

A long time ago in a conference room far, far away...

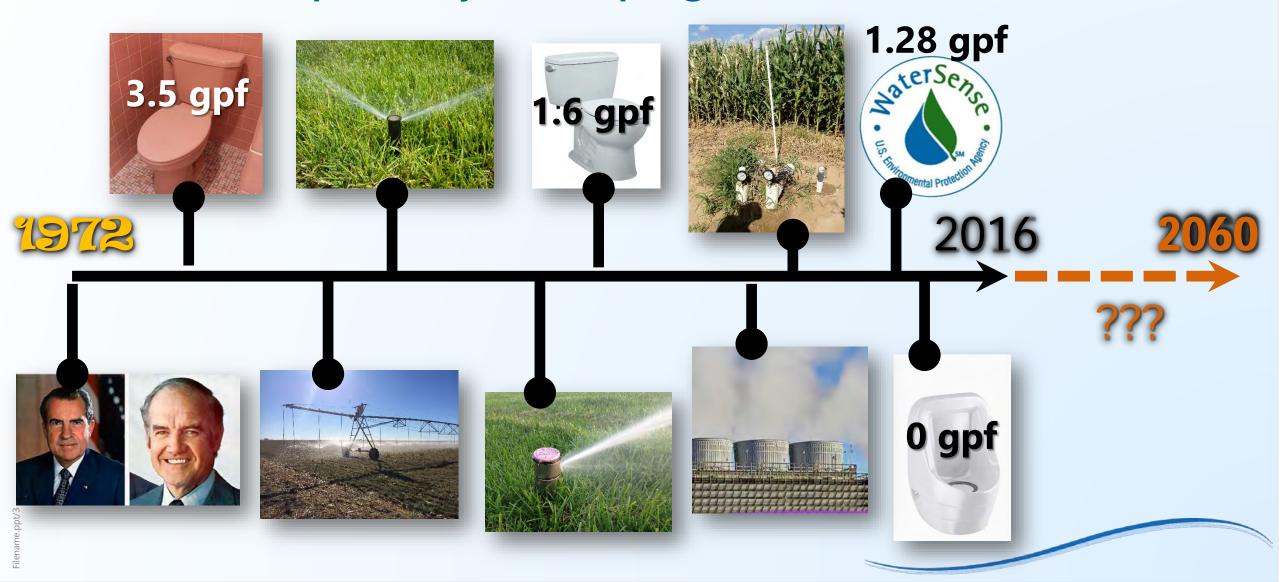
Episode XI A NEW SUPPLY

It is a time of extreme drought. Brave Water Providers and Users are desperate to stave off crisis.

Banding together with regulators, they fill the WATER SUPPLY gap with local supplies.

conserving water, safely

What's possible 44 years from now... in 2060? Consider the past 44 years of progress!





