

the future of water in Texas

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presented at

Texas Waters Webinar

hosted by

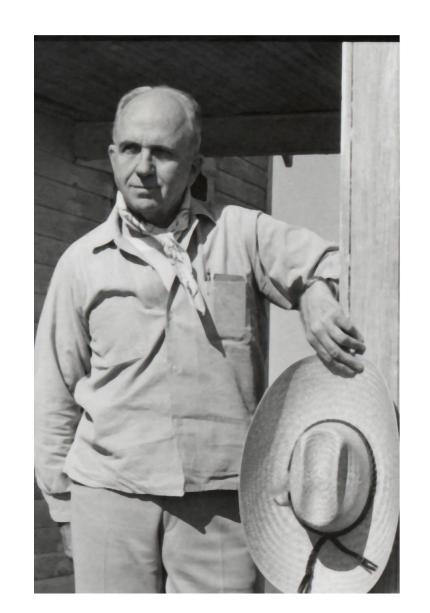
Texas Parks and Wildlife Department

via the Interwebs! August 13, 2025



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

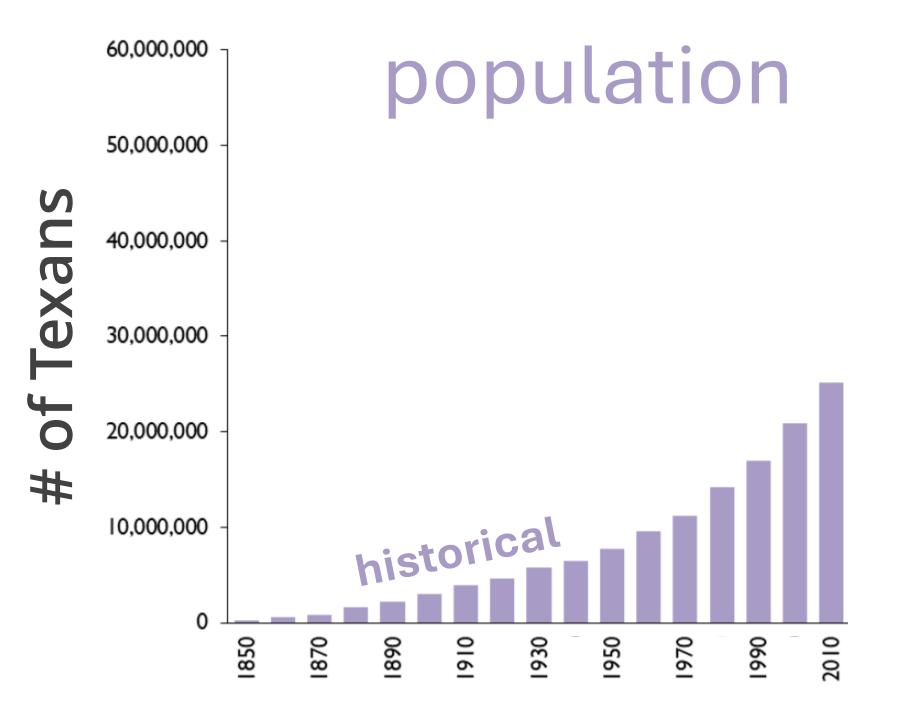
James A. Michener

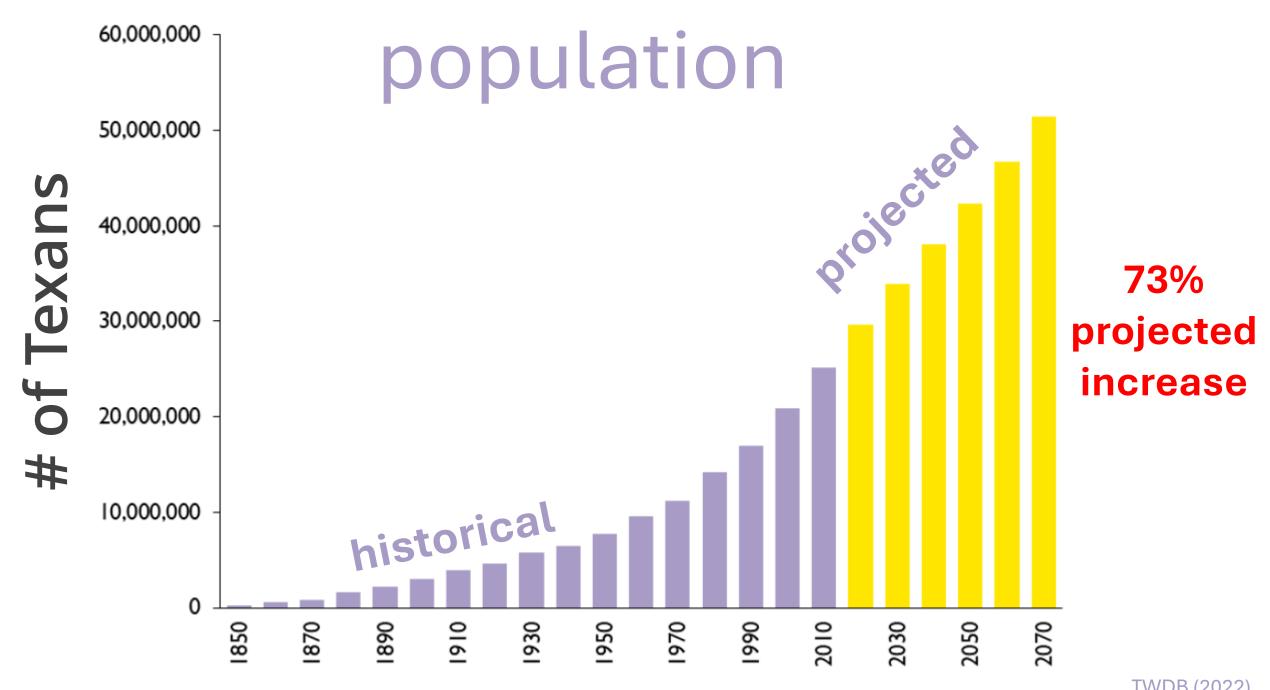


Are you worried about Texas having enough water?

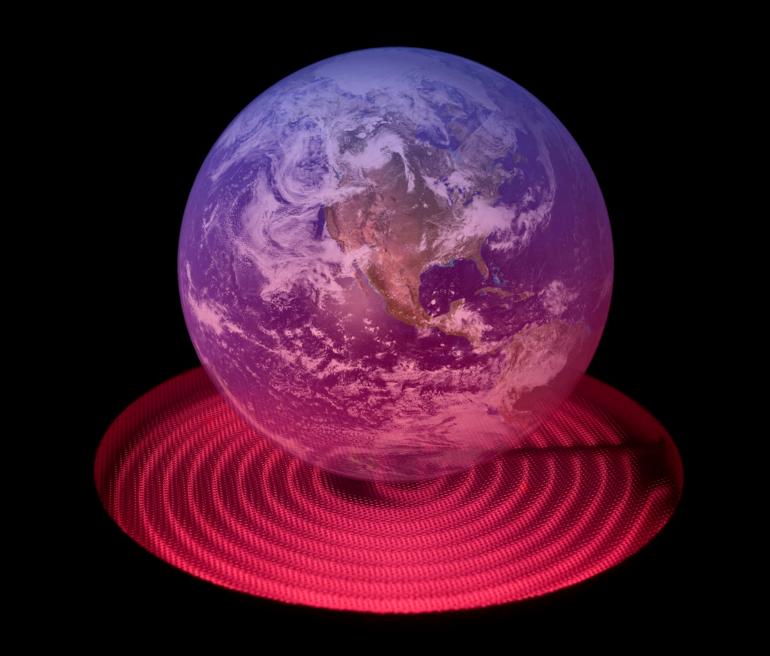
- A. Yes.
- B. No.
- C. Wha?



