

Understanding the WaterSense Label





Alicia Marrs WaterSense Program



EPA and WaterSense: Why & What



Water shortages expected in 40 states

Communities face major infrastructure investments

Consumers challenged by rising utility bills

Much of water used outdoors is wasted

look for

Noter Sense

Referse EPA Criteria

Identify high-performing technology

Promote water efficient behavior/action

Help consumers save money

Reduce need to expand infrastructure capacity

Save water for critical needs



Not Just About Water



- Moving, treating, and heating water uses energy
 - Every gallon of water has an energy "footprint"
- Energy used by the Water sector
 - Nationally ~3-4%
 - California ~20%
 - Municipal level can be > 40%
 - System level energy is one of the highest utility costs





What's Special About WaterSense?





- A label with integrity
 - Third-parties independently certify that products and homes meet EPA criteria
 - Backed by the credibility of EPA
- Smart use of resources
 - EPA provides national standardization and outreach for water-efficiency
 - Manufacturers absorb product research, testing, and branding costs
 - Licensed certifying bodies certify the products and police the label's use



Confidence in Labeled Products



- WaterSense labeled products must meet EPA criteria for both water-efficiency and performance
 - In conjunction with industry, EPA defines measurable performance criteria
 - If necessary, EPA works with other organizations to develop performance criteria (SDOs, industry groups)
- WaterSense labeled products are certified by an accredited/licensed, independent third-party
 - Test products
 - Assess manufacturers quality management system
 - Conduct periodic surveillance (i.e., audits, retest products, police the use of the label)
 - Issue label



Product Certification Process



- Manufacturer applies to a licensed certifying body
- Licensed certifying body conducts product evaluation
 - Assesses production process and quality management system
 - Samples and tests product's conformance to WaterSense specification
 - Certifies the product and provides list to WaterSense
- Licensed certifying body authorizes manufacturer to use the WaterSense label
- Licensed certifying body conducts ongoing conformity assessment
 - Annual product retesting
 - Annual assessment of production process and quality management system
 - Annual surveillance of label use in the marketplace



WaterSense Product Evaluation Factors





WaterSense uses the following factors in determining which products to label

Products must:

- Offer equivalent or superior performance
- Be about 20 percent more water-efficient than conventional models
- Realize water savings on a national level
- Provide measurable results
- Achieve water efficiency through several technology options
- Be effectively differentiated by the WaterSense label
- Be independently certified



"Low Flow" is a No Go





VS





WaterSense Labeled Products



More than

14,000

Labeled

Product

Models



Flushing Urinals



Lavatory Faucets



Irrigation Controllers



New Homes



Pre-rinse Sprayers



Tank-Type Toilets





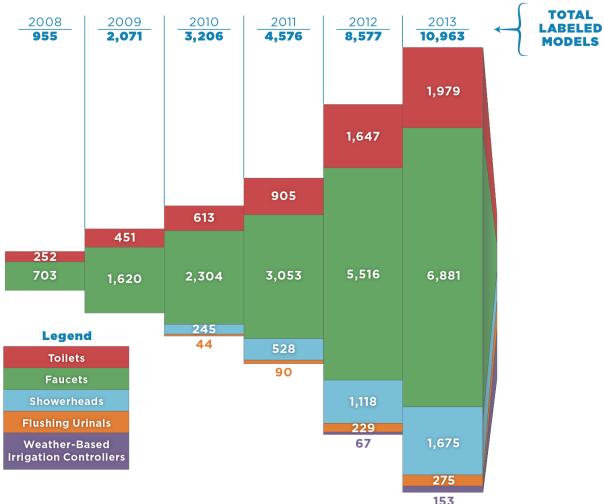
Water factors are also included in many ENERGY STAR qualified products



2013 WaterSense Accomplishments

Products Labeled





10/21/2014



Schedule for Product Evaluation



	Complete	2013/2014	2014 and Beyond
Irrigation	Weather-based Controllers Professional Certification Programs	Soil Moisture-based controllers *	Irrigation Emission devices (sprinklers)
Residential Products	Toilets Faucets Showerheads	Water Softening Systems*	Water Treatment Systems Whole House Humidifiers Kitchen faucets
Commercial Products	Flush Urinals Pre-rinse Spray Valves	Flushometer Toilets*	Dipper Wells Autoclaves Glassware Washers Kitchen Equipment
Other	Single and multi- family Homes		Water Meters Additional Professional Certifications

^{*} Notice of Intent Released



Commercial Toilet Draft Criteria



- WaterSense is considering setting a maximum flush volume of 1.28 gpf (4.8 Lpf)
 - Matches currently accepted industry standards for highefficiency toilets (HETs)
 - 258 high-efficiency flushometer-valve toilet combinations have been tested to Maximum Performance (MaP) testing requirements
- Plumbing Efficiency Research Coalition (PERC) published a drainline carry study in November 2012.
 - Investigated waste transport through drainline lengths up to 135 feet for flush volumes varying from 0.8 gallons to 1.6 gallons.
 - Media were successfully cleared from drainline apparatus for all 1.28 gallon test runs



Confidence in Labeled Products



High Efficiency Residential Toilets (HET)

Conventional Toilets

- Maximum Water Use
 - 1.6 gallons per flush
- Performance Requirements
 - Must meet ASME A112.19.2 flushing requirements
 - Drainline transport of waste 12.2 ft

WaterSense Labeled HETs

- Maximum Water Use
 - 1.28 gallons per flush
- Performance Requirements
 - Must meet ASME A112.19.2
 flushing requirements
 - Must successfully remove at least 350 grams of waste



