This presentation premiered at WaterSmart Innovations

watersmartinnovations.com





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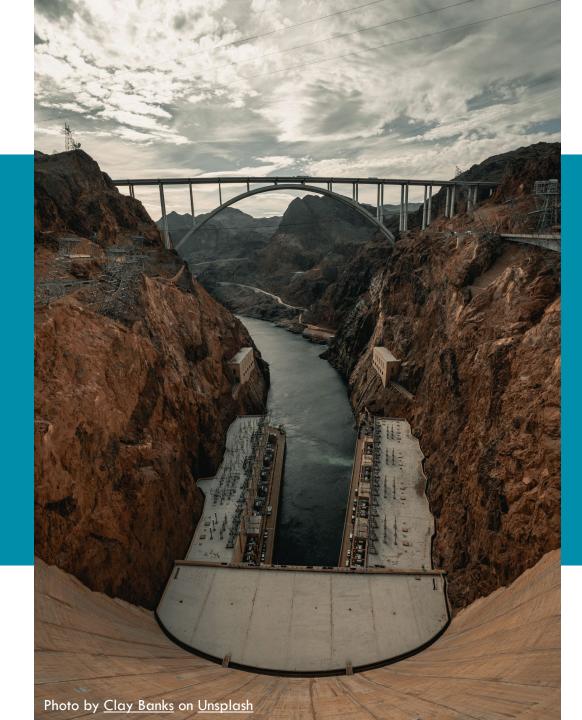


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Multi-Family Water Use Patterns in Tucson, AZ and Beyond October 7, 2021

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Water use guidelines in Tucson

- One Water / drought context for conservation
- Developing guidelines
- Multi Family analysis
- Next steps

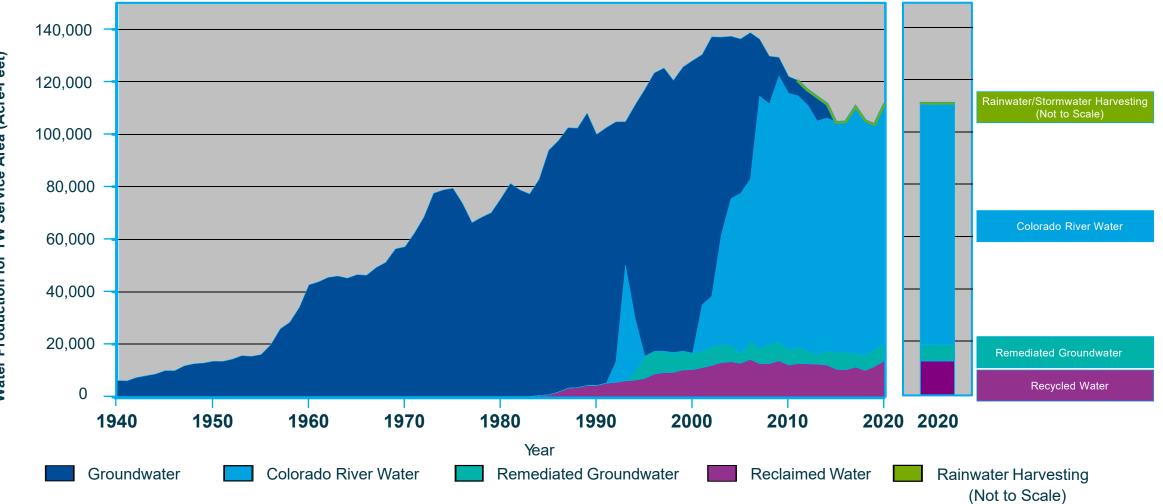


Tucson takes an integrated water resource management approach; recognizing that all water has value

onewatertucson.com



Water Production for Tucson Water Service Area (1940-2020)





DROUGHT PREPAREDNESS AND RESPONSE PLAN

Original Plan Approved: November 28, 2006 Ordinance Approved: March 20, 2007 October 2020 Update Required by A.R.S. §45-342, submitted to Arizona Department of Water Resources every five years

