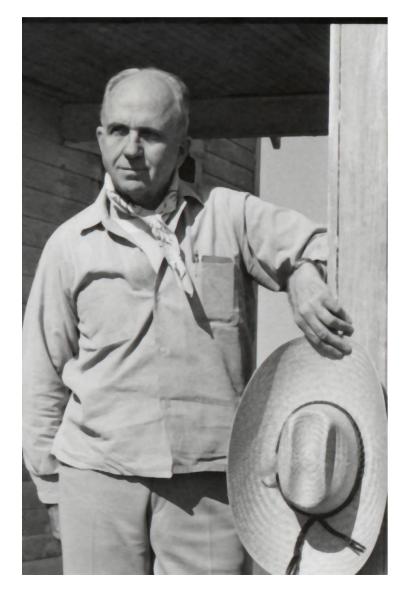
Water for the Hill Country: Who, What, and When?

Robert E. Mace, Ph.D., P.G.
Texas Water Development Board presented to
2015 Hill Country Alliance Leadership Summit
Fredericksburg, Texas
September 24, 2015 The following presentation is based upon professional research and analysis within the scope of the Texas Water Development Board's statutory responsibilities and priorities but, unless specifically noted, does not necessarily reflect official Board positions or decisions.



"Water, not oil, is the lifeblood of Texas."

– James A. Michener

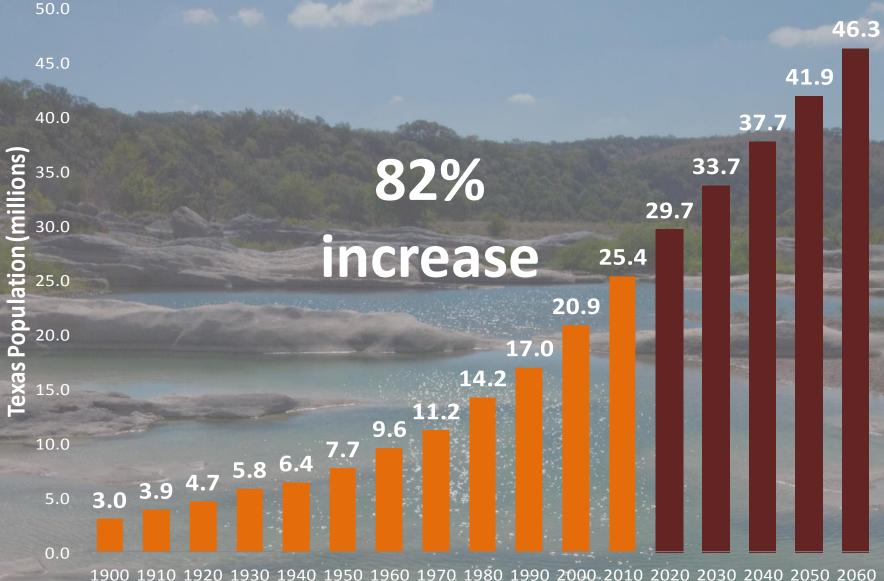


"I wish we water boys were paid like them oil boys."

-Robert E. Mace



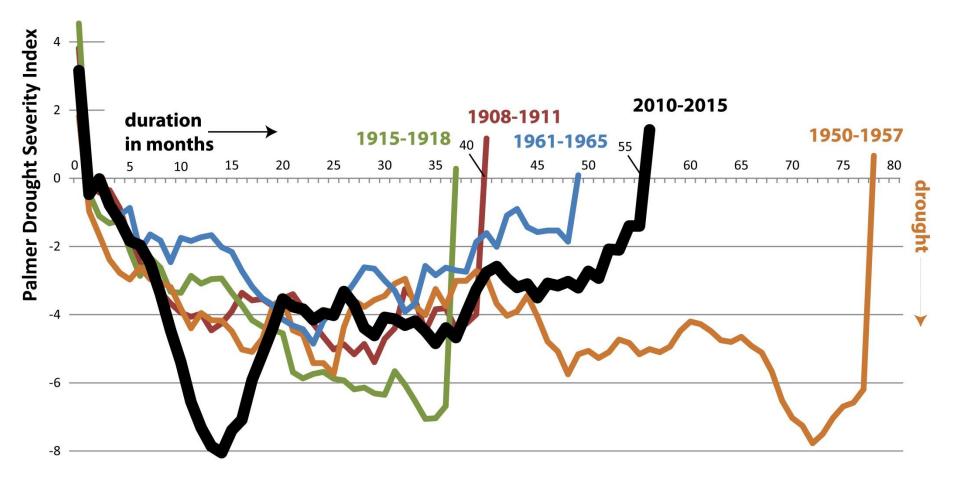
HISTORIC AND PROJECTED TEXAS POPULATION GROWTH



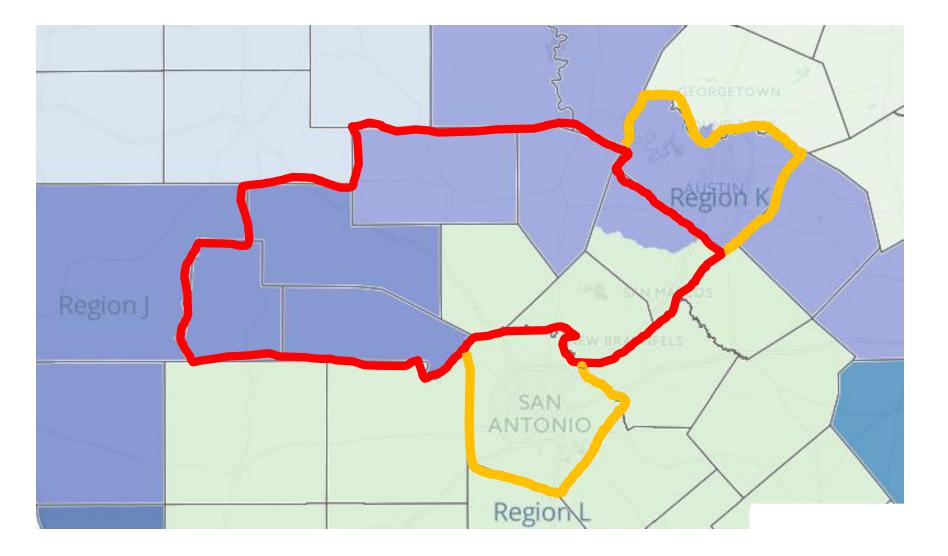
Planning (in a nutshell)

- What is our demand for water?
- How much do we have now?
- Do we have enough?
- If we don't, what do we need to do to get more?
- How much will it cost?

Five Worst State-Wide Droughts in Texas



based on information from John Nielsen-Gammon



www.texasstatewaterplan.org

About

Home

irst time here?

~

2012 Texas State Water Plan

Texas Water

Development Board

() This application displays water planning information on which the 2012 State Water Plan is based. Each water user group is mapped to a single point near its primary location; therefore, an entity with a large or multiple service areas may be displayed outside the specific area being queried. The map views are schematic, summarizing and displaying available data with some limitations. Some water sources, for example, may not be shown on the map but will be appear in tables below.

For additional information see the 2012 State Water Plan or the 2011 Regional Water Plans.



