



Water Wise Development Coalition

Intro for newbies!

- Who: ULI, in partnership with the Alliance for Water Efficiency, the Sonoran Institute, and the WaterNow Alliance, is convening land use and real estate professionals with policymakers and decision-makers. This coalition is supported by the Colorado Water Conservation Board.
- What: Advancing water-smart real estate development and supportive policies.
- When & Where: Quarterly virtual meetings.
- How: Participants will have a say in meeting topics, speakers, and efforts.





Agenda

- Welcome and Overview (5 min)
 - Group chat introductions: name, title, org, location
 - About the Water Wise Development Coalition
 - Speaker introductions
- Water Wise Development Resources Presentations and Q&A (60 min: 20 min presentation & 10 min Q&A each)
 - Jonah Schein, National Program Manager for Homes & Buildings, WaterSense Program, US EPA on WaterSense resources
 - Mike Collignon, Executive Director & Co-Founder, Green Builder Coalition about Water Efficiency Rating Score (WERS) resources
- Group Discussion about potential implementation projects (25 min)







WaterSense® Labeled Homes

Version 2.0







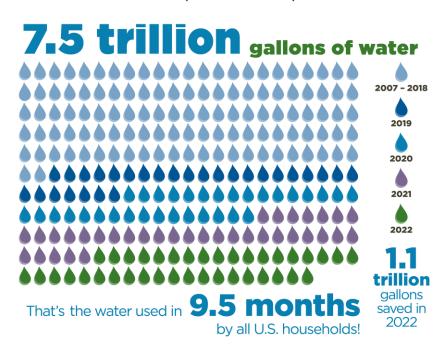
- WaterSense & WaterSense labeled homes
 - Why are we here?
- Why building matters to communities
- Why water matters to builders & developers
- WaterSense labeled homes



WaterSense Through 2022

look for

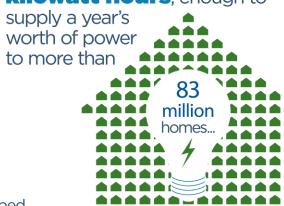
WaterSense partners helped save



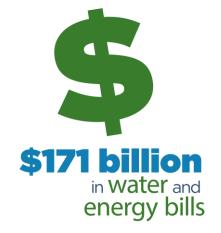
WaterSense has helped reduce the amount of energy needed to pump, treat, and heat water by

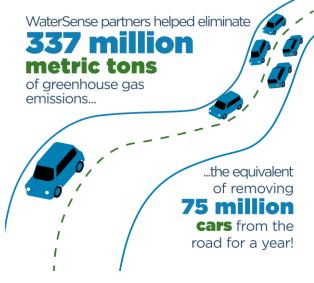
880 billion

kilowatt hours, enough to



WaterSense partners helped consumers save







WaterSense Labeled Products

More than **43,000** product models have earned the label. Water factors are included in many **ENERGY STAR** certified products.



Flushing Urinals



Showerheads



Lavatory Faucets



Flushometer Valve Toilets



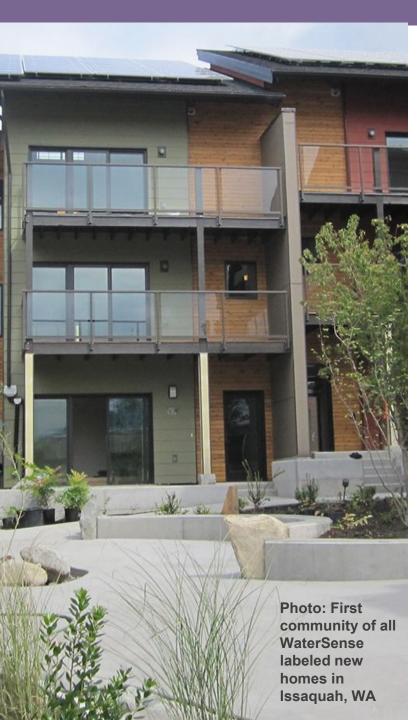
Tank-Type Toilets



Irrigation Controllers



Spray Sprinkler Bodies



WaterSense Labeled Homes

look for

- First national certification for water efficiency
- Provides a consistent and comprehensive approach to efficient homes
- Version 2.0 became effective in 2022:
 - Reduces water use in homes by at least 30% compared to code-built homes
 - Are third-party certified using existing certification infrastructure, overseen by EPA
 - Offers more flexibility relative to V1 while maintaining or increasing efficiency
 - Responds to market and climate changes



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

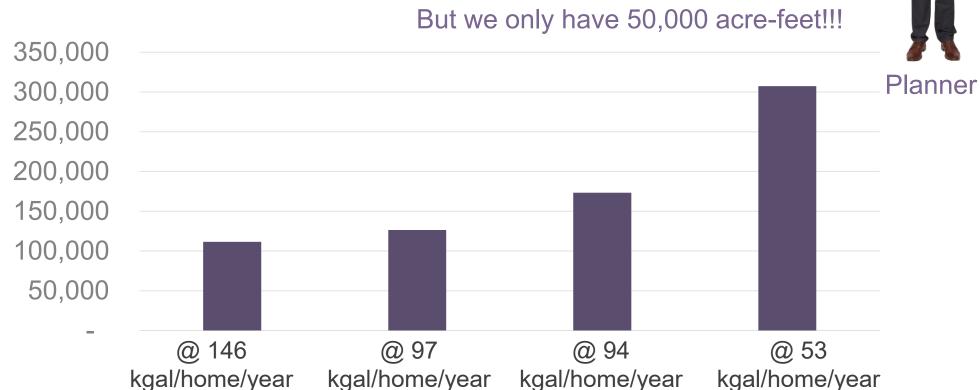
Who has experienced this?

look for

We are going to grow this city! It's gonna be great!!!

