



WATER FORWARD

INTEGRATED WATER RESOURCE PLAN

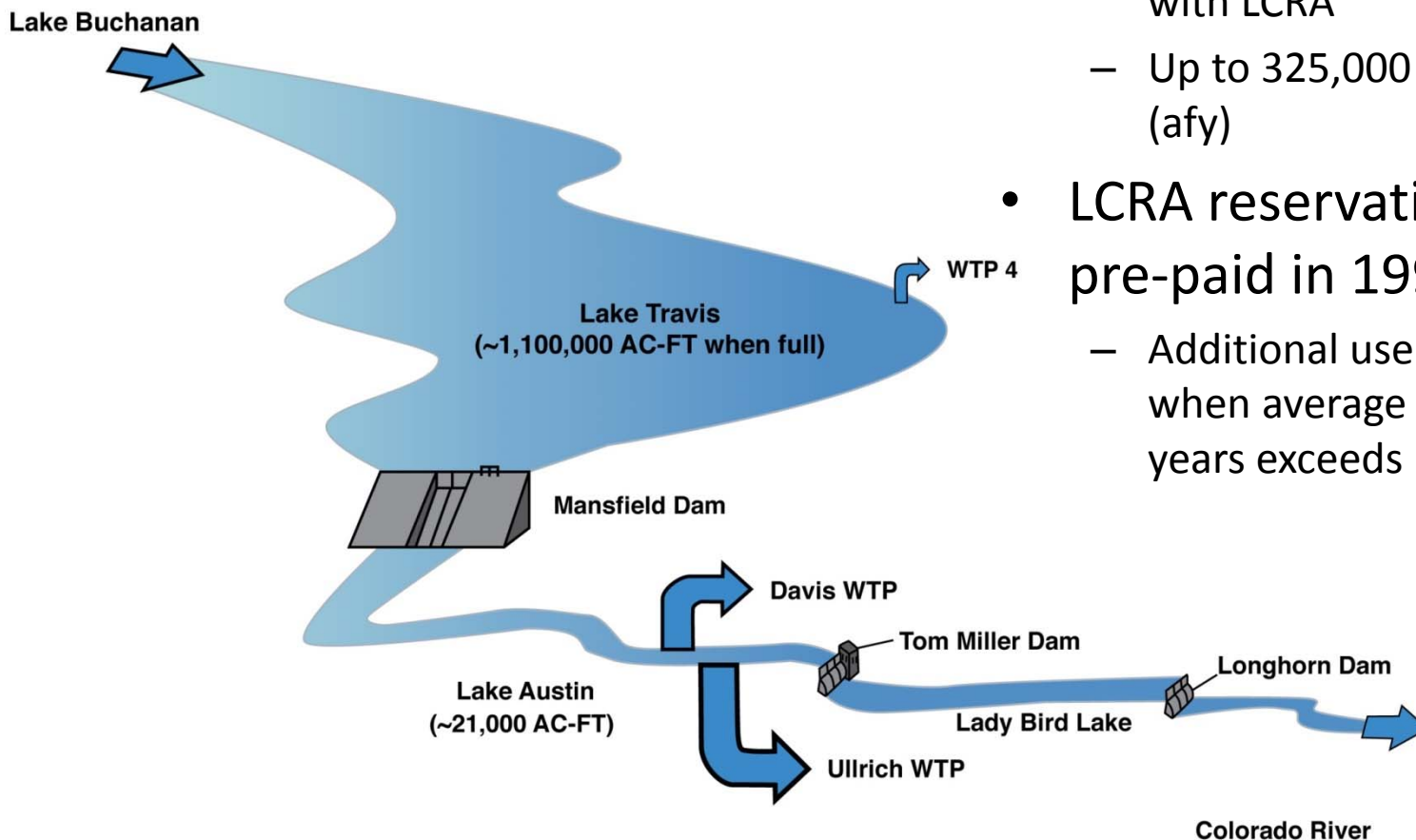
Public Workshop #1

September 7, 2016

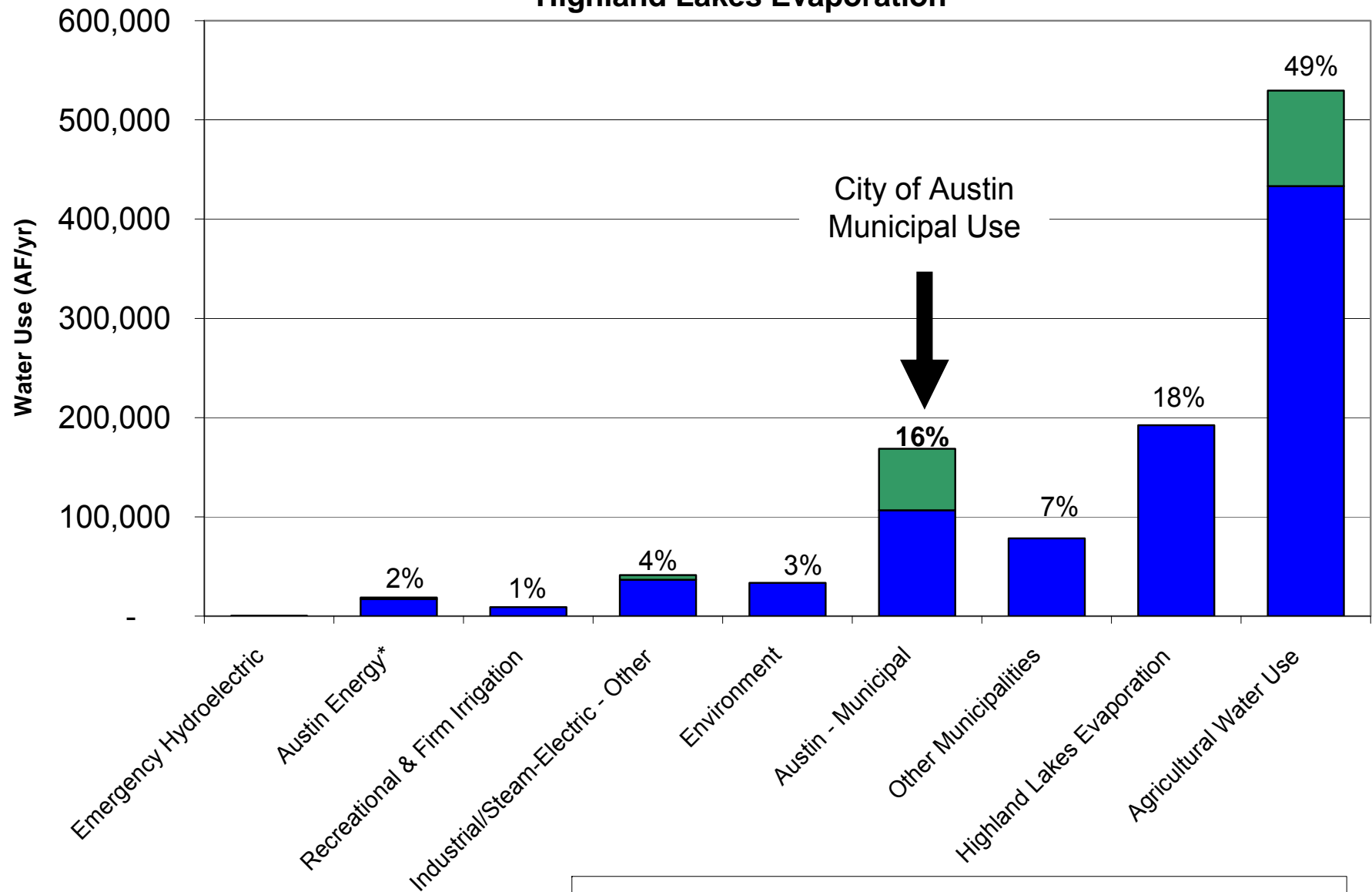


Austin Water Supply

- Colorado River:
 - Combination of State-granted water rights & long-term contract with LCRA
 - Up to 325,000 acre-feet per year (afy)
- LCRA reservation & use fees pre-paid in 1999
 - Additional use payments trigger when average for 2 consecutive years exceeds 201,000 afy



