



May 17, 2018



WaterSense Can Help



WaterSense is a voluntary program launched by EPA in 2006 that provides a simple way to identify water-efficient:

- Products
- Programs
- Practices
- Homes

Products are independently certified for water efficiency <u>and</u> performance





The WaterSense Label





Flushing Urinals



Lavatory Faucets



Irrigation Controllers



Pre-Rinse Spray Valves



28,000 + Labeled Product Models



Showerheads



Tank & Flushometer Valve Toilets



Spray Sprinkler Bodies

Search tool at epa.gov/watersense

Water factors included in many ENERGY STAR certified products



Specification Update



Spray Sprinkler Bodies

- WaterSense labeled spray sprinkler bodies with integral pressure regulation provide a constant flow at the sprinkler nozzle for a uniform distribution of water spray and coverage
- First products have been labeled now available in the product listing. https://www.epa.gov/watersense/spray-sprinkler-bodies

Soil Moisture Sensors

- Still conducting research and collecting data from NOI
- WaterSense released a paper to discuss the progress, results, and further testing needs - see Status at https://www.epa.gov/watersense/soil-moisture-based-control-technologies

Homes 2.0 – updating and revising the specification for New Homes

- NOI released on 2/15/18
- Presentation and Summary of Public Meeting on website
- We are still accepting written comments

https://www.epa.gov/watersense/homes-specification#HomeNOI

2018 Monthly Outreach Themes

January

Resolve to Save Water in 2018

Pledge to use your WaterSense each month to save water all year!



February

Live, Save, Love

Love saving water and money in your apartment or condo? Use these guides for ideas.



March

Fix a Leak Week

Find and fix water-wasting drips this Fix a Leak Week; Spanish materials are available too!



Twitter Party: March 19, 2018

#FixALeak Week March 19-25, 2018

#WorldWaterDay March 22, 2018

April

Plant a Water-Smart Landscape

Make your green thumb even greener with a water-smart landscape.

#EarthDay April 22, 2018



May

Sprinkler Spruce-Up

A certified irrigation pro can help you spring into action to save water outdoors.



June

WaterSense Savings Numbers



WaterSense has helped consumers save trillions of gallons of water, plus energy and money!

July

A Better Body for Your System



Install WaterSense labeled spray sprinkler bodies to curb outdoor water waste.

August

Teach WaterSense to Kids

Download WaterSense resources for educators to help quench students' thirst for knowledge.

#WorldWaterWeek August 26-31, 2018



September

Your Better Bathroom

Get your style—and more savings—when you remodel with WaterSense in mind.



October

2018 Partners of the Year

WaterSense partners champion water conservation, and you save!

Partners of the Year Announced: October 4, 2018

Energy Efficiency Day: October 5, 2018 #EEDay2018



November

Give Thanks for WaterSense



WaterSense labeled fixtures in the guest bathroom save water when you have a full house.

#WorldToiletDay November 19, 2018

December

'Tis the Season for Water Savings



Get in the water-saving spirit as you prepare for your holiday festivities.



look for

WaterSense Resources

- Water use information by facility type
- Best management practices
- Water-saving tips
- Assessment tools
- Worksheets and checklists
- Live and recorded training webinars
- Case studies and more!

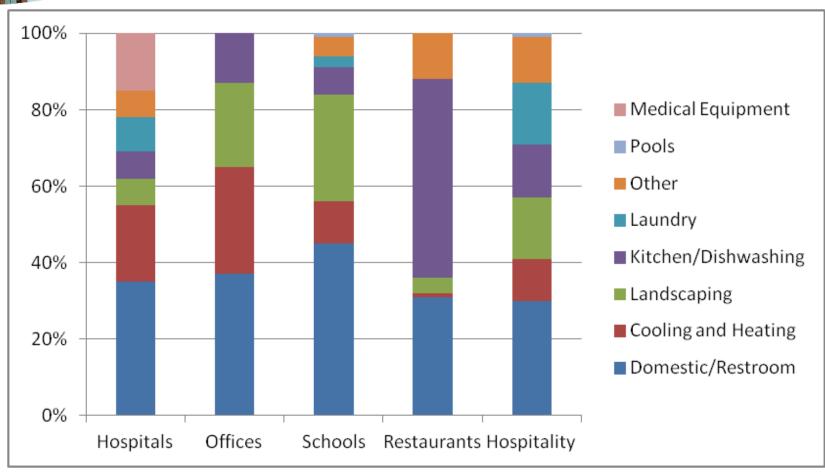


www.epa.gov/watersense/tools



Water Use Profiles of Commercial Facilities









Tools for Getting Started

WaterSense Simple Water Assessment Checklist

Writable PDF to help quickly identify and target potential projects and best management practices

