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160 030 7366

#### Questions

- There will be a Q&A session at the end of the presentation.
- Submit questions to the organizer and panelists via the Q&A box or the Chat to "Host."

#### Presentation Slides & Recording

- Presentation slides will be sent to all participants.
- This session will be recorded, however the Q&A session will not be included in the recording.

#### Notes

• To improve audio quality, all attendees are muted upon entry.

# Reducing Costs With Quick Water Wins

Kersey Manliclic, EPA WaterSense

Holly Cannon, ERG

Delorean "Doc" Wiley, Austin Water



# What is WaterSense?

- 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



## **WaterSense Labeled Products**



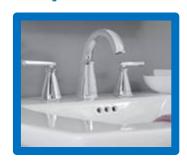
#### **Indoor products**



Showerheads



Tank-Type Toilets



Lavatory Faucets



Flushometer Valve Toilets



\*NEW\* Point-of-use Reverse Osmosis Systems



Flushing Urinals

#### **Outdoor products**



Spray Sprinkler
\_\_\_\_ Bodies



Weather-based



based Soil Moisture-based Irrigation Controllers

More than **45,000** product models have earned the label.

### 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!



# **Best Management Practices**



# WaterSense at Work: Best Management Practices for Commercial and Institutional Buildings

Water management planning

Water use monitoring and user education

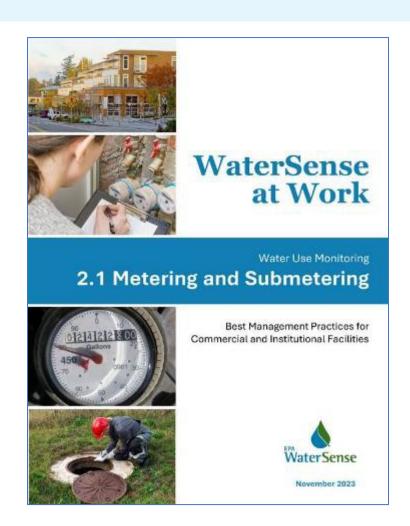
Sanitary fixtures, kitchen equipment

Outdoor water use, Mechanical systems

Lab & medical equipment

Onsite alternative sources of water

www.epa.gov/watersense/best-managementpractices







#### Quick Wins – Low level of effort, no/low capital expenditure

- Metering, submetering, AMI, reviewing bills
- Finding and fixing leaks
- Involving employees and vendors in reducing water use
- Changing O&M practices and implementing low-cost retrofits/replacements

#### **Moderate Scale Projects** – Moderate LOE and investment

• Ex. conducting a full water assessment to verify opportunities and savings

#### Large Scale Projects - High LOE, capital expenditures

• Ex. Replacing equipment and systems, renovating, incorporate water efficiency in new spaces

## Review Bills Monthly

- Assign someone at the facility to look at water use data via the water bill every month
- Look for anomalies or spikes in water use—these could be leaks
- Consider if you should have reduced sewer charges for water lost to evaporation from cooling towers or water applied to the landscape for irrigation

City Water and Wastewater Bill								
Bill Date: October 1, 2023 Due Date: November 1, 2023 Account Number: 987654-32		Customer Name: Facility XYZ Service Address: 123 Anywhere Lane						
Billing Detail:  Water Charges: (a) Tier 1 – (0-100) \$4.70/ccf Tier 2 – (101-250) \$5.10/ccf	100 150	\$470.00 \$765.00		.38 .43 .00				
Tier 2 – (101-250) \$5.10/ccf Tier 3 – (251-500) \$5.73/ccf Tier 4 – (500+) \$6.13/ccf  Total Water Charges	250 50 550	\$1,432.50 \$306.50 \$2,974.00	Total Charges \$6,852.  Meter ID: 12345  Meter Size: 2"  Current Meter Reading 33,1					
Wastewater (Sewer) Charges: (b) Sewer Consumption \$6.23/ccf	550	\$3,426.50	Water Usage This Period Last Year	581 146 582				
Total Wastewater Charges  Other Charges: (c)  Fire Service	550	\$3, <b>426.50</b> \$27.33	Prior Meter Reading 8 Water Usage This Period (ccf) 1	982 378 104 159				
Stormwater Charge \$104.89/acre Base/Service Charge Total Other Charges	2.1		Consumption (e)	159				
Total Charges		\$6,852.43	Consumption (ccf)  Oct   Ang   Sep   Oct    Ang   Sep   Oct    Oct   Ang   Sep   Oct    Oct   Oct    Oct   Oct    Oct   Oct   Oct    Oct   Oct   Oct    Oct   Oct   Oct    Oct   Oct    Oct   Oct   Oct    Oct   Oct   Oct    Oct   Oct   Oct					