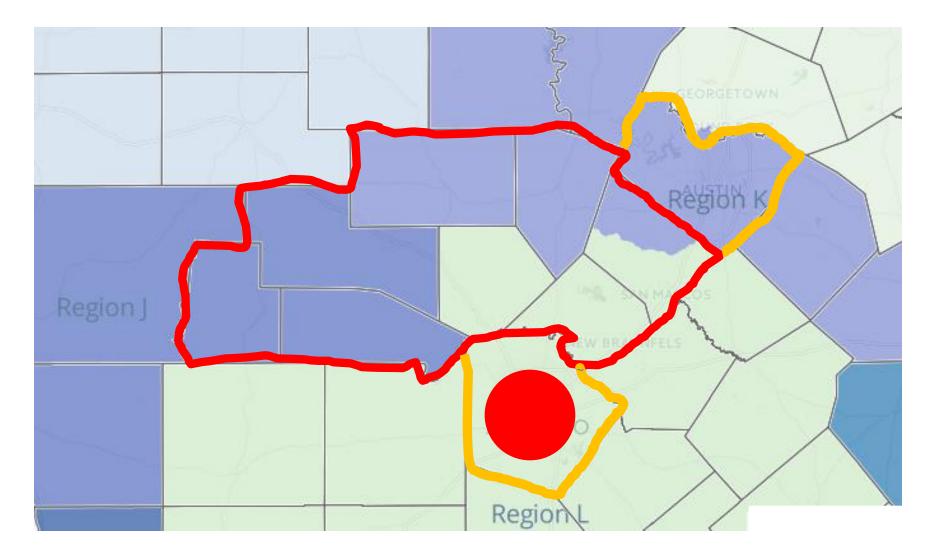
View data by Regional Summary

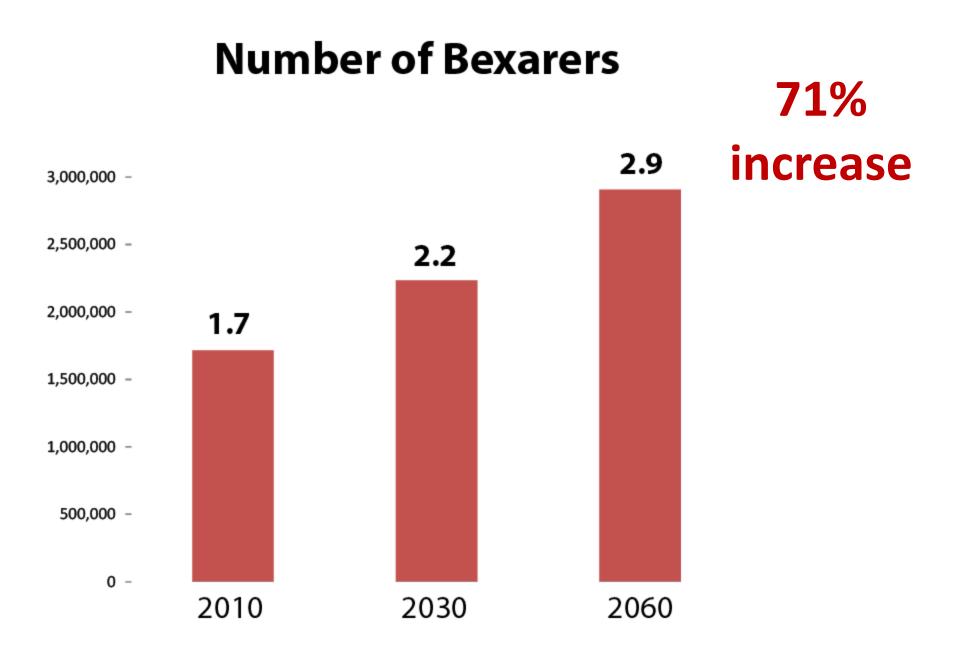
Regional Water Demand Summary - 2010



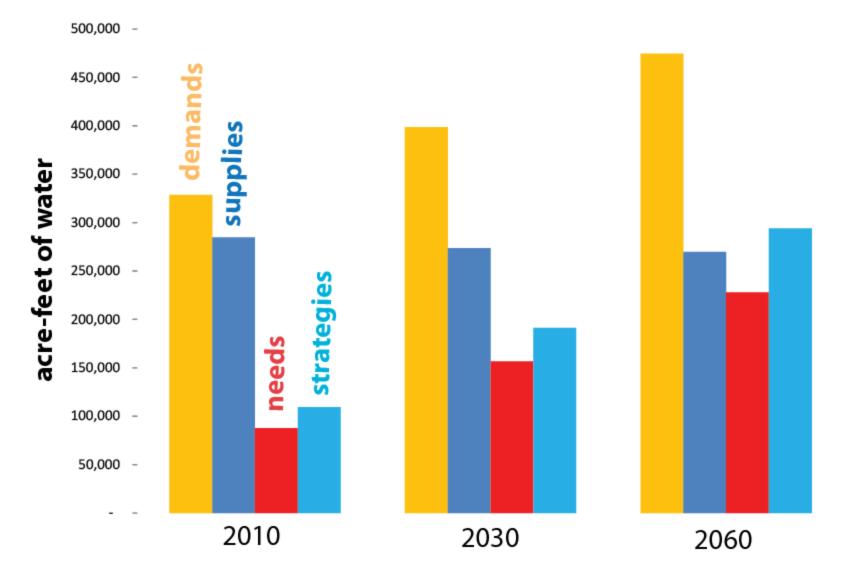
Map shows Regional Water Planning Areas that may be selected using cursor.

Bexar County





Bexar County



Bexar County

- Brush control
- Conservation

Aquifer storage and recovery

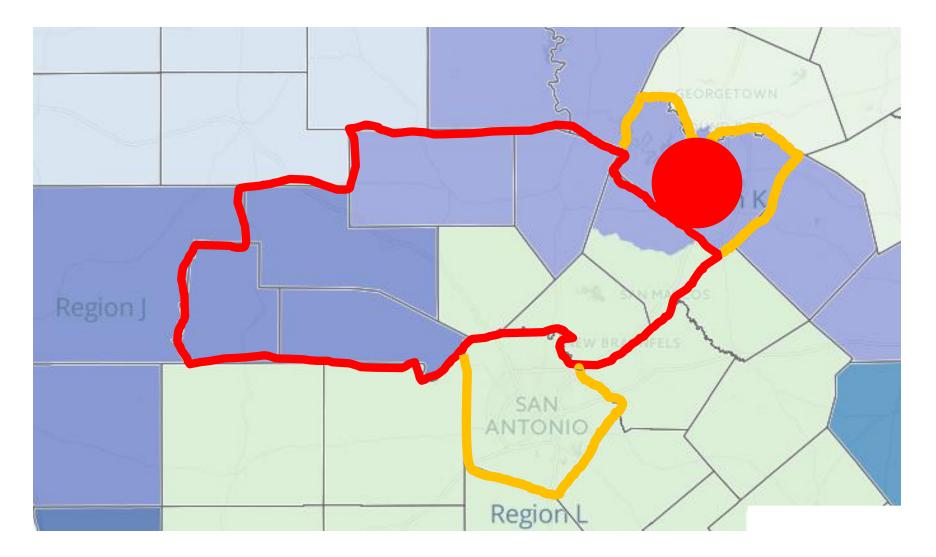
CONROE .

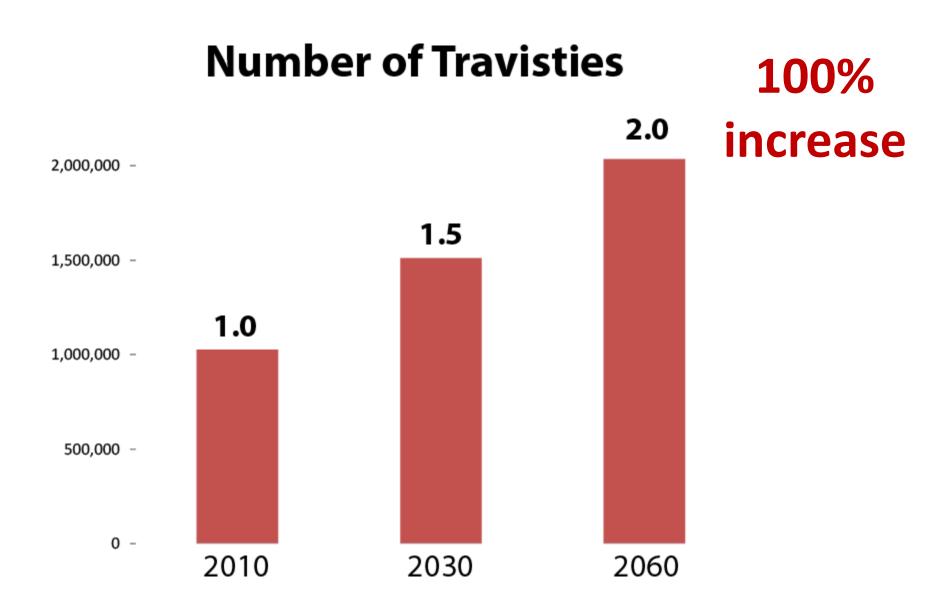
HOUSTON .

VICTORIA

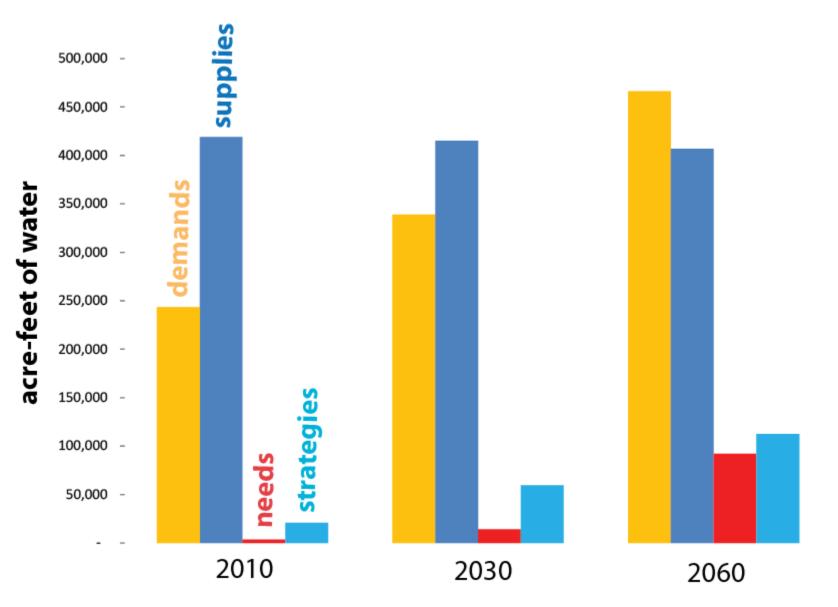
- Surface water
- Groundwater
- Groundwater desal
- Seawater desal
- Reuse
- Other surface water