Sample Worksheets in Appendix B of WaterSense at Work

Building Water Survey, List of Water Meters, Water Consumption History; Equipment and Water Use Inventory

WaterSense Commercial Facility Leaks Checklist

PDF checklist to help quickly identify leaks and potential water waste

https://www.epa.gov/watersense/tools

Simple Water Assessment Checklist

Water-efficient Project or Practice	Section of WaterSense at Work ¹	Evaluate ✓	Implement 🗸	Done ✓
10. Educate employees to turn off equipment including all continuous flow equipment, between uses; use automatic shut-off valves where applicable.	_			
11. Educate employees to use "dry" cleaning methods to avoid washing down equipment or areas with a water hose or mop; sweep or mop instead of spray washing with water.	_			
12. Test water pressure regularly on each floor of the facility to ensure it is within optimal range for fixture and equipment performance; use pressure regulating valves to correct any issues (i.e., optimal pressure is between 20 and 80 psi for most fixtures).	_			
Sanitary Fixtures and Equipment				
 Regularly check all fixtures and valves for scaling and clean as needed. 	3.2 - 3.5			
14. Test and calibrate all automatic- and sensor-flushing devices regularly to prevent double/phantom flushes.	3.2 - 3.3			
 Check tank-type toilets for leaks, broken flappers, and other parts failures regularly. 	3.2			
16. Display instructional signage with all dual-flush devices to ensure proper use.	3.2			
 Replace old tank-type and flushometer-valve toilets with WaterSense labeled models, which flush at 1.28 gpf or less. 	3.2			

Commercial Water Leaks Checklist

- Helps direct your search to major culprits of water waste
- Points you to dig deeper using BMPs and assessment resources

Checklist for Spotting Water Waste Here are some of the places leaks may be hiding in your facility. Some leaks require a simple fix like tightening a loose connection, but other equipment maifunctions may require a licensed plumber or facility maintenance professional. Take a quick inventory of potential water waste Throughout the facility: In the restroom: Automatic sensors: Check and adjust sensors regularly to avoid Check for pooling water, rust, or other signs of leakage under pipe connections and near floor drains. Look for signs of moisture double flushing or continuously running water. or mold on your walls, cellings, or floors. Tollets and Urinals: Listen for running water and time the flush Routinely check equipment cooling water lines for leaks and cycle. Regularly inspect and replace worn diaphragm or piston valves. Test tank-type tollets for worn flappers and other leaks with food coloring. Inspect shutoff valves and sensors to ensure they stop continuously running water. Faucets: Check for drips and verify that faucet aerators are still properly installed. Encourage employees to report leaks and broken/loose parts. Showerheads: Look for drips or stray sprays, signs of scale buildup or other mailunctions restricting flow. In the mechanical spaces: Outdoors: Equipment with single-pass cooling: Check system specifications Visually inspect the landscape for water pooling or puddling to to use the minimum water flow rate required for cooling. prevent damage to hardscapes and overwatering plants. Regularly check solenoid valves to make sure water is only Impation systems: Repair broken sprinkler heads and nozzles flowing when needed. spraying in the wrong direction. Consult an imigation auditor Boiler and steam systems: Regularly check steam traps and certified by a WaterSense labeled program to Improve system steam and hot water lines for leaks. efficiency Cooling towers: Read the conductivity meter and the make-up Pools and Spas: Check water levels. A loss of more than 2" per and blowdown flow meters regularly and log readings. Check the week in the water level may mean a leak. make-up and blowdown valves to make sure they cut off the flow of water cleanly. In the kitchen: All equipment: Shut down or use standby mode for all Find more information about water-efficient best practices, tools. continuous flow equipment between uses. Inspect shutoff and case studies on the WaterSense website valves to ensure they are working properly https://www.epa.gov/watersense/commercial-buildings. Pre-rinse soray valves: Clean openings as needed for smooth Remember to look for the WaterSense label when purchasing spray. Train employees to use always-on clamps only when plumbling products. WaterSense labeled products are necessary. independently certified to use at least 20 percent less water and perform as well or better than standard models. Dishwashers: Manual fill valves should close completely after the wash tank is full, inspect and repair valves and rinse Fixing leaks at your workplace is important, but so is fixing leaks. nozzies. in your household. For more information on fixing leaks wherever they are, visit Steam equipment: Inspect and replace gaskets and tighten https://www.epa.gov/watersenseffx-leak-week hinges on doors to retain heat or steam. Food disposal systems: Turn off water to disposals during idle

epa.gov/watersense

periods. Train users to manually scrape as much food waste as

possible first.



