

Climate Smart Communities Webinar

Telephone call-in number

- 1-866-394-2346
- Code: 1982360347#
- No audio signal will be transmitted over the Internet



Welcome

Kim Farrow

Environmental Program Specialist

Office of Climate Change

New York State

Department of Environmental Conservation



Climate Smart Communities Webinar

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Climate Smart Communities Webinar

Website Address



<http://www.dec.ny.gov/energy/50845.html>

Climate Smart Community Webinars

Schedule: <http://www.dec.ny.gov/energy/86246.html>

- October 9, 10:30 a.m. *Community Energy Options: Combined Heat and Power Plants, and Distributed Generation.*
- November 11, 10:30 a.m. *Community Energy Options: Microgrids and Community Choice Aggregation.*

Coming Events

- September 26, 11:00 a.m. NY-Sun PV Trainers Network Introductory Webinar. <https://training.ny-sun.ny.gov/> (click “Courses”)
- October 2-4. *Conference on the Environment.* Doubletree Hotel, Binghamton. <http://www.nyscoe.org/>

New York's Climate Smart Communities Certification Program

Local Action for Emissions Reduction and Climate Change Resiliency

<http://www.dec.ny.gov/energy/96511.html>



Mark Lowery
Climate Policy Analyst
Office of Climate Change
New York State Department of
Environmental Conservation



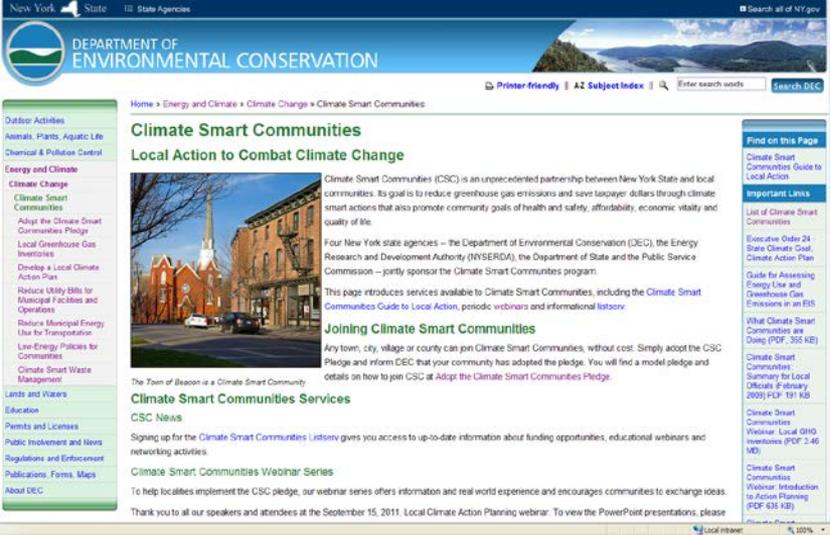
Climate Smart Communities

A New York State Program of Climate Support for Municipal Governments

Information and assistance for local GHG emissions reduction and adaptation

- Department of Environmental Conservation
- Department of Health
- Department of State
- Department of Transportation
- Energy Research & Development Authority
- Public Service Commission

<http://www.dec.ny.gov/energy/50845.html>



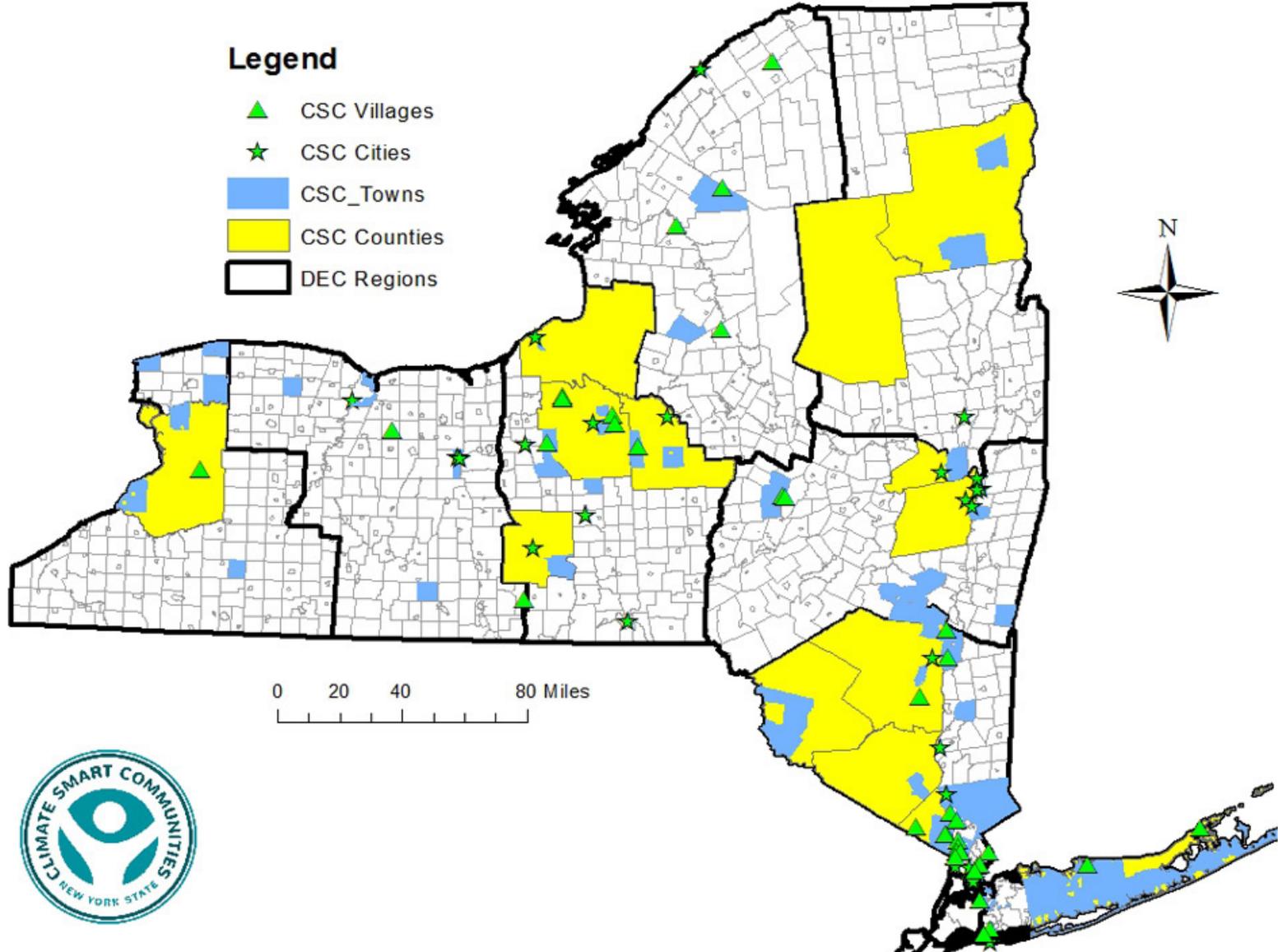
Climate Smart Communities Support for Local Climate Action

