

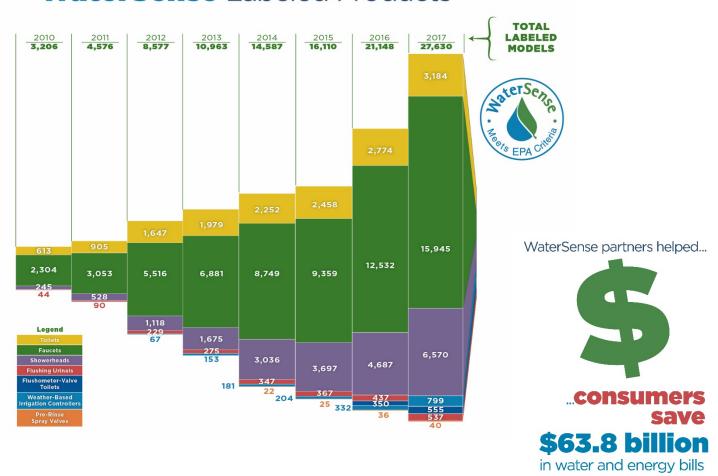


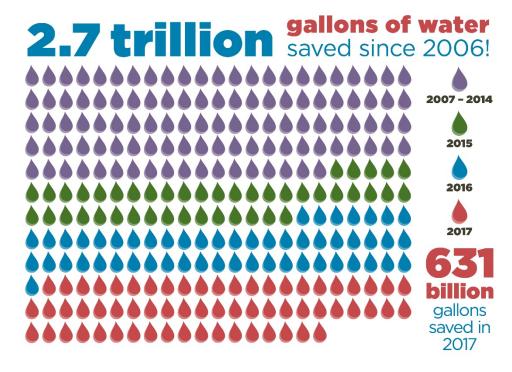


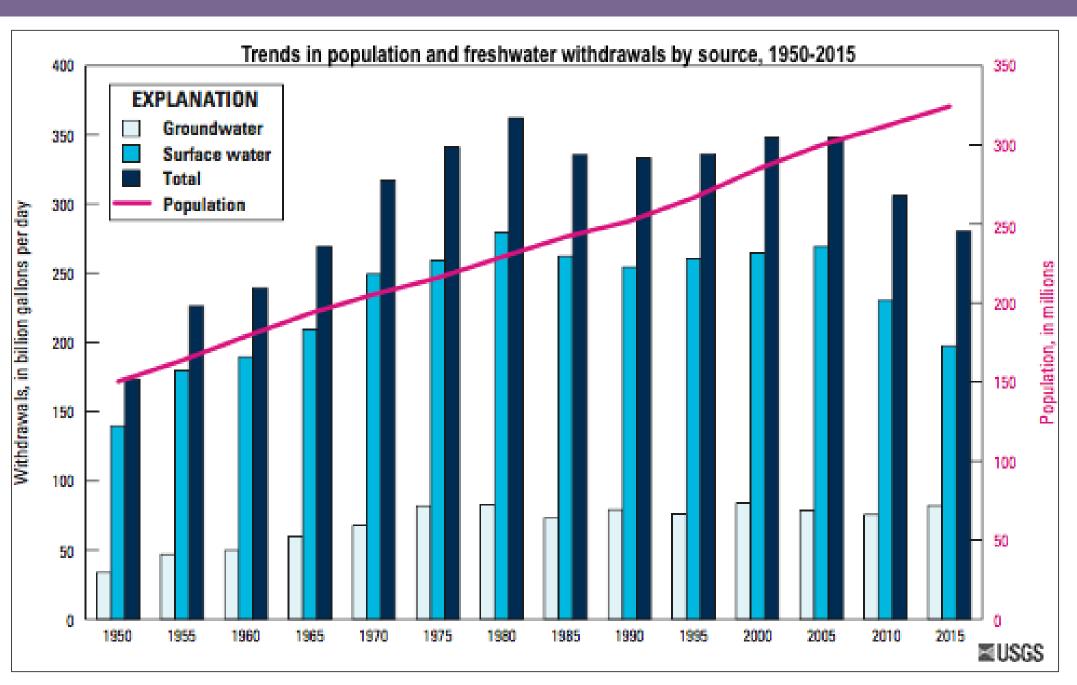


Our Job is to Save Water

WaterSense Labeled Products







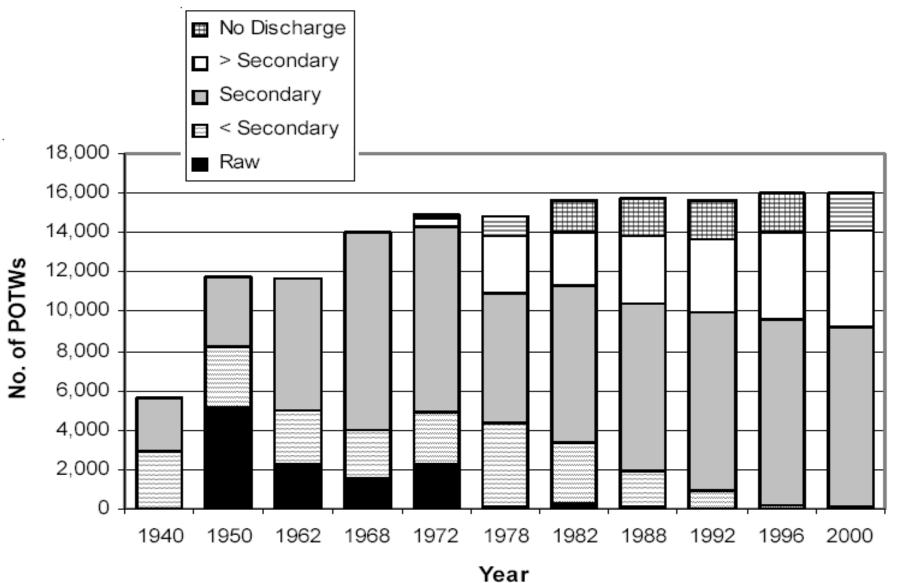