## Submetering

- Don't wait for bills to find problems!
- Submeter specific end uses for data on demand
  - Submeters do not need separate utility accounts—they can be for internal use only
  - Submeter any system using more than 1,000 gallons per day or 100,000 gallons per year—tenant spaces, irrigation systems, cooling towers, single-pass cooling systems
  - Consider temporary flow meters or other water monitoring devices
  - Set up alerts to quickly identify leaks and equipment inefficiencies and malfunctions



# **Leaks and Waste Indicators**

- Leaks and continuous uses of water can be 5-10% or more of a facility's water use
- Identify leaks by:
  - Looking for spikes on water bills
  - Paying attention to alerts from AMI or leak detection or failure abatement devices
  - Looking and listening for drips, running fixtures, puddles, and running fixtures during a daily facility walk-through
  - Ensuring employees and staff have a way to report leaks
  - Fully evaluating and accounting for facility water use by conducting a full water use assessment and developing a water balance



## **Leak Detection Devices**



#### In-line Flow Sensors



- Flow sensing technology monitors the flow of water into the facility and detects leaks.
- Auto shut-off valve and alerts

#### Surface Leak Sensors



- Detect the presence of water in areas where it should not be
- Multiple sensors can be placed in different areas
- Some systems use an auto shut-off valve

# Non-invasive Leak Detectors



- Include temporary flow meters and acoustic detection devices
- Used to identify leaks in specific areas
- Do not always provide 24/7 monitoring





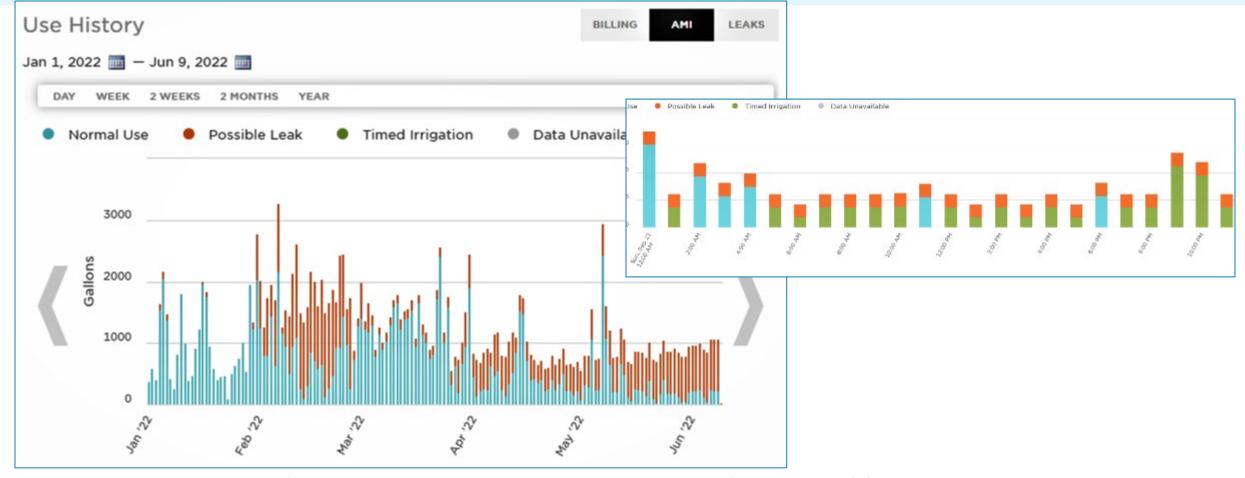


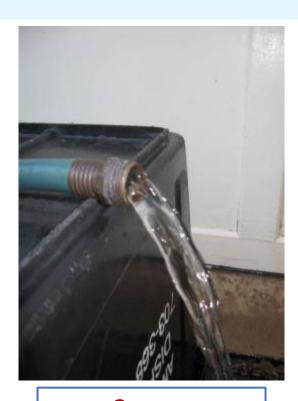
Image from VXengage portal provided by VertexOne, care of Scotts Valley
Water District