Well, we only have 50,000 acre-feet/year we can rely on...

That's great! Because we are going to grow this city by hundreds of thousands!!



Mayor

Households supported with 50k acre-feet of water



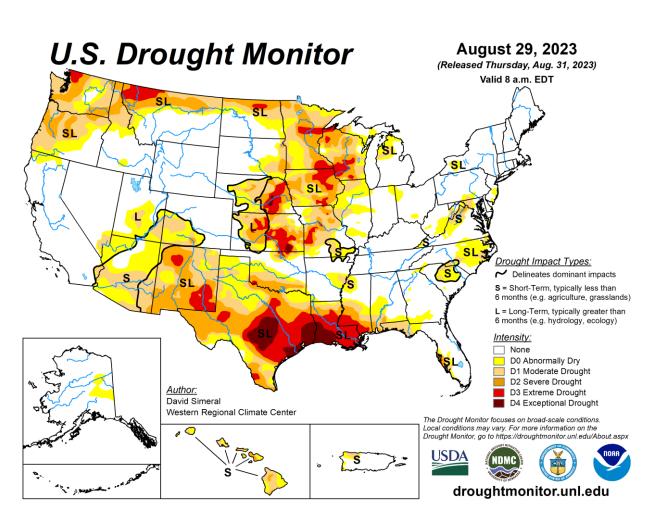
Crisis 1: Drought

West

- Governed by doctrine of "prior appropriation"
- Limited supply due to drought, aridification, climate, etc.
- Substantial community growth

This means:

- > Limits to entitlements
- High connection fees



East

- Governed by "riparian rights" schemes
- Older infrastructure
 with substantial capital
 improvement needs
- High frequency of combined sewers

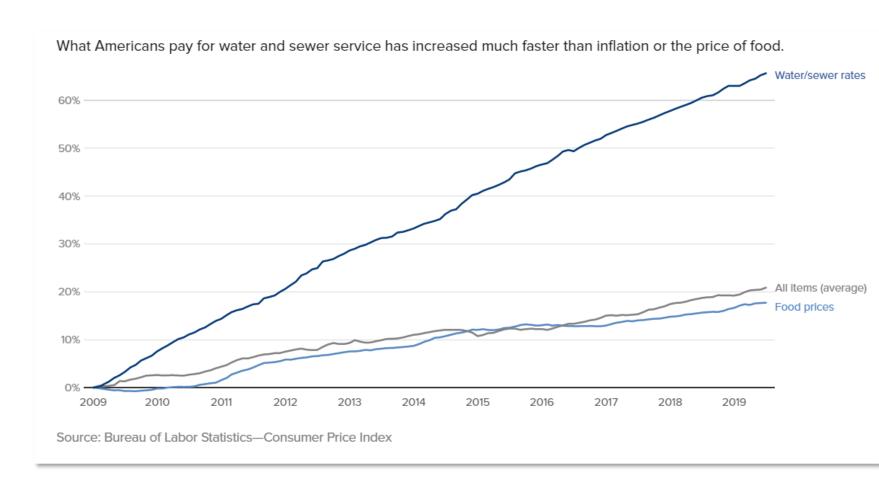
This means:

Higher rates

Crisis 2: Infrastructure



- Compliance & infrastructure costs
 - 12,000 miles of pipe were replaced in 2020 alone
- Operations
 - Utilities spent \$50.2 billion above capital in 2017

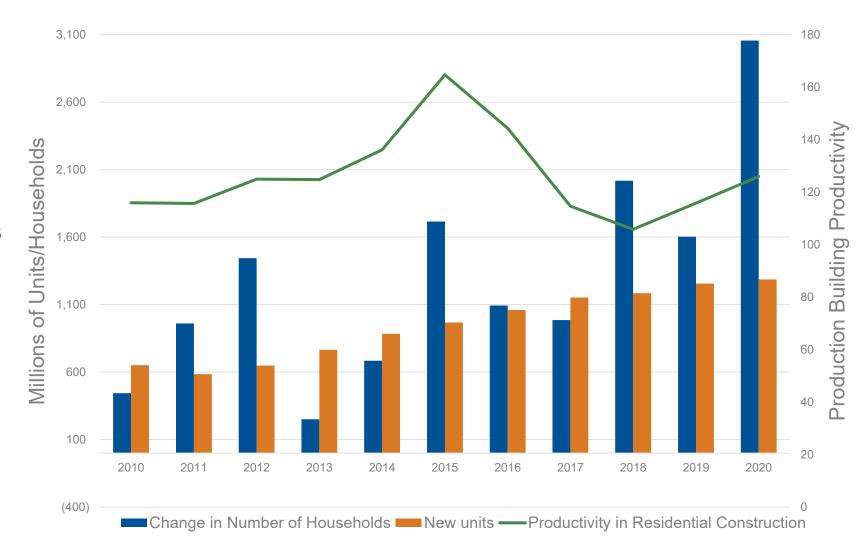


This is before the added burden from drought, stress, and climate change!