- **Pledge:** commitment to a complete local climate program
- **Information:** online guidance, webinars, listserv, decision-support tools, best management practices guides
- **Technical assistance:** CSC coordinators, Economic Development Growth Extension agents (EDGE),
- **Certification:** leadership recognition, framework
- **Funding:** may receive preference for funding, generally better positioned to compete for funds



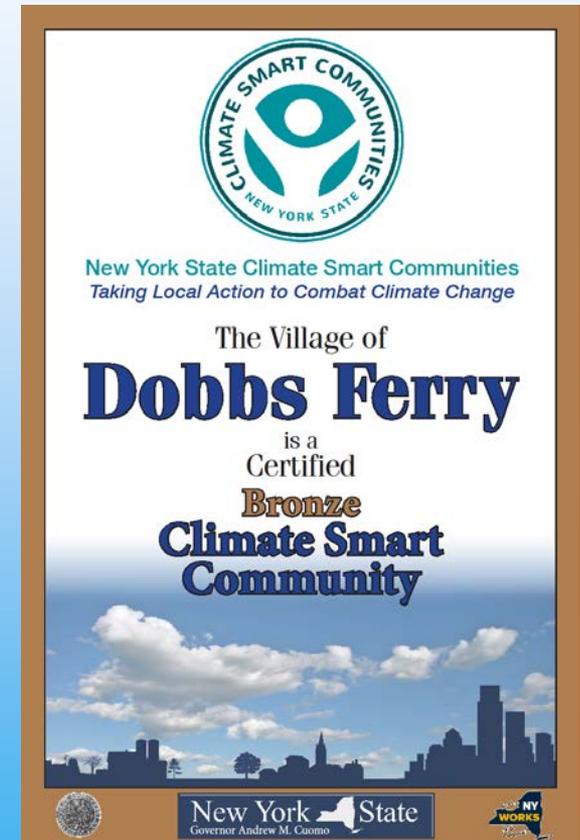
141 Climate Smart Communities

New York State Climate Smart Communities



Climate Smart Communities Certification

- Goals:
 - To encourage local action through recognition
 - To provide a more structured framework of local climate actions, while maintaining flexibility to all CSCs to be certified
- Program Organization:
 - 10 Pledge elements
 - Points earned upon documentation of completed actions
 - 1 to 10 Points per action
 - Some tiered
 - 13 Required



CSC Pledge Elements

1. Pledge to be a Climate Smart Community.
2. Set goals, inventory emissions, plan for climate action.
3. Decrease community energy use.
4. Increase community use of renewable energy.
5. Realize benefits of recycling and other climate-smart solid waste management practices.
6. Reduce greenhouse gas emissions through use of climate-smart land-use tools.
7. Enhance community resilience and prepare for the effects of climate change.
8. Support development of a green innovation economy.
9. Inform and inspire the public.
10. Commit to an evolving process of climate action.

Priority Actions



- 1.1 Pass a resolution adopting the CSC Pledge
- 1.2 Create a community Climate Smart Community task force focused on climate mitigation and adaptation
- 1.3 Appoint a Climate Smart Community coordinator
- 1.4 Create an internal green team focused on climate mitigation and adaptation
- 2.1 Develop a government operations GHG emissions inventory
- 2.2 Develop a community GHG emissions inventory
- 2.3 Establish a government operations emissions reduction target
- 2.4 Establish a community emissions reduction target
- 2.5 Develop a government operations climate action plan
- 2.6 Develop a community climate action plan
- 3.1 Conduct energy audits of local government buildings
- 7.1 Conduct a vulnerability assessment
- 7.3 Review existing community plans and projects to identify climate adaptation strategies and policies or projects that may decrease vulnerability

Performance & Innovation Points

Performance Bonus Points

- Demonstrated reductions in energy use and greenhouse gas emissions

Innovation Bonus Points

- Innovation in implementation of climate protection actions:
 - Advanced local actions not included in the rating system
 - Innovative approach to implementing an action in the rating system

Certification Levels

Award Level	Points	Pledge Elements	Priority Actions	Additional Priority Actions	Performance/ Innovation Points	
Registered CSC	NA	PE1	1.2	NA	0	
Certified CSC	120	PE1, PE2, PE3, + 2 more PEs	1.1, 1.3	4	0	
Bronze	250	PE1, PE2, PE3, + 4 more PEs	1.1, 1.3	6	5	
Silver	350	PE1, PE2, PE3, plus 5 more PEs	1.1, 1.3	11	10	
Gold	450	All	1.1, 1.3	11	20	

Certification Manual

- Developed by VHB
- Funded by Hudson River Estuary Program
- Piloted in Hudson Valley
- First Certified CSCs:
 - Village of Dobbs Ferry (Bronze)
 - City of Kingston (Bronze)
 - City of Albany
 - Town Cortlandt
 - Orange County
 - City of Watervliet

Who's next?



James Clayton, NYSDEC

Climate Smart Communities Certification Program

Certification Manual



PLEDGE ELEMENT 7: PLAN FOR ADAPTATION TO UNAVOIDABLE CLIMATE CHANGE

Make a commitment to enhance local resilience by establishing a climate resiliency vision and associated goals, identifying vulnerabilities to climate change impacts for both government operations and the community, and developing and implementing strategies to address those vulnerabilities and increase overall community resilience.