Travis County

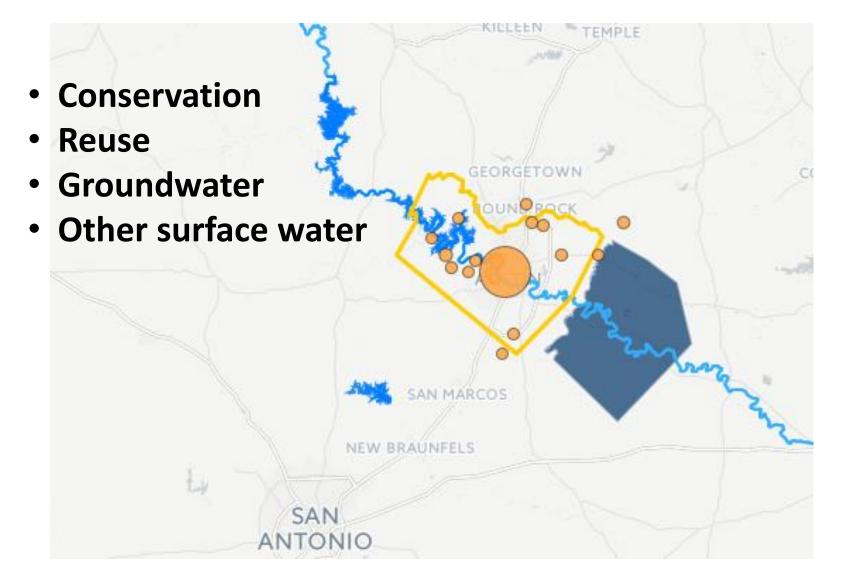




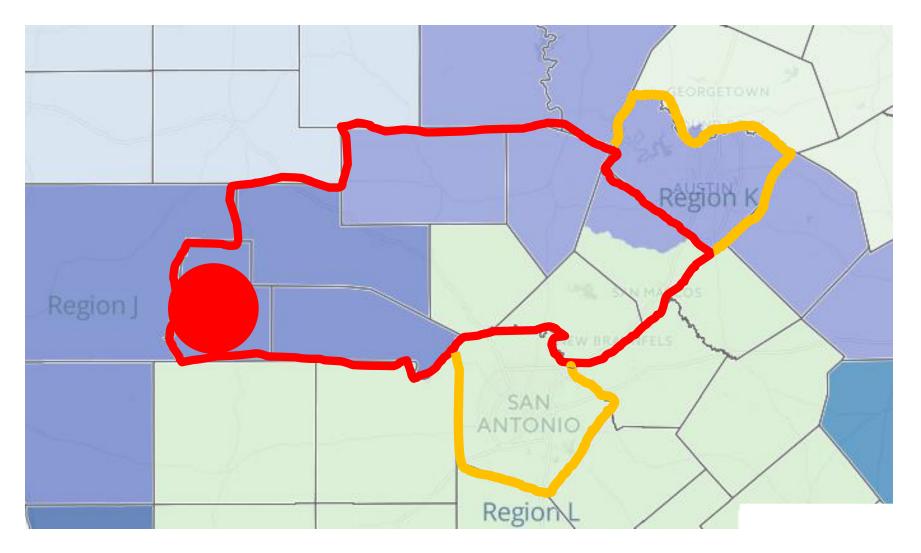
Travis County

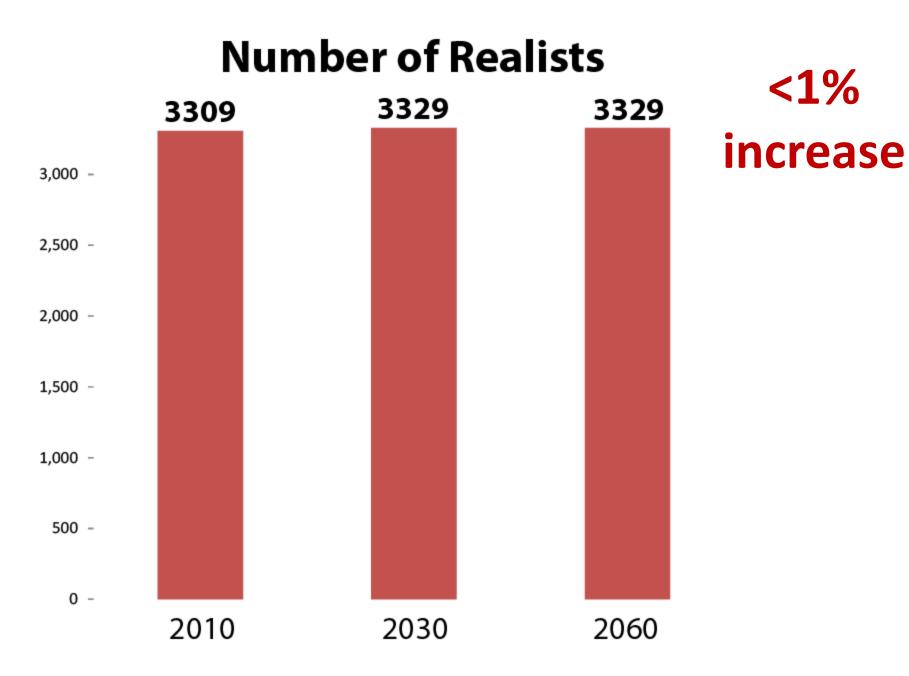


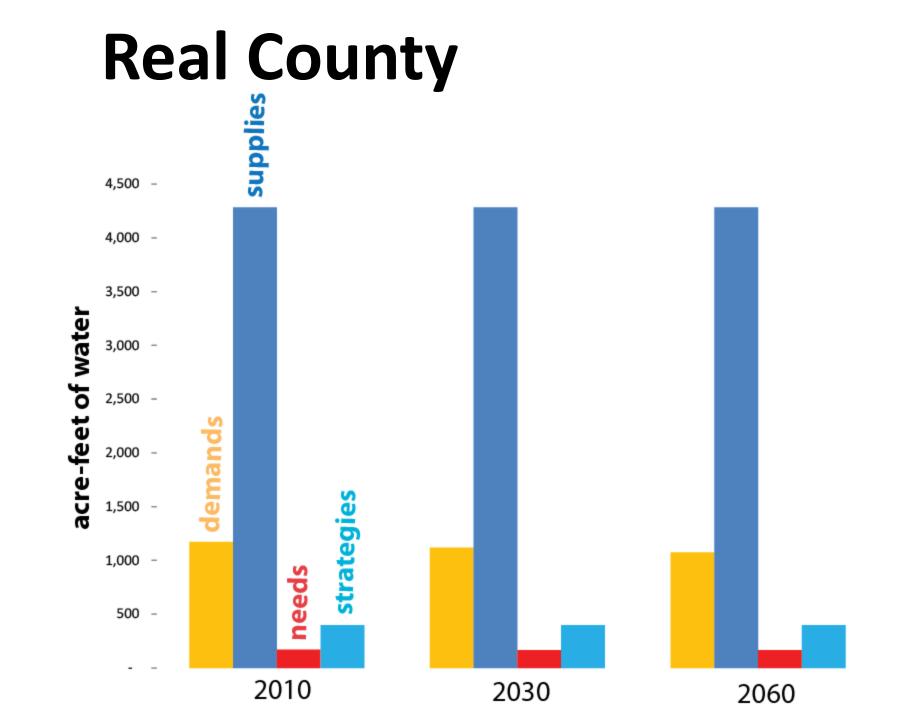
Travis County



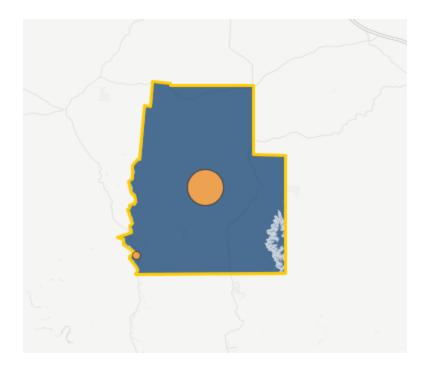
Real County





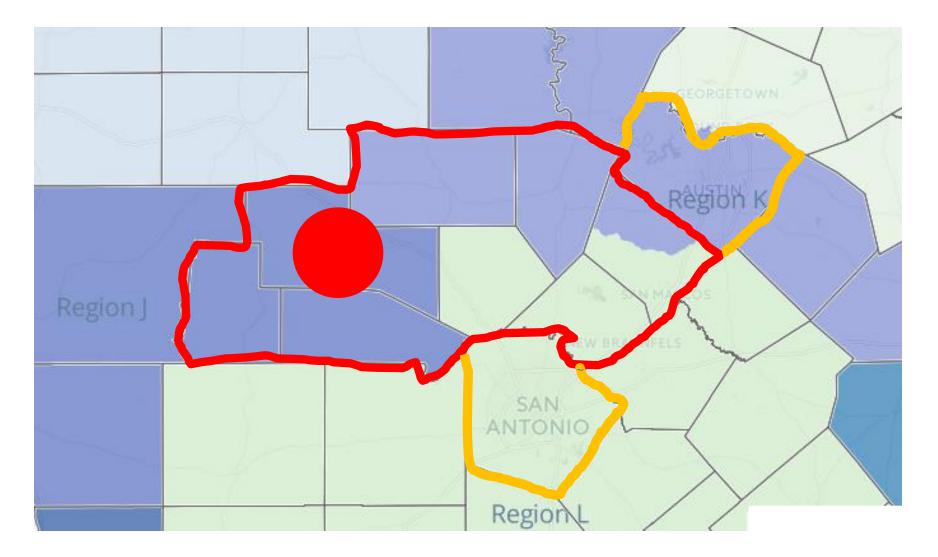


Real County

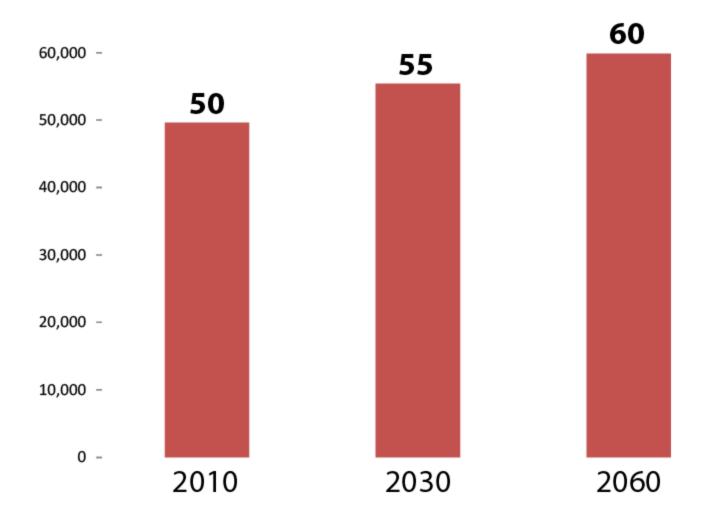


- Conservation