Crisis 3: Housing



Between 2010
and 2020 the
country added
almost 4 millions
more
households than
housing units



Productivity in residential construction has been relatively flat for decades

Crisis 1: Drought U.S. Drought Monitor Governed by doctrine Governed by "riparian of "prior appropriation" rights" schemes Limited supply due to Older infrastructure drought, aridification, with substantial capital climate, etc. improvement needs Substantial > High frequency of combined sewers community growth This means: Limits to entitlements Higher rates High connection fees

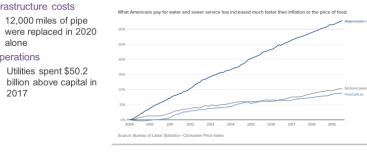


Water sits at the center of these crises!

Drought Water Housing Infrastructure

Crisis 2: Infrastructure

- Compliance & infrastructure costs
- 12,000 miles of pipe alone
- Operations
- Utilities spent \$50.2 billion above capital in 2017



lookfor

This is before the added burden from drought, stress, and climate change!



Benefits of WaterSense labeled homes for Communities



- > Lots of savings, built in from the start
 - New construction/substantial renovation allows us to target maximum savings for smallest incremental cost
 - Savings are achieved throughout the life of the home
- Whole-house building science approach is more effective than product/specification/retrofits alone
 - A home's systems (plumbing, irrigation, etc.) don't lend themselves to product labeling
 - Provides a template for continued savings beyond product replacement
- Whole-house building science approach is more effective than product/specification/retrofits alone
 - Adaptive to climate and market considerations
 - Confidence and durability of savings is increased by onsite verification and quality assurance

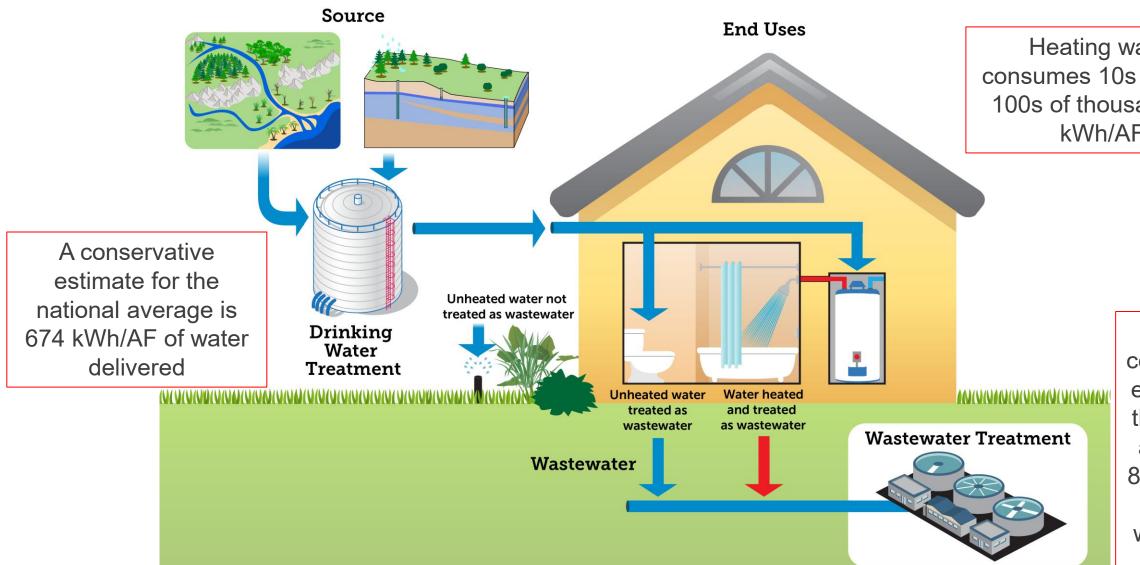


Benefits of WaterSense labeled homes for builders/developers

- Added value to the homebuyer
 - Cost savings
 - Comfort
 - Quality
- Savings and performance with flexibility
- > Water is an increasingly important part of the land entitlement process
 - Availability of water/service connections is frequently the deciding factor in a site's viability
- Disclosure and ESG reporting requirements
 - Being responsible stewards of water is an important part of the building industry's social license to operate AND often a prerequisite for investment
- > Water has to be part of the decarbonization discussion

What Influences the Energy Profile of Water?





Heating water consumes 10s or even 100s of thousands of kWh/AF

> conservative estimate for the national average is 800 kWh/AF of wastewater treated



Version 2.0 Requirements

Technical requirements for homes

- Meet all items on the mandatory checklist
- Meet an efficiency threshold of 30% below typical new construction (based on national norms)

Specification

Requirements for Home Certification Organizations (HCOs)

 Organizational requirements for oversight, quality assurance, training, reporting, and managing conflicts of interest

Certification System

- Technical evaluation of the proposes certification method
 - Will it effectively differentiate homes that save 30%

Technical Evaluation
Process



Technical Requirements for V2

MANDATORY CHECKLIST FOR WATERSENSE LABELED HOMES

Item	Requirements		Confirmed
Leaks	Pressure-loss test on all water supplies detected no leaks	☐ Yes	□No
	Free of visible leaks from hot water delivery system	☐ Yes	□No
	Free of visible leaks from toilet(s), as determined through visual assessment and by conducting a dye tablet test in each toilet to ensure the flapper is not leaking	☐ Yes	□No
	Free of visible leaks from bathroom faucet(s)	☐ Yes	□ No
	Free of visible leaks from showerhead(s)	☐ Yes	□No
	Free of visible leaks from bathroom tub faucet(s), i.e., tub spout(s), when showerhead(s) is activated, as determine through visual assessment after showerhead has been activated for one minute	☐ Yes	□No
	Free of visible leaks from kitchen and other sink faucet(s)	☐ Yes	□ No
	Free of visible leaks from other fixtures or appliances (e.g., clothes washers, dishwashers, hose bibs, irrigation systems) at point of use or point of connection to water distribution system	☐ Yes	□No
Toilets	WaterSense labeled	☐ Yes	□No
Bathroom sink faucets	WaterSense labeled	☐ Yes	□ No
Showerheads	WaterSense labeled	☐ Yes	□ No

- Meet all items on the mandatory checklist
- Meet an efficiency target of 30% relative to standard new construction



How do I Measure 30%?