Action #	Action Name	Action Pathway Phase	Possible Points	Priority
Pledge Element 7: Enhance community resilience and prepare for the effects of climate change			119	
Establish a Baseline			11	
7.1	Conduct a vulnerability assessment	Assess, Plan, Govern	11	V
Set Goals			2	
7.2	Develop a climate resilience vision and associated goals	Commit	2	
Planning and Policy			15	
7.3	Review existing community plans, policies and projects to identify climate adaptation strategies and policies or projects that may decrease vulnerability	Assess, Plan, Govern	4	V
7.4	Develop climate adaptation strategies	Assess, Plan, Govern	5	
7.5	Incorporate climate resiliency vision, goals, and strategies into local plans and projects	Assess, Plan, Govern	3	
7.6	Update the multi-hazard mitigation plan to address changing conditions and identify specific actions to reduce vulnerability to natural hazards	Assess, Plan, Govern	3	
Strategies to Address Extreme Heat			10	
7.7	Develop and implement a heat emergency plan	Assess, Plan, Govern	4	
7.8	Require shade structures and features in public spaces	Implement	4	

Action #	Action Name	Action Pathway Phase	Possible Points	Priority
7.9	Open new or expand existing cooling centers	Implement	2	
Strategies to Address Flooding			67	
7.10	Create or update a watershed assessment to identify flooding and water quality priorities	Assess, Plan, Govern	4	
7.11	Adopt a floodplain management and protection ordinance to reduce vulnerability to flooding and erosion	Assess, Plan, Govern	3	
7.12	Conserve, revegetate and reconnect floodplains and buffers in riparian areas	Implement	7	
7.13	Conserve natural areas for species migration and ecosystem resilience	Implement	7	
7.14	Facilitate a strategic relocation of uses that are not water dependent from flood prone areas	Implement	5	
7.15	Promote community flood prevention strategies through the National Flood Insurance Program Community Rating System	Assess, Plan, Govern	3	
7.16	Use green infrastructure to manage stormwater in developed areas	Implement	7	
7.17	Conserve wetlands and forests to manage stormwater, recharge groundwater and mitigate flooding	Implement	8	
7.18	Use natural, nature-based or ecologically enhanced shoreline protection	Implement	8	
7.19	Extend areas in which the two foot freeboard requirement applies	Implement	3	
7.20	Require consideration of sea-level rise in planning coastal development	Assess, Plan, Govern	3	
7.21	Right-size bridges and culverts and remove unnecessary and hazardous dams	Implement	5	
7.22	Develop or enhance early warning systems and community evacuation plans	Implement	4	
Strategies to Address Drought			13	
7.23	Implement a water conservation and reuse program	Implement	6	
7.24	Encourage xeriscaping	Assess, Plan, Govern	2	
7.25	Implement a source water protection program	Implement	6	

Please note: The recertification requirements for each action are subject to change in future versions of the CSC Certification Manual.

Pledge Element 6 Actions

#	Actions	Points	Requirements
Land Use and Building Codes			
6.2	Adopt a renewable energy ordinance	4	<ul style="list-style-type: none"> • Adopt a small-scale solar ordinance (1 pt) • Adopt a wind-power ordinance for very small, small, and large wind energy conversion systems (1 pt each) • Reference: Columbia Law School Center for Climate Change Law Model Ordinances
6.3	Establish green building codes	6	<ul style="list-style-type: none"> • Municipal buildings (1 pt) • Commercial buildings (2 pts) • High-rise multi-family residential buildings (1 pt) • One and two-family dwellings (1 pt) • Low-rise multi-family residential dwellings (1 pt)
6.4	Create sustainable site design guidelines	4	<ul style="list-style-type: none"> • Adopted sustainable design standards

Performance Bonus Points

#	Actions	Points	Requirements
12.1	Reduce GHG emissions from government owned facilities	8	<ol style="list-style-type: none"> 1) Reduce GHG emissions for govt owned facilities by 10% (2 pts) 2) Reduce GHG emissions for govt owned facilities by 20% (4 pts) 3) Reduce GHG emissions for govt owned facilities by 30% (6 pts) 4) Reduce GHG emissions for govt owned facilities by 40% (7 pts) 5) Reduce GHG emissions for govt owned facilities by 50% or more (8 pts)
12.2	Reduce GHG emissions from government owned vehicles	5	<ol style="list-style-type: none"> 1) Reduce GHG emissions for govt owned vehicles by 10-20% (1 pts) 2) Reduce GHG emissions for govt owned vehicles by 20-30% (2 pts) 3) Reduce GHG emissions for govt owned vehicles by 30-40% (3 pts) 4) Reduce GHG emissions for govt owned vehicles by 40-50% (4 pts) 5) Reduce GHG emissions for govt owned vehicles by 50% or more (5 pts)

Beginning the Certification Process



1. Review certification materials
2. Designate a project coordinator
3. Get organized
4. Gather publicly available information
5. Request materials from local government staff

Recommendation: Start with priority actions – see “First Steps” resources guide at

www.dec.ny.gov/energy/96532.html .