2011 Uses of Lower Colorado River Water Including Highland Lakes Evaporation



* STP water use included in Industrial/Steam-Electric-Other

** Total water use includes stored water & run-of-river water

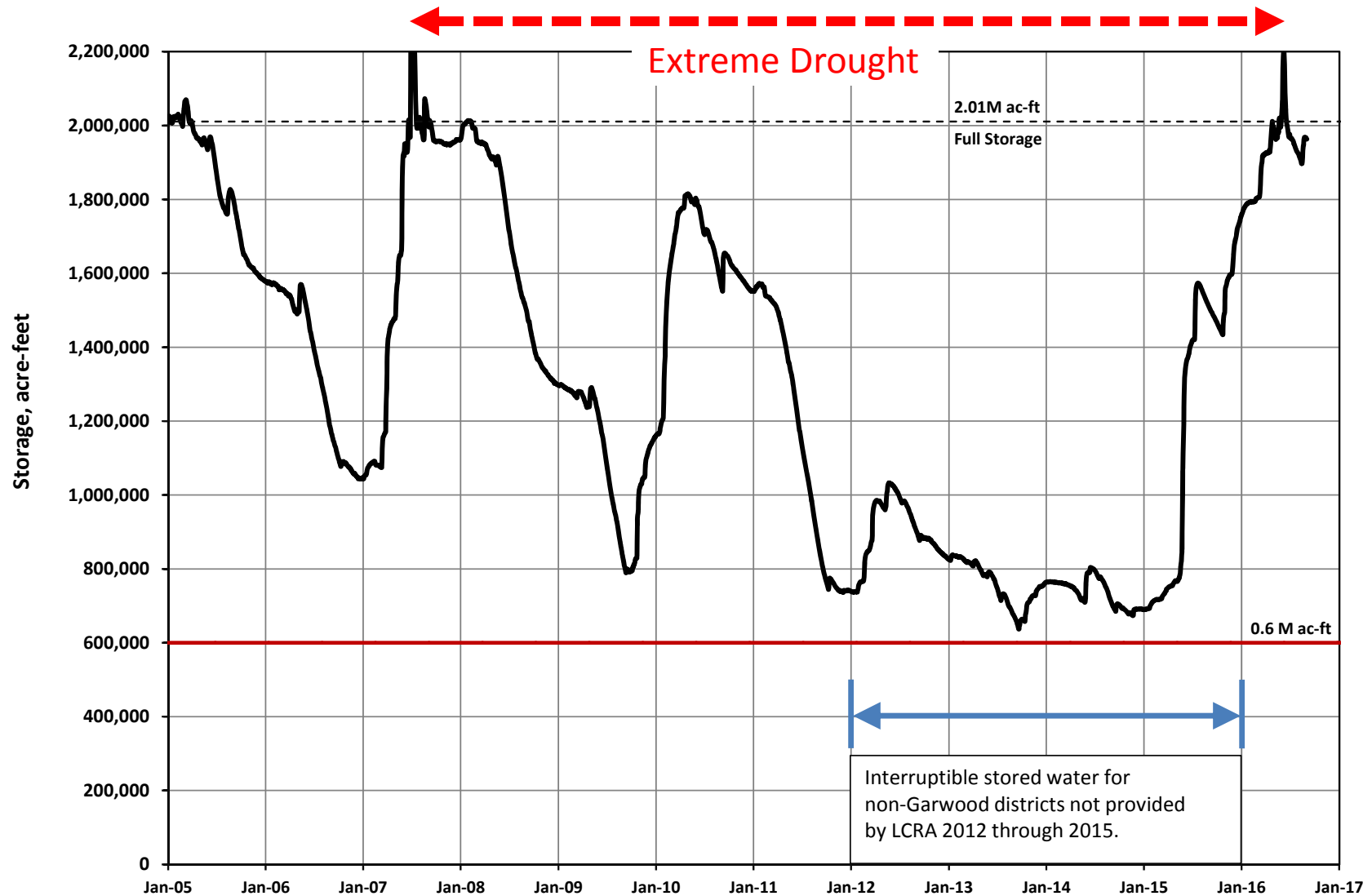
*** Note: LCRA estimates that 65,266 AF were released from the Highland Lakes for use by irrigation operations but not diverted because the water was lost to evaporation, seeped into the river banks or conditions changed that eliminated the need for the water. This amount is included in the agricultural stored water use figures.