Overall
Water
Demand
in the
US

Image source: USGS

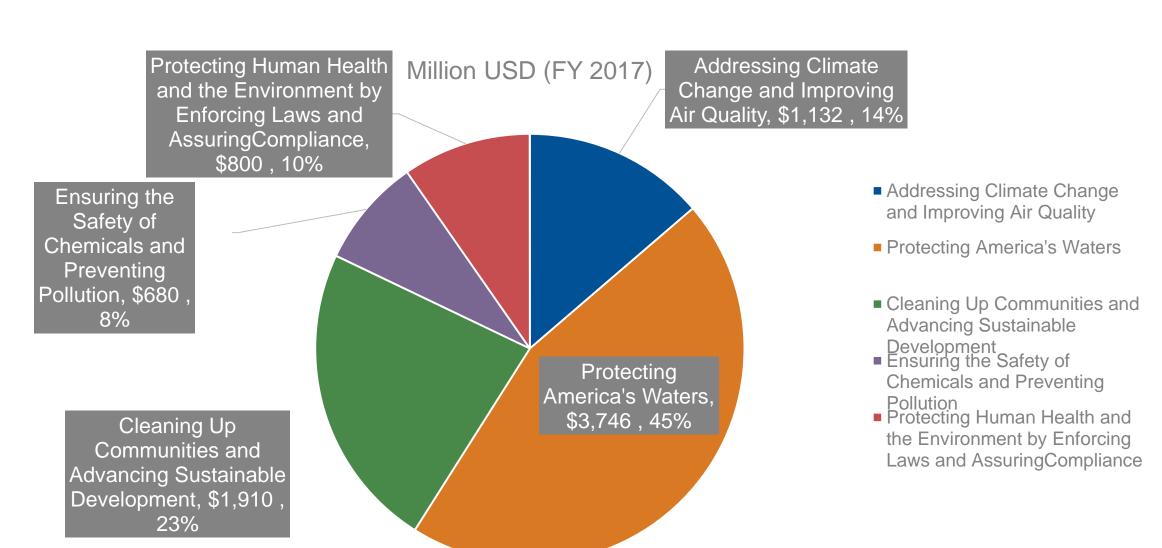


Water Demand in the US





Where Does EPA's Money Go?



Source: US EPA FY 17 Budget in Brief



A Drop in the Bucket...