Applying for Certification

1. Complete documentation submittal form for each action
2. E-mail form and required documentation for each action to climatechange@dec.ny.gov.
3. If necessary, mail to

New York State Department of Environmental Conservation
Office of Climate Change
625 Broadway
Albany, N.Y. 12233-1030
Attn: CSC Certification

Recertify in five years

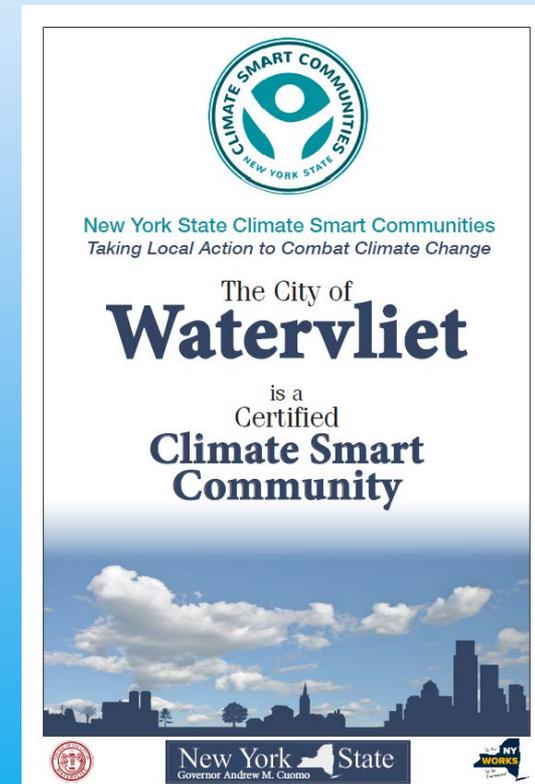


The image shows a 'Documentation Submittal Form' for the 'Climate Smart Communities Certification Program'. The form includes a header with the program name and a logo. Below the header, there are sections for 'Instructions', 'Local Government', 'Action # and Name', 'Document(s) Submitted', and 'Summary of Document(s) Submitted'. The 'Instructions' section states: 'Complete this form for each action in which you are submitting documentation to receive points. List all relevant documentation in the field below for the action. For actions with multiple documents to be submitted, only one form per action is required.' The 'Local Government' section has a blank line for the name. The 'Action # and Name' section has a blank line. The 'Document(s) Submitted' section has a blank line with the instruction: 'List the title and year released for all documents submitted, or include links to relevant websites with a title and date accessed for the website or webpage(s)'. The 'Summary of Document(s) Submitted' section has a blank line with the instruction: 'Explain why the submitted document(s) meet the requirements for the action. Note any specific pages in the document in which the relevant information can be found, if only a portion of the document is relevant for the action.' At the bottom, there is a 'Requested Points' section with a blank line and the text 'Requested Points: ___ of ___ points'.

Benefits of Certification



- Demonstration of local values
- Structured action pathway to emissions reductions, energy savings, a more livable community and resiliency
- Recognition of leadership
 - Constituents
 - Homebuyers
 - Employers
- Better positioning for funding
- Signs!



Office of Climate Change

New York State

Department of Environmental Conservation

625 Broadway, Albany, NY 12233

(518) 402-8448

climatechange@dec.ny.gov

www.dec.ny.gov/energy/44992.htm



Climate Smart Communities

<http://www.dec.ny.gov/energy/50845.html>



look for



WaterSense® A National Brand for Local Results



Janice Whitney, EPA, Region 2
Liaison for the National
WaterSense Program

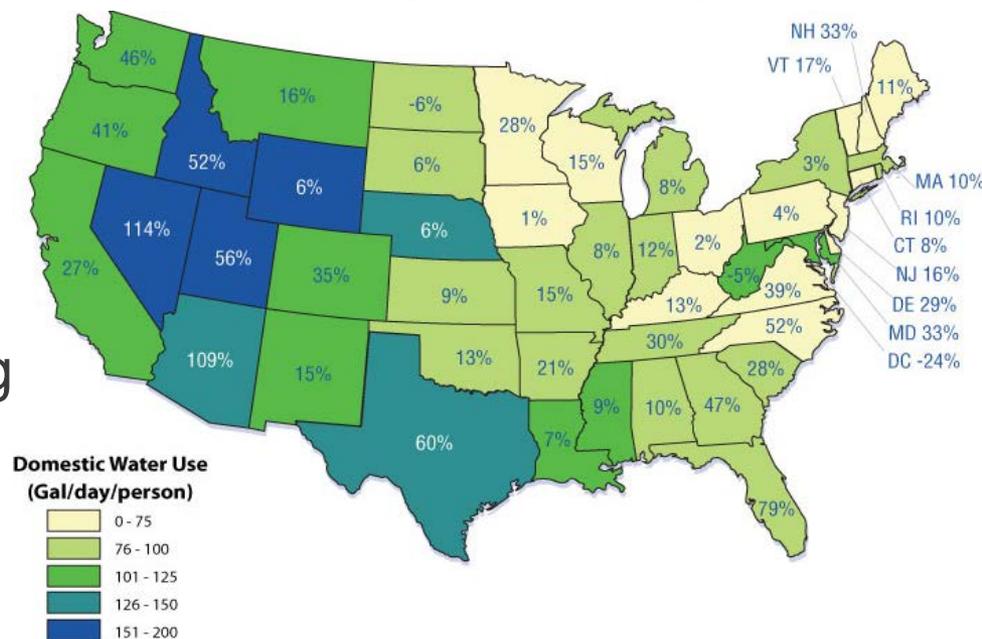


A Thirsty Nation

Our national thirst for water is increasing!

- 1950-2000: U.S. population doubled; public supply system demand more than tripled
- 40 out of 50 states anticipating near-future water shortages
- Further stress by increasing demand coupled with the impacts of climate change

Domestic Water Use in Gallons per Day per Person and Projected Percent Population Change by 2030*

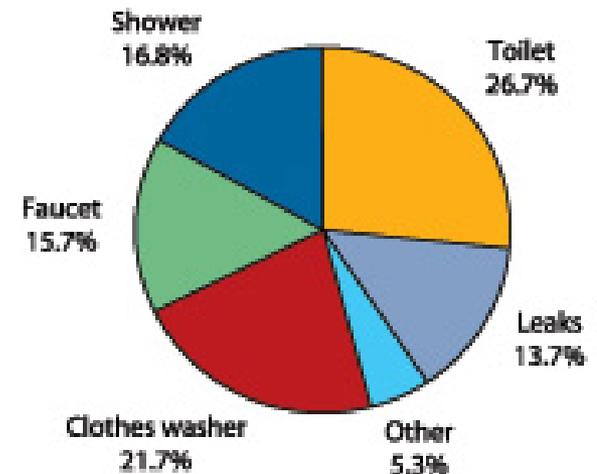


*Source: Water data from USGS, Estimated Use of Water in the United States in 2005. Table 6, Page 20; population data from U.S. Census Bureau, State Interim Population Projections by Age and Sex: 2004-2030.