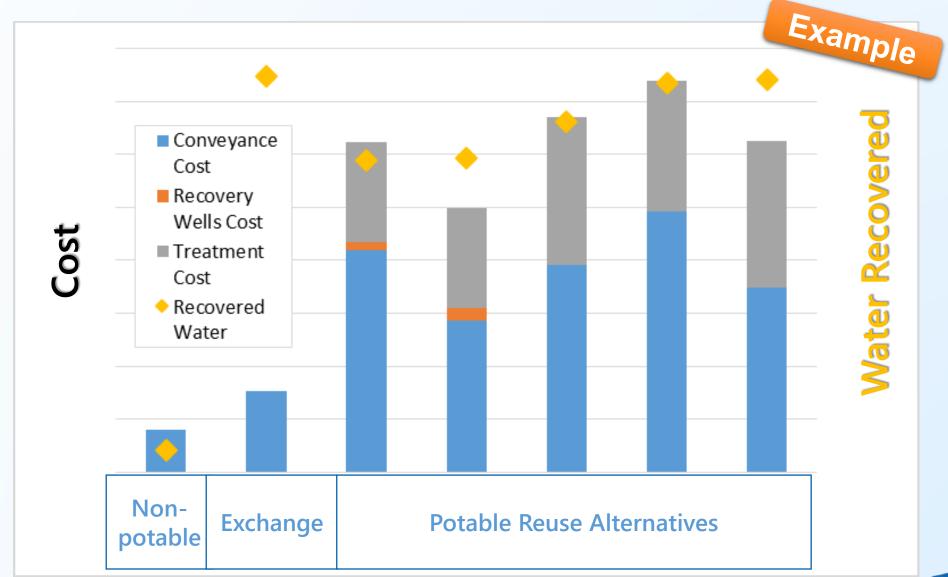


Water Reuse "Yield" Varies with the Type of Reuse

Type of Reuse		Typical Water Supply Benefit	Considerations
	rigation Ion-Potable		Seasonal demandLimited sitesInfrastructure
In	ommercial / ndustrial <i>Ion-Potable</i>		Limited sitesInfrastructureSupply/demand proximity
A	Vater Supply Lugmentation Potable		Supply > demandPublic outreach/acceptanceRegulations & treatment