- EPA allows HCOs to develop their own method of measuring water use
 - EPA retains the role of reviewing/approving each HCO's method
 - This evaluation protocol is available on our website
- EPA has approved Home Certification Organizations (HCOs)
 - HCOs can use a different tool or approach to measure the 30% efficiency requirement.
 - EPA evaluates their method, as part of the application process, to reiterate that the tools are measuring water efficiency accurately.
 - Methods are then referred to as WACMs WaterSense Approved Certification Methods
- Goal is to protect the integrity of the WaterSense Program and label ensuring certified homes meet the stated efficiency threshold regardless of the WACM used.



Flexibility with Consistency

- Minimal Mandatory Items prescriptive items
- Ability to use a performance-based, whole-house approach
 - For example, a WERS score of 66 or lower is needed for WaterSense certification
- Easy training for verifiers
 - Available through individual HCOs
- ➤ Ability to work with additional HCOs











	SCOPE			METHOD FOR LABELING	
НСО	REGIONALITY	BUILDING TYPES	CONSTRUCTION TYPE	HOMES	
CHEERS	СА	Single-Family	New Construction	Achieve a score of 70 or less under CHEERS WaterSense	
GreenBuilder*	NATIONWIDE	Single-Family	New & Existing Construction	Achieve a score of 66 or less under the Water Efficiency Rating Score (WERS) with WaterSense Baselines	
NGBS GREEN Hame Innovation Research Labs	NATIONWIDE	Single-Family & Multifamily	New & Existing Construction	Complete a set of selected practices from the National Green Building Standard (NGBS)	
	NATIONWIDE	î	New Construction	Achieve a score of 64 or less under the Water Rating Index	
HERS _{H20}	NATIONWIDE	Single-Family	New & Existing Construction	Achieve a score of 70 or less under HERS _{H2O}	

EPA Approved HCOs



How Much Can We Save in Salt Lake?

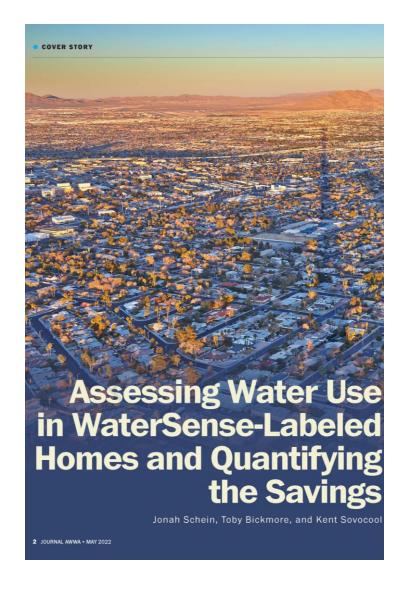
- Assuming a statistically average home
- > 2.61 people per household
- Single-family home in Seattle, WA > ~10,000 ft2 lot with ~5,800 ft2 of landscaping





Las Vegas Pilot Study

- V2 was piloted in the Las Vegas region in the summer of 2020 following the sunset of Water Smart Homes
 - 568 homes were certified through the pilot project
- Metered water usage was collected from the retail utilities and paired with information gathered during the inspection/certification process
- Median use was 44 kgal/year (based on 160 WaterSense labeled homes) compared to 97 kgal/year in typical new construction in the area
 - At this rate roughly 7.5 homes/year can be supplied with an acre-foot of water compared to 3-4 homes/year typically seen in the West
- Full report available online





We Can Save More With the Whole-House Approach!

Source	Scope	Study population & period	Average Value (kgal/household/year)
Residential End Uses of Water Study	National	Stock housing monitored 2013-2014	146
SNWA	Las Vegas Area	New homes built 2000-2003	129
SNWA	Las Vegas Area	New homes built 2008-2009	97
SNWA	Las Vegas Area	New Water Smart Homes built 2008-2009	94
WaterSense Labeled Homes Study	Las Vegas Area	New WaterSense labeled homes built 2020-2021	53