Inefficient Water Use

- Contributes to the strain on supplies
- Average family: 400 gallons of water per day
 - 70 percent residential water use
 - Older toilets (3.5 gallons per flush [gpf]) that are 60 percent less efficient than today's high-efficiency (1.28 gpf) models
 - 5 to 10 percent of American homes with water leaks that drip at a rate of 90 gallons a day or more

How Much Water Do We Use?



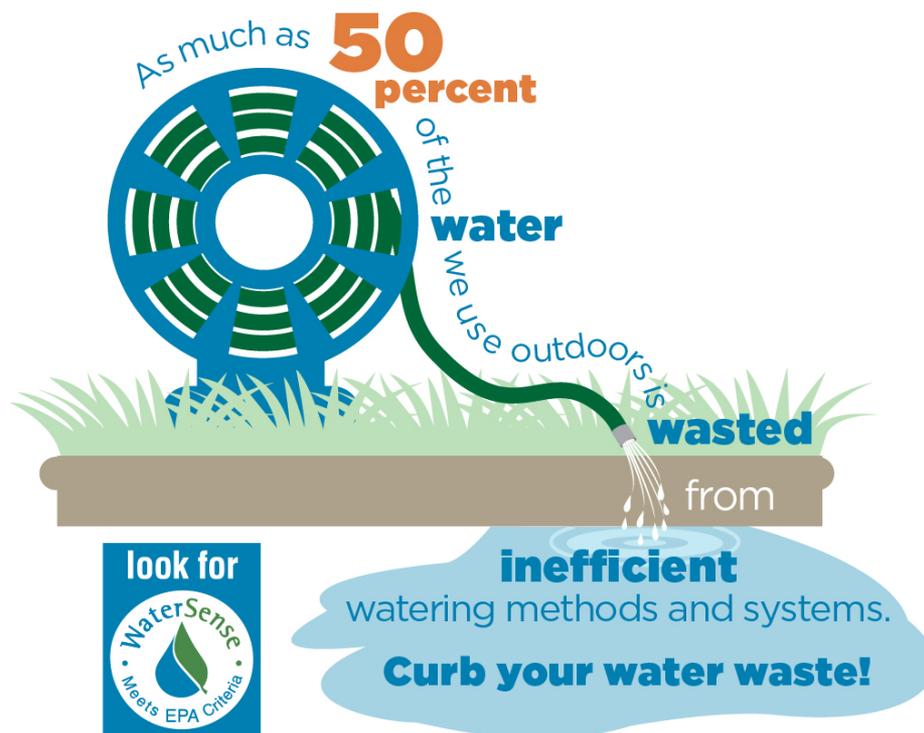
Source: American Water Works Association Research Foundation, "Residential End Uses of Water," 1999



Inefficient Water Use



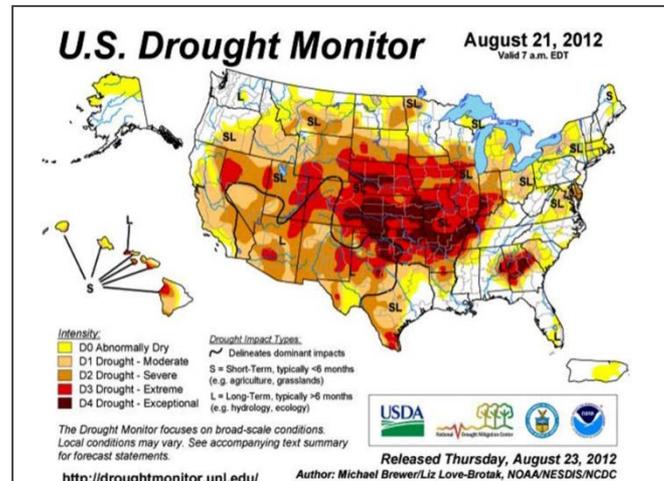
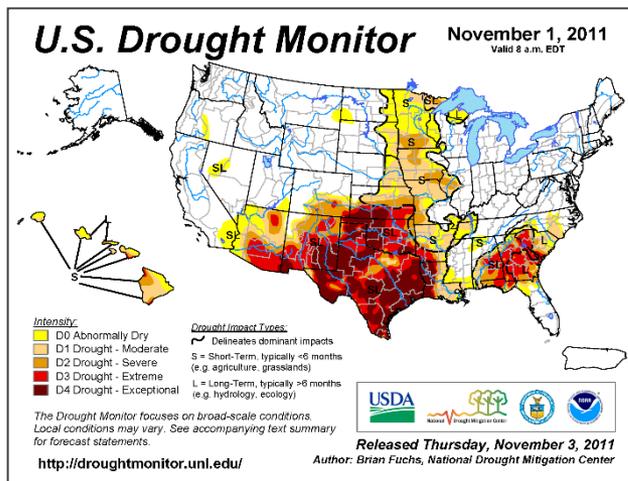
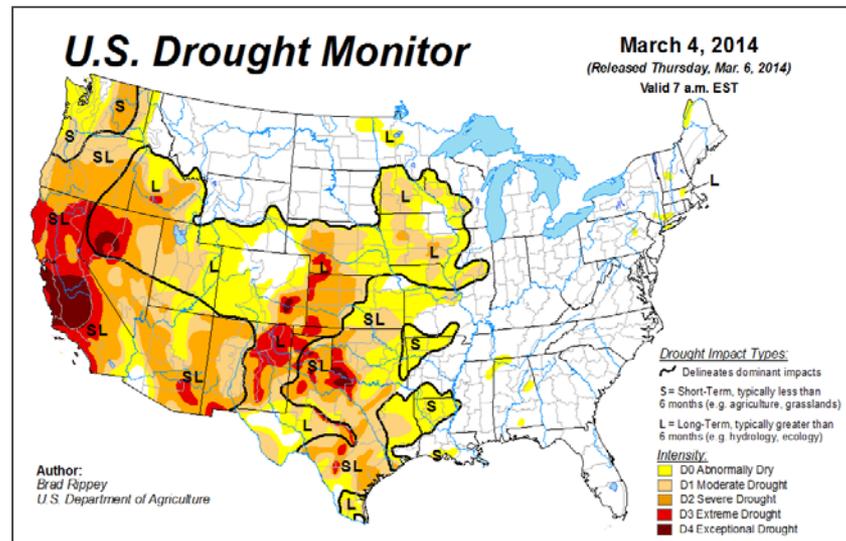
- Residential outdoor water use accounts for nearly 9 billion gallons of water daily.
- Outdoor water use is estimated to account for 30 percent of total residential water use.
 - As much as 50 percent of the water applied to lawns and gardens is wasted.