# **Stop Sending Money Down the Drain**





1 gpm 500,000 gal/year \$5,500/year\*



2 gpm 1,000,000 gal/year \$11,000/year\*



6 gpm 3,000,000 gal/year \$33,300/year\*

# **Potential Leak Losses**



Malfunction	Leaking Flow Rate (gpm)	Water Loss	Estimated Cost of Water Loss		
Leaking Toilet					
Small (e.g. worn flapper) Medium (e.g. misaligned flapper) Large (e.g. stuck fill valve)	0.02 gpm 0.2 gpm 3.0 gpm	860 gallons per month 86,000 gallons per month 4,300 gallons per day	Up to \$1,400 per month		
Drip Irrigation Malfunction	1.0 gpm	43,200 gallons per month	\$5,700 per year		
Unattended Water Hose at Night	10.0 gpm	5,400 gallons per day	\$22,000 per year		
Broken Distribution Line For:					
One Day One Week One Month	15.0 gpm 15.0 gpm 15.0 gpm	15.0 gpm 151,200 gallons			
Tempering Water Line on a Steam Sterilizer Stuck in the On Position	2.0 gpm	86,400 gallons per month	\$11,500 per year		
Stuck Float Valve in a Cooling Tower	5.0 gpm	216,000 gallon per month	\$29,000 per year		

# **Involve Employees**



#### Add specific tasks to existing routines



#### **Property or Facility Manager**

Check meters during off-hours – movement can be a leak

Incorporate looking for leaks into daily facility walk-through

Check cooling towers (if applicable) for water going to overflow

Initiate low-cost retrofit projects



#### **Housekeeping & Cleaning Staff**

Report dripping or clogged faucets and showerheads and continuously running toilets to facility management

# **Involve Employees**









#### **Landscape Staff/Contractor**

Look for broken sprinkler heads, puddles on the landscape, sprinklers spraying on hardscape, and other signs of leaks or waste

Adjust irrigation controller schedules to account for recent wet weather

#### **Kitchen Staff**

Shut-off equipment between uses, especially food disposals

Hand scrape dishes and dry sweep floors

Try to fill machines (e.g., dishwashers, steam cookers, combination ovens) to reduce cycles and water use

Thaw frozen food in the refrigerator instead of under running water

# Post Signage to Educate









## **Restroom Maintenance**





#### Test

Test the water pressure serving each floor to achieve expected fixture performance – optimal pressure is between 20 and 80 psi



#### **Inspect**

Annually inspect valves and replace worn parts

Adjust automatic

sensors on fixtures



#### Check

Check for tampering –
sometimes users disable
sensors, remove
aerators, or otherwise
damage fixtures



#### Remove

Regularly inspect for and remove scale build-up and biofilm on all fixtures especially faucets and showerheads

# **Stop Running Toilets!**



Periodically check tank-type toilet fill valves and tank water levels

- Adjust the float lower if the water level is set above the overflow tube.
- A constantly running fill valve can waste between 0.5 and 3 gpm, wasting up to 4,300 gallons of water per day.

Use dye tablets or food coloring to test toilet flappers for leaks annually

• Small leaks from worn toilet flappers may be hard to detect, but they can waste approximately 30 gallons per day, or almost 900 gallons per month.

Replacing fill valves or installing a new flapper will pay for itself in avoided water and wastewater costs in one to two months

A running toilet at 0.5 gpm can waste 21,600 gallons of water per month!



Leaky Loo McFlapper leading the race to catch leaks in AZ

# **Stop Running Toilets!**

- Flushometer-Valve Toilets and Flushing Urinals – Timed Flush Test
  - Count the number of seconds that elapse during flush cycle time
  - Multiply seconds by 0.42 for flushometer-valve toilets and 0.25 for urinals to get gallons per flush\*
  - Some flushometer-valve toilets and urinals can run non-stop if they have worn parts!

Flush Volume	Expected Flush Time				
Toilets					
1.6 gpf	4 seconds				
1.28 gpf	3 seconds				
1.1 gpf or less	2 to 2.5 seconds				
Urinals					
1.0 gpf	4 seconds				
0.5 gpf	2 seconds				
0.25 or less gpf	1 second				

<sup>\*</sup> South Florida Water Management District Water Efficiency and Self-Conducted Water Audits at Commercial and Institutional Facilities Guide <a href="https://www.sfwmd.gov/documents-by-tag/waterefficiency">https://www.sfwmd.gov/documents-by-tag/waterefficiency</a>

# **Adjust Automatic Sensors**



- Automatic sensors are not intended for water efficiency; they are for hygiene
- Malfunctioning sensors can:
  - Flush toilets and urinals unnecessarily known as double or phantom flushes
  - Run faucets longer than needed or cut off too early forcing users to use extra cycles
- Sensors can be disabled by dissatisfied users or cleaning staff
- Calibrate sensors regularly using the manufacturer's instructions