- Groundwater

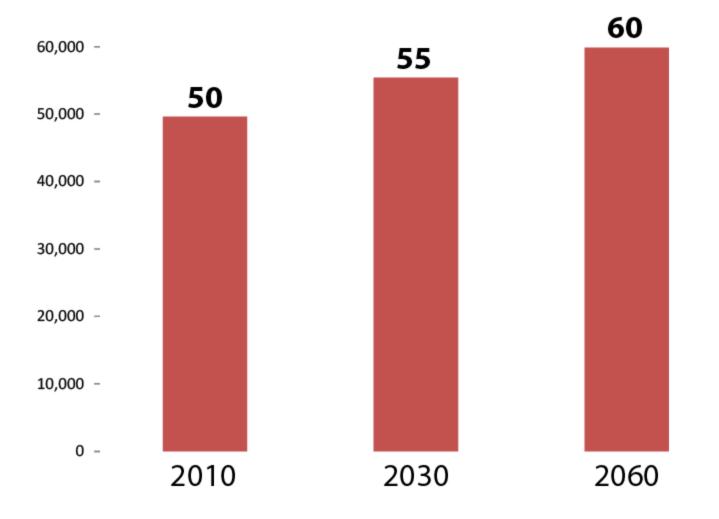
Kerr County

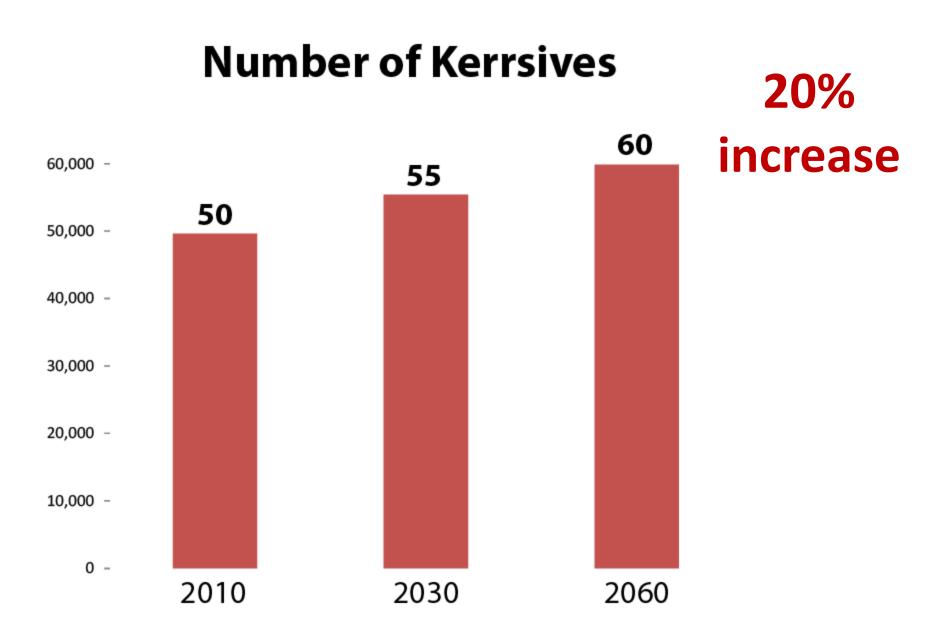


Number of Kerrsives

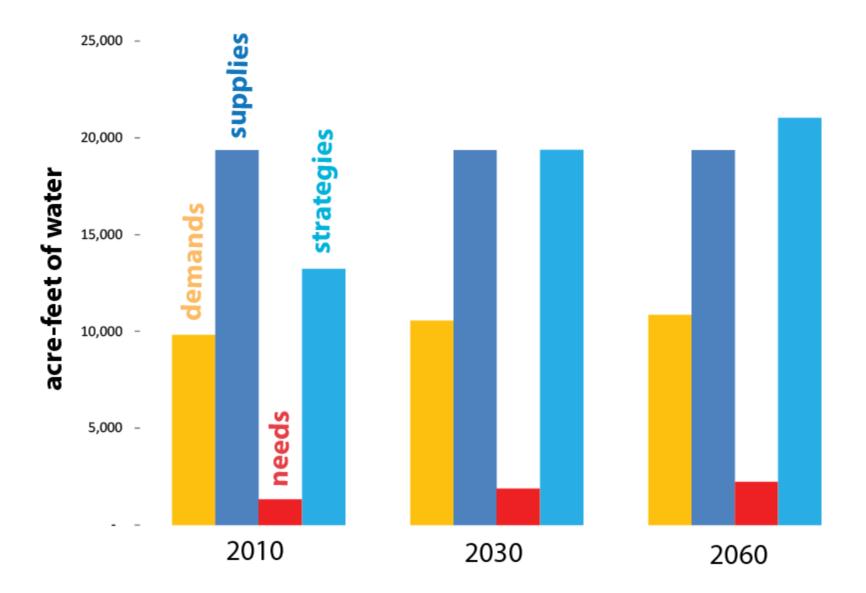


Number of Kerrmudgeons

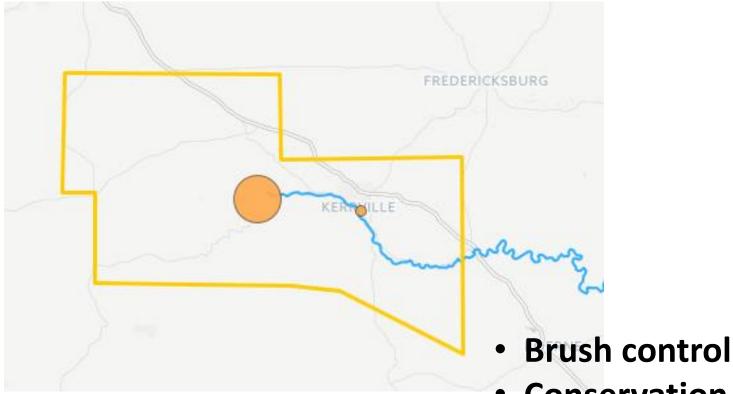




Kerr County

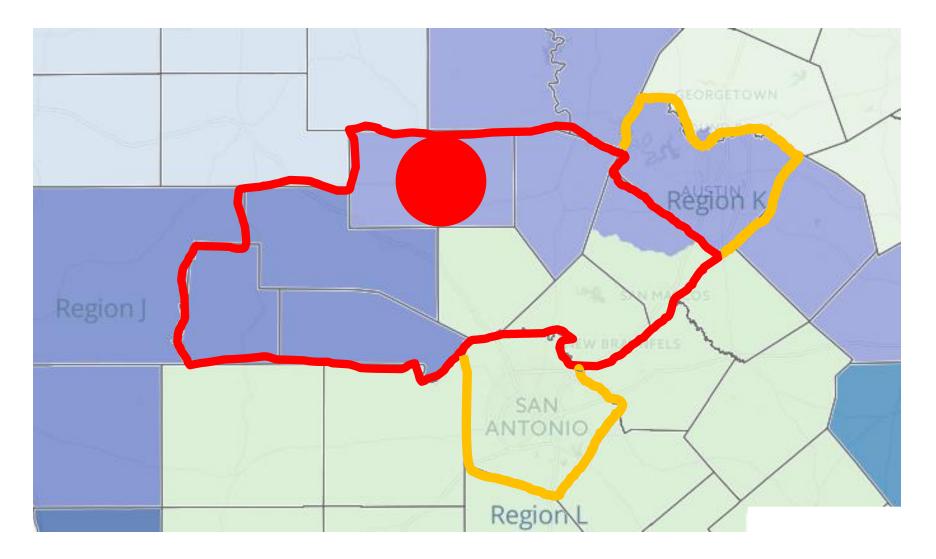


Kerr County

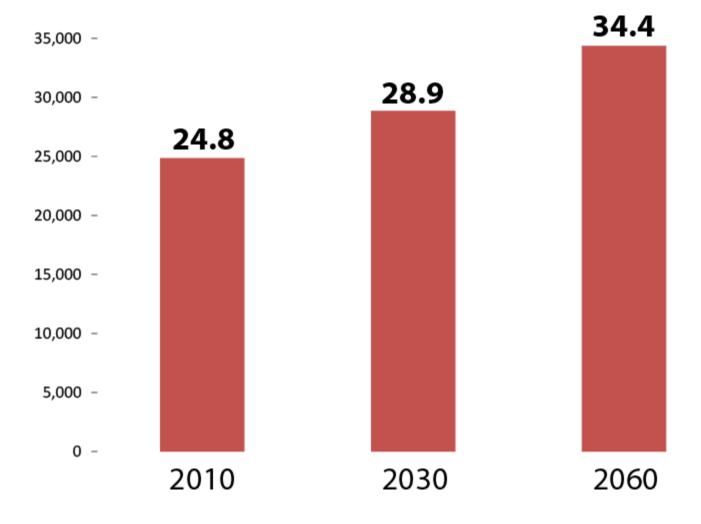


- Conservation
 Aquifer storage and