Drought Can Happen Anywhere



- Weather patterns change, but drought happens in at least one part of the country each year.
- Climate change—with an additional number of “extreme” weather events—will only exacerbate the problem.





National Climate Assessment Released



☰  National Climate Assessment <http://nca2014.globalchange.gov/>



CLIMATE CHANGE IMPACTS IN THE UNITED STATES

Highlights

Explore highlights of the National Climate Assessment including an Overview, the report's 12 overarching findings, and a summary of impacts by region.

→ EXPLORE HIGHLIGHTS

Full Report

Explore the entire report covering our changing climate, regions, cross sector topics, and response strategies in full detail.

→ EXPLORE THE REPORT









Office of Water Program Guidance



Fiscal Year
2015

National Water Program Guidance Addendum



Office of Water

April 2014

850-K-14-003



WaterSense listed among 10 EPA Recommendations for Potential State Agency Clean Water and Drinking Water Climate Change Adaptation Actions



Appendix D: Potential State Agency Clean Water and Drinking Water Climate Change Adaptation Actions April 2014

#	Actions for Climate Change Adaptation	State Water Quality Agency	State Drinking Water Agency
1	Promote Water and Climate Change Adaptation Training for Water Program Staff: Encourage State staff implementing water programs to take online training addressing the challenges that a changing climate poses for meeting clean water and drinking water goals.	❖	❖
2	Be a WaterSense Partner: Promote water use efficiency by wastewater treatment plants and drinking water systems in the State by joining the WaterSense program as a partner and participating in a State water conservation program.	❖	❖



Related EPA Efforts - Climate Ready Water Utilities



EPA United States Environmental Protection Agency

CLIMATE READY WATER UTILITIES

Adaptation Strategies Guide for Water Utilities

EPA United States Environmental Protection Agency

Preparing for Extreme Weather Events: Workshop Planner for the Water Sector

Recently the U.S. has experienced a number of extreme events from heavy precipitation and flooding events to long periods of drought, wildfires, and winter storms. According to NOAA, the U.S. saw more billion dollar weather disasters in 2011 than any other year, and it's expected that these events will become more frequent and more intense in the future. Is your drinking water or wastewater utility prepared?

What is an extreme event?
An extreme event is any event outside of a utility's normal planning horizons. For example, this could be a drought longer than the drought on record, or a 100-year flooding event. Researchers project that the probability of these storms will increase and could occur every 3-20 years. A utility in Wisconsin, TN had had two 100-year floods and a 300-year flood since 2003.

EPA's Preparing for Extreme Weather Events: Workshop Planner for the Water Sector helps drinking water, wastewater and stormwater utilities prepare for extreme events by providing materials needed to plan, facilitate and conduct an adaptation planning workshop.

After choosing a scenario, users are guided through five development steps (pictured below), customizing provided templates to develop a workshop that fits their utility, objectives and audience. The Workshop Planner takes the guesswork out of the design process, allowing a user to successfully conduct and facilitate a workshop without outside assistance. These workshops create a forum to openly discuss utility and community

EPA United States Environmental Protection Agency

CLIMATE READY WATER UTILITIES

Climate Resilience Evaluation and Awareness Tool 2.0 Exercise with Southern Nevada Water Authority

EPA United States Environmental Protection Agency

Climate Resilience Evaluation and Awareness Tool Exercise with Manteo and Columbia, North Carolina and the Albemarle-Pamlico National Estuary Partnership

Figure 1. Map of Sea Level Rise Vulnerability in the Albemarle-Pamlico National Estuary Partnership. Credit: Tom Allen, Eastern Carolina University

CLIMATE READY WATER UTILITIES **CLIMATE READY ESTUARIES**

1. Develop Objectives

Why invite outside stakeholders to workshop?
The entire community will be impacted by extreme weather events, so those events result in a service interruption. Utilities should invite community partners to participate in a robust discussion and to see collaborative adaptation options. These individuals could be managers, local government representatives, and other stakeholders.

The following five extreme weather events are:

Download

Office of Water



NYS CSC Certification Program Manual



PLEDGE ELEMENT 3: DECREASE COMMUNITY ENERGY USE

- 3.4 INSTALL WATER-EFFICIENT FIXTURES

And

PLEDGE ELEMENT 7: PLAN FOR ADAPTATION TO UNAVOIDABLE CLIMATE CHANGE-

- 7.23 IMPLEMENT A WATER CONSERVATION AND
REUSE PROGRAM



WaterSense



The U.S. Environmental Protection Agency's (EPA's) WaterSense program can be part of the solution.





What Is WaterSense?



- Voluntary partnership and labeling program launched by EPA in 2006
- Label with integrity that is backed by the credibility of EPA
 - WaterSense labeled products and programs independently certified for water efficiency and performance
- Simple way for consumers to identify products, new homes, and programs that save water and perform well





WaterSense Labeled Product Evaluation Factors

look for



WaterSense uses the following factors in determining which products to label. Products must:

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





What Is WaterSense?