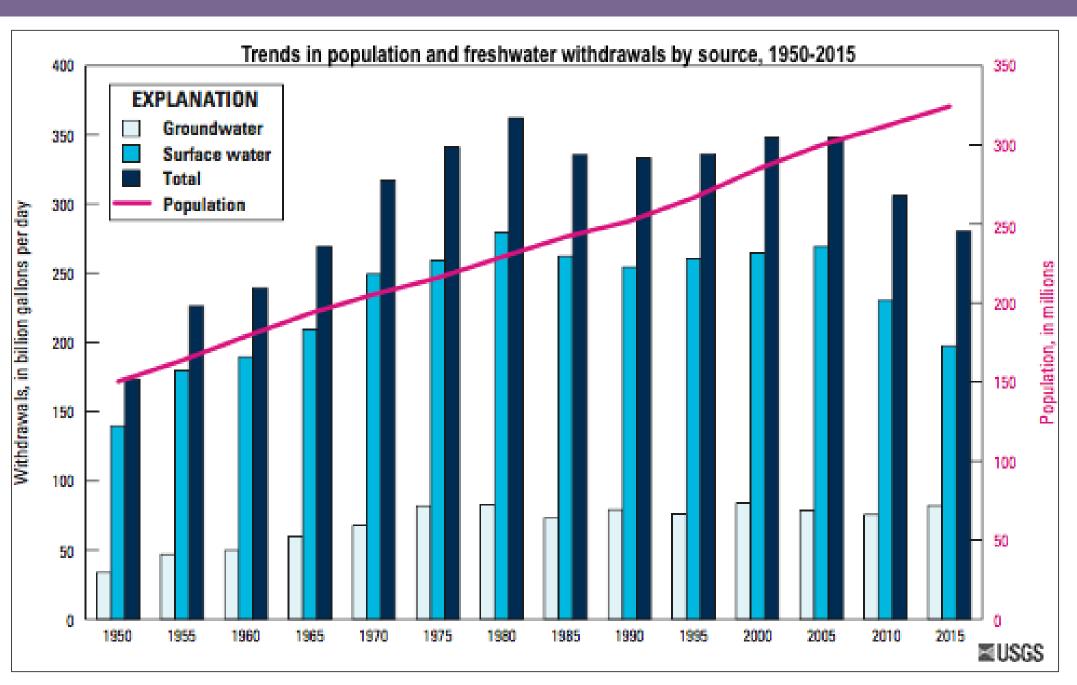
According to the American Society of Engineers (ASCE) estimate to:

- Maintain and expand one million miles of pipes
- Address an 240,000 water main breaks per year
- Stop the loss of two trillion gallons of treated water per year

\$1 Trillion IN INVESTMENT IS NEEDED

to maintain and expand service to meet demands over the next

25 years

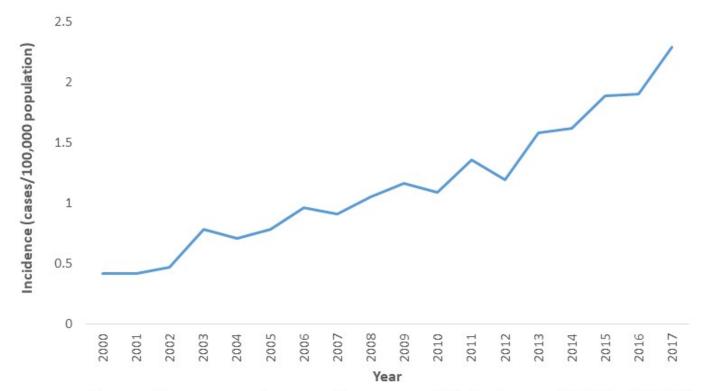




Overall
Water
Demand
in the
US

Image source: USGS





Rate of reported cases increased 5.5 times (2000–2017)

Source: National Notifiable Diseases Surveillance System



- 7,500 documented cases in 2017
 - Actual number could be much higher
 - 1/10 cases is fatal.
- Influenza killed roughly 80,000 people last year
- 88,000 die from alcoholrelated deaths each year
- >800,000 global deaths a year from improper water and sanitation

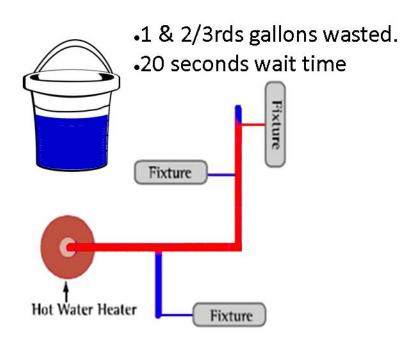


20 18 16 Gallons per capita per day (gpcd) 14 12 10 8 6 0 Clothes Dishwasher Toilet Shower Faucet Leak Other Bath washer ■ REU1999 18.5 11.6 10.9 9.5 15.0 1.6 1.2 1.0 14.2 9.6 11.1 7.9 2.5 1.5 ■ REU2016 11.1 0.7

How We Use Water IS Changing

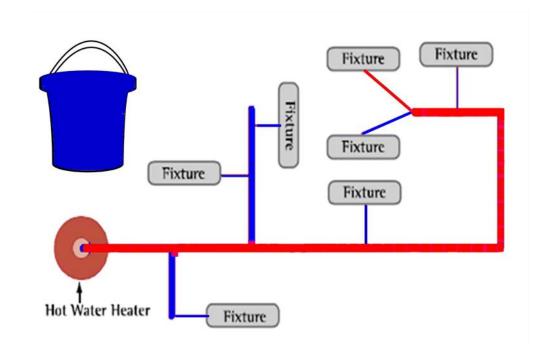












- •3 gallons wasted
- •1 minute 30 seconds wait time

How has this changed how water moves through our buildings?
How has it influenced residency times?