 - recovery
- Other surface water

Gillespie County

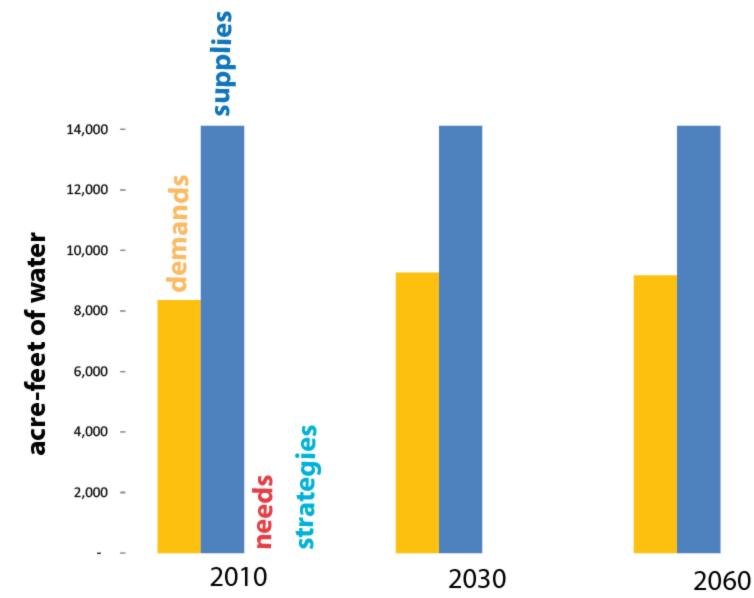


Number of Gillespians

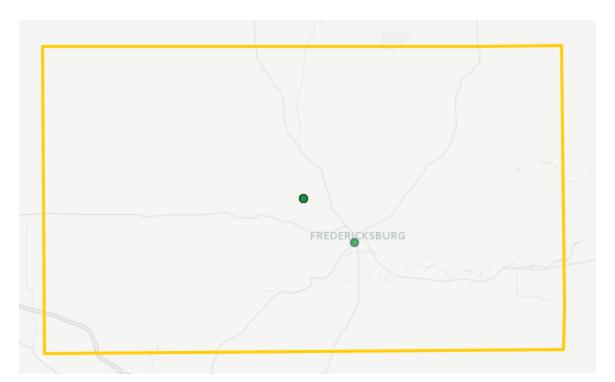


39% increase

Gillespie County

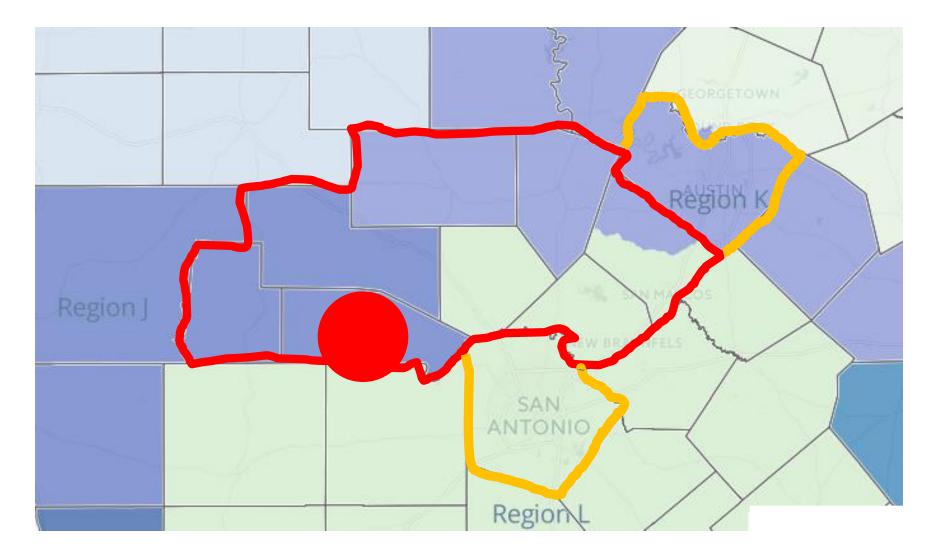


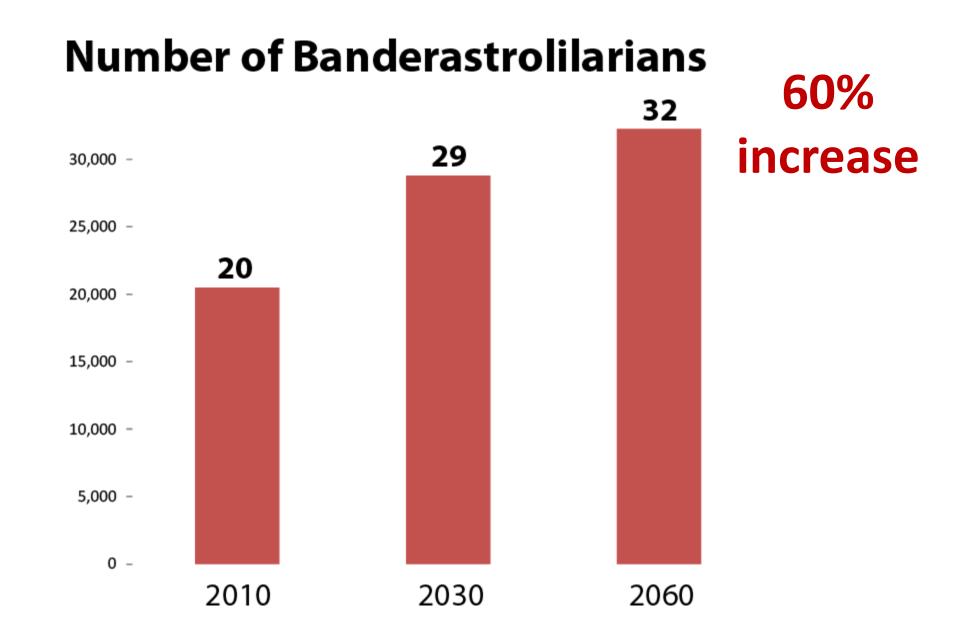
Gillespie County



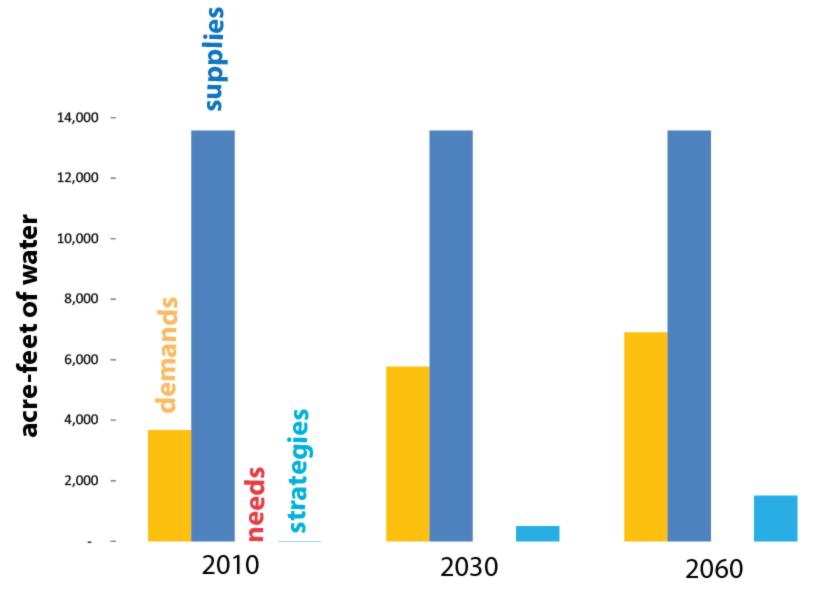
• Kick back and drink an Enchanted Red Rock Ale