****Non-COA firm stored water figures include transportation losses

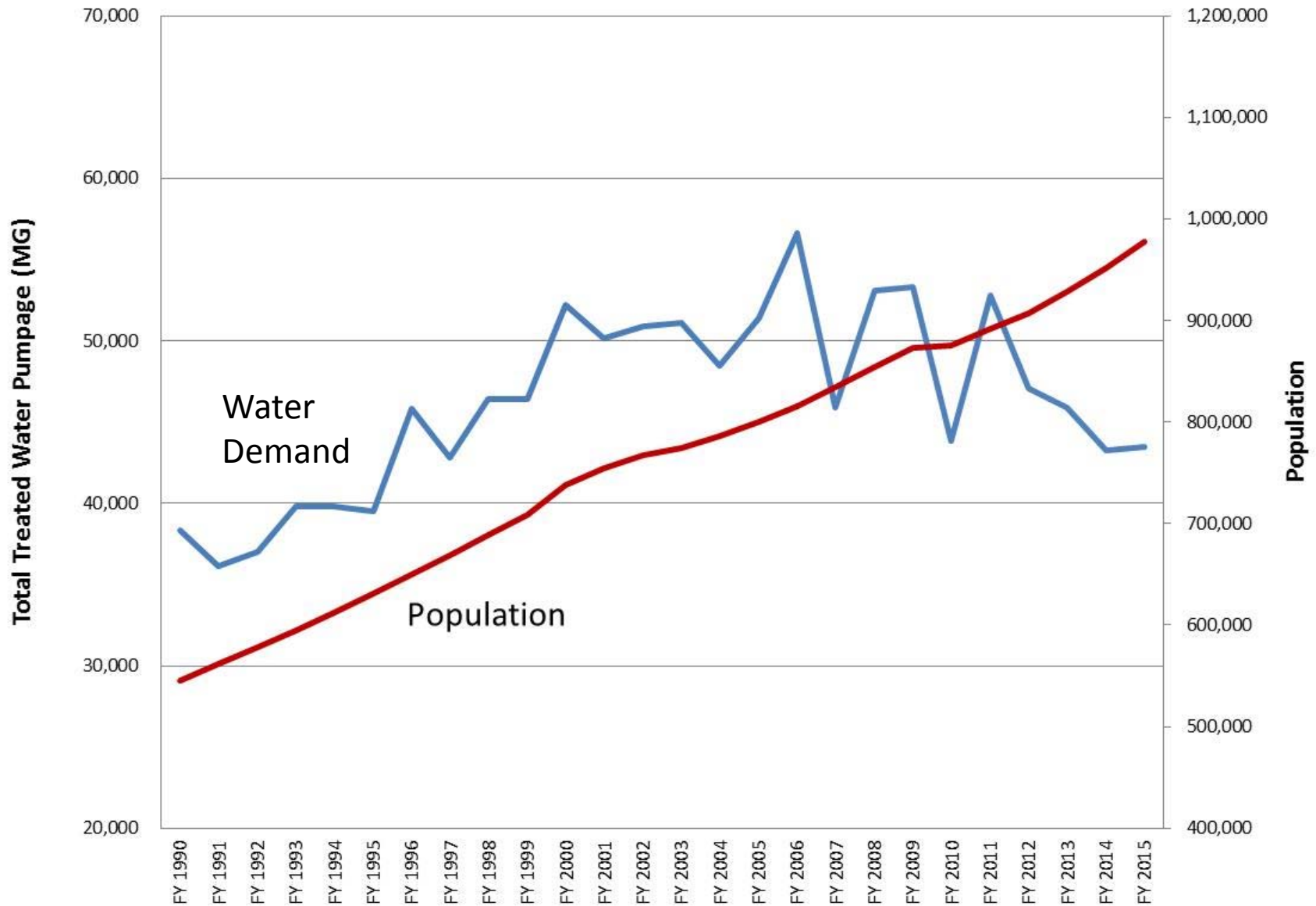
■ Stored (Lake) Water ■ Run of River Water

