This presentation premiered at WaterSmart Innovations

watersmartinnovations.com



Landscape Transformation Study



Assessment of Water Utility Programs and Market Readiness Evaluation





We Set Out to Answer

- Do these programs save water?
- What motivates people to change their landscape or irrigation practices?
- How do they make landscape choices?
- What barriers exist to landscape transformation and to utilitysponsored programs?



2018 ANALYTICS REPORT *AWF Member Edition













































"A main conservation priority has to be reducing outdoor water use, which remains poorly understood, largely unregulated, and

ripe for innovation at the consumer,

manufacturer, supplier, and contractor levels."

All Programs Achieve Savings



Average savings ranged from
7% (Outreach & Support) to 39%
(Cash for Grass)

Higher pre-intervention
 water use was associated with
 higher savings

300.0





Utility	Program Name	Incentive Amt.	Start Year	Avg Yr. Activity	Total Activit
Austin Water	Waterwise Rainscape	\$35/100 SF	2009	31	25
California American Water Company	Turf Removal	\$1.50-\$2.00	2013	**	*
Fort Collins Utilities	Xeriscape Incentive	\$0.75	2016	44	17
City of Guelph	Healthy Landscape	NA	2008	315	2,520
Metropolitan Water District*	SoCal WaterSmart	\$0.30 - \$2.00	2008	6,026	54,239
North Marin Water District	Cash for Grass	\$0.10 - \$1.00	1989	50	86
Region of Peel	Fusion Landscaping	NA	2009	1,000	11,329
City of Petaluma	Mulch Madness	NA	2009	350	*
City of Sacramento	River Friendly Landscape	\$1.00	2012	29	8
City of San Diego	Giveaway & Cash for Plants	\$1.25 - \$3.50	2011	65	392
San Diego County Water Authority	Sustainable Landscapes	\$1.75	2014	253	760
City of Santa Rosa	Cash for Grass	\$0.50 - \$1.00	2007	257	1,80
Seatlle Public Utilities	Irrigation Equipment	\$100/controller	2017	NA	NA
Southern Nevada Water Authori	ty Water Smart Landscapes	\$1.00-\$2.00	1999	3,357	57,073



Customers are Happy

Customers are content with the work they had to do, the money they had to spend, and the overall outcome of their landscape conversion.



Of participants



Were satisfied with the program experience.

Would not do anything different.



Of participants

Felt the new landscape was worth the investment.

The Best Program

There's no silver bullet, but the highest water savings come from a combination of incentives, requirements and support.

Incentives



Generous incentives to encourage lawn removal. Strict requirements around water usage.

Substantial customer support services.

There's Much Room for Improvement

- Once we can find a balanced approach that water agencies can afford, we can unlock a tremendous opportunity.
- The drought significantly drove activity levels for programs.
- Programs have only impacted small percentages of properties.
- We think we've found a message that resonates with customers beauty.



We Have a Long Way to Go

Sales of efficiency products are still under 20%. There are three key areas that are holding us back.



Product Availability



Certifications

High efficiency products are hard to identify in stores. Plant availability is limited... impacting sales.

Limited testing, certifications, and labeling... impacting quality and customer acceptance.







Promotions

No large-scale industry promotions....impacting customer awareness.



Industry isn't Fully Engaged

We can't keep running away from We can fix that.

- Gardeners are not skilled at conversion projects.

- Large landscape contractors don't serve the 1,000 sf market.

— The Landscape contractor business case is not clear, most can't justify the investment in training and sales.

We can't keep running away from this fact. It's not built to sell efficiency.



Beauty Comes First

Each customer desires to have a beautiful landscape, and they each have a different vision for what comprises beauty.



Of survey respondents



Believe that water efficient design can be beautiful.

Choose aesthetics as the reason for changing.

Of survey respondents



Of survey respondents

Are dissatisfied with their existing landscape.

Aware, But No Action

Most customers have considered converting their lawn, but they need help.





Are interested in removing all or part of their lawn... most (39%) stated only part of their lawn.