Bandera County

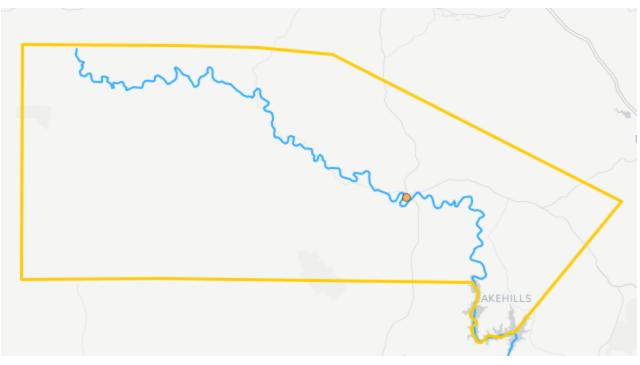




Bandera County

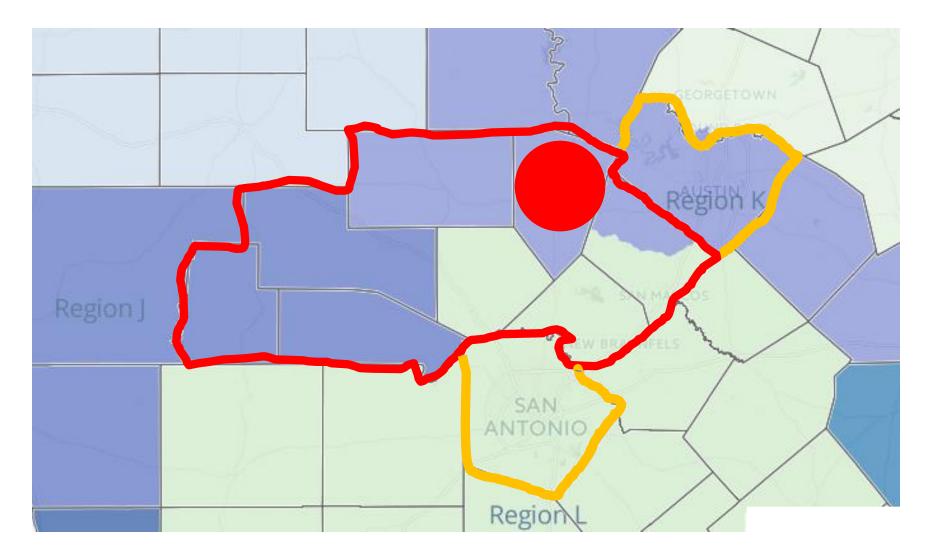


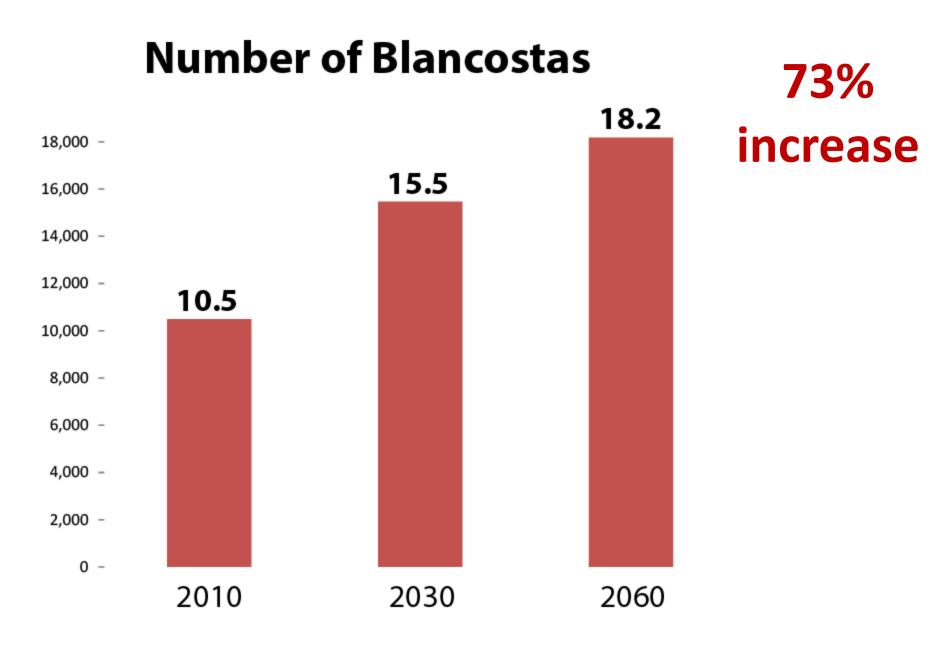
Bandera County



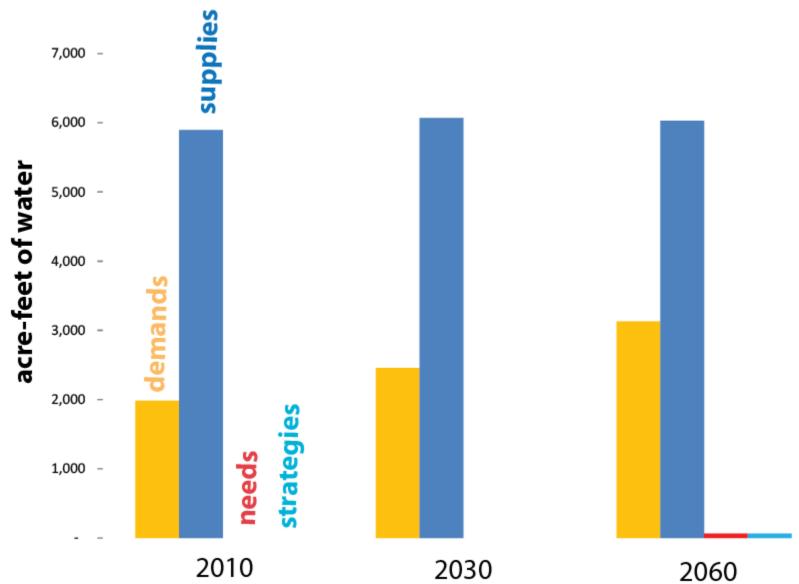
- Conservation
- Aquifer storage and recovery