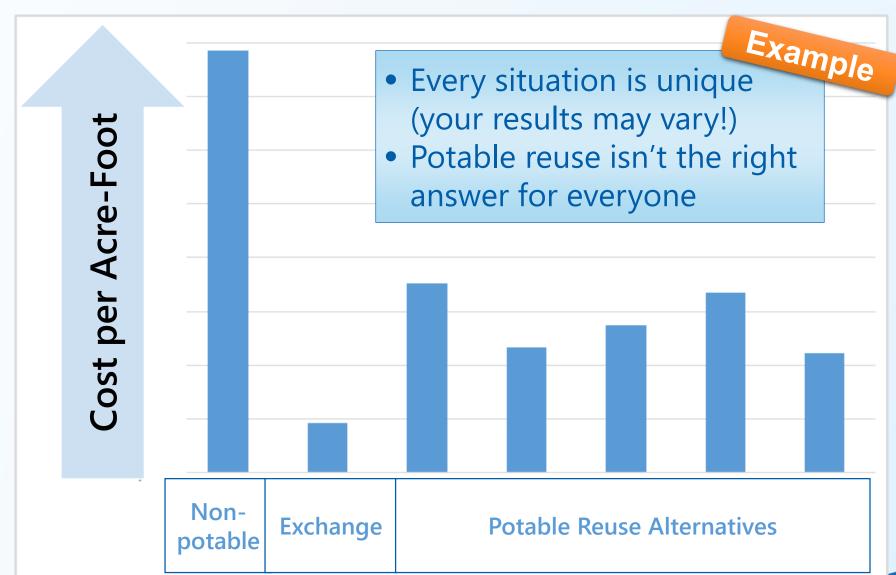


Water Reuse: Cost vs. Cost-Effectiveness





Water Reuse: Cost vs. Cost-Effectiveness





Water for 2060 Showcase



Paving the Road to Efficiency in Oklahoma

Walking the Walk

Water for 2060 Innovation





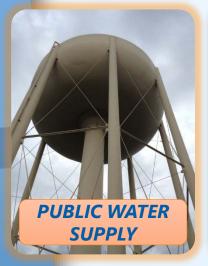


Paving the Way for Water Efficiency in Oklahoma

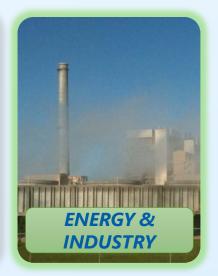
Report of the

Oklahoma Water for 2060 Advisory Council

October 2015

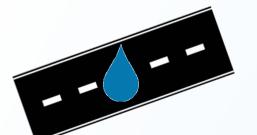




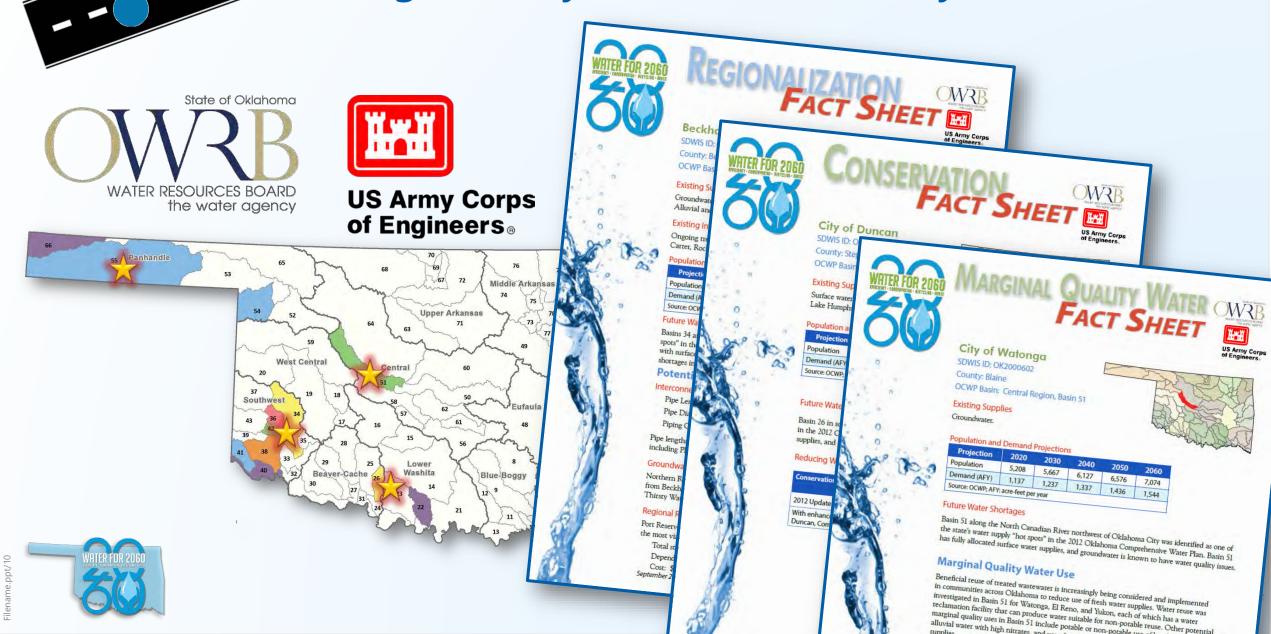








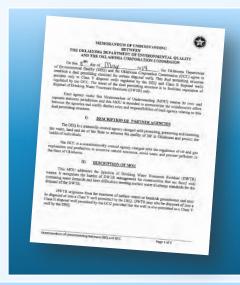
Paving the Way for Water Efficiency in Oklahoma





Paving the Way for Water Efficiency in Oklahoma





ODEQ / OCC MOU

 Management of drinking water treatment residuals

ODEQ Reuse Regulations



- Non-potable reuse
- Category 6 and Oil & Gas Uses
- Developing potable reuse regs (Category 1)

