

# This presentation premiered at WaterSmart Innovations

[watersmartinnovations.com](http://watersmartinnovations.com)



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# What's New With WaterSense® Labeled Homes



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**WaterSmart Innovations 2013**  
**October 2, 2013**



# Agenda



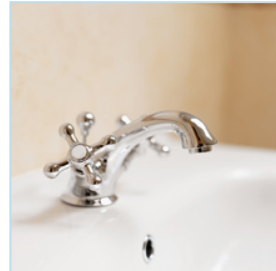
- Update on WaterSense
- WaterSense for Multi-Family Homes
- Product Updates in Version 1.1
- Landscape Design Requirements
- Question/Next Steps for WaterSense Labeled New Homes

# WaterSense Labeled Products

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**Flushing  
Urinals**



**Lavatory  
Faucets**



**Irrigation  
Controllers**



**NEW: Pre-rinse  
Spray Valves**



**Tank-Type  
Toilets**



**Showerheads**

**More than  
10,000  
Labeled  
Product  
Models**



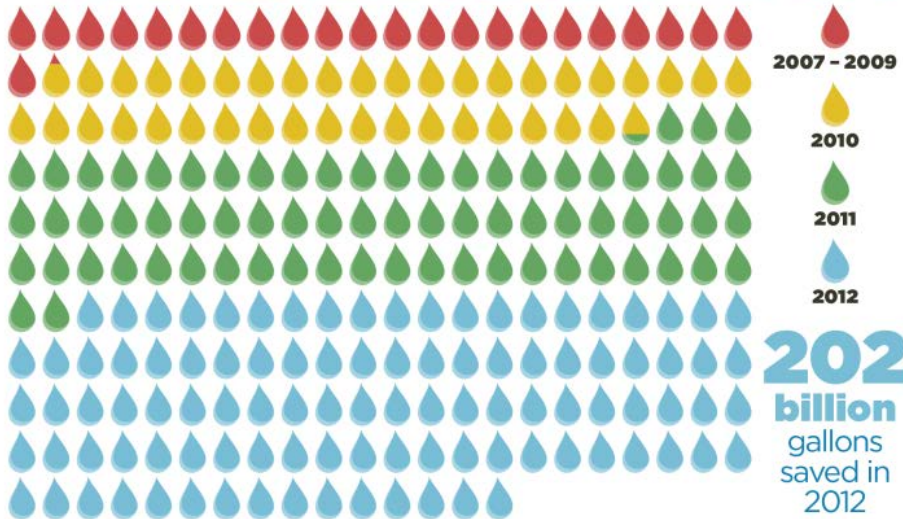
Water factors are also included in many ENERGY STAR qualified products



# Savings add up! 2006-2012 Results



**487 billion** gallons of water saved since 2006!



That's enough water to supply all the homes in **Colorado** and **Arizona** for a year!

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

**64.7 billion**

**kilowatt hours**, enough to supply a year's worth of power to more than



...and **saving consumers** **\$8.9 billion** in water and energy bills

...eliminating **24 million metric tons** of greenhouse gas emissions...



# Specification Development



New specification applies to all homes labeled on or after January 1, 2013.

# Why Make Changes?

- Home building market changed significantly between 2007 and 2012
- New product technologies are available in the market
- Lessons learned from the first two years of labeling new homes
- Opportunity to expand the WaterSense program to new builders and stakeholders

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# What's New in Version 1.1?







# Scope of version 1.1

- Single family homes & townhomes
- OR**
- Residential units in multi-family buildings three stories or less in size
- OR**
- Residential units in multi-family buildings, including mixed-use buildings, that have independent heating, cooling, and hot water systems separate from other units

# Scope of version 1.1

Units in buildings that utilize central hot water systems powered by alternative energies, such as solar or geothermal, for domestic hot water are allowed if the alternative energy source provides at least 50 percent of the hot water needs for the residential units.