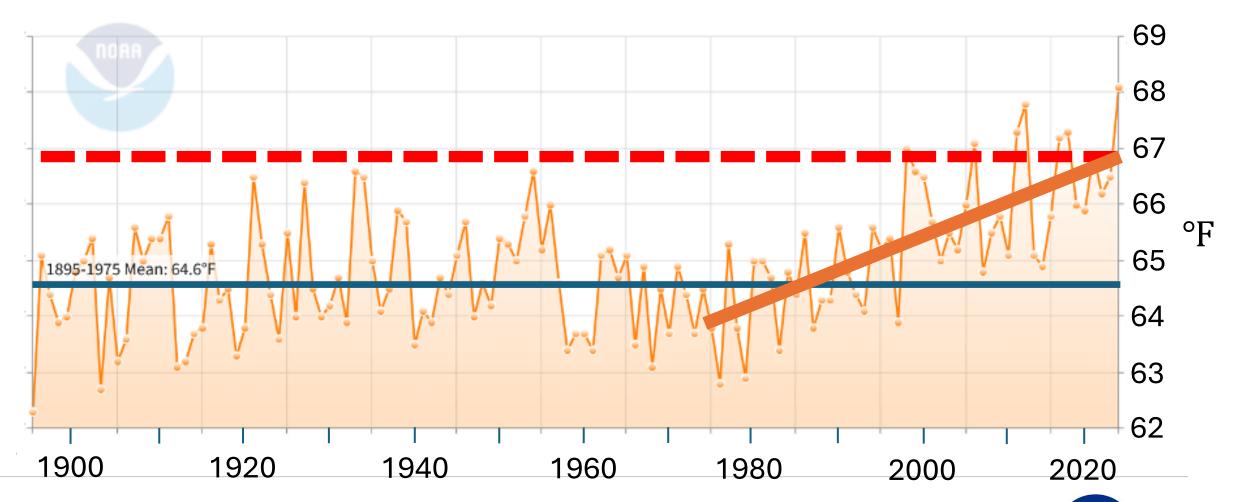


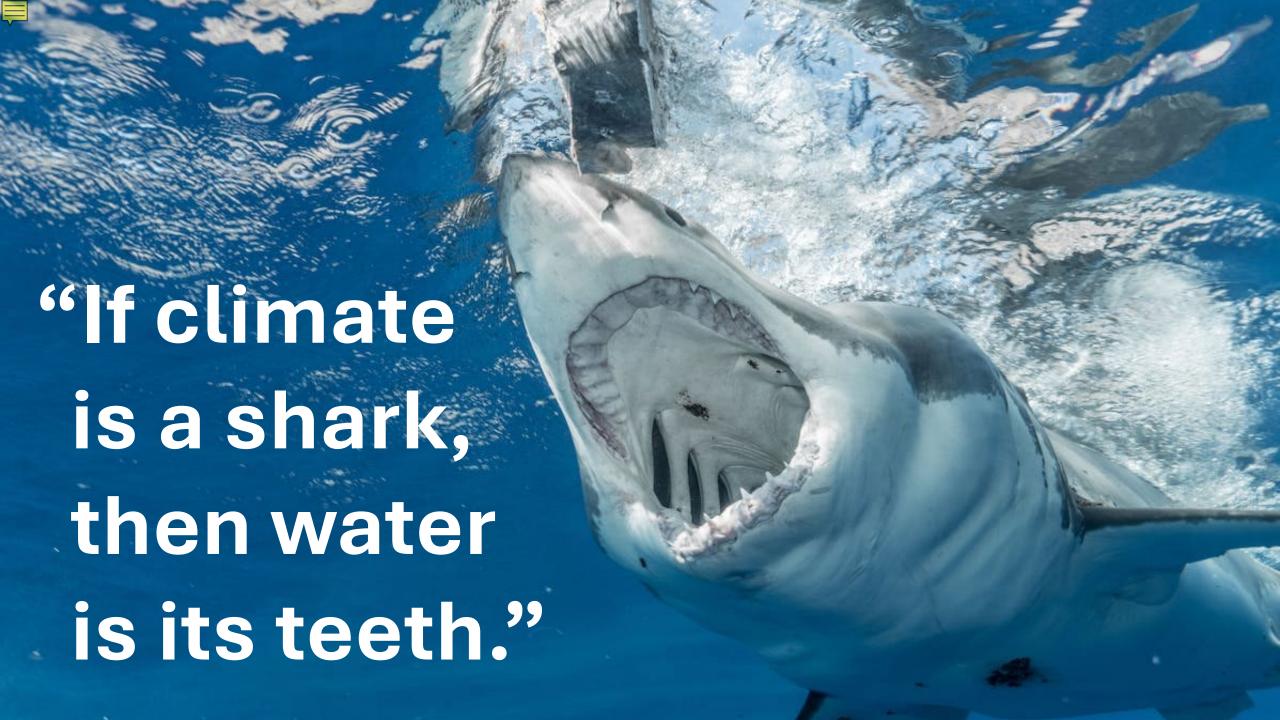






average annual temperature in Texas





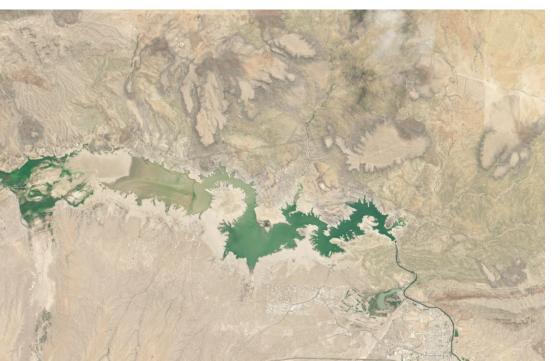




June 2, 1994

Elephant Butte Reservoir

July 9, 2013





Are you worried about Texas having enough water?

- A. Yes.
- B. No.
- C. Wha?



A tale of two families... 35,000 30,000 4 people (2 adults, 2 [cute] kids) 25,000 totals 111 gallons per person per day **162,500** gallons 20,000 15,000 gallons 10,000 5,000 0 F

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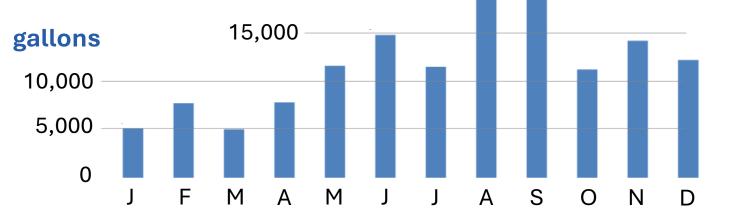
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A tale of two families...

4 people (2 adults, 2 [cute] kids) 111 gallons per person per day



35,000

30,000

25,000

20,000

2 people (2 adults, 8 [cute] cats)