Combined Storage of Lakes Buchanan and Travis

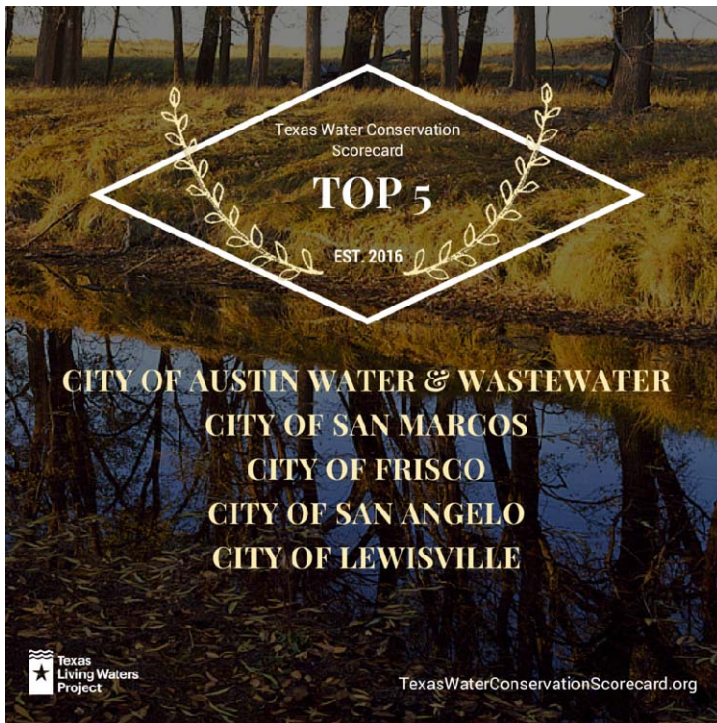
January 1, 2005 through September 1, 2016



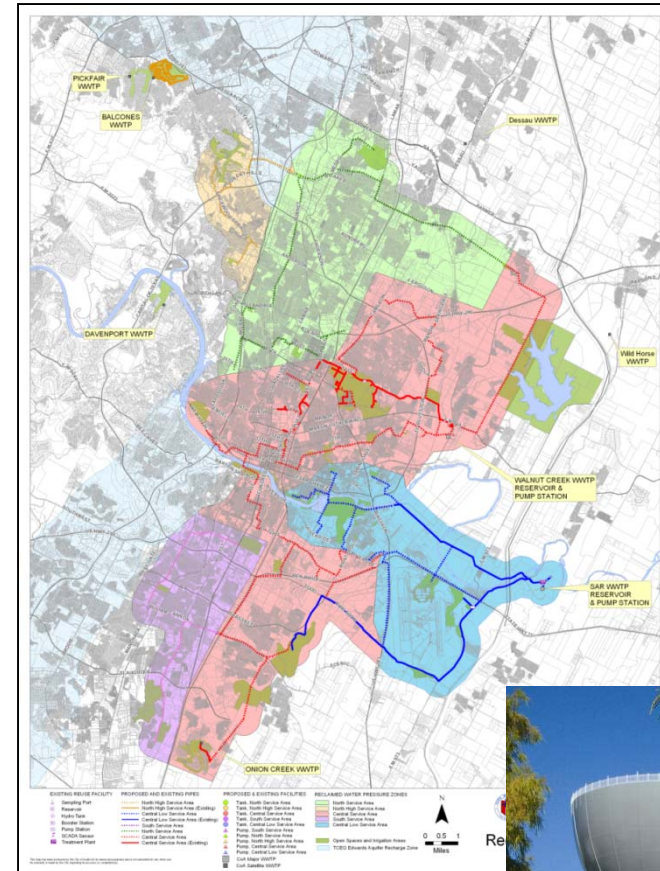
Austin's Water Demand and Population



Austin is Texas' Top Water Conservation Scoring Utility



Texas Living Waters Project:
Partnership of the Sierra Club Lone Star
Chapter, National Wildlife Federation, and
Galveston Bay Foundation