## **Low-Cost Restroom Retrofits**



Product	Retrofit Option
Flushometer-valve toilets	<ul> <li>For toilet bowls marked 1.6 gpf or less, if the manufacturer allows, consider:</li> <li>Valve inserts with lower flush volumes (i.e., 1.28 gpf)</li> <li>Dual-flush retrofit kits</li> </ul>
Urinals	• For urinals marked 1.0 gpf or less, <b>if the manufacturer allows</b> , consider valve inserts with lower flush volumes (i.e., 0.5 gpf)
Private-use faucets	WaterSense labeled faucet accessory operating at 1.5 gpm or less
Public-use faucet	0.5 gpm faucet accessory
Showerheads	Thermostatic shut-off valve



Average cost = \$5-10 each

### **Cooling Towers**

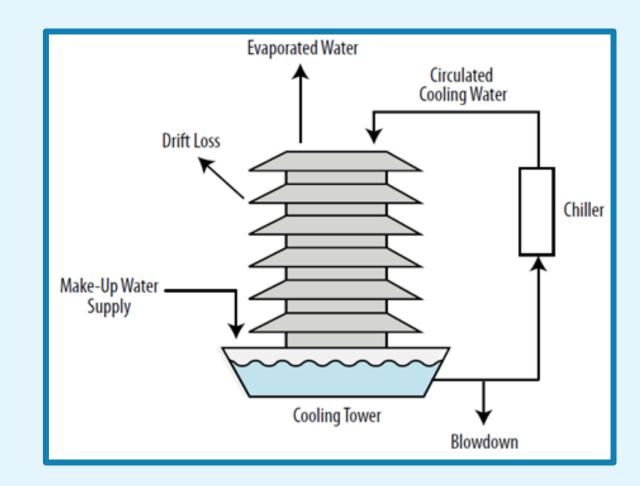
# Cooling towers can account for **20-50%** of total facility water use

- High energy use to pump water continuously
- Evaporation is not the target for water efficiency
- Reduce drift and prevent overflow
- Monitor water chemistry and flow
- Maximize cycles of concentration



# **Optimize Cooling Towers**

- Cycles of concentration is an indicator of the number of times water can be recirculated in the system before it's discharged to the sewer (limited by incoming water quality)
- Choose a water treatment vendor that specializes in water efficiency and wants to maximize cycles of concentration without sacrificing performance
- Read water chemistry reports to verify cycles of concentration goals



# Working With Treatment Vendors



WATER TREATMENT SERVICE REPORT

Address: US EPA Region 6 Laboratory

10625 Fallstone Rd. Houston, TX. 77099 Report Date:

10/4/2010

below target range above target range

Copies To: Dan Peronis, Ashland File

			# Samples	
System	Today's		in	Control
	Sample	Average	Average	Range
Make-Up Water				
рН	7.7	7.6	45	
Conductivity (umhos)	428	522	46	
Calcium Hardness (ppm)	0	13	44	
Total Alkalinity (ppm)	100	184	42	
Cooling Tower Water				
рН	9.10	9.0	45	8.5 - 9.5
Conductivity (umhos)	2755	2509	46	< 2750
Calcium Hardness (ppm)	16	14	41	< 40
ORP	194	171	44	record
Enviroplus 1503	5.9	6.1	46	4.5 - 6.0
Microbiological Counts (CFU/mL)	100	1188	30	<10,000

# **Savings Potential From Increasing Cycles of Concentration**



Increasing cycles of concentration from 3 to 6 reduces cooling tower water usage by **20 percent** 

New Concentration Ratio (CRf)												
		2	2.5	3	3.5	4	5	6	7	8	9	10
(Cri)	1.5	33%	44%	50%	53%	56%	58%	60%	61%	62%	63%	64%
Ratio	2.0	1	17%	25%	30%	33%	38%	40%	42%	43%	44%	45%
on R	2.5	-	1	10%	16%	20%	25%	28%	30%	31%	33%	34%
ratio	3.0	-	1	1	7%	11%	17%	20%	22%	24%	25%	26%
cent	3.5	1	1	1	1	5%	11%	14%	17%	18%	20%	21%
Con	4.0	-	1	1	1	-	6%	10%	13%	14%	16%	17%
Initial Concentration	5.0	_	1	1	1	_	_	4%	7%	9%	10%	11%
irl	6.0	-	-	_	_	-	-	-	3%	5%	6%	7%

# **Potential Cooling Tower Failure Points**



#### Mechanical Failures

- Stuck or broken make-up or blowdown valve
- Faulty or incorrectly installed sensors
- Pump failures
- Pipe leaks
- Controller malfunction
- Chemical feed system issues

