This presentation premiered at WaterSmart Innovations

watersmartinnovations.com



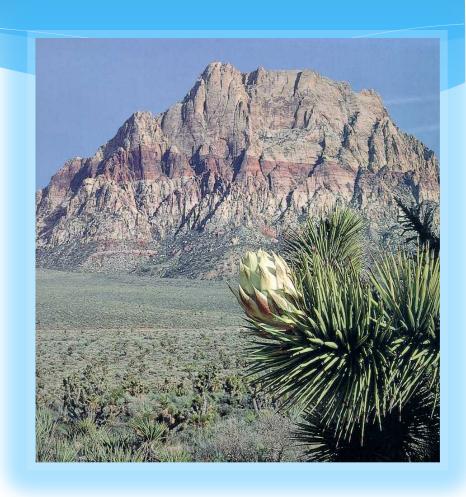
After the Initial Romance, do we still love our Smart Controllers?



Dennis Gegen – SNWA Conservation Sean Ainsworth – SNWA Conservation

Las Vegas, a City of the Mojave Desert

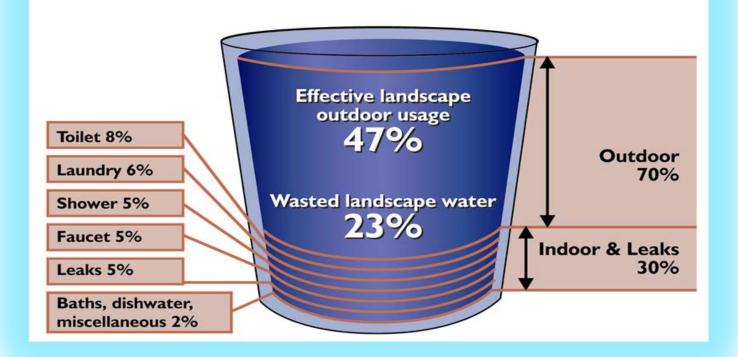
- 54,000 square miles
- Low precipitation: 4
 inches/year (2014 to date 1.52)
- Temperatures range: 15 115° F
- Low humidity: 7% 20%
- High winds
- Bright sunshine, few clouds
- High ET Rate



Where our Water Goes

Total Residential Water Use

Most of our water is used outdoors



Current Reservoir Conditions





September 1998 1215' Lake Mead
Wash and Marina

March 2014 1106'

Reservoir Conditions



Current Elevation – 1081,

Discussion Points

- Intentions of study not to look at smart controller water savings
- Were smart controllers being used as intended?
- Surveys conducted 2010 and 2014
- Coupon program going forward

Smart Irrigation Controllers

Customize irrigation schedules based on microclimate, temperature and evapotranspiration rate

Water according to a plant needs rather than a preset seasonal watering schedule



Smart Controller Coupon Program

- Open to Single Family Residential customers only
- Customer prints coupon from SNWA.com
- One coupon per property address is allowed (must be a customer of SNWA member agency)
- Redeems coupon at approved participating retailer



Smart Controller Coupon Program



- Purchase from list of qualifying products
- Receives rebate at time of purchase
 - Up to \$200 or 50% of purchase price, whichever is lower



Smart Controller Coupon Program at a Glance

Since 2006:

• 162 coupons redeemed

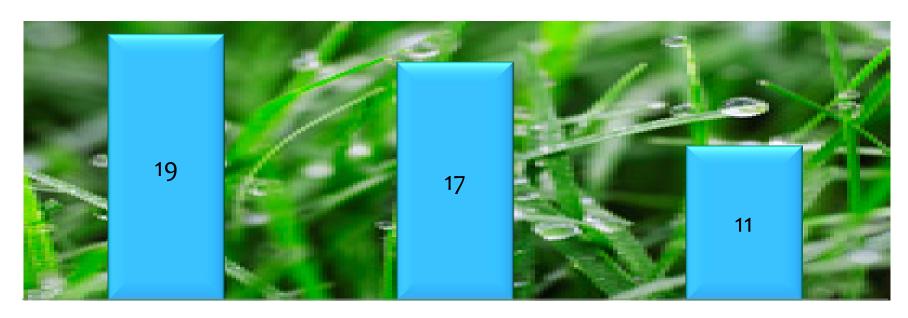
Avg. rebate equals \$127

 Total amount to date equals over \$21,000



- 441 surveys emailed to coupon/voucher participants
 - 47 returned
 - 22 participants signed up to save money on purchase of controller
 - 20 interested in smart controller technology
 - 5 had "other reasons for purchasing"
 - 15 participants purchased an irrigation controller since printing coupon
 - 12 purchased a smart controller
 - 3 purchased rain sensors, soil moisture sensors