Reclaimed Water Master Plan

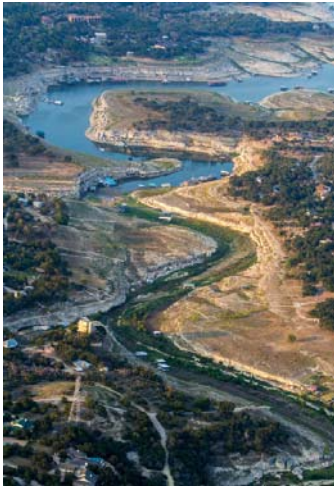


Water Forward

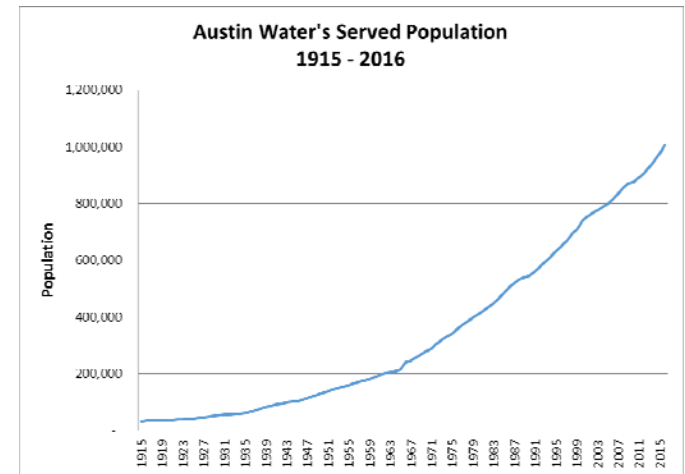
Integrated Water Resource Plan (IWRP)

- Austin is developing a 100-year IWRP that will include both demand-side and supply-side strategies
- Holistic and inclusive approach to water management
- Incorporates planning for drought and climate change
- Council-appointed Task Force meets monthly
- Interdepartmental coordination
- Plan projected to be completed by December 2017