35 gallons per person per day

7 gallons per mammal per day

totals 25,600 gallons

totals

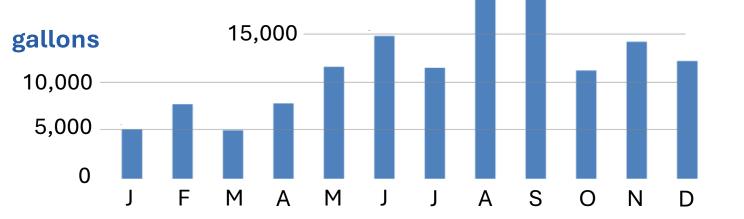
162,500 gallons





A tale of two families...

4 people (2 adults, 2 [cute] kids) 111 gallons per person per day



35,000

30,000

25,000

20,000

2 people (2 adults, 8 [cute] cats) 35 gallons per person per day

totals 25,600 gallons

totals

162,500 gallons



\$482 A tale of two families... 35,000 30,000 4 people (2 adults, 2 [cute] kids) 25,000 totals 111 gallons per person per day 162,500 gallons 20,000 \$1,676 \$141 15,000 gallons 10,000 \$36 5,000

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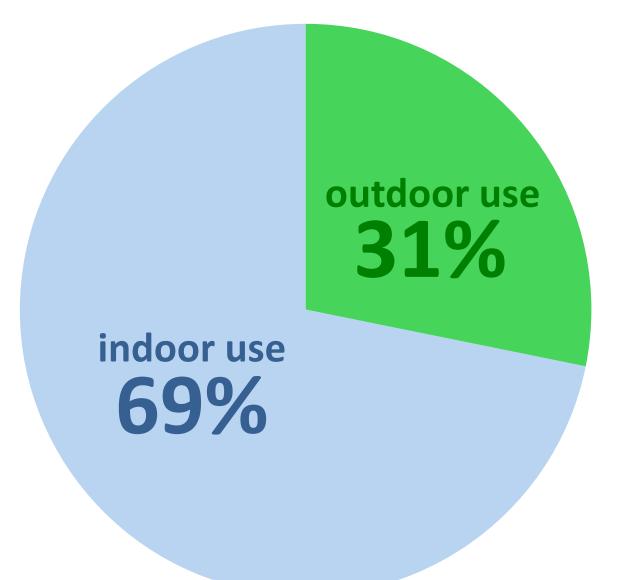
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Texas residential water use