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Walking the Walk



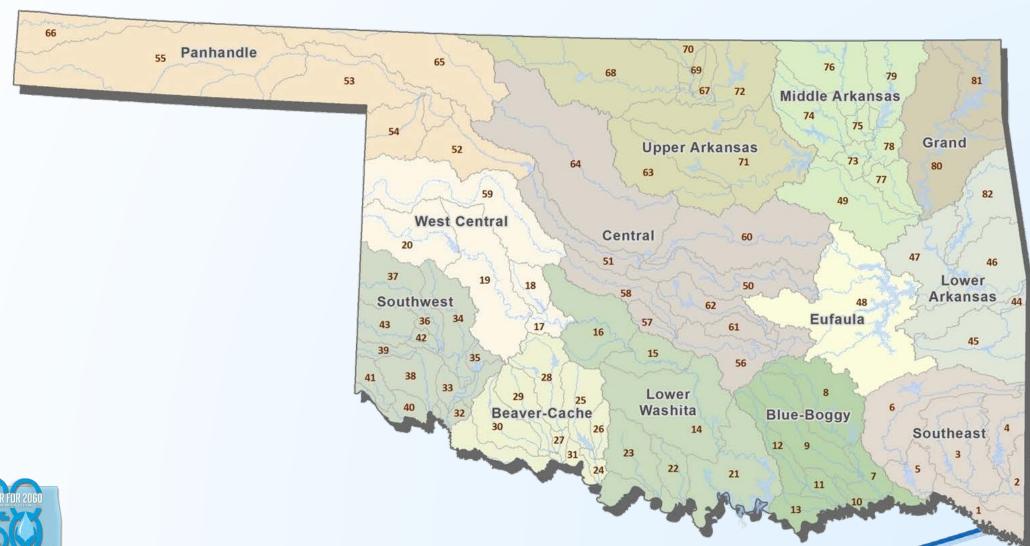
Water for 2060 Innovation







Walking the Walk

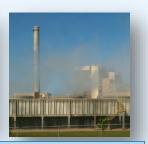




Walking the Walk: Water Reuse Across Oklahoma









Industrial water supply



Reuse of flowback and produced water



Centra

 Golf course irrigation

Cooling tower water supply



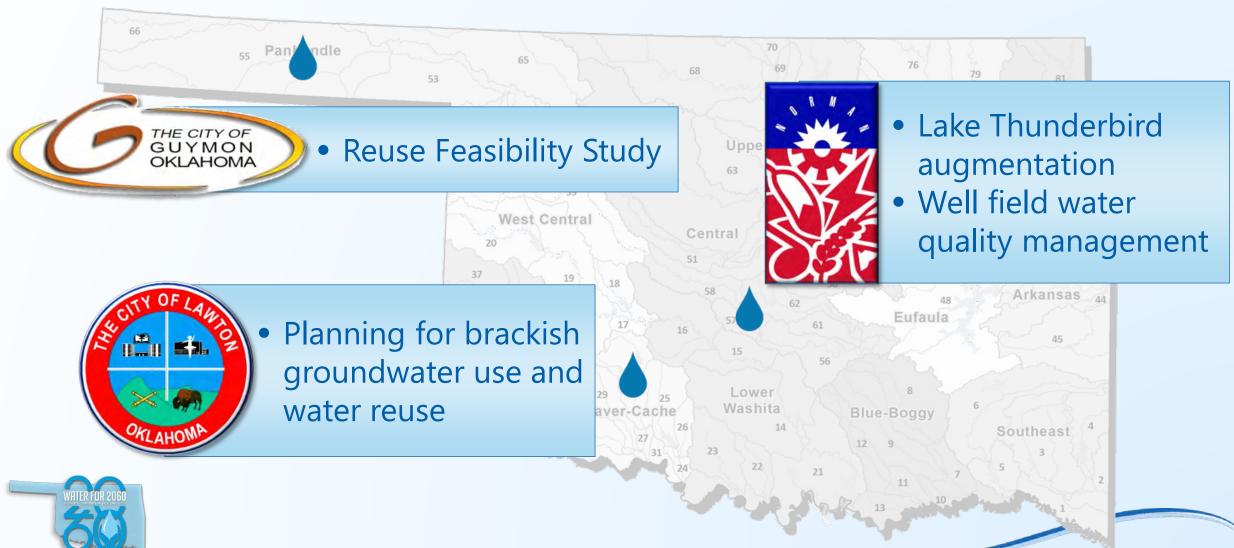
• Golf course irrigation

Arkansas





Walking the Walk: Water Reuse and Marginal Quality Water Use Planning





Walking the Walk: OWRB Financial Assistance Division Support and New Water Partnerships

Drought Relief Grants (Guymon, Hollis, Altus, Tipton)

Water for 2060 Grants (Shattuck, Fort Supply, Boise City, Frontier DA)

Automated Meter Reading projects under CWSRF (Broken Arrow, Eufaula, Perkins, Tuttle, Porum)

Regional treatment plant - Flint Ridge RWD (to serve Flint Ridge, West Siloam Springs, Kansas, and Delaware Co. #11)

