WHY ARE WE HERE?
CHANGES IN URBAN WATER DEMANDS
CHALLENGE WATER PROVIDERS

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Urban Water Demand Roundtable
April 18, 2013
Where did the demand go?

- Residential water use has declined.
- In 2008 a typical household used \(~ 12,000\) gallons less than in 1978 (Coomes, P. et. al. 2010).
- Significant demand reductions were observed prior to recession.

Utilities get Serious about Demand Management

M.D. SHELTON
Forecasts Consistently Over-Estimate Future Demands
WRF 4309 - Residential End Uses of Water Study Update

- 9 end use study sites
- Billing data from 20+ study sites
- Extensive statistical analysis of indoor and outdoor water use.
- Conservation saturation rates.
- Outdoor water use.
- Key factors that influence water use.
- Final report coming in 2014
- www.aquacraft.com
2010 Annual Water Use Comparison (kgal)
3 Sites Participated in Both REUWS Projects
Normalized Water Use for Household of 3 People - REUWS Update
Homes Meeting Efficiency Criteria
Toilet < 2.0 gpf, Clothes washer <30 gal/load
Summary

- **Technological change** - Residential indoor water use has declined and will continue to decline.
- **Temporary change?** - Residential outdoor water use has also declined in some regions, but long term trends are not certain.
THANK YOU

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