#### **Operational Failures**

- Incorrect set points
- Incorrect water level
- Chemical feed system issues

#### Recommendations

- Assign someone to be responsible!
- Check overflow drain as often as feasible
- Monitor meter readings and calculate cycles
- Evaluate whether conductivity set point is being achieved

# **Irrigation Efficiency**





#### Find Outdoor Water Waste

- Check the system for broken or clogged sprinkler heads
- Make sure sprinkler heads do not tilt too high or too low
- Move or adjust sprinkler components to avoid watering pavement
- Look for pooling and puddling
- Audit your irrigation system using an irrigation professional certified by a WaterSense labeled program every 3 years





www.epa.gov/watersense/find-pro

# **Irrigation Efficiencies**







Update irrigation schedules regularly to account of weather changes

Schedule each individual zone separately

Install and monitor submeters to indicate inefficiencies or leaks



#### **Irrigation controllers**

Replace traditional manual or clock timers with WaterSense labeled controllers

Install rain shutoff devices or sensors





#### **Sprinklers**

Check the pressure in the irrigation system – high or inconsistent pressure wastes water

Install WaterSense labeled spray sprinkler bodies to maintain constant pressure and flow



# Quick Wins - Commercial Water Conservation

Dr. Delorean S. Wiley WaterSense Webinar





March 26, 2025



# New ICI Program Manager

Dr. Delorean S. Wiley
Ph.D. Geography, Texas State University
M.S. Sustainability, Texas State University
B.S. Agribusiness, Texas A&M University
10+ years business experience across
Agribusiness and IT

City of Austin | Austin Water 512-972-0449 | Delorean.Wiley@austintexas.gov

# **Program Trends**

Decline since COVID pandemic

A lot of guesses why



This Photo by Unknown Author is licensed under CC BY-NC-ND

Little data to support any hypothesis





# Incentives and Rebates

- WaterWise Landscape (HOA only) & Rainscape (schools only)
- Bucks for Business
- Cooling Towers & Alternative Cooling Systems
- Commercial Kitchen
- Irrigation System Improvement

- Rainwater Harvesting
- Water Efficiency Audit
- Cartridge Pool Filter
- Pressure Regulating Valve
- Voluntary Reclaimed Connection Pilot



# Consolidate Rebates

- Water Efficiency "Evaluation"
  - Benchmark
- Bucks for Business
  - Performance Based
- Reclaim Connection
  - Outdoor Use