Best Management Practices



WaterSense at Work is an online guide facilities can use to manage water use:

Water management planning

Water use monitoring and education

Sanitary fixtures and equipment

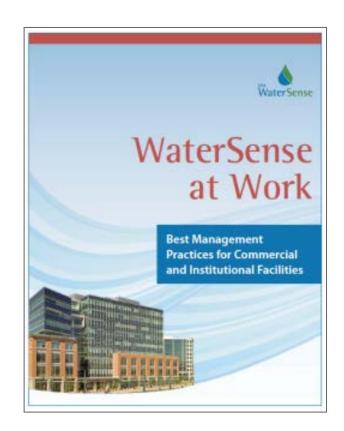
Commercial kitchen equipment

Outdoor water use

Mechanical systems

Laboratory and medical equipment

Onsite alternative sources of water





EPA's 1-100 Water Score for Multifamily Buildings

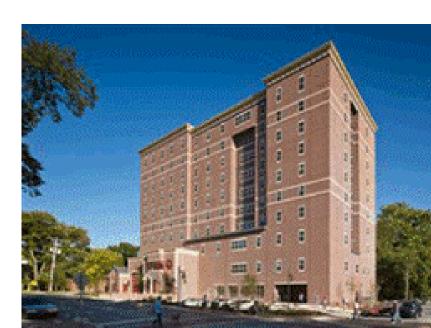


Score is calculated with a water use intensity metric

- Based on whole building water use intensity (total water use/divided by sq ft of indoor space)
 - Takes both indoor and outdoor water use into account
 - Many existing Portfolio Manager users only need to add irrigated area to get a score!
- Normalized for weather and operating characteristics (unit density, irrigated area)

No EPA certification or building label based on the Water Score

Available for existing multifamily buildings with 20 or more units





Multifamily Guides



Water efficiency management guides focused on multifamily buildings cover:

- Bathrooms
- Residential kitchens and laundries
- Outdoor Water Use
- Mechanical systems

Multifamily Water Assessment Tool – (coming soon)

https://www.epa.gov/watersense/water-scoremultifamily-housing



ŞEPA



Outdoor Water Resources



- WaterSense Water-Smart Landscaping Guide <u>https://www.epa.gov/sites/production/files/2017-</u> <u>01/documents/ws-outdoor-water-efficient-landscaping.pdf</u>
- Regionally-appropriate Plant Lists What to plant and where https://www.epa.gov/watersense/what-plant



- Micro-irrigation drip irrigation guides https://www.epa.gov/watersense/watering-tips#smarter-tech
- Expert assistance with irrigation system design, install, audit:
 Directory of Certified Irrigation Professionals
 https://www.epa.gov/watersense/irrigation-pro



Water Reuse Guides



- William J. Worthen Foundation Water Reuse Practice Guide
 - <u>https://www.collaborativedesign.org/water-reuse-practice-guide/</u>
 - Onsite non-potable reuse guide covers all aspects of planning, technical details, along with permitting and communications
- EPA Office of Water –

https://www.epa.gov/ground-water-and-drinking-water/potable-water-reuse-and-drinking-water

- 2017 Potable Reuse Compendium
- 2012 Guide for Water Reuse indirect potable, non-potable







2018 webinars are held on Wednesdays at 1:00 pm EDT. Register at energystar.gov/buildings/training

Make a Splash with Quick Water Wins

June 13th

Beat the Peak – Using Water Wisely for

July 11th

Commercial Outdoor Spaces

Saving Water in Restrooms with WaterSense

Sept 19th

Minimizing Water Use in Mechanical/HVAC Systems

Oct 17th

EPA's 1-100 Water Score for Multifamily Buildings –

Nov 14th

What's My Score and How Do I Improve It?

Every Drop Counts - Assessing and Evaluating Water Efficiency in Capital Improvement Projects

Dec 12th



Contact Us



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Additional Resources



City of Boulder Commercial, Industrial, and Institutional (CII) Water Assessment Tool and User's Guide – based on WaterSense at Work

http://www.brendlegroup.com/water/cii-water-assessment-tool

South Florida Water Management District Water Efficiency and Self-Conducted Water Audits at Commercial and Institutional Facilities Guide

https://www.sfwmd.gov/documents-by-tag/waterefficiency

Environmental Defense Fund, AT&T, & GEMI

Cooling Towers - Toolkit with Scorecard and WaterMAPP Tool http://business.edf.org/projects/featured/water-efficiency-and-att/water-efficiency-toolkit-2

Water Reuse Practice Guide

https://www.collaborativedesign.org/water-reuse-practice-guide/