Originally approved in 2006, minor updates in 2012 and 2017

Key updates in 2020:

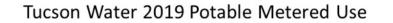
- Drought stages and thresholds are now aligned with the 2019 Drought Contingency Plan tiers
- Demonstrating how the Utility has diversified its water supply portfolio, increased water savings, and improved infrastructure redundancy
- Integrating climate change adaptation planning into the drought plan and One Water 2100
- Streamlining the drought responses and incorporating a strategic, data driven approach (water use guidelines)

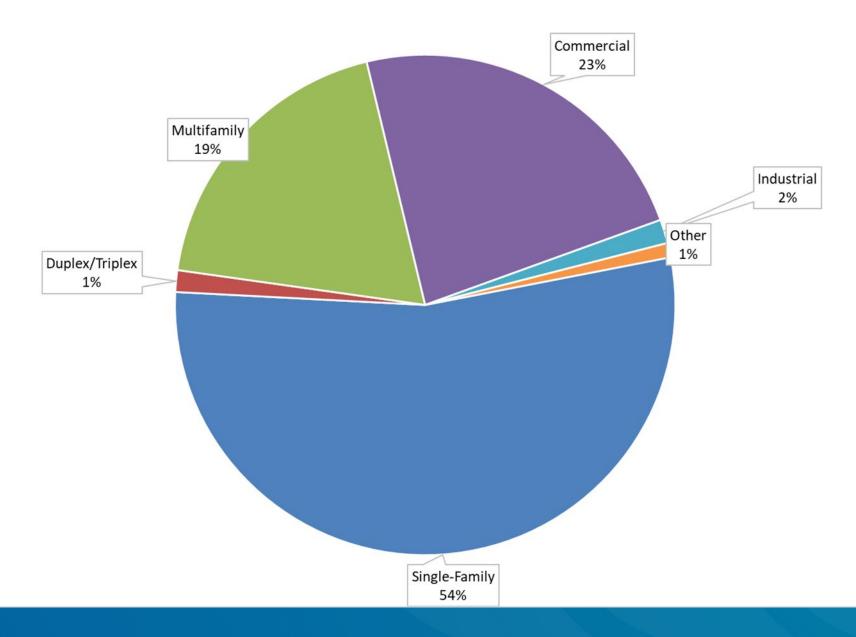




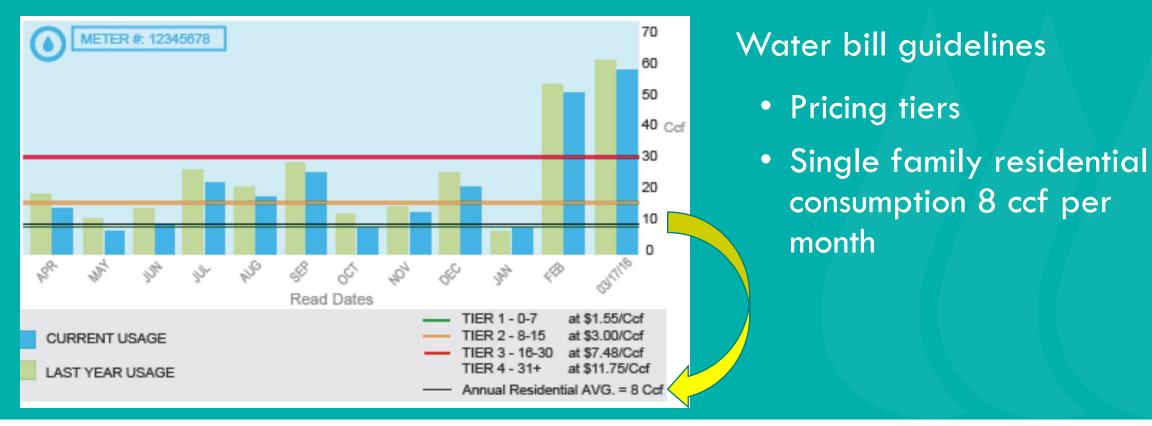
Developing water use guidelines















Water Use in the Multi Family Sector, 2018

Average Annual Gallons per Unit per Day



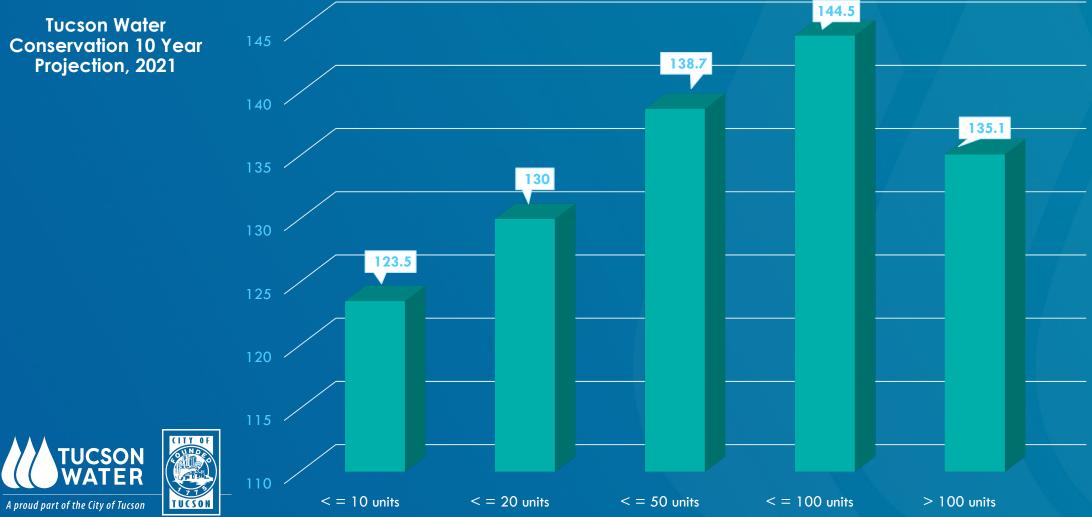


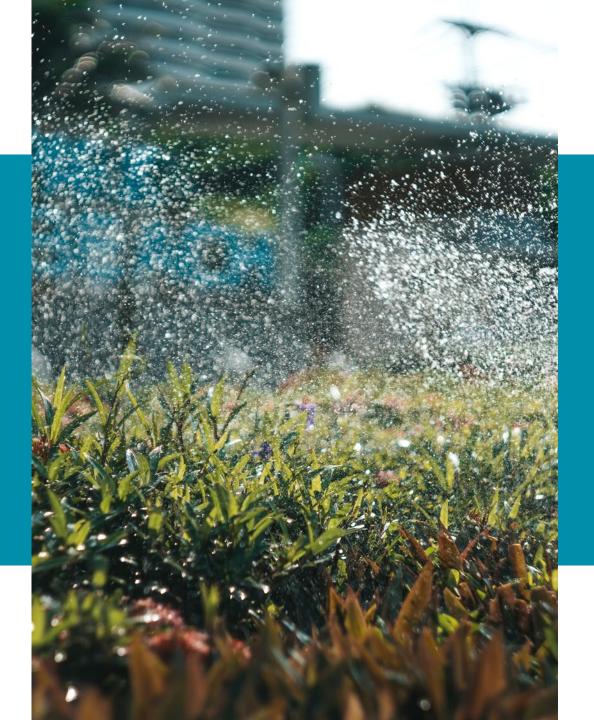




Multi Family Complexes of Different Sizes

Average Annual Gallons per Unit per Day





Conclusions

- Multi family consumption is typically lower than single family consumption
- Less seasonal water use than single family
- Larger complexes with more amenities use more water per unit