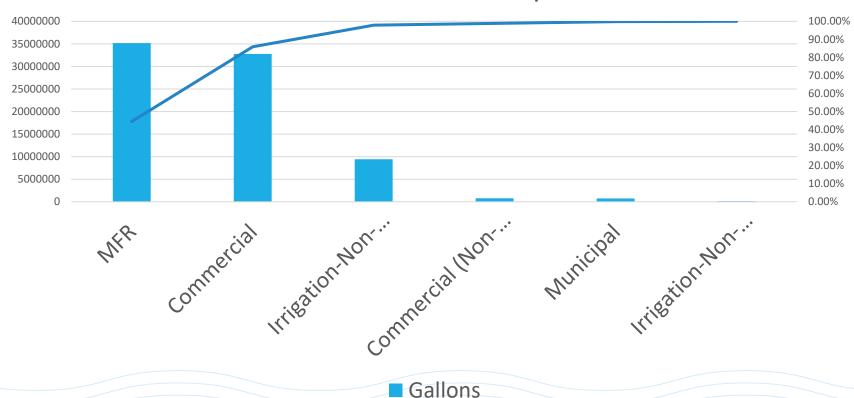




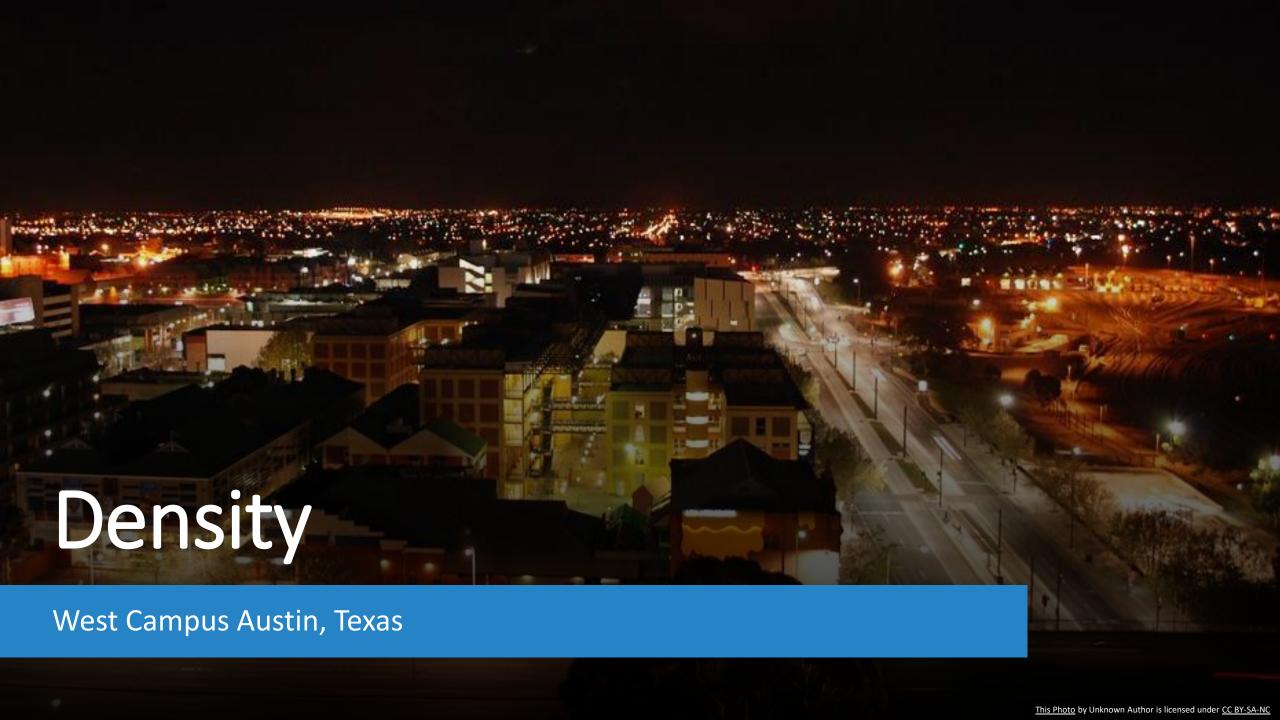


# Using Data for Decision Making

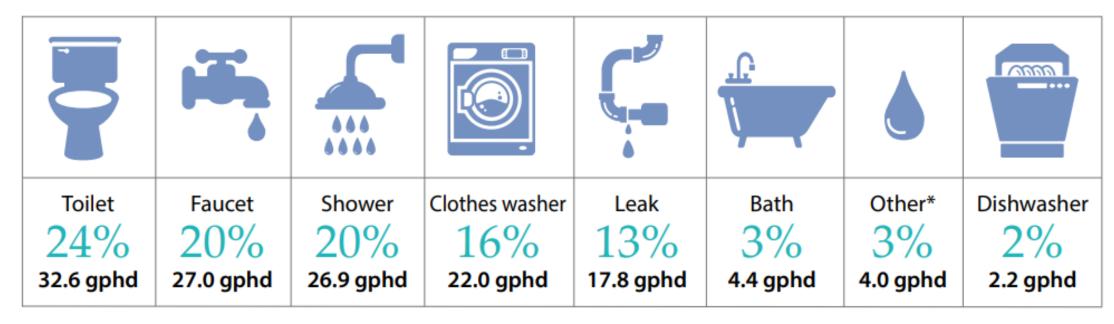
#### Pareto of CII Consumption







# Indoor Water Use

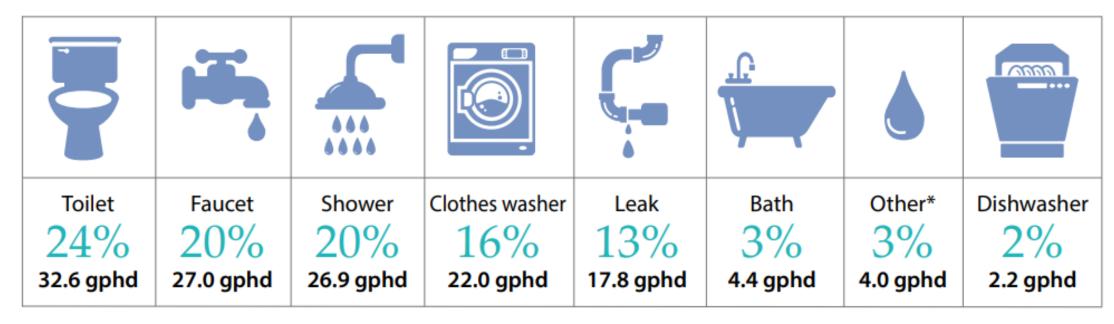


Source: Water Research Foundation, 2016

- Behavior is different if not directly paying the bill
- Leaks are often reported late or go unreported
- Toilets are often the culprit and simple to fix