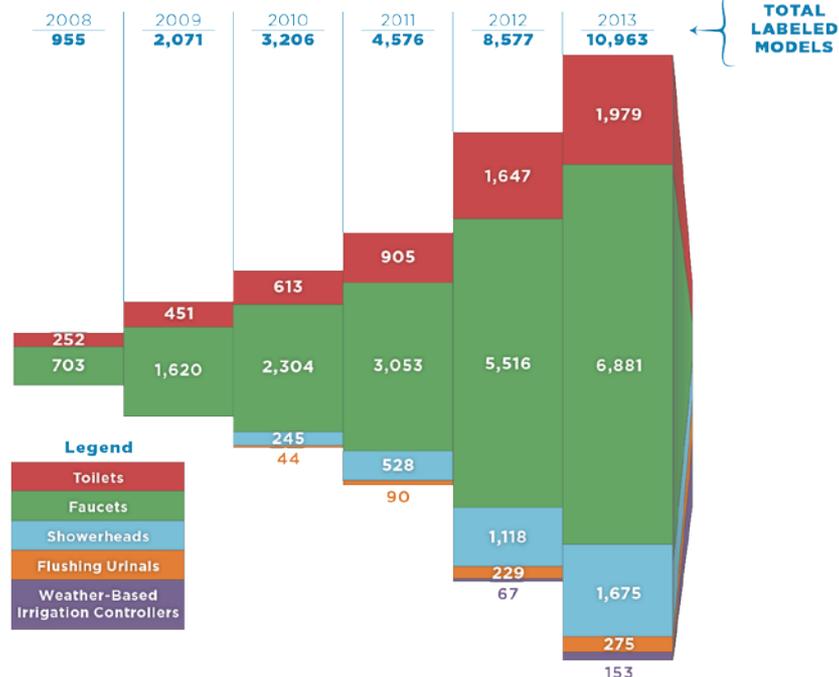


As of June 2014, WaterSense had more than 1,500 partners, more than 12,000 labeled products, and more than 325 labeled new homes. The program continues to grow each year.

WaterSense Labeled Products



Ever since the first WaterSense labeled toilets hit store shelves in 2007, more and more product types have earned the WaterSense label, and the total number of WaterSense labeled models has continued to grow.



look for



WaterSense Labeled Products

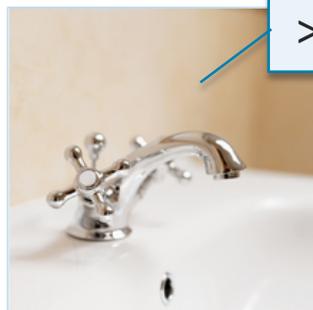


>299



Flushing Urinals
(≤ 0.5 gpf)

>7445



Lavatory Faucets

>170



Irrigation Controllers

Labeled Models as of May 2014

>2150



Tank-Type Toilets
(≤ 1.28 gpf)

>1900



Showerheads
(≤ 2.0 gpm)

>20



Pre-rinse Spray Valves
(≤ 1.28 gpm)

>325



New Homes



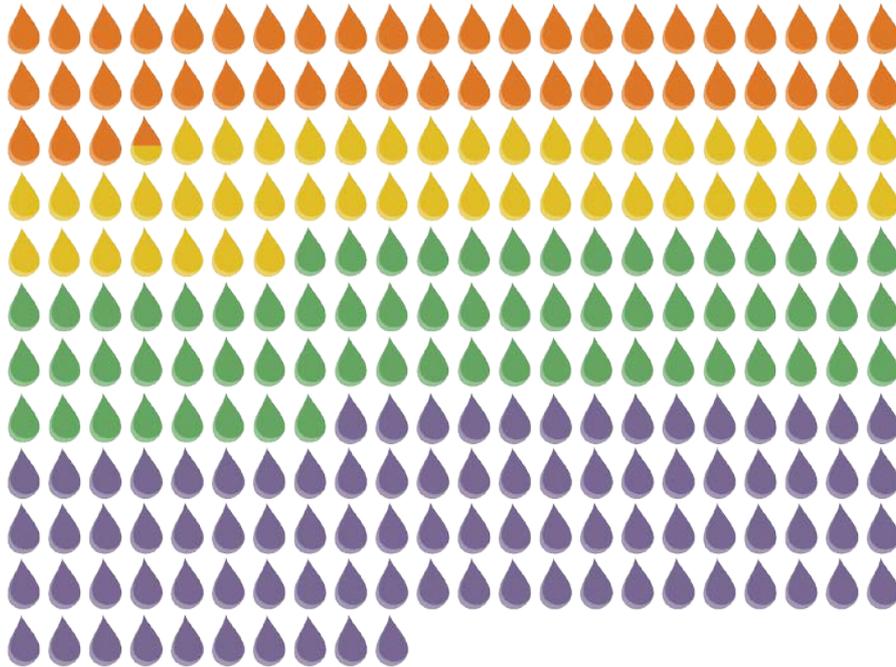
Water factors are also included in many ENERGY STAR qualified products



Measuring the WaterSense Impact



757 billion gallons of water saved since 2006!



-  2007 - 2010
-  2011
-  2012
-  2013



WaterSense has **saved consumers \$14.2 billion** in water and energy bills.



Economic Program Benefits



- Reduces the need for developing new water supplies and building new wastewater treatment facilities
- Can improve your bottom line
- Saves energy used to pump, heat, and treat water
- Provides a competitive edge for businesses as water quality regulations become stricter, and the cost of water increases

Environmental Program Benefits



- Reduces water use today so that water resources are maintained for future generations
- Maintains the health of aquatic environments
- Protects drinking water resources by decreasing the need to withdraw ground or surface water supplies for municipal or industrial demands
- Minimizes water pollution by decreasing the amount of runoff from landscaping and irrigation practices
- Helps mitigate the effects of drought



Health-Related Program Benefits

- Minimizes health risks associated with water pollution
- Reduces the amount of energy needed to treat wastewater, resulting in less energy demand and, therefore, less air pollution from power plants





Why Partner With WaterSense?



- Water conservation is one of many competing priorities for utilities.
- Water efficiency is a key component of conservation planning and implementation.
- WaterSense fits into your mission and makes it easy to for you to enhance your water conservation program by providing you with tools and resources.