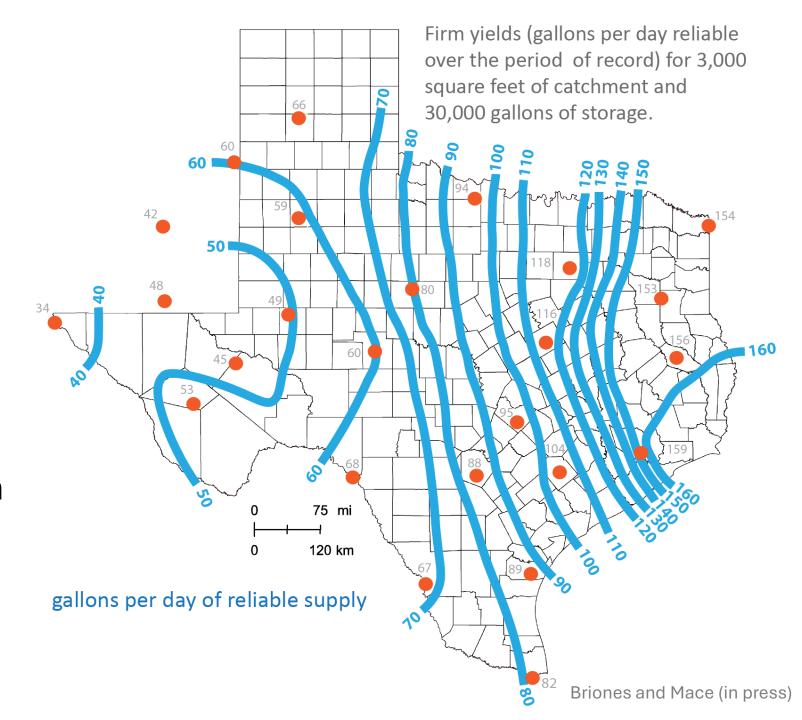
Average household water use in Texas: ~95 gallons per person per day (today ~80)





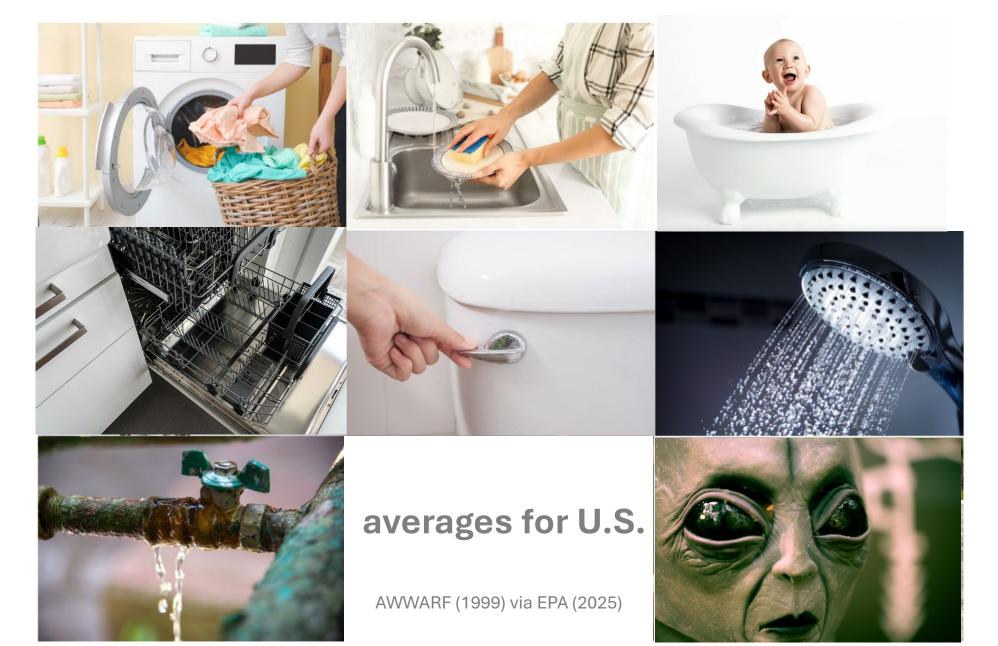
reliable rainwater harvesting

Can reliably provide a family of six with water in Houston with this system









- A. showers
- B. leaks
- C. washing machines
- D. toilets
- E. sinks
- F. Aliens!





