Acceptance of WaterSense

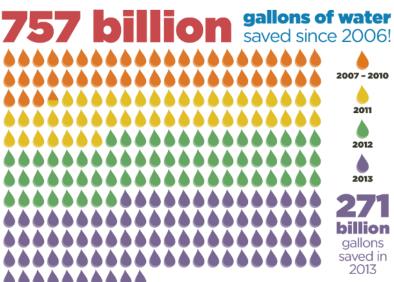


- The WaterSense label is recognized by other green programs
 - FEMP Designated Products
 - U.S. Green Building Council's LEED Rating Systems
 - Green Globes' Green Building Initiative
 - National Association of Home Builders' National Green Building Standard
 - International Code Council's International Green Construction Code
 - IAPMO Green Technical Supplement
 - States and Municipalities



Savings Add Up! 2006-2013





That's enough water to supply all the homes

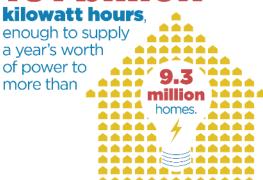
in the **United States for 26 days!**



waterSense has **Saved**consumers
\$14.2 billion
in water and energy bills.

WaterSense has helped reduce the amount of energy needed to heat, pump, and treat water by

101 billion







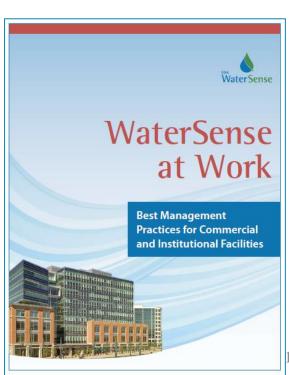
WaterSense at Work



Released November 2012

WaterSense at Work is a comprehensive set of waterefficiency best management practices created to help commercial and institutional facilities manage their water use. Best management practices (BMPs) include:

- Water management planning
- Water use monitoring and education
- Sanitary fixtures and equipment
- Commercial kitchen equipment
- Outdoor water use
- Mechanical systems
- Laboratory and medical equipment
- Onsite alternative water sources



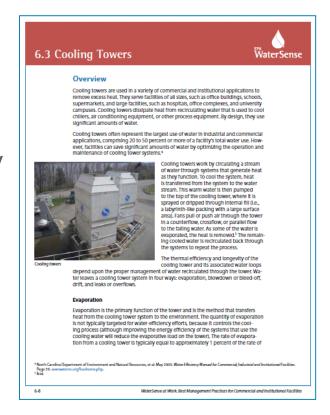


What's Included?



Each section incorporates WaterSense labeled products, water-efficient technologies, and water-saving techniques for both new and existing buildings:

- Overview of each practice or technology
- Operation, maintenance, and user education practices
- Retrofit options
- Replacement options
- Water, energy, and cost savings potential
- Additional resources





2014 Commercial Focus





- Raise awareness of WaterSense among hotel facility managers
 - Increase the use of WaterSense labeled products
 - Promote best management practices for water use reductions
 - Improve data quality by tracking progress
- Give WaterSense partners a framework to engage commercial and institutional customers
- Provide training and tools to assist hotel facility managers in saving water, energy, and money
- Educate hotel facility managers, employees, and guests about water efficiency



Technical Webinars



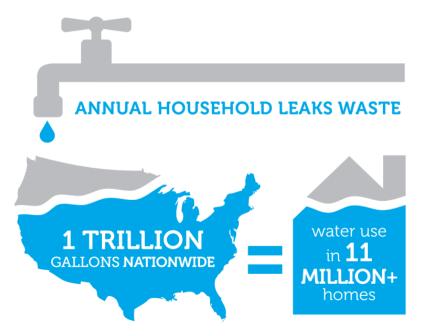
WaterSense will provide a series of technical webinars, each aimed at addressing major water use areas within a hotel:

- Take the Plunge: Introductory webinar
- Assess, Track and Realize Payback
- Washing 101: Laundry and Plumbing Primer
- Make a Splash With Outdoor Water Savings
- Water Assessment and Evaluation Tool
- Minimize Water in Mechanical/HVAC Systems
- Let's Talk About Education and Outreach
- What's Cooking: Commercial Kitchen Savings
- Registration will be through WaterSense website: http://www.epa.gov/watersense/commercial/challenge.html
- All are/will be recorded/posted for future listening: http://www.epa.gov/watersense/commercial/webinars.html



Why Fix a Leak Week?







Fix a Leak Week 2015

Messaging Overview



Fix a Leak Week: March 16-22, 2015

1. Check



Check for leaks. Look for dripping indoor and outdoor fixtures.

2. Twist



Twist and tighten pipe and hose connections, and twist on WaterSense labeled faucet aerators.

3. Replace



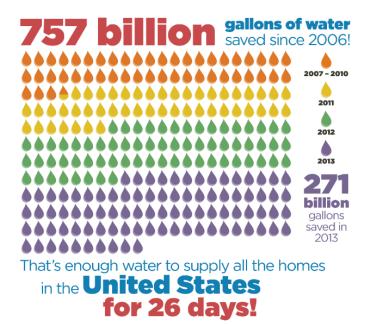
Replace the leaking fixture if necessary.

Look for WaterSense labeled models!



For More Information





Website:

www.epa.gov/watersense

Lists of products

Partnership information – on line applications

Educational fact sheets and resources

Email: watersense@epa.gov

Toll-free Helpline:

(866) WTR-SENS (987-7367)