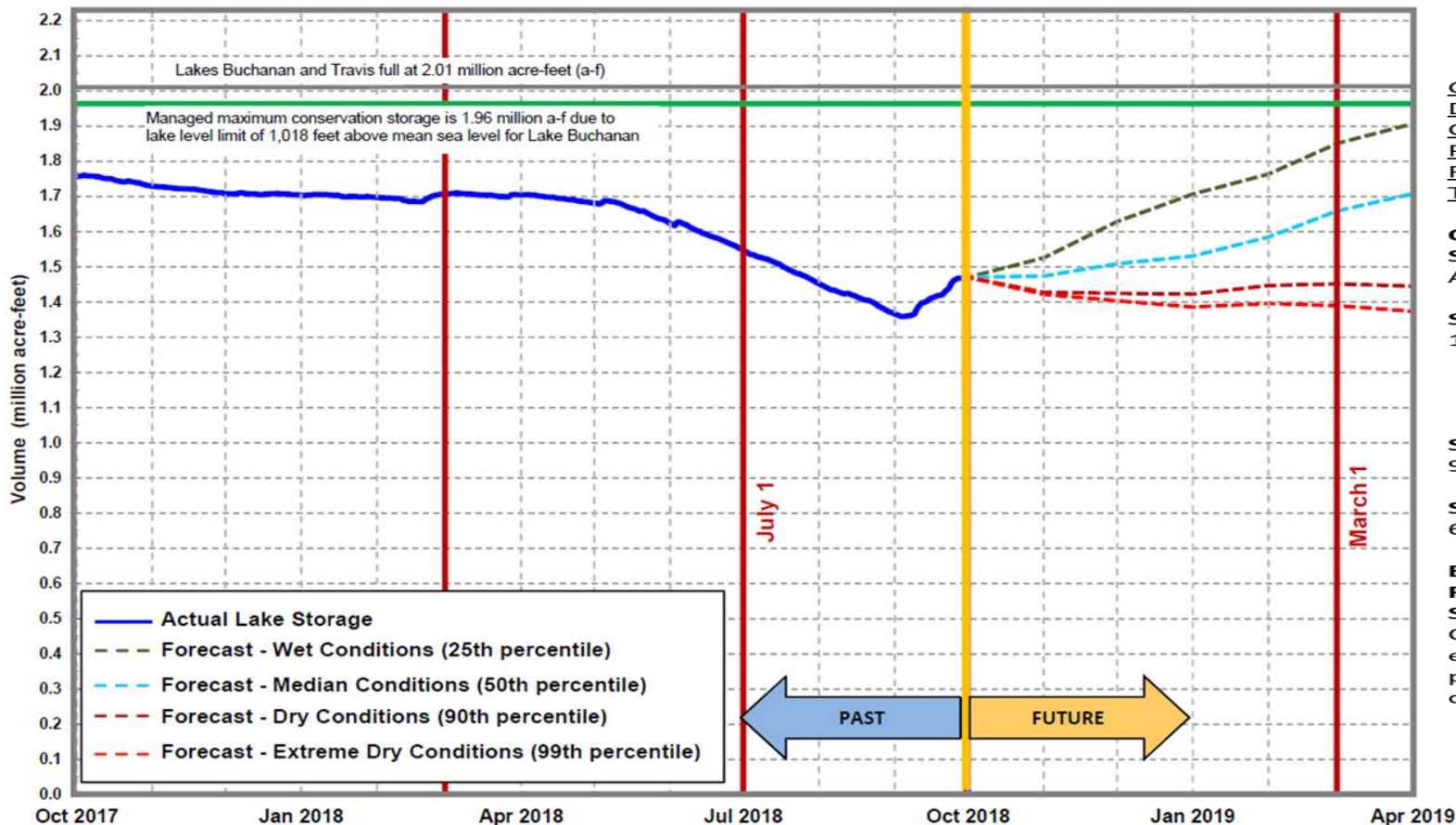
**A WATER PLAN  
FOR THE NEXT  
100 YEARS**

[austinwater.org](http://austinwater.org)



# Stage 1 to be lifted

Lakes Buchanan and Travis  
Total Combined Storage Projections



Note: One acre-foot equals 325,851 gallons.

Date: Oct. 1, 2018

City of Austin  
Drought  
Contingency  
Plan Drought  
Response Stage  
Triggers:

**Conservation**  
**Stage:**  
Above 1.4 MAF

**Stage I:**  
1.4 MAF

**Stage II:**  
900,000 AF

**Stage III:**  
600,000 AF

**Emergency**  
**Response**  
**Stage IV:**  
Catastrophic  
event including  
prolonged  
drought



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