Need help. Design is the most important need for customers.



Of survey respondents



Of survey respondents

Have considered making a change...but haven't.

Not Enough Understanding

There are a number of misperceptions that disconnect the customer from their actual water usage.



They believe that most water is used indoors.



They think they already have efficient equipment.



Saving water is the number one driver.

"There must be a compelling and personal reason to change."

The Future with Big Data

The Problem Will Continue

If nothing changes, we will struggle with achieving water savings.

Emotional Issue

Hard to Sell

Customers have an emotional connection to their lawns and are concerned about making changes.

Customers don't value making the changes. It's not easy and it can be expensive. The market is not assisting.

Inefficient Targeting

We sell the program with the same message to everyone without understanding their wants and needs.

Asking The Right Questions

targeting (delivering the right program and message to that person).



Before we promote programs, we have to be educated. Who are our customers?



Once we understand our customers better, what's the right program, what message will resonate?



When we know our customers, the right message and the right program, how do we drive them to make changes?

- We need to do better with segmentation (knowing who someone is) and

The Tech to Success

Big data and deep learning are useful tools that organizations can use to better understand customers, predict preference, driving sales and advancing market transformation.

In 2010, Amazon.com introduced shopping recommendations to customers using deep learning. These recommendations now account for 35% of sales - \$49.6 billion a year.

A recent Accenture study stated that 75% of customers are more likely to buy from a retailer that recognizes them by name; recommends options based upon customer interests and their purchase history.

A Better Future with Prediction

Prediction is at the heart of making any decision. We can use

- Our business is riddled with prediction decision issues. Who to sell to? How to?

technology like big data and deep learning to make better decisions.

- Prediction tools increase impact e.g. better recommendations, more accurate targeting.
- Better prediction creates opportunities for new program structures and outreach strategies.



Use Analytics to Drive Response Rates



Analytics





- 2. Eliminate Chemicals
- 3. Desire for New Technology
- 4. Fresh, New Look

Generate Customer Predictions

- Likely to change controller
- Likely to remove partial turf

33%

17%



Learn More

Visit www.allianceforwaterefficiency.org

- Executive Summary
- Impact Analysis Report Ο
- Expanded Member Version
- Process Evaluation Report
- Fact Sheet & Info Graphic



What are Customer Landscape Preferences and What Drives Customers to Change Their Landscape

2018 Market Analysis and Recommendations

*AWE Member Edition











A & N Technical Services, Inc. Maureen Erbeznik & Associates Sligo Creek Resources

Immediate and Lasting Water Savings: Making the Case for Landscape Transformation

ABOUT THE RESEARCH

Landscape transformation is the act of customers transitioning from traditional high-water use landscape designs and products to water-efficient and sustainable landscapes, reducing the irrigation water requirement and outdoor water use. AWE's Landscape Transformation study examined various extant Landscape Transformation programs to provide new empirical data on their effectiveness

KEY FINDINGS

phy, population, and climate, but a

es on efficient irrigation fixtures, on of mulch--all programs we

requiring less acity to fulfill the water need at peal additional water infrastr sts down for customers.

isted after the first eased with time.

rsistence and growth of water saving observed amongst programs with sufficient data for analysis indicate that program mplementation costs will be recouped with

rcent reduction in

Utility	Population Served	Average Annual Precipitation	Program Type	P
ity of uelph	131,000	33.0 inches	Customer Site Audits	6
ity of acramento	480,000	17.0 inches	Turf removal and replacement	29
ustin /ater tility	928,000	32.1 inches	Turf removal and replacement	1
ity of etaluma	60,200	25.0 inches	Free distribution of mulch	1
ity of San iego	1,378,000	10.0 inches	Turf removal and replacement	33

participant in San Diego County Water Authority's Sust ately 42,000 gallons annu



fter the first year, to I

To access the full Landscape Transformation study, visit http://www.a4we.org.





This is no longer some far-off problem. This is happening here. This is happening now. Let's make progress together.



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Questions