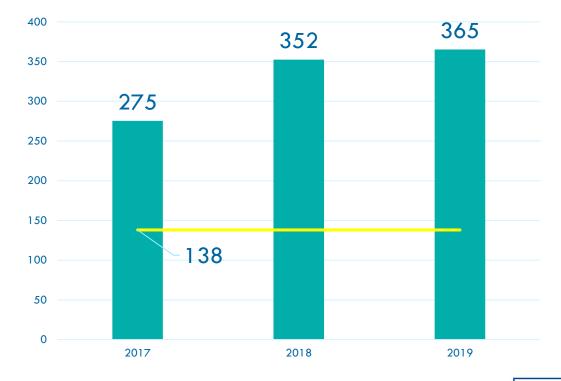


Communicating the guidelines to Multi Family customers

Large complex (301 units)



Small complex (23 units)





Next steps:

- 1. Drought communications
- 2. Residential guidelines
- 3. Large customer guidelines



- Tucson has enough water to thrive, but never enough to waste
- Conservation has made our community more resilient, allowing us to save decades of water in the ground
- Get involved with One Water 2100 to help us plan for the future



Alliance for Water Efficiency's Home Water Works Calculator

https://www.homewaterworks.org/calculator



Landscape Water Budget App for Large Customers







Calculator Water Conservation Tips Indoor Water Use Landscape & Irrigation Water & Energy For Teachers Plumbing Handbook About Us



Home

Water Calculator

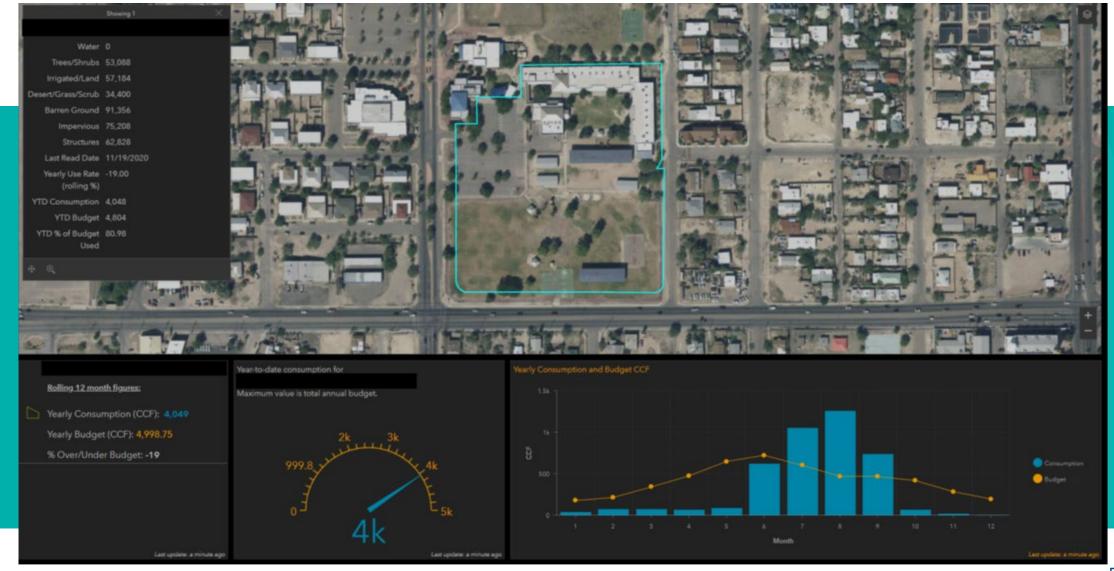
How much water do I use? How do I compare? How can I conserve?

Home water conservation is easy once you understand how and where you can use less. The quick and easy Water Calculator shows you which water uses in your home are efficient and which are not and offers simple conservation tips that save water and energy.









Large customer water use guidelines incorporate GIS and consumption data to create a budget





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Thank you 💿 Any questions?