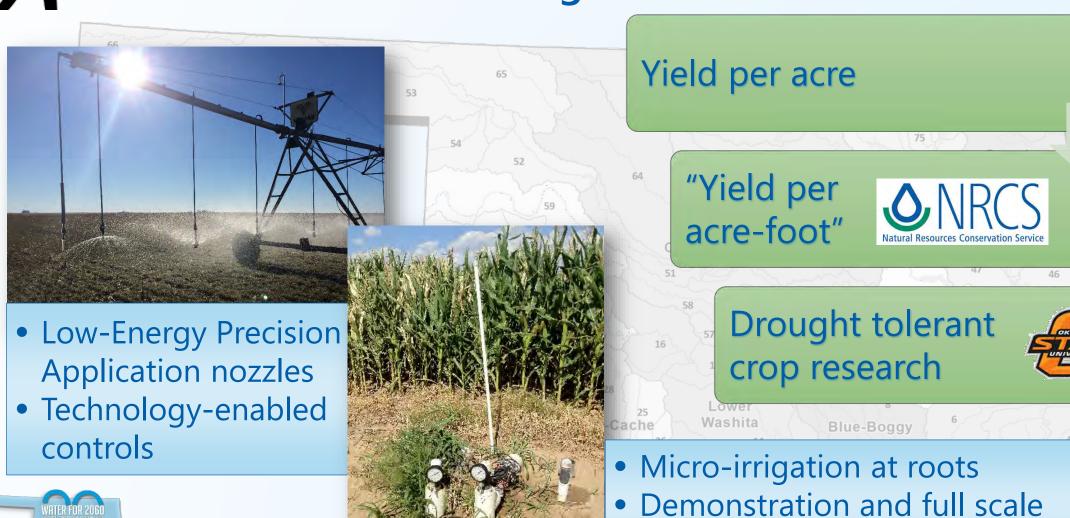
Support for advanced treatment facilities to use marginal quality supplies

Cooperative Planning Tool





Walking the Walk: Water Efficiencies in Agriculture



Yield optimization





Walking the Walk: Collaborative Planning for Multiple-Benefit Water Management

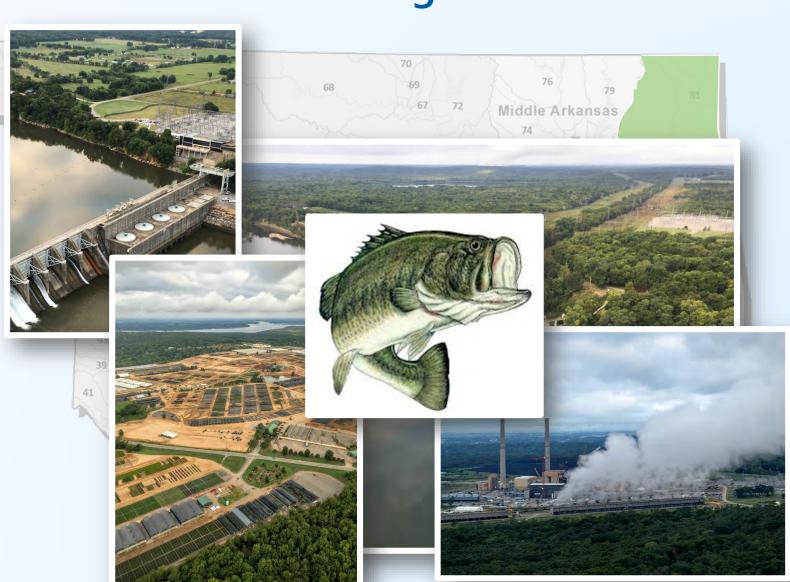








US Army Corps of Engineers_®



Water for 2060 Showcase



Paving the Road to Efficiency in Oklahoma

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Water for 2060 Innovation:

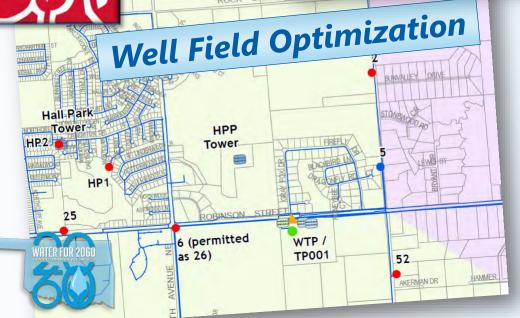




Water for 2060 Innovation:

Norman Groundwater Quality Management







RECLAMATION

Managing Water in the West



Takeaways: Water for 2060 in Action Across Oklahoma



Providing the framework to implement alternative sources and management strategies

Water providers and users are "walking the walk" like never before

Innovative ideas for ways to reuse water and employ marginal quality water supplies