Local baseline

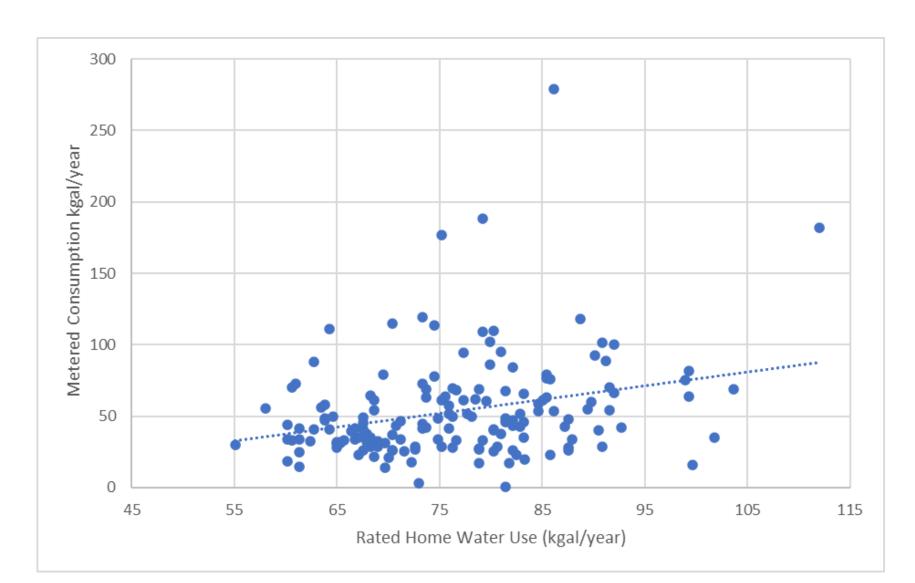
Mandatory outdoor
measures
WaterSense labeled
products

WaterSense labeled

homes

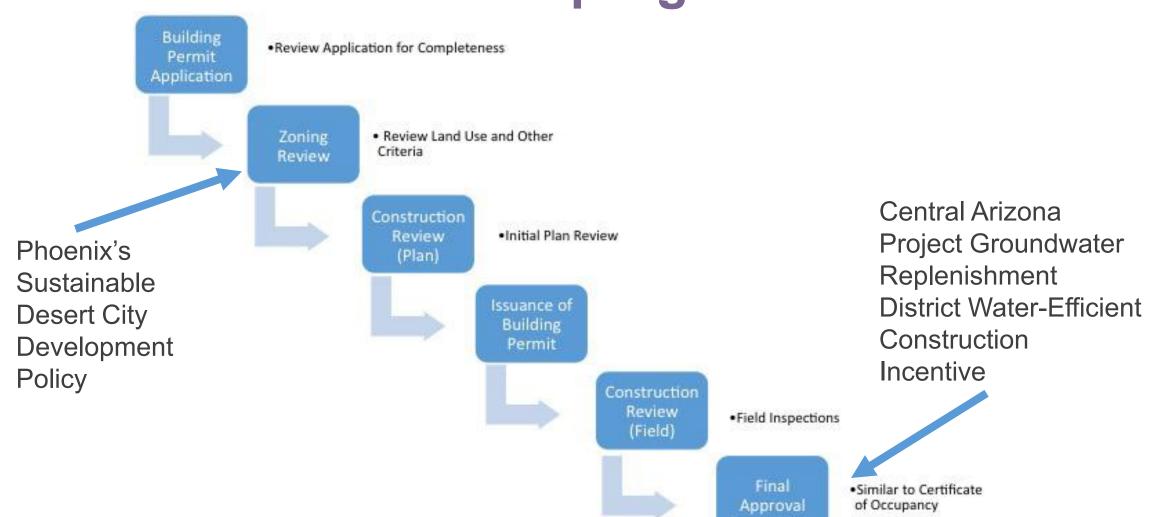


Predictions vs. Reality





How are communities using the WaterSense labeled homes program?







Get in touch...

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Email | watersense@epa.gov

Phone | (866) WTR-SENS (987-7367)

HCO Factsheets





WaterSense Labeled Homes Program

Home Certification Organization: RESNET

The U.S. Environmental Protection Agency's (EPA) WaterSense® program works with Home Certification Organizations (HCOs) to certify and issue the WaterSense label to homes that meet EPA's criteria for both water efficiency and performance.

What's in a WaterSense Labeled Home?

All WaterSense labeled homes are independently certified to meet EPA's Mandatory Checklist and be at least 30 percent more water-efficient than a typical new home.

/	MANDATORY CHECKLIST TO ENSURE QUALITY PERFORMANCE
	LEAKS
	Pressure-loss test on all water supplies detects no leaks
	 Free of visible leaks from all fixtures and appliances at point of use or point of connection to water distribution system
	○ Tollets
	O Bathroom faucets
	○ Showerheads
	Bathroom tub faucets, i.e., tub spouts
	Kitchen and other sink faucets
	Other fixtures or appliances (e.g., water heaters, clothes washers, dishwashers)
	WATERSENSE LABELED PLUMBING FIXTURES
	○ Tollets
	O Bathroom sink faucets
	Showerheads
1	EFFICIENCY REQUIREMENT
	VERIFIED EFFICIENCY
	At least 30 percent more water-efficient than a typical new home (based on national standards and

What is a Home Certification Organization's Role in Labeling Homes for WaterSense?

Within the WaterSense Labeled Homes Program, HCOs are responsible for quality assurance, verifier training and oversight, home verification protocols, and reporting. HCOs also maintain their own certification method (reviewed and approved by EPA) to evaluate a home's water efficiency and determine whether it meets EPA's efficiency requirement. This WaterSense Approved Certification Method (WACM) can include features such as water-efficient fixtures, appliances, and systems (e.g., irrigation and hot water delivery) that builders can include in homes to meet the efficiency requirement. Keep reading to learn more.

How Builders Can Get Involved:

Are you a builder ready to get started? Partner with WaterSense and visit www.epa.gov/watersense/watersense-labeled-homes to learn more.