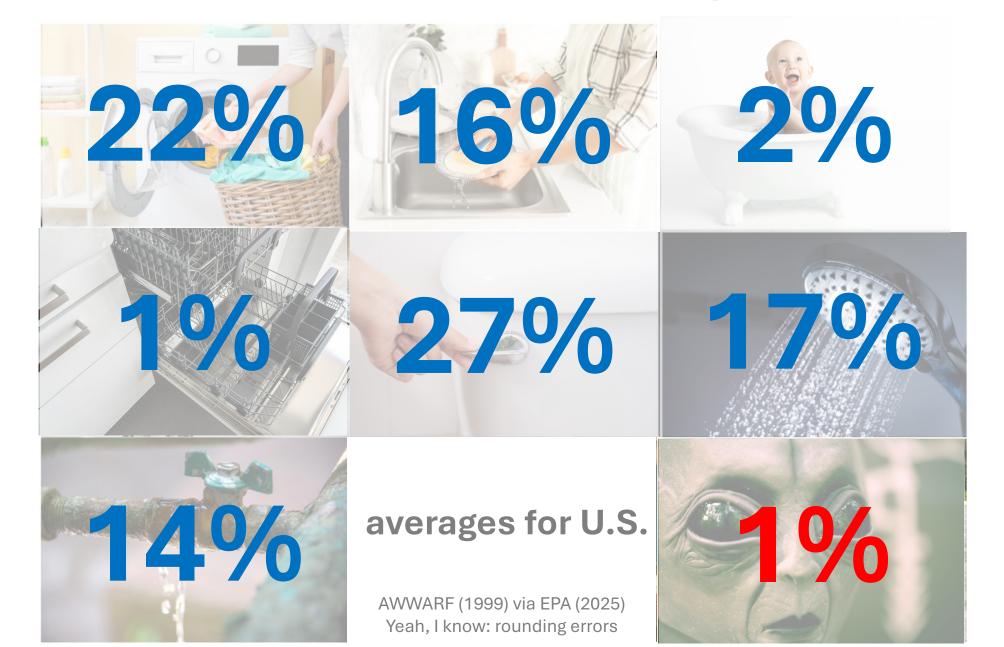












How much water is lost in transporting it from the treatment plant to your house?

- A. 1 gallons
- B. 12 gallons
- C. 132 gallons
- D. 51 gallons
- E. 3.7 gallons

Hidden Reservoirs: Addressing Water Loss in Texas

Jennifer Walker, Alan Wyatt, Jonathan Seefeldt, Danielle Goshen, Meghan Bock, Ian Johnston, Maya Black























- >0.5 billion gallons lost per day
 - ~3 Austins!
- ~51 gallons of water lost per day per home <u>before</u> <u>water enters your home</u>

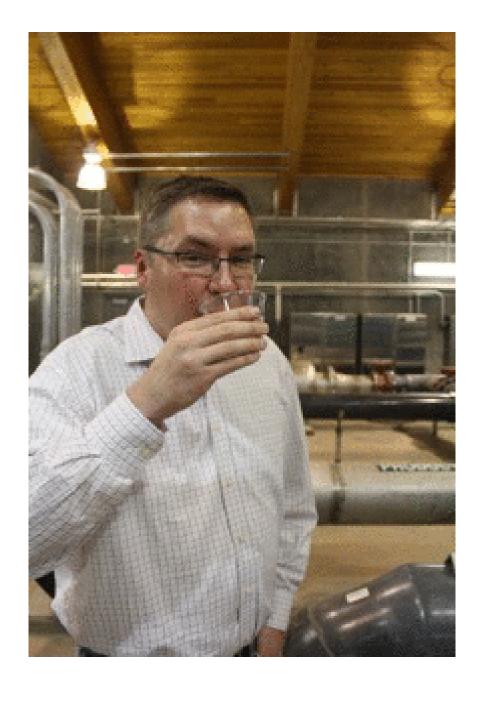


Statistically, at least one molecule of H2O out of every glass of water you ever drank once passed through a dinosaur.





Statistically at least one molecule of H2O out of every glass of water you ever drank once passed through Jerry Jones (if you live in Houston)



"I guess that means I get to drink my beer twice..."



Would you drink treated wastewater?

