

Arizona Department of Environmental Quality Arizona Department of Water Resources Arizona Corporation Commission

Blue Ribbon Panel on Water Sustainability

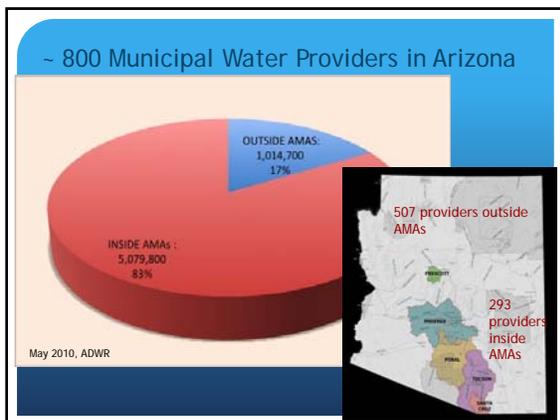
2010 SUMMARY OF MUNICIPAL CONSERVATION PROGRAMS IN ARIZONA

Ruth Greenhouse, ADWR
May 7, 2010



Municipal Water Provider
-- a city, town, private water company or water district that delivers water for residential and/or commercial purposes





Mandatory Conservation Requirements

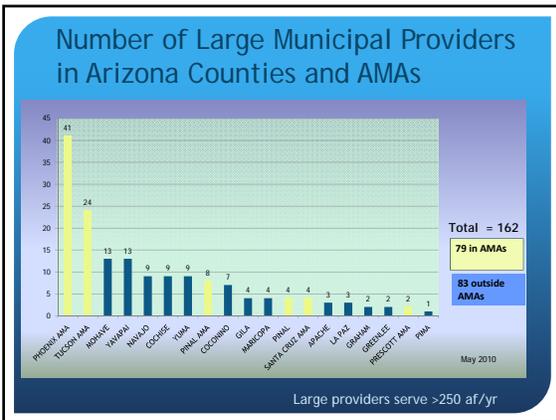
INSIDE AMAs
1980 Groundwater Code

- Regulatory programs
- 100% metering
- <10% water lost or unaccounted
- Additional requirements
- Assured water supply required
- ACC requirements



OUTSIDE AMAs

- Conservation plans
- Drought plans
- City/town ordinances and programs
- Local jurisdictions may require assured water supply
- ACC requirements

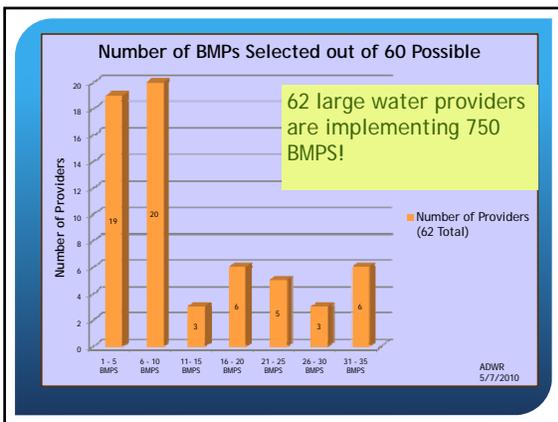


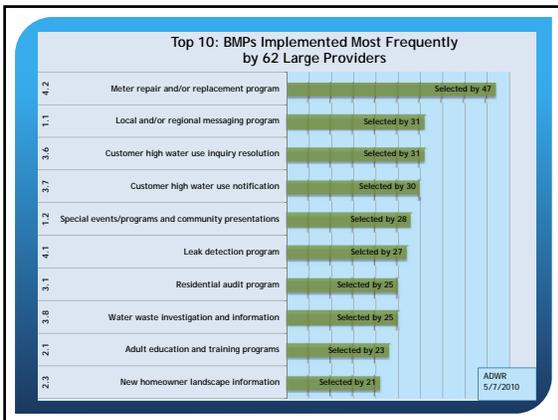
	3. Outreach Services					4. Physical Syst	
	3.1 Residential water conservation programs	3.2 Non-residential water conservation programs	3.3 Customer help water conservation	3.4 High water use multifamily	3.5 Water waste investigations and information	4.1 Leak detection programs	4.2 Water loss reduction
Arizona American Water Company LLC							
Chandler, City of							
Chandler, City of							
Flagstaff, City of							
Gilbert, Town of							
Phoenix, City of							

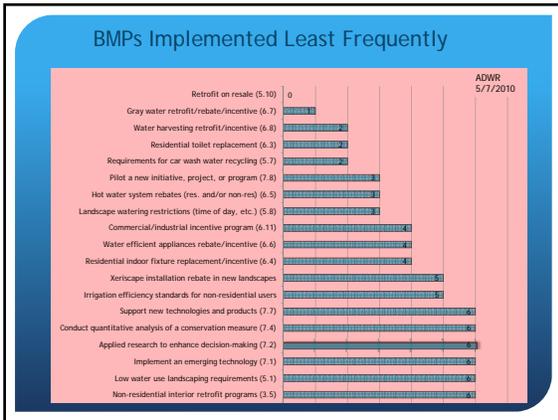
BMP Format in Modified Non-Per Capita Conservation Program (www.azwater.gov/mnpccp)

Basic Public Education Program

1. Public Awareness
2. Education and Training
3. Outreach Services
4. Physical System Improvements
5. Ordinances, Conditions of Service, Tariffs
6. Rebates & Incentives
7. Research/Innovation







2. Education and Training

City of Glendale Xeriscape Demonstration Garden

- Adult Education
- Youth Education
- New Homeowner Landscape Information
- **Demonstration Garden**



- Four acres in size / more than 400 species
- Free self-guided audio tour
- Free field trips
- Outdoor classroom and events
- Valley Forward Crescordia award winner

2. Education and Training

Smartscape Landscape Professional Training Program

- **Adult Education/Training**
- Youth Education
- New Homeowner Landscape Information
- Demonstration Garden



- Offered in Phoenix and Tucson since 1991
- Affordable, science-based training
- 8 workshops, exam and certification
- Covers how to design, install, maintain and manage water efficient landscapes
- - 2000 graduates

3. Outreach Services

- Residential Audit
- Landscape Consultation
- Water Budgeting
- Retrofits
- High Water Inquiry Resolution
- High Water Use Notification
- Water Waste Investigation

Gilbert High Water Use Program



- Notify those with double water use > 20,000 g./mo.
- Sent 5,620 letters in 2009
- Provide audits, information, and follow-up survey
- Monitor pre and post-audit water use
- Change in water use per audit: -45,000 gallons/year!

4. Physical System Improvements

- Leak Detection
- Meter Repair
- System Audit

AWC Meter Change-Out Program



- -8000 meters passed through the AWC shop in 2008
- Reduce lost and unaccounted for water
- Save water and money: EVERYTHING IS MULTIPLIED
 - 10% inaccuracy X 3,000 customers = ~\$143,000/yr
 - In 5 years: ~\$715,000
 - 20% inaccuracy in 5 years: ~\$1,430,000

6. Rebates & Incentives

- Rebates
- Non-res. grants/ loans,
- Graywater/rainwater
- Landscape conversion

Chandler Washer Rebate Program



- ~2,400 rebates 4/08 - 3/10
- Average water savings per washer/year = 10,400 gallons
- Total gallons saved = 25,000,000
- Gallons saved/dollar spent
 - 104 (not including staff time)
 - 87 (including staff time)