Drivers for Austin's IWRP



Recent Extreme
Drought



Climate Change
Impacts on Supply
Reliability

Austin and Regional
Population Growth
& Development

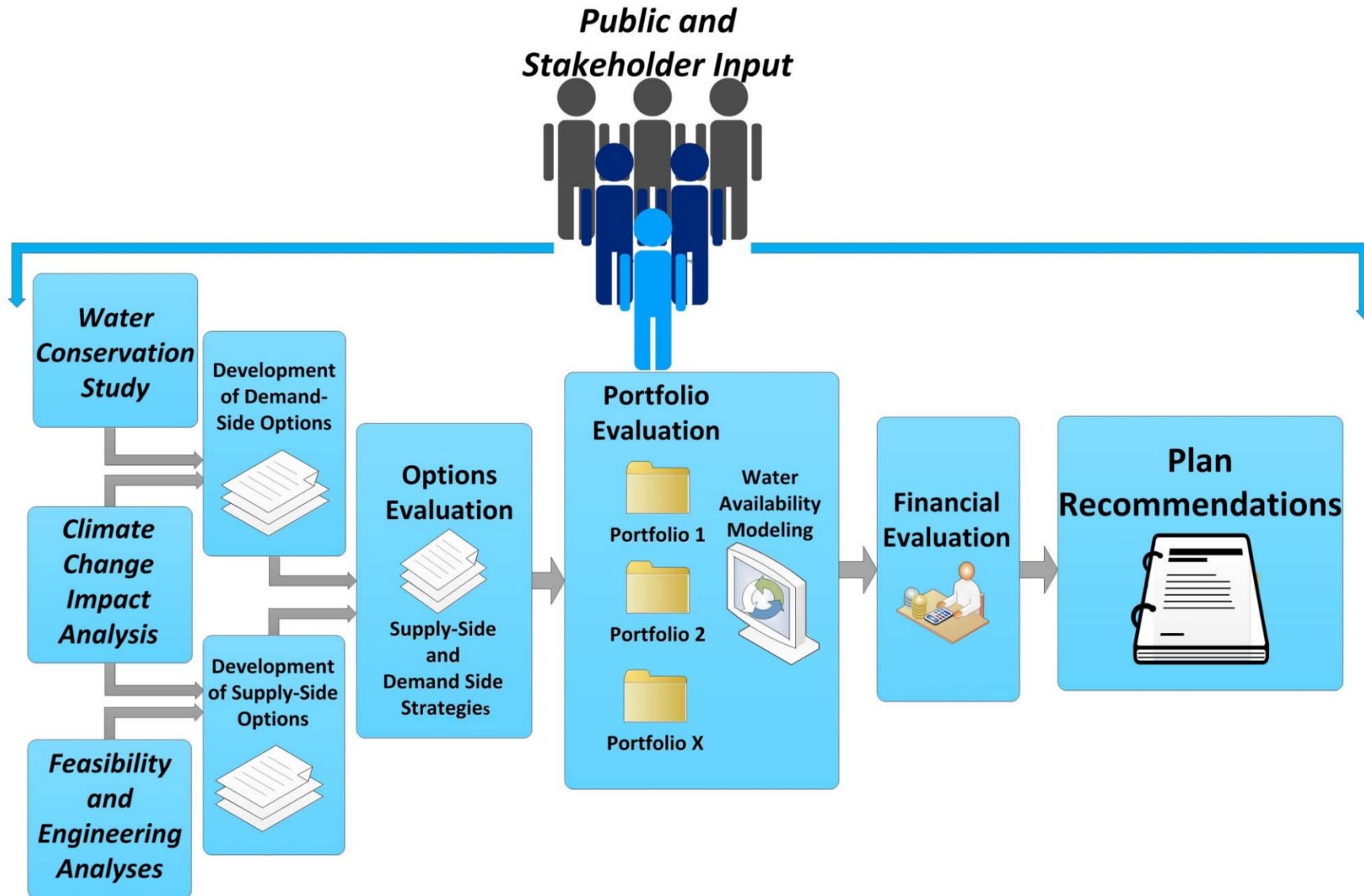
Development of Austin's IWRP was a key recommendation from
2014 City Task Force on Water Resources

- **Austin Integrated Water Resource Planning Community Task Force**
 - Created by Council to support the IWRP
 - Eleven Council-appointed members
 - City department representation

Water Forward Task Force Council-Appointed Members

CHAIR Sharlene Leurig	VICE CHAIR Jennifer Walker	Bill Moriarty	Clint Dawson	Sarah Richards	Perry Lorenz
Lauren Ross	Todd Bartee	Kate Zerrenner	Marianne Dwight	Diane Kennedy	

IWRP Development Process





Public Workshops

- **Workshop #1 (Today)**
 - Overview of IWRP and Objectives
- **Workshop #2 Tentative Plan:**
 - February 2017
 - Water Supply Need and Demand-side & Supply-side Options
- **Workshop #3 Tentative Plan:**
 - July 2017
 - Evaluation and Draft Recommendations

Public Outreach

- Opportunities to provide input and participate:
 - Surveys
 - Public Workshops
 - Community Events
 - Water Forward Task Force Meetings
- Opportunities to follow progress and get information:
 - Project website
 - Brochures
 - eNewsletters (join email list)
 - Social media



IWRP Statement of Purpose

The Integrated Water Resource Plan (IWRP) will provide a mid- and long-term evaluation of, and plan for, water supply and demand management options for the City of Austin in a regional water supply context.

Through public outreach and coordination of efforts between City departments and the Austin Integrated Water Resource Planning Community Task Force, the IWRP offers a holistic and inclusive approach to water resource planning.

The plan embraces an innovative and integrated water management process with the goal of ensuring a diversified, sustainable, and resilient water future, with strong emphasis on water conservation.