HCO Profile: RESNET

RESNET is a national non-profit organization founded in 1995. RESNET develops standards for the certification and oversight of home energy and water ratings and the certification of individuals who conduct those ratings. With its network of more than 2,500 active and

Raters and Rating Field Inspectors, RESNET has a footprint in software used to complete ratings and a network of quality as oversight of energy and water ratings.

Method for Labeling Homes: HERS_{H20}

RESNET uses HERS_{so} for WaterSense certification HERS_{so} is based on the nationally accredited standard ANS/RESNET/ICC 850. To earn the WaterSense label through HERS_{sos}, a home must achieve a score of 70 or less and adhere to the titers on WaterSenses Mandatory Checklist. Since HERS_{sos} is a performance-based program, builders can use any combination of indoor and outdoor water efficiency measures to achieve the taront some



Alignment With Other Certification Programs

HERSiss, was designed to be easily added to a HERS rating. HERS flates and Rating field inspections who have been trained and authorized as WaterSense know everifies only need to complete a few additional testing and inspection requirements during their final HERS inspection in order to issue a HERSis and and verify that a home has earned the WaterSense label. This process makes it easy for builders to use one Rater to obtain HERS and HERSis ratings, the

For more information about RESNET, visit:

As California's largest Home Energy Raling System (HERS) Provider, CHEERS operates the central data verification platform where building industry professionals register projects for California energy code (Title 24), state, and federal efficiency program compliance. From single-employee shops to the nation's largest builders, more than 60,000 registered users utilize CHEERS to implement California energy and water efficiency programs.

Method for Labeling Homes: CHEERS WaterSense

HCO Profile: CHEERS

CHEERS WaterSense is a system for rating whole-house water efficiency that includes both indoor and outdoor water uses. It is a performance-based program that requires a score of 70 or lower to earn the WaterSense label.



Alignment With Other Certification Programs

As a California Energy Commission approved HERS Provider and EPA ENERGY STARP Partiner, CHEERS addition of WaterSense is a natural complement to CHEERS HERS Raters, who serve energy and water efficiency-minded builders.

For more Information about CHEERS, visit

HCO Profile: Home Innovation Research Labs

Home Innovation Research Labs is an infernationally recognized, third-party product testing and certification laboratory. Their work is solely focused on the residential construction industry, with a mission to improve the affordability, performance, and durability of housing. Home innovation leverages its deep residential expertise and experience in its administration of green certification programs for residential construction. Home innovation serves as certification body for the IC-OTO National Green Building Standard (NGSS), a Multifamily Review Organization (MRO) for EPAS ENERGY STAR® Multifamily New Construction Program, and an HCO for the VatarSense Labeled Homes Program.

Method for Labeling Homes: NGBS Green with WaterSense

There are two compliance pathways based on selected practices from the 2020 NGBS:

(1) Prescriptive – Implement selected practices from NGBS Chapter 8 or 11, including installing efficient plumbing fixtures, appliances, hot water distribution, and irrigation systems.

(2) Performance – Demonstrate overall water pating index(VMI) score of 64 or lower. A WRI score is a value between 0 and 100 that indicates a property's total indoor and outdoor water use compared to a baseline based on the home's size and basic configurations.



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Alignment With Other Certification Programs

Home Innovation's WaterSense compliance methods are based on selected practices from the 2020 NGBS.

Achievement of WaterSense certification under either pathway nearly satisfies the water efficiency requirements for NGBS Green Certification. Dual certification to NGBS Green Partners and WaterSense offers NGBS Green Partners added marketing benefit through a streamlined dual-certification process.

For more information about Home Innov www.HomeInnovation.com/Wate HCO Profile: Green Builder® Coalition

The Green Builder Coalition is a non-profit membership organization for green building professionals that provides its members with information and advocacy resources. The Green Builder Coalition also owns the Water Efficiency Rating Society (WERS*) Program.

Method for Labeling Homes: Water Efficiency Rating Score (WERS) With WaterSense Baselines

WERS is a performance-based water efficiency program for both new and existing residential properties that preserves design freedom and product choice flexibility. Third-party analysis and data collection is utilized to generate a score and predict water usage. An eligible property must meet the Water-Sonse prescriptive requirements and achieve a WERS of 66 or less using Water-Sonse baselines.

Scope

WERS is available in the United States and Canada but can be utilized anywhere in the world. WERS for WaterSense is currently only applicable to single-family properties in the

Builders cannot use the capture and reuse function of WERS to earn the WaterSense label. While it does not contribute towards WaterSense certification at this time, WERS can accommodate any form of capture and reuse, including rainwates, graywater, blackwater, and stormwater.

GreenBuilder COALITION

Alignment With Other Certification Programs

WERS is an alternative compliance path in the

- following green building programs:

 Built Green Canada
- Austin Energy's Green Building Program
- Built Green Washington

WERS is also the basis for the Water Rating Index (WRI) found within the National Green Building Standard.

Information for Verifiers

Training is available for those who wish to become WERS Verifiers. The verifier course includes both classroom and field training, along with a written and field exam.

Online and in-person training is offered. To register for the online course, please visit tps://certifiedratingsprogram.thinkific.com/ courses/WERS-Verifier-Course

For in-person training options, please contact Laureen at <u>lb@greenbuildercoalition.org</u>. Minimum class size is 5 and maximum

For more information about Green Builder Coalition, visit: www.wers.us.







Regional Factsheets



The U.S. Environmental Protection Agency (EPA) established WaterSense to protect the future of the nation's water supply and to promote water-efficient products, homes, and programs with a simple, easy-to-identify label. WaterSense labeled homes allow families to enjoy the comforts of home while using less water and energy and saving money on utility bills.