# Indoor Water Use



Source: Water Research Foundation, 2016

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- Toilets are often the culprit and simple to fix





# MFR Indoor Efficiency

- Student Housing
- Subsidized Housing

# Results

- 14 of 16 properties had real measurable savings
  - ~7 million gallons in one year
- Seasonality in usage



13% savings in student housing overall



Subsidized housing properties saw savings between 30-45%

\*Also changed out showerheads and aerators.



# **Deeper Dive**



#### Apartment Style

- Flow management device was savings 25%, within its stated savings range.
- Buildings with increase most likely have other things driving usage



#### Dorm Style

- Meters had not been changed to AMI yet
- Leak detection versus behavior change – unknown driving force until upgraded



# **Targeted Outreach**

Work on continued relationship through tabling events

Fall back in love with water savings







Source: Water Score for Multifamily Housing | US EPA

### Water Efficiency and the Water Budget







# What You Can Do Right Now



- Review your water bills and/or AMI data to identify large leaks
- Ensure facility walk-throughs include looking and listening for leaks at all water end uses
- Ensure facilities management staff, housekeeping and cleaning staff, kitchen staff, and all employees are prioritizing water efficiency and reporting leaks
- Find and fix leaks immediately!
- Ensure your cooling tower water chemistry vendor and landscape/irrigation contractor share your goals of water and cost savings
- Implement low-cost O&M and retrofit projects—check with your utility for rebates and incentives!

# **Tools for Getting Started**



#### Fix a Leak Week



Are you ready to chase down leaks? Household leaks can waste nearly to

Leaks Can Run, but They Can't Hide

hunt down the drips during Fix a Leak Week. Mark your calendars for EF remember that you can find and fix leaks inside and outside your home

From family fun runs to leak detection contests to WaterSense demonst are all geared to teach you how to find and fix household leaks. See our view past events!

Learn how to find and fix leaks during Fix a Leak Week. It's as easy as 1-

#### In the Workplace

look for

Leaks don't just happen at home. You should be on the lookout for leaks even when you are at work. Here are some ways to help find and fix leaks in your workplace.

- If you see a leak-in the restroom, pantry, or outdoors-report it to your maintenance staff.
- Organize a Fix a Leak Week event in your facility to challenge employees and tenants to find leaks and report water waste. You may even be able to get your local water utility to help.
- Post signs in restrooms and pantries to encourage everyone to look for leaks and report problems. Include information on who they
  should contact. WaterSense developed some graphic tools you can use to communicate with employees on the need to report leaks.
  - Fix a Leak Week Commercial Resources (zip)
- Spread the word about saving water to all tenants, as well as cleaning, housekeeping, maintenance, landscaping staff, and contractors.
- Use our checklists to keep track of areas to check for leaks: Fight Leaks and Water Waste in your Facility Checklist(2 pp, 638 K, About PDF) and Stop, Look, and Listen for Leaks! (pdf) (485.04 KB)
- Interested in knowing more about how to fight leaks and water waste in commercial buildings? We have advice to help you get started.

https://www.epa.gov/watersense/fix-leak-week#In%20The%20Workplace

# **Tools for Getting Started**

Find more information about water-efficient best practices, tools

and case studies on the WaterSense website





# Fight Leaks and Water Waste in your Facility with WaterSense

#### Did You Know!

At around 6 percent of water use, leaks can be the greatest source of water waste within a facility. Leaks and continuously running water may not always be visible, but they can add up quickly and become a major cost in water and energy bills.

Most plumbing fixtures and water-using equipment have physical components including valves, flappers, and gaskets that can break down over time. Broken parts may not always stop the water from flowing, but they can reduce efficiency or cause leaks. Equipment malfunctions can cause water to run continuously instead of shutting off. Often these kinds of "leaks" go undetected for long periods because they are not causing any damage or disruption to daily operations.

