This presentation premiered at WaterSmart Innovations

watersmartinnovations.com
Water Efficient Technology Program
A Targeted Approach
Non Residential Sites only

- Staffing levels
- Non SFR use is growing
- Currently at 30% of all water demand
- Mostly landscaping
- This is non-return flow water
Not a Rebate Program

- Often rebates have lower than projected savings
- Early adopters often already efficient
- They often adopt the technology without the incentive
Why is the savings lower than projected?

• Incorrect product selection
• For controllers incorrect programming
• Smart controllers need smart people to program them.
Not a Rebate Program

• We purchase the technology and give it to them
• Customer is responsible for installation
• Must agree to keep it installed for a minimum of one year
• Higher cost products require a three year agreement
A Targeted Approach

• We identify sites with savings potential
• The goal is demand reduction
• Market transformation is a secondary goal
A Targeted Approach

• Water budget review
• Site visit and system inspection
Choosing the Right Solution

- Not always smart controllers
- High efficiency nozzles
- Pressure compensating emitters
- Flow sensing (with smart controller)
- Pressure regulating heads
Technology Must Be Proven Performers

- EPA WaterSense
- Not all WaterSense labeled products meet criteria
- Specific needs in the desert
- Speak with manufacturers (engineers especially)
- In house testing
- Controllers must make schedule adjustments based on MAD
- Management Allowable Depletion
Verify Installation

• Site visit
• Assist with programming on controllers
• Assist with programming on efficient nozzles
• Assist with programming on pressure regulating heads
• Assist with programming on pressure compensating emitters
After Installation Support

- Monitoring water use
- Fine tuning controller settings
- Are issues irrigation related?
Outcomes

• 38 sites with installations
• 19 sites have full 1 year pre-installation consumption and 1 year post-installation consumption
• Savings of 4,169,000 gallons
• 18%
• Cost of program $2.79/Kgal
• New water acquisition is $16.16/Kgal
Individual Sites

- Some had great water savings
- 1,055,000 gallons
Individual Sites

- Some savings hard to quantify
- Stream Rotor nozzles
Individual Sites

• Some were more for market transformation
They Do Work

• With proper programming
• With a functional irrigation system
They Do Work

• With proper monitoring
When They Don’t Work

Leaks or blown emitters

Clogged emitters
Achieving the Full Savings Potential

• Proper selection of the technology is critical
• Proper programming of smart controllers is critical
• Follow up support is critical
• Introducing and training of the technology will push market transformation
Hunt For the Full Savings Potential

• Questions?