- A. No
- B. Yes
- C. With whiskey









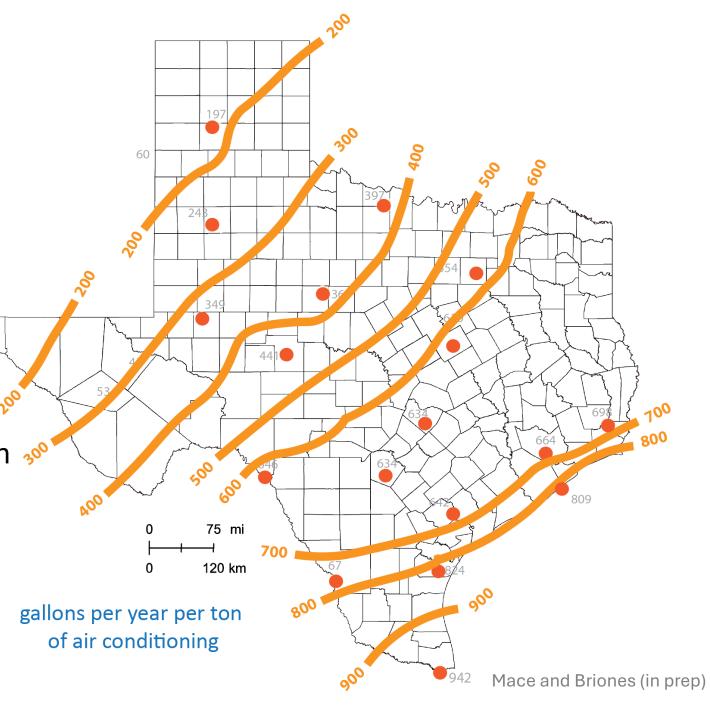


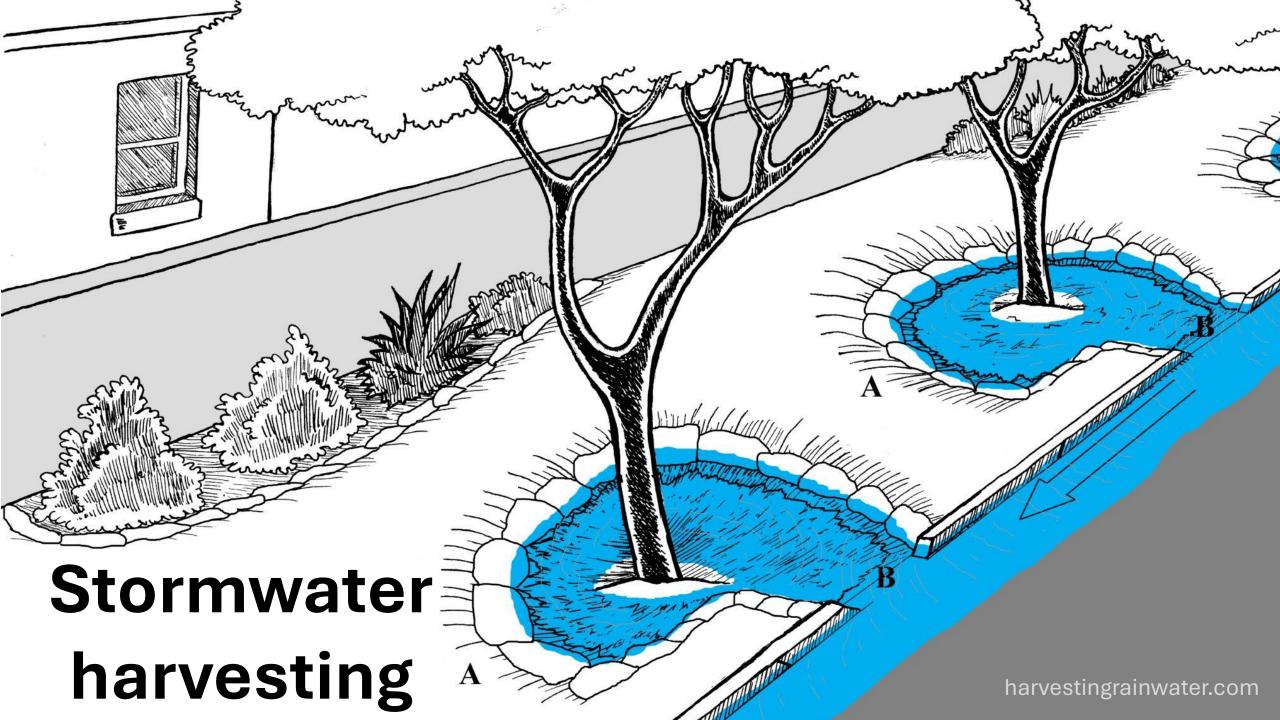


condensate harvesting potential

Greater Houston produces ~10 billion gallons of AC condensate a year That's about 10% of Houston's water use