- Conversations on this topic tend to be polarizing
 - Onsite pathogens aren't a big deal
 - Efficiency is bad because it allows opportunistic pathogens to thrive



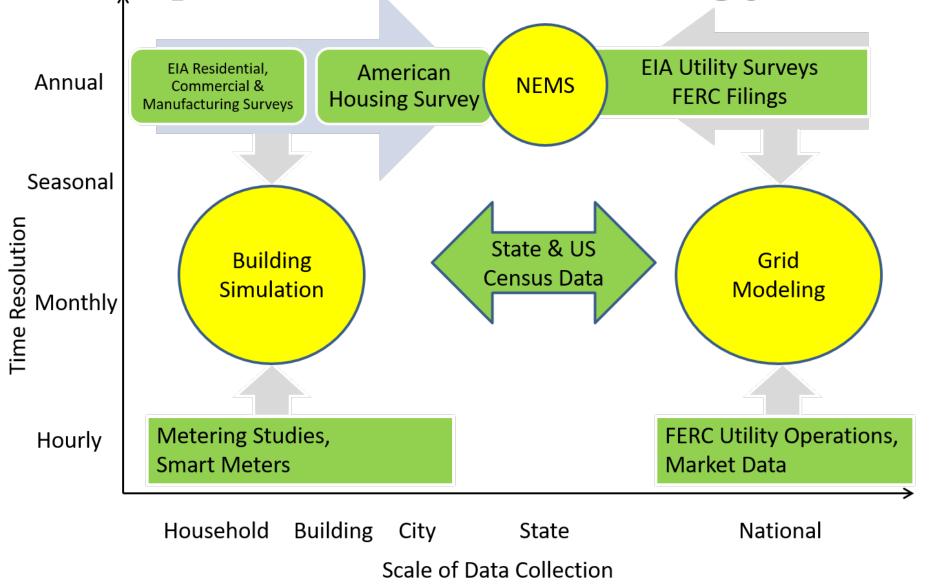
- Conversations on this topic tend to be polarizing
 - Onsite pathogens aren't a big deal
 - Efficiency is bad because it allows opportunistic pathogens to thrive
 - Doing nothing about onsite pathogens is a poor strategy
 - Using water so intensely that nothing has the opportunity to grow is also a poor strategy



- Conversations on this topic tend to be polarizing
 - Onsite pathogens aren't a big deal
 - Efficiency is bad because it allows opportunistic pathogens to thrive
 - Doing nothing about onsite pathogens is a poor strategy
 - Using water so intensely that nothing has the opportunity to grow is also a poor strategy
- We tend to focus too much on residential
 - This may not be where the priority issues lay

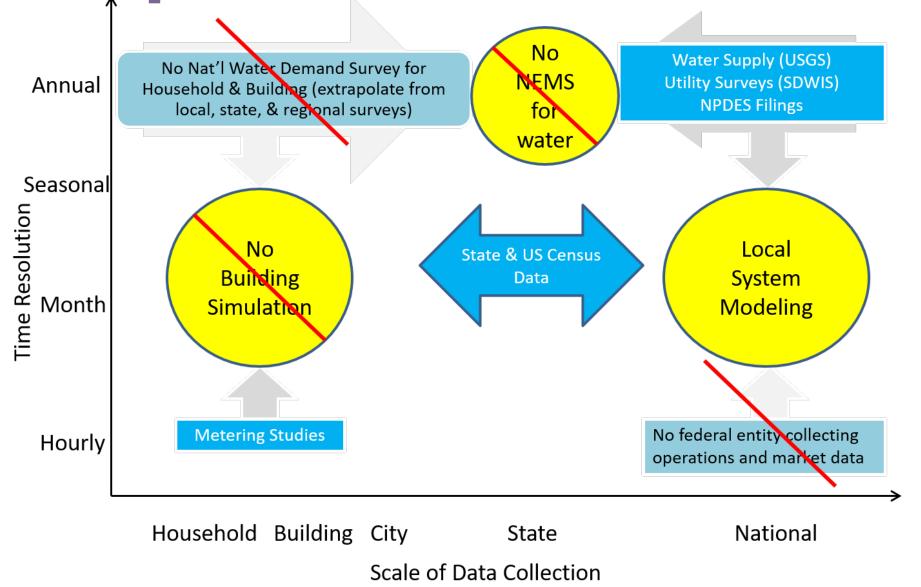


Scope of Available Energy Data





Scope of Available Water Data





- Conversations on this topic tend to be polarizing
 - Onsite pathogens aren't a big deal
 - Efficiency is bad because it allows opportunistic pathogens to thrive
 - Doing nothing about onsite pathogens is a poor strategy
 - Using water so intensely that nothing has the opportunity to grow is also a poor strategy
- We tend to focus too much on residential
 - This may not be where the priority issues are
- We're at the beginning of this journey



Thank You!

Jonah Schein | Schein.Jonah@epa.gov

WaterSense Helpline

Email: watersense@epa.gov

Phone: (866) WTR-SENS (987-7367)