# Requirements for Homes in MF Buildings

- Even though the units receive the label, buildings must meet certain common area and outdoor criteria in order to be labeled
  - Consider these prerequisites

*Note: Specific requirements and considerations are summarized in Appendix D of the specification.*





# Requirements for Homes in MF Buildings

## Laundry Facilities

- Common-use laundry rooms shall include ENERGY STAR qualified clothes washers with water factors of 6.0 or less

## Metering

- Each labeled unit shall be individually metered, submetered, or equipped with alternate technology capable of tracking water use for individual units

# Requirements for Homes in MF Buildings

## Outdoors

- Outdoor criteria shall apply to all common use area that are improved upon
  - Includes areas that are landscapes (including sod or turf), water features, etc.
- If there is an irrigation system, it shall meet all existing criteria AND be independently metered, submetered, or equipped with an alternate technology.
- If units are occupied prior to completion of outdoor (or common-use space), the indoor inspection can be completed but the label should be withheld until all criteria are met.

# Requirements for Homes in MF Buildings

## Pools

- Are treated differently than in single-family homes
  - Typically larger pools with more advanced equipment and controls
- Are not accounted for in the landscape design criteria (as they are in single-family homes)
- Must be independently metered or submetered
- Must be equipped with a gutter or grate system
- Must be equipped with either sorptive media (pre-coat) or cartridge filtration



# Requirements for Homes in MF Buildings

## Education

- For homes in multi-family buildings there are two manuals required:
  - Occupant Operating Manual (one per home)
  - Building Operating Manual (one per building)

## Pressure loss test

- Should be done in each individual unit to verify that water is being delivered at or below 60 psi
  - Can be done at a washer hookup, but may require an additional adapter if washer/dryer connections aren't present
  - If there is no shutoff for the unit's water supply this could be an indication the building is using riser pipe plumbing

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# New Product Requirements

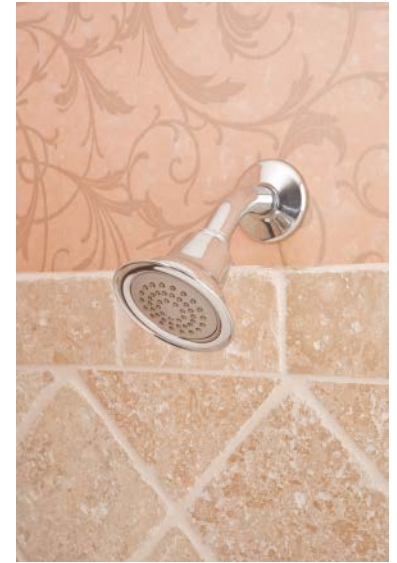




# New Product Requirements

## Showerheads

- There are more than 1,500 WaterSense labeled showerheads available



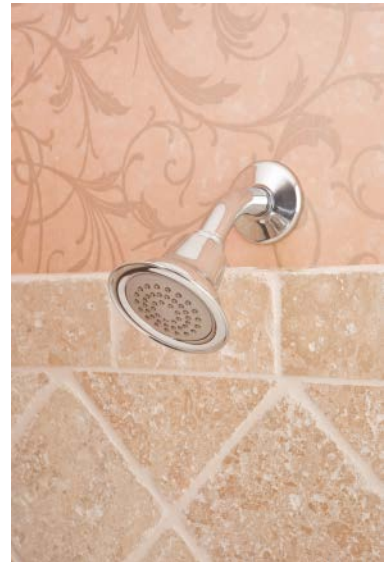
## Weather Based Irrigation Controllers

- The first WaterSense labeled weather based irrigation controllers were labeled in May 2012, more than 150 models are available



# Showerheads

- WaterSense labeled models now required
- WaterSense labeled showerheads are third party certified for efficiency AND performance – more than 1,500 labeled models
- The total output for multi-showerheads has been reduced from 2.5 gpm to 2.0 gpm