To earn the WaterSense label, homes must meet EPA's specification criteria: they must be at least 30 percent more water-efficient than typical new home construction, include WaterSense labeled plumbing products, and be free of water leaks. WaterSense labeled homes can also include features such as: hot water that gets to the tap faster; ENERGY STAR* certified appliances; efficient irrigation equipment; and water-smart landscapes that minimize or eliminate the need for irrigation.

Why Water Efficiency Matters to Communities and Builders

Water supplies are an ongoing concern in Salt Lake City, Utah, and other communities along the Wasatch Front. More than 60 percent of Salt Lake City's water comes from the Wasatch Mountain snowpack, and the remaining needs are met by groundwater wells. Despite its proximity to mountain snowfall, this part of the state frequently experiences drought. The figure on the next page shows the drought status in Salt Lake County between 2000 and 2023, with yellow denoting abnormally dry conditions and darker

Benefits of WaterSense Certification

For Communities/Water Agencies:

- Preserves the ability to add new housing and grow communities while limiting impacts on water and infrastructure resources.
- Achieves greater water efficiency using a whole-house, building-science approach and system solutions that may not be possible solely with efficient products.
- Encourages builders to design homes with water-efficient features in mind, maximizing water savings at minimal incremental cost.

For Builders:

- Mitigates the rising cost of water and utility connection fees.
- Leverages support from existing communities and investors.
- Offers advantages in the permitting and land entitlement processes.
- Supports corporate disclosures and reporting



colors indicating even greater drought intensity. Over the same period, the Salt Lake City metropolitan area's population increased by nearly 35 percent. Salt Lake and other regions affected by frequent droughts need to plan communities wisely so as not to overstress limited water supplies as population grows.

Available for:

- > Charlotte, North Carolina
- > Denver, Colorado
- Las Vegas, Nevada
- > Orlando, Florida
- > Phoenix, Arizona
- Sacramento, California
- Salt Lake City, Utah
- San Antonio, Texas
- > San Diego, California
- > Santa Fe, New Mexico

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Introductory Guide

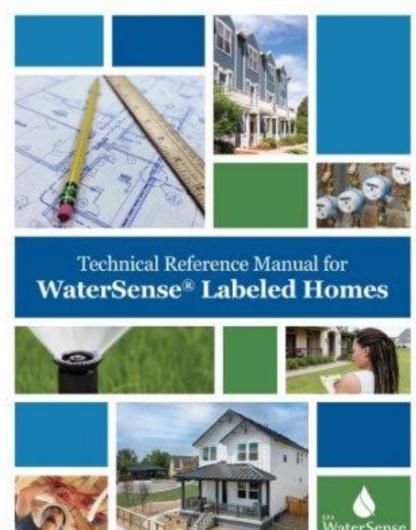
WaterSense® Labeled Homes

INTRODUCTORY GUIDE





Technical Reference Manual





What Are Water Ratings?

Mike Collignon

Exec. Dir., Green Builder® Coalition
Chair, WERS Development Group
Co-Founder, Next Generation Water Summit

Water Ratings

Water ratings are on-site analyses of single-family & multifamily properties that subsequently forecast future water usage.

Ratings do not mandate anything; they simply assess the design & materials of the property.

- Codes/regulations
- Financial Incentives
 - Tax Credits
 - Rebate Programs
- Green Building Programs
 - Alternative path for water efficiency

- Potential financial incentives
 - Reduced storm water impact fees
 - Reduced tap fees
 - Shortened permit review time



Water Ratings can include:

Indoor

- Fixtures
- Appliances
- Structural Waste
- Water Softeners
- R/O Systems
- Recirc Systems
- Pipe diameter/type
- TSVs
- Spas
- Bidets/Urinals
- Graywater Systems
- Blackwater Systems
- Etc.

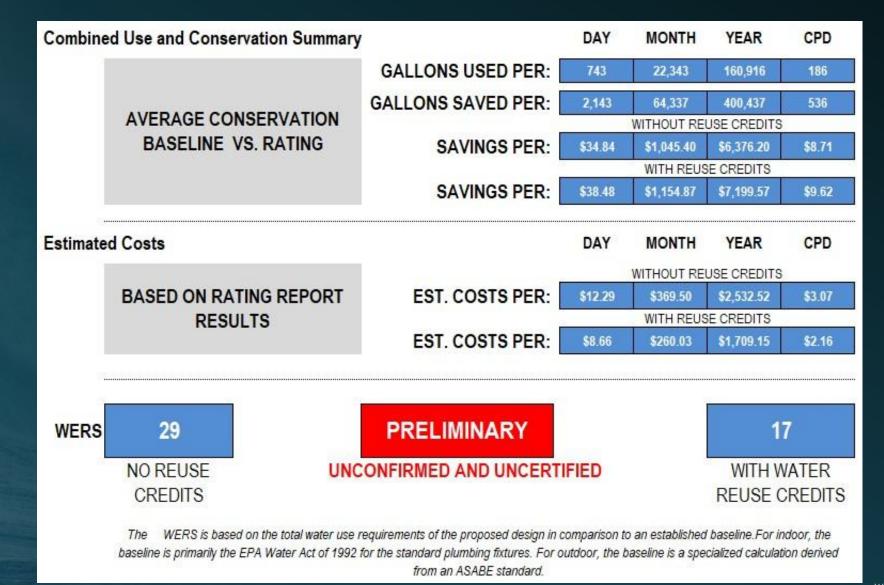
Outdoor

- Irrigation Systems (all)
- Landscape/Vegetation (all)
- Pools & Spas (Covered and Uncovered)
- Rainwater Harvesting Systems
- Roof type/slope
- Sitewater Capture and Reuse
- Hardscape type/slope
- Soil type/slope
- ETo & Annual Rainfall data supplied by IWMI (via the EPA)
- Optional input from other outdoor water budgeting tools
- Etc.