Blanco County

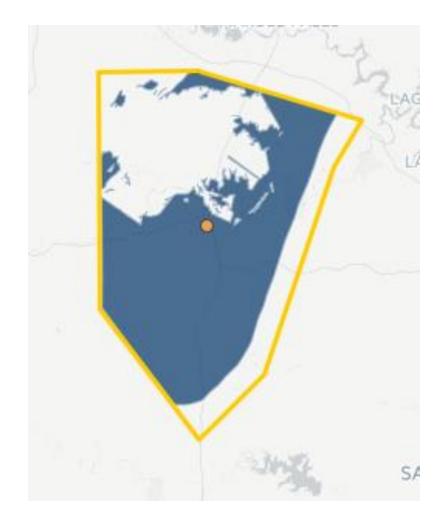




Blanco County

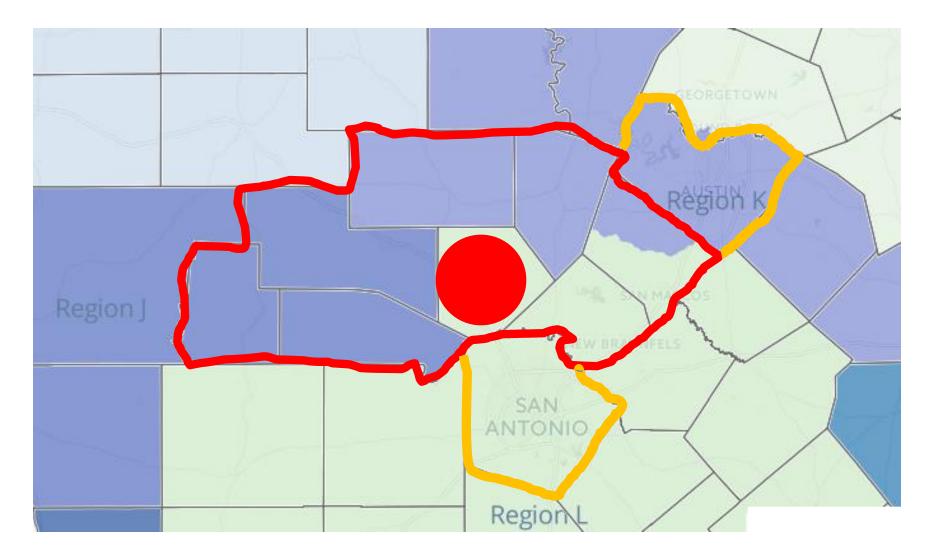


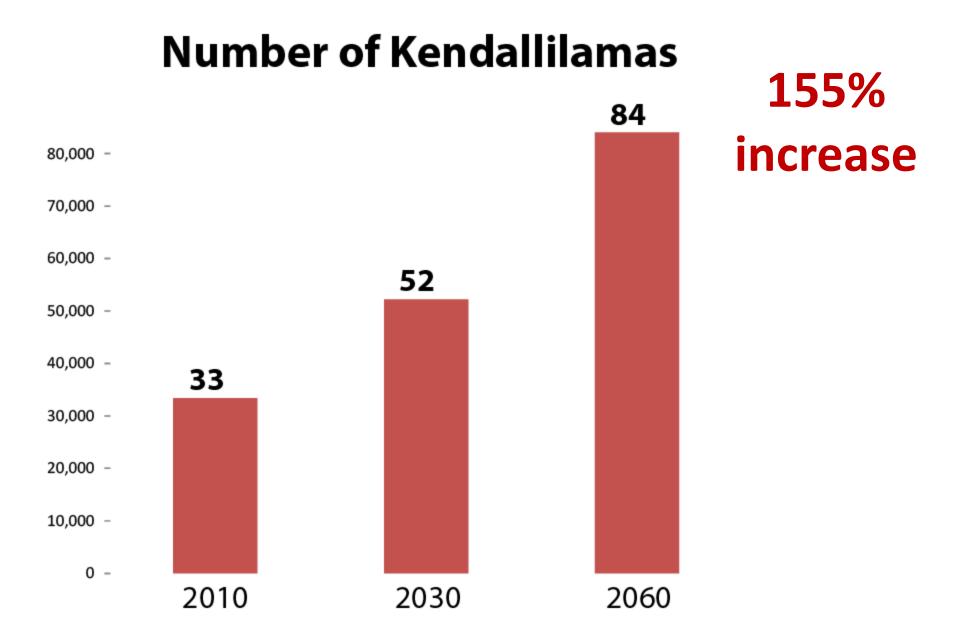
Blanco County



Groundwater

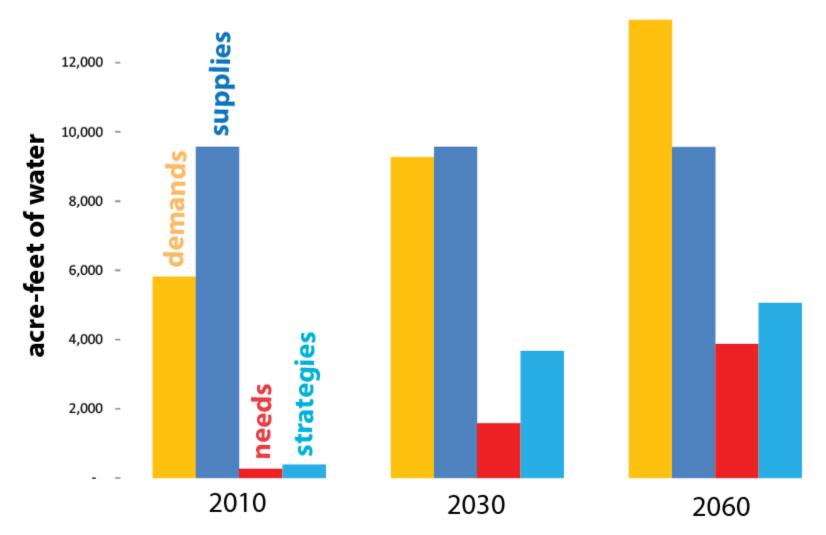
Kendall County





Kendall County

14,000 -

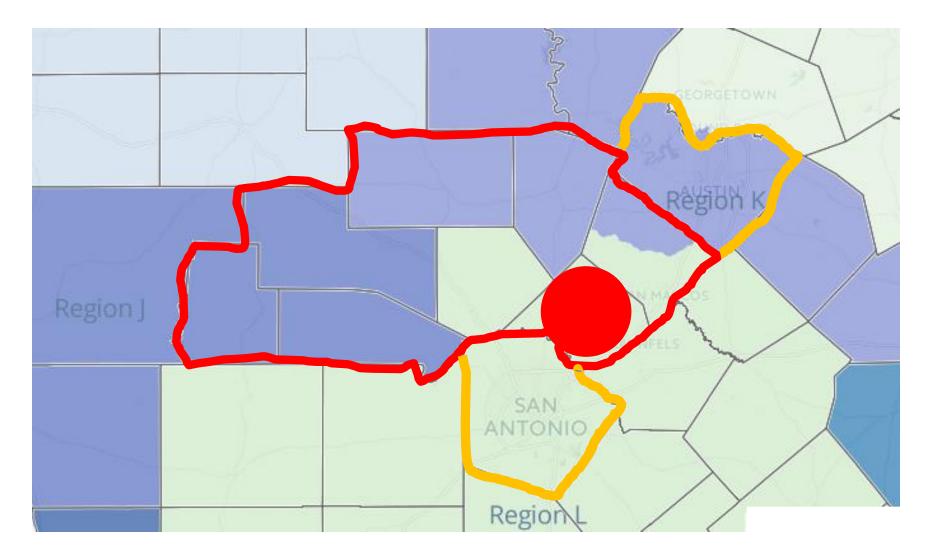


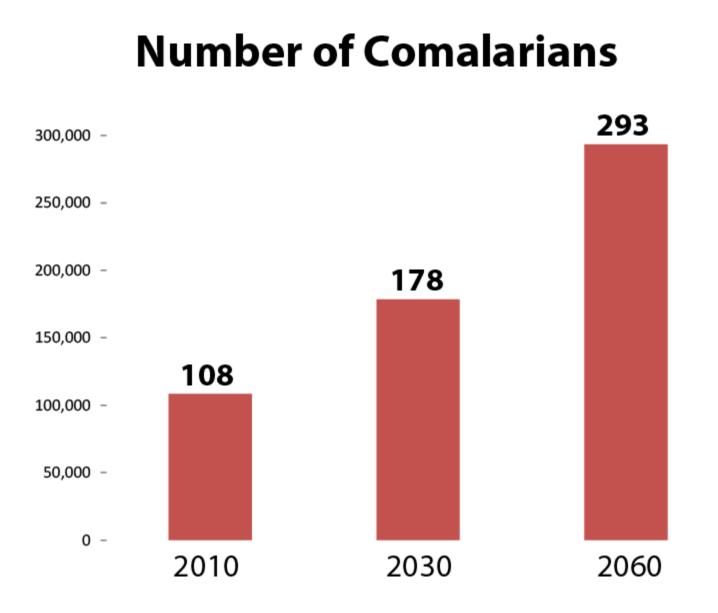
Kendall County



- Conservation
- Aquifer storage and recovery
- Groundwater
- Other surface water