or equivalent to six Katys

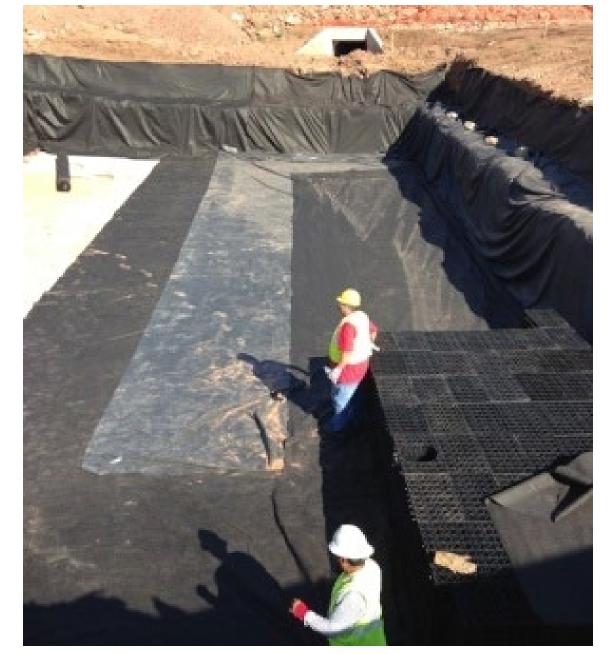




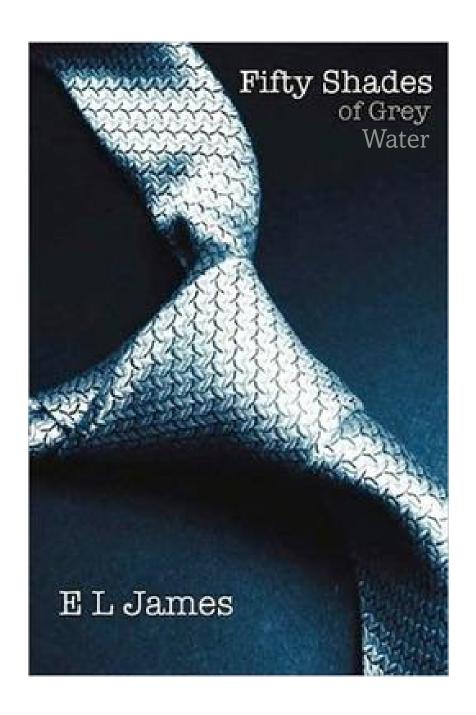


stormwater harvesting

- Wichita Falls airport
- 2.7 million gallons a year
- 10-year return on investment



Wichita Falls

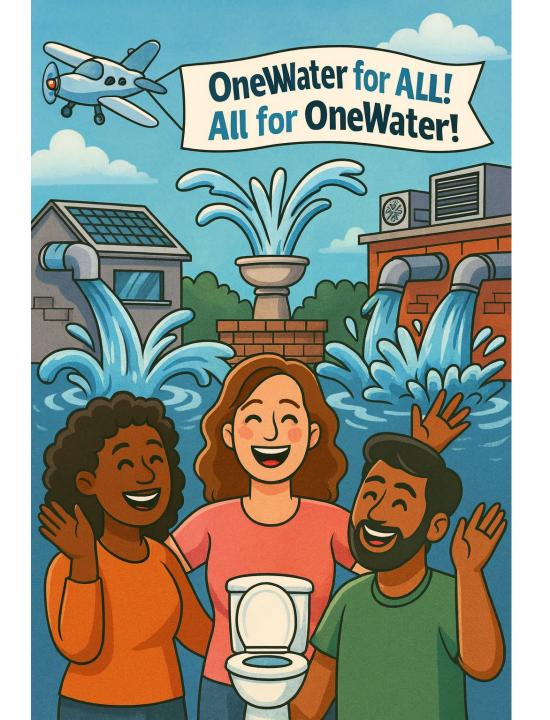






- First One Water school in Texas
- Rainwater and AC condensate collection
- On-site treatment and reuse system
- Reduces use of the Trinity Aquifer by 90 percent
- Will save \$800,000 over 30 years in utilities









questions?

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