Voluntary Partnership Approach



<p><i>Promotional Partners</i></p> <ul style="list-style-type: none">-Utilities-State & Local Governments-Nonprofit Organizations	<ul style="list-style-type: none">▪ Promote WaterSense labeled products and practices to customers▪ Promote the concept of water efficiency and value of water▪ Offer rebates for WaterSense labeled products (utilities)
<p><i>Manufacturers</i></p>	<ul style="list-style-type: none">▪ Manufacture WaterSense labeled products and promote them to buyers
<p><i>Retailers/Distributors</i></p>	<ul style="list-style-type: none">▪ Stock, promote, and sell WaterSense labeled products
<p><i>Irrigation Partners</i></p>	<ul style="list-style-type: none">▪ Promote WaterSense labeled products▪ Practice water-efficient services
<p><i>Builder Partners</i></p>	<ul style="list-style-type: none">▪ Build WaterSense labeled new homes that save water indoors and out



Promotional Partners



- Promote WaterSense labeled products and water-efficient practices to consumers
- Educate consumers on the concept of water efficiency and value of water
- Offer incentives (e.g., rebates) to consumers for buying and installing WaterSense labeled products



Process to become a Promotional Partner



- Review Eligibility:
<http://www.epa.gov/watersense/partners/join.html>;
- Complete and Sign Partnership Agreement
http://www.epa.gov/watersense/docs/ws_partnership_promo_508_2-1-13.pdf
- Develop marketing materials
- Hold one promotional event per year
- Report once a year about your promotional activities

Partnership Benefits



- Reduce research costs and increase consumer confidence by promoting water-efficient products that meet or exceed WaterSense performance criteria
- Membership in a national network of water efficiency leaders
- Recognition as a leader in water efficiency, including chance to earn additional recognition with annual WaterSense Partner of the Year awards





Partnership Benefits



- National campaigns to promote both WaterSense and water efficiency
 - Fix a Leak Week (March)
 - Sprinkler Spruce-Up (May)
 - Outdoor/drought outreach
 - Shower Better (October)
- Consistent national messaging to clearly educate consumers on the importance of saving water for future generations
- Marketing calendar with sample social media posts and customizable tools



March 17-23, 2014

Fix a Leak Week



Sample Resources



The most boring way to harm the environment.

La forma más aburrida de dañar el medioambiente.

In just **10** minutes you could **save...**

- 10** percent on your water bill
- 10** thousand gallons of water
- 10** months of laundry water

Find and fix leaks!

look for

Make the Drops to Watts Connection

look for

H₂Otel Challenge

With the success of waterSense at Work, Best Management Practices for Commercial and Institutional Facilities, WaterSense and its partners have a mission and an opportunity to help commercial customers save water. That's the Environmental Protection Agency (EPA)'s WaterSense H₂Otel Challenge.

What's in this report, included below?

- To save the thousands of water (liters) and the watts of electricity a hotel consumes every day, you need to know what you're doing. This report will help you understand the water and energy use of a hotel and how to save.
- To save the electricity that hotels use, you need to know what you're doing. This report will help you understand the water and energy use of a hotel and how to save.

What's in this report, included below?

- How to save the thousands of water (liters) and the watts of electricity a hotel consumes every day, you need to know what you're doing. This report will help you understand the water and energy use of a hotel and how to save.
- How to save the electricity that hotels use, you need to know what you're doing. This report will help you understand the water and energy use of a hotel and how to save.

WaterSense logo

Spruce Up Your Sprinkler System

Inspect sprinkler heads. A broken one can waste 25,000 gallons of water in six months!

Connect hoses and pipes well. A leak as small as the tip of a pin can waste 6,300 gallons of water per month!

Select a WaterSense[®] labeled irrigation controller and water smarter.

Direct spray on landscapes, not pavement!

Sprinkler Spruce-Up Facts and Tips

When it comes to a home's irrigation system, a little maintenance goes a long way. This April and May, encourage homeowners and other customers to do a little "sprinkler spruce-up" by using the facts and tips below. By encouraging properly maintained irrigation systems, you will promote healthy landscapes and reduce water waste.

Irrigation Water Use Facts

- Residential outdoor water use across the United States accounts for nearly 9 billion gallons of water each day, mainly for landscape irrigation.
- Experts estimate that as much as half of the water we use outdoors is being wasted due to evaporation, wind, or runoff caused by inefficient irrigation methods and systems.
- Homes with automatically timed irrigation systems use about 50 percent more water outdoors than those without. Your system can waste even more if it's programmed incorrectly, a sprinkler head is pointed in the wrong direction, or you have a leak.
- A home with an automatic irrigation system that isn't properly programmed or maintained can waste as much as 30,000 gallons of water annually.
- A broken or missing sprinkler head could waste as much as 25,000 gallons of water and more than \$90 over a six-month irrigation season.

Simple Tips for Sprucing Up Your Sprinkler

Before you ramp up your watering this spring, spruce up your irrigation system by remembering four simple steps: inspect, connect, direct, and select.

- Inspect:** Check your system for clogged, broken or missing sprinkler heads. If you're not the do-it-yourself type, get with a pro—look for an irrigation professional certified through a WaterSense labeled program.
- Connect:** Examine points where the sprinkler heads connect to pipes/hoses. If water pools in your landscape or you have large wet areas, you could have a leak in your system. A leak about as small as the tip of a ballpoint pen (or 1/32" of an inch) can waste about 6,300 gallons of water per month.
- Direct:** Are you watering the driveway, house, or sidewalk instead of your yard? Redirect sprinklers to apply water only to the landscape!
- Select:** An improperly scheduled irrigation controller can waste a lot of water and money. Update your system's schedule with the seasons, or select a WaterSense labeled controller to take the guesswork out of scheduling.

For more tips, visit the WaterSense website at www.epa.gov/watersense/outdoor

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Droughts can take the slip out of your slide. Help us save water with WaterSense.



How to Join

Joining WaterSense is easy!

- Review the eligibility information:
 - www.epa.gov/watersense/partners/eligible.html#promotional
- Review the *WaterSense Program Guidelines*:
 - www.epa.gov/watersense/docs/programguidelines.pdf
- Complete and sign the online partnership agreement:
 - www.epa.gov/watersense/partners/join.html

look for



More Information



WaterSense Information Website:

www.epa.gov/watersense

List of products

Partnership information

-Educational fact sheets

-Resources

E-mail: watersense@epa.gov

Toll-free Helpline: (866) WTR-SENS

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FLO is our WaterSense mascot. She makes personal appearances on occasion, as she travels the country promoting water efficiency and conservation.

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