Of the 47 Participants

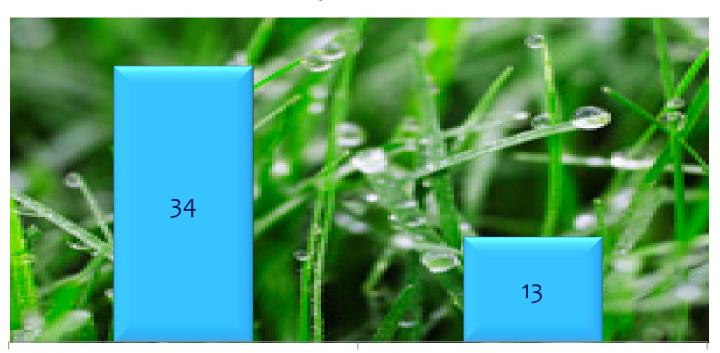


Turf/Xeric Combo

Xeric

Turf

Respondents

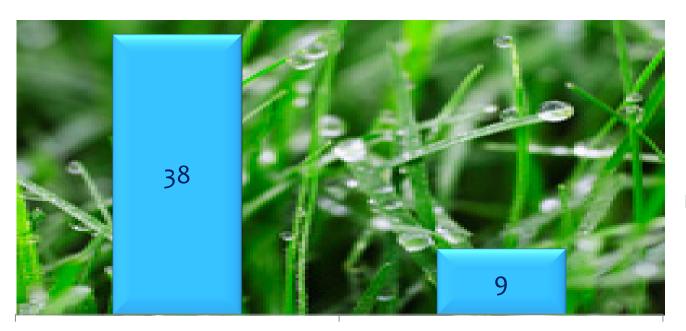


Respondents

Maintained Own Landscape

Contractor Maintained

Respondents



Respondents

Programmed Controller

Contractor Controlled

Primary Goals

- Find how these controllers were being operated after a period of at least six months
- Are they operating as intended?
 - Smart Controller (auto mode)
 - Standard Controller
- Receive customer feedback regarding:
 - Controllers
 - Coupon Program



Scheduling Visits

- 162 customers who redeemed coupons were contacted
 - Visits conducted between Fall 2013/Summer 2014
- Email was sent offering free site consultation
 - Non respondents were called
 - Contact was made regardless of ownership change

Field Visits

- Visits lasted 15-20 minutes
- Confirmed controller settings were either in Auto or Standard Mode
- Pictures were taken onsite
- Visual survey of landscape quality
- Customers filled out brief satisfaction survey



- 49 participated in follow-up study
- 30% RESPONSE RATE!!
 - 32 Field Visits completed
 - 17 Telephone interviews were completed



Controllers



Controllers

Auto Mode

Standard Mode

Auto Mode

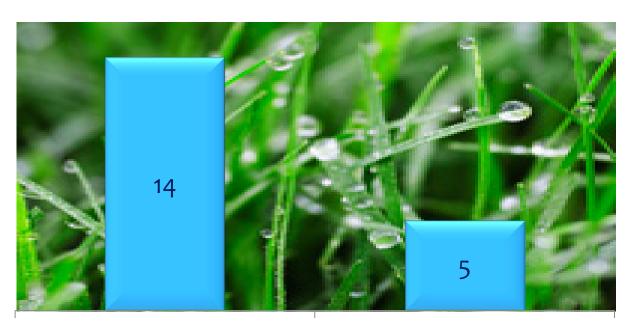


Auto Mode

Homeowner Installed

Contractor Installed

Standard Mode



■ Standard Mode

Homeowner Installed

Contractor Installed

Auto Mode

 Majority of respondents were still positive about the benefits of their controller

 Respondents seemed comfortable with the latest gadgets to improve their quality of life





Standard Mode

- Majority of respondents using clock in standard mode didn't "trust" controller
- Clock was not initially installed or programmed properly
- Controller or weather station had malfunctioned or lost signal



 Some didn't realize controller was not in Auto (Smart) mode

Customer Input

- All field visit participants expressed interest in a site visit by SNWA once the controller was installed by homeowner/contractor
 - At the time of this study, SNWA did not conduct program site visits
- Participants would like a chance to redeem another coupon if controller malfunctions or to upgrade as controllers with newer technology arrive on the market
- Majority of respondents purchased the controllers to save water/money (survey results)

Moving Forward

- Having a Conservation professional conduct a site visit would help homeowners feel confident and validate they are using the controller as intended to maximize water savings and money savings
- A site visit would be beneficial to water purveyor to collect more data and allow for more correspondence between purveyor and customer for future studies/surveys
- Increase collaboration with landscape contractors to utilize coupon program

New Technologies Smart Irrigation Controllers

- Smart Controllers are utilizing newer technologies
- App based irrigation products becoming more prevalent – user accessibility enhanced
- SNWA recognized this and expanded coupon program to allow purchase of these newer technologies







Questions?

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