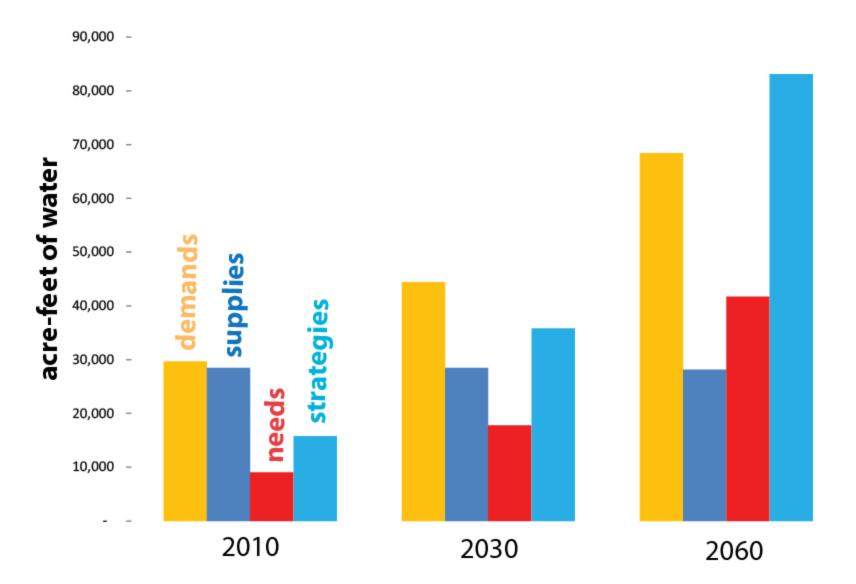
Comal County



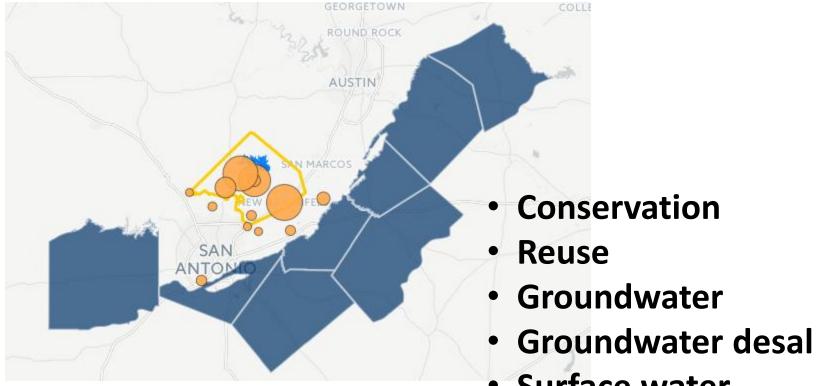


171% increase

Comal County

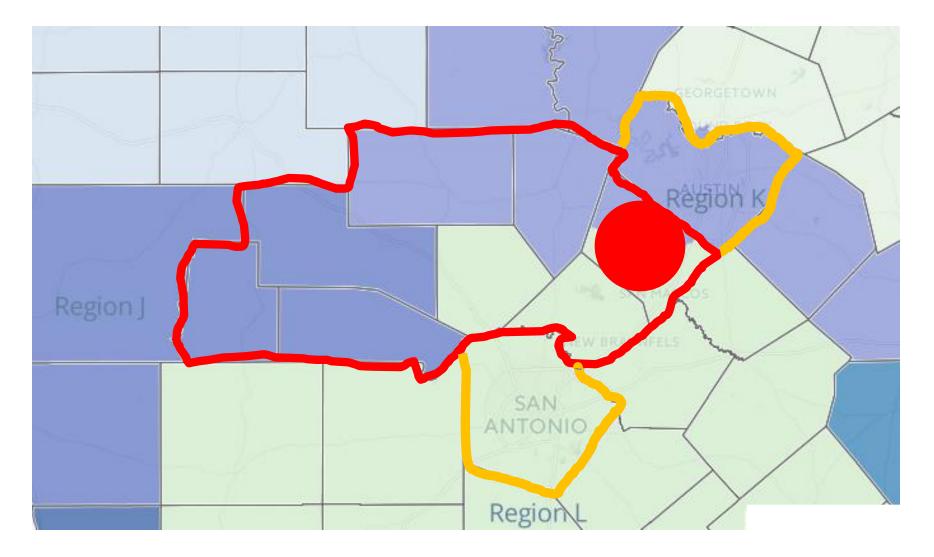


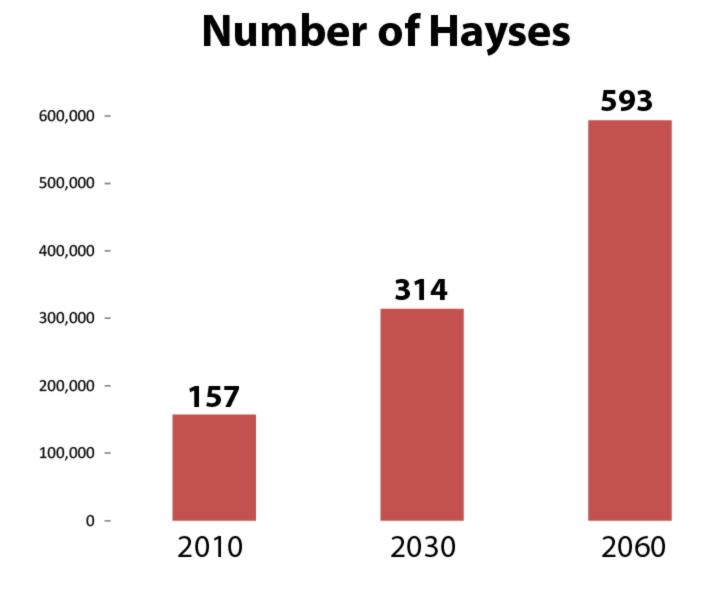
Comal County



Surface water

Hays County





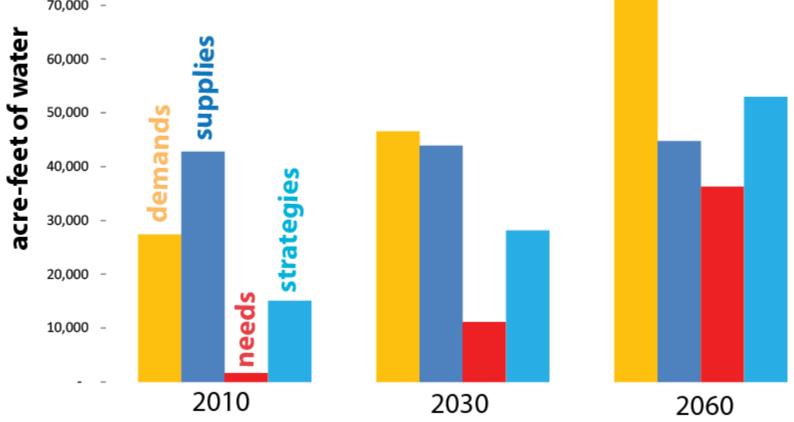
278% increase

Hays County

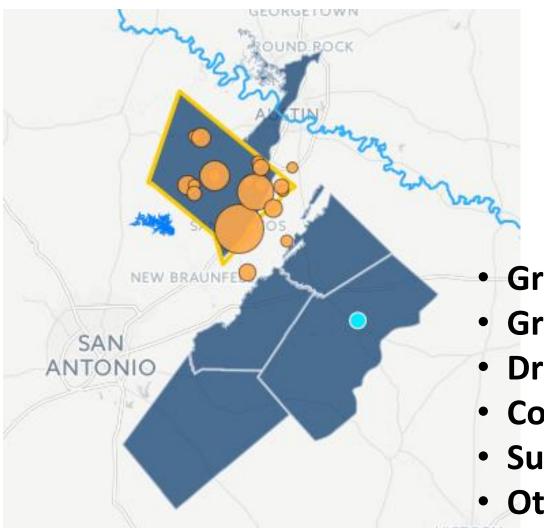
90,000 -

80,000 -

70,000 -

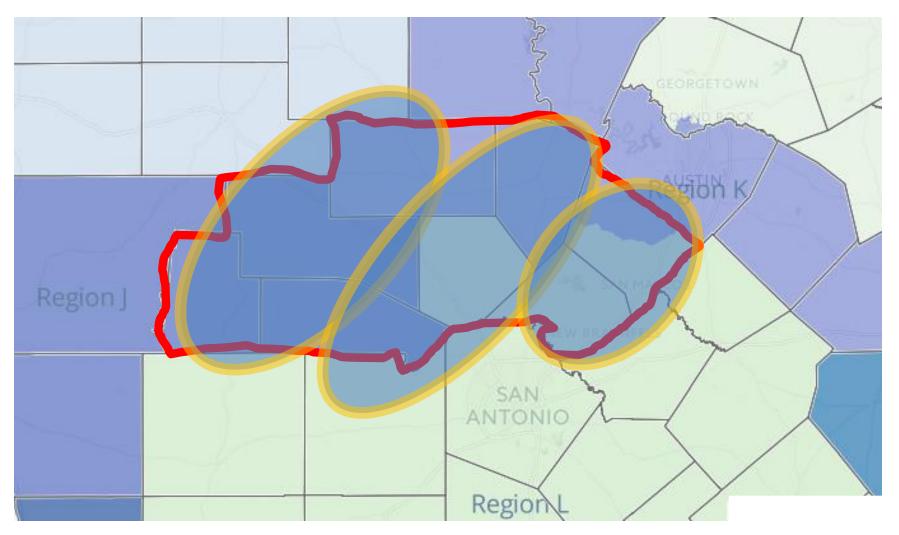


Hays County



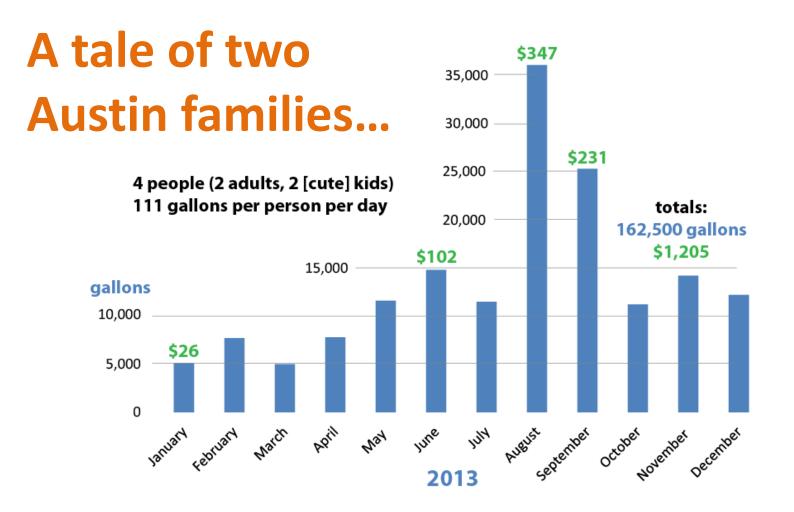
- Groundwater
- Groundwater desal
- Drought management
- Conservation
- Surface water
- Other surface water

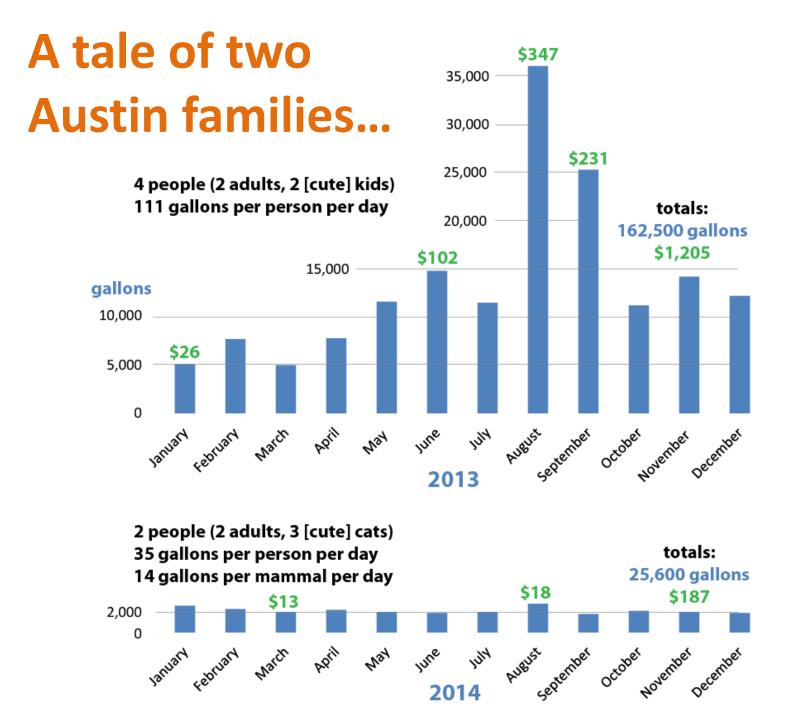
A gradient of impact...





- Conservation
- Reuse
- Rainwater/greywater harvesting
- Desalination (ground- & sea water)





It's understandable why some folks can be Kerrmudgeons and talk like Gillespithespians when someone is a **Bexarer** of perceived **Travisties**. There are no blank checks or **Blancostas** when solving water problems. But sometimes we need to think outside the box, gazing in deep thought at the stars through the Hayses sky like Banderastrolilarians (hopefully lathered in bug spray so we don't die of **Comalaria**...). At the end of the day, we need to be chill like Kendallilamas and work together as **Realists** to ensure **Texas** has enough

water for our future.



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