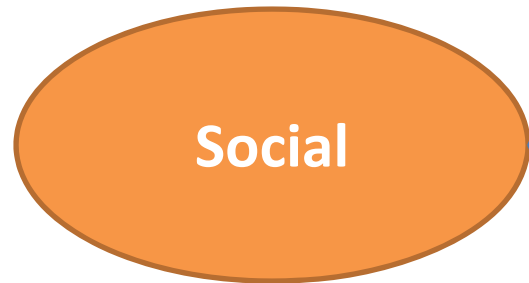
IWRP Guiding Principles

- Recognizing that Colorado River water is Austin's core supply, continue a strong partnership between the City and LCRA to assure its reliability
- Continue Austin's focus on water conservation and water use efficiency
- Strengthen long-term sustainability, reliability, and diversity of Austin's water supply through maximizing local water resources
- Avoid severe water shortages during times of drought
- Focus on projects that are technically, socially, and economically feasible
- Continue to protect Austin's natural environment, including source and receiving water quality
- Ensure Austin's water supply continues to meet/exceed all federal, state and local public health regulations
- Align with Imagine Austin's "Sustainably Manage Our Water Resources Priority Program"
- Maintain coordination and communication with regional partners
- Engage the public and stakeholders throughout the plan development process



Five IWRP Objectives Aligned with the Principles of Sustainability

Sustainability Principles



IWRP Objectives

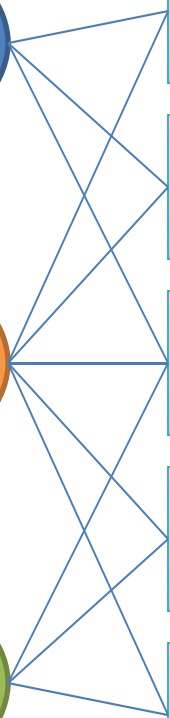
1. Water Supply Benefits

2. Economic Benefits

3. Societal Benefits

4. Implementation Benefits

5. Environmental Benefits



1. Water Supply Benefits

Purpose	Desired Outcomes
Sustain Austin’s water supply reliability, providing resiliency for future population growth and climate change	Minimize the number, duration and size of water shortages
	Maximize the certainty that the water supply will be available to Austin when needed
	With emphasis on local sources, enhance the diversification of water supply

2. Economic Benefits

Purpose	Desired Outcomes
Develop water reliability solutions that are cost-effective for the Austin community	Seek cost-effective solutions for improving water supply reliability
	Maximize advantageous external funding for recommended projects/programs

3. Societal Benefits

Purpose	Desired Outcomes
Provide societal benefits from improving water supply reliability for the Austin community	Enhance livability and recreation through multi-beneficial water infrastructure/programs
	Protect and improve local economic vitality
	Seek social equity and environmental justice, with emphasis on underserved communities

4. Implementation Benefits

Purpose	Desired Outcomes
Reduce potential implementation challenges thereby increasing likelihood of success for projects/programs	Achieve public acceptance and permitting/regulatory success, and reduce potential legal/institutional barriers
	Emphasize the scalability of projects/programs to better meet needs overtime
	Seek projects/programs that have proven or tested technologies

5. Environmental Benefits

Purpose	Desired Outcomes
Protect and sustain the local environment for the benefit of the Austin community	Sustain local watershed and ecosystem health
	Seek lower energy-intensive solutions for improving water supply reliability
	Increase water use efficiency to reduce demands on potable water supplies

Break-Out Groups

Participants should address the following questions on the five objectives:

- 1. Is the overall purpose of the objective clear and understandable? If not, what suggestions do you have to improve it?**
- 2. Do the desired outcomes for the objective reflect your values/concerns? If not, why?**
- 3. Are there any desired outcomes that were not listed that you feel are important for the objective? If so, what are they?**

Rules of Engagement

We want to hear from all of you, but we ask that you follow some rules of engagement:

- 1. Please participate, your voice is important!**
- 2. Please be respectful of other people's perspectives/opinions**
- 3. Please refrain from talking over someone else**
- 4. Feel free to ask questions if something isn't clear**
- 5. Focus on the future**

All feedback will be documented for consideration in the development of the Austin IWRP