# Irrigation controllers

- Beginning in June 2013, all weather based irrigation controllers must be WaterSense labeled
- WaterSense labeled controllers function like programmable thermostats for the yard – more than 150 labeled models
- Sensor based irrigation controllers will continue to be allowed and must meet feature requirements outlined in the specification



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# Landscape Design



# Landscape Design

Version 1 included two options to meet the landscape design requirements:

- Use the Water Budget Tool
- Limit turfgrass to 40% of the landscapable area

Version 1.1:

- Must use the Water Budget Tool

STEP 1 Location and Area	STEP 2 Plants and Irrigation	STEP 3 The Results
<p>Congratulations on choosing to design a locally appropriate water-efficient landscape! The WaterSense water budget tool will help you determine if your landscape meets EPA's criteria for efficient outdoor water use in your area.</p> <p>In order to use the water budget tool, you will need to know some basic information about your landscape:</p> <ul style="list-style-type: none"> <li>• The location and zip code</li> <li>• The total area of applicable landscape</li> <li>• Types of plants and the total coverage</li> <li>• Methods of irrigation (if any)</li> </ul> <p>Your landscape will receive a pass/fail based on local climate, plant selection, irrigation methods, and size of the landscape. Follow the instructions on screen to find out if your landscape meets the WaterSense criteria.</p>		
<p>For what purpose is the tool being used? What are you landscaping? Please Select <input type="text"/></p> <p>How many sites?  <input type="checkbox"/> Development of Multiple Landscapes    <input type="checkbox"/> Single Site</p> <p>Is there an irrigation system?  <input type="checkbox"/> Yes    <input type="checkbox"/> No</p> <p>Enter Zip Code <input type="text"/>      Enter Landscaped Area for a Single Home or Site!  <input type="text"/> Sq. Ft.</p> <p>Enter Multi-Home/Development Landscaped Area Range!  <input type="text"/> to <input type="text"/> Sq. Ft.    <a href="#">NEXT STEP &gt;</a></p>		

# Landscape Design

- The Water Budget Tool has been used in the vast majority of labeled homes
- Online version of the tool is much simpler to use
- The removal of options 2 received minimal resistance from builders
- WaterSense staff is available to provide technical assistance

STEP 1 Location and Area
STEP 2 Plants and Irrigation
STEP 3 The Results

Congratulations on choosing to design a locally appropriate water-efficient landscape! The WaterSense water budget tool will help you determine if your landscape meets EPA's criteria for efficient outdoor water use in your area.

In order to use the water budget tool, you will need to know some basic information about your landscape:

- The location and zip code
- The total area of applicable landscape
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Your landscape will receive a pass/fail based on local climate, plant selection, irrigation methods, and size of the landscape. Follow the instructions on screen to find out if your landscape meets the WaterSense criteria.

For what purpose is the tool being used?  
What are you landscaping?

Please Select ▼

How many sites?

Development of Multiple Landscapes     Single Site

Is there an irrigation system?

Yes     No

Enter Zip Code

Enter Landscaped Area for a Single Home or Site<sup>1</sup>  
 Sq. Ft.

Enter Multi-Home/Development Landscaped Area Range<sup>1</sup>  
 to  Sq. Ft.

[NEXT STEP >](#)

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# Next Steps





# Updated Materials

## Available now

- Updated provider and inspector training materials
- Updated marketing and recruitment materials (available on the WaterSense partner site)
- Hot water distribution guide

## Coming Soon!

- Updated Water Budget Tool manual
- New WaterSense Homes field guide





# Questions/Contact

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- WaterSense Information
  - Web site: [www.epa.gov/watersense](http://www.epa.gov/watersense)
- For questions:
  - E-mail: [watersense-homes@epa.gov](mailto:watersense-homes@epa.gov)
  - Toll-free Helpline: (866) WTR-SENS
    - 1(866) 987-7367

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