Other types of leaks may seem insignificant, but can cause damage inside walls, under floors, and outdoors



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 mailfunctions may require a licensed plumber or facility maintenance professional. Take a quick inventory of potential water waste in your facility:

Throughout the facility:	In the restroom:
Check for pooling water, rust, or other signs of leakage under pipe connections and near floor drains. Look for signs of moisture or mold on your walks, ceilings, or floors.  Routhely check equipment cooling water lines for leaks and corrosion.  Inspect shutoff valves and sensors to ensure they stop continuously running water.  Encourage employees to report leaks and brokenfloose parts.	Automatic sensors: Check and adjust sensors regularly to avoid double flushing or confinuously nurning water.  Toliets and Urines: Listen for running water and time the flush cycle. Regularly inspect and replace worm diaphragm or piston valves. Test tami-type toliets for worm flaspers and other leaks with food coloring.  Eaucets: Check for drips and verify that faucet aerators are still properly installed.  Showerheads: Look for drips or stray sprays, signs of scale buildup or other malfunctions restricting flow.
In the mechanical spaces:	Outdoors:
Equipment with single-pass cooling: Oheck system specifications to use the minimum water flow rate required for cooling. Regularly check solenoid valves to make sure water is only flowing when needed.  Boiler and sleam systems. Regularly check steam traps and steam and hot water lines for leaks.  Cooling towers: Read the conductivity meter and the make-up and blowdown flow meters regularly and log readings. Check the make-up and blowdown valves to make sure they cut off the flow	Visually inspect the landscape for water pooling or puddling to prevent damage to hardscapes and overwatering plants.  Intigation systems: Repair broken sprinkler heads and nozzles spraying in the wrong direction. Consult an imigation auditor certified by a WaterSense labelled program to improve system efficiency.  Pools and Spas: Check water levels. A loss of more than 2" per week in the water level may mean a leak.
of water cleanly.	

All equipment: Shut down or use standby mode for all

values to ensure they are working properly

continuous flow equipment between uses. Inspect shutoff



### WaterSense Commercial Facility Leaks Checklist included in Fix a Leak Week Resources

Tips to identify and Address Potential Water Waste	Section of WaterSense at Work!	Done	Notes
SANITARY FIXTURES			
<ol> <li>Post signs in restrooms to instruct users to report leaks and continuously flushing flutures.</li> </ol>	3.2 - 3.4		
11. Tank-type tollets: Check tank-type tollets regularly for leaks, broken flappers, and other parts failures. Annually test toilets using a dye test to ensure the flappers are not worn or allowing water to seep from the tank into the bowl and down the sewer. Drop a dye tablet or several drops of food coloring in the tank. After 10 minutes, see if the dye has leaked into the bowl, which indicates a leak. Flush immediately.	3.2		
12. Check the toilet fill valves for water overflow to make sure fill valves are not running constantly.	3.2		
13. Flushometer-valve toilets and urinals: Inspect diaphragm or piston valves annually and replace any worm parts. To determine if the valve needs replacement, time the complete flush cycle. A property functioning flushometer valve toilet should not have a flush cycle longer than four seconds for a 1.6 gallon per flush (gpf) valve and three seconds for a 1.28 gpf valve. A urinal flush cycle should be completed in three seconds for a 1.0 gpf valve and two seconds for a 0.5 gpf valve. If longer, check the flush volume adjustment screw or consider replacing the valve or valve insert.	3.2 – 3.3		
14. Periodically check to ensure the control stop (which regulates the flow of water from the inlet pipe to the flushometer valve) is set to fully open during normal operation.	3.2 – 3.3		
15. Periodically inspect the flush volume adjustment screw to ensure the flush volume setting has not been modified from the original settings to use more water per flush than needed.	3.2 – 3.3		
16. If replacing valves or valve inserts, make sure the new ones are consistent with the manufacturer's specifications. Ensure the rated flush volume matches the acceptable range for the fixture.	3.2 – 3.3		



WaterSense Operations and Maintenance Checklist included on WaterSense's Tools for CI Facilities page at <a href="https://www.epa.gov/watersense/tools-ci-facilities">https://www.epa.gov/watersense/tools-ci-facilities</a>

## Water Wednesdays



- Recorded webinars from 2024 available at <a href="https://www.epa.gov/watersense/webinars">https://www.epa.gov/watersense/webinars</a> on these topics:
  - Water and Cost Savings From Capital Improvement Projects
  - Conducting a Water Assessment
  - Using Water Wisely Outdoors
  - Saving Water and Costs in Restrooms
  - Minimizing Water Use for Building, Process, and Equipment Cooling
  - Using Portfolio Manager® to Understand Water Use Intensity
  - Advanced Metering Infrastructure
- Register for 2025 Water Wednesday webinars when links available. Look out for email announcements.
  - Contact us to become a case study speaker!

### **Contact Us**



#### **WaterSense**

www.epa.gov/watersense

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