Water Rating outputs can include:

- Outputs
 - Score: 0-100
 - Projected Usage in Gallons: Daily, Monthly and Yearly
 - Projected Water Costs: Daily, Monthly and Yearly
 - GPCD totals
 - Existing Homes Compare Existing Conditions to Improvements

Rating Report



Water Efficiency Rating Score (WERS)® Construction Report CONSTRUCTION SPECIFICATIONS FINAL REPORT Builder Scott Wong of Solterra + Design 8/10/2023 Report Date: Verification Nick Arvidson of Evergreen Building Solutions This report is for: IEW CONSTRUCTION RATING: Fina Project Please complete the information in the white boxes. Redacted +Cirange boxes are pulldowns that require a response. Purple boxes, blue boxes, and grey boxes need no action. •Cells with a small red triangle have additional guidance provided in a "Yly-out" box. **BR1 BUILDING SUMMARY** Please refresh reports before printing to reflect changes made elsewhere. **NEW** Single Home **Project Type** FINAL Stormwater Calculations and Site Specifications Lot Size (sf) Impervious Areas (sf) 115,415.00 5.149.00 Encroachments (sf) Pervious Water Use/Planted Areas (sf) 16,251.00 10,034.00 Other Structure FPs (sf) 288.00 Pervious Non-Water Use Areas (sf) 3,153.00 Remaining Lot (sf) Impervious Percentage 93,942.00 4.46% **Green Building Certification Information** type Directed Impervious Surface(s) (sf) Rain Gardens planned? NONE 0.00 Directed Pervious Surface(s) (sf) Food Gardens planned? NONE 0.00 **Total Pervious** 13,187.00 Peak Rainfall 0.81043 Peak Month Peak EtO **IU1 Indoor Fixtures and Appliances**

Construction Report

IU1 Indoor Fixtures and	Appliances
-------------------------	------------

	Fixture or Appliance	Field Verified Parameters to Generate WERS	Final Notes
Α	Toilet (GPF) Using verfied 1.28	1.28	-
B1	Showerhead (GPM) Using verfied 2.25	2.25	-
B2	Bathtub (GPU)		-
С	Lavatory (GPM) Using verfied 1.265	1.27	-
D	Sink (GPM) Using verfied 1.64	1.64	-
Ε	Dishwasher (GPC) Using verfied 3.2	3.20	-
G	Water used to reach 100 degrees (GPU WERS estimated)	0.44	-
	Separate Master Tub?	Υ	-
	HW Recirc System?	Υ	-
	TSV Installed ON SHOWER HEADS?	N	-
	TSV on tub spout	N	-
	Primary Piping Type	PEX	-

IU3 Other Indoor Water Features and Equipment			Final Verified Units		
<u>Item</u>	Description	Manufacturer / Model #	Present or Qty	GPD	Extended
1	-	-	0	0.00	0.00
3	-	-	0	0.00	0.00
Outdoor Wat	ter Use Capture and Usage	CONSTRUCTION REPORT	RATING RE	PORT	VERIFICA

Capture and Usage Summary: CU1 & CU2 Water Capture Construction Report Capture and Usage Summary: CU3 Water Re-Use **Outdoor Use and Conservation Summary** Project is using tool for calculations Rain Interruption Device? Smart Controller? Irrigation System? 10034.00 Landscape / Water Requirement for Site (G) **Total Area** 27774.62 Notes **BR2 BUILDING REPORT AFFIDAVIT** Project cannot qualify for WaterSense 2.0 at this time REPORT Signature Section AS THE ACCREDITED WERS VERIFIER, I AFFIRM THAT AT THE TIME OF THE FINAL WERS ALL OF THE PERTINENT DOCUMENTATION HAD BEEN PROVIDED TO ME AND THE FINAL DESIGN CONDITION HAS BEEN FIELD VERIFIED BY ME. THE ACCURACY OF THE PERTINENT DOCUMENTATION IS Yes THE RESPONSIBILITY OF THE DOCUMENT PROVIDER AND THE VERFIER HAS NO CONTROL OF THE WERS STATUS OF THE PROPERTY AFTER CERTIFICATION.

Bonus Tools

- Tank sizing
- Irrigation Design
- Fixture Modeling
- Water Audits



Data, Data, and more Data...



WERS Timeline

- 2013 Santa Fe brainstorming session produces concept of residential water rating
- 2014 WERS Development Group is formed
- 2015 1st pilot project
- 2016 1st WERS Verifier course held
- 2017 Cited in NM tax credit; Santa Fe's single-family residential green code; partnered with Triconic/UL-Environment/Intertek for global capabilities
- 2018 Allowed as code compliance path for multifamily in Santa Barbara, CA; WERS Consultant designation created
- 2019 Incorporated a WERS Tool self-QC check and metric units for the international market

WERS Timeline (cont.)

- 2020 Incorporated into Built Green Canada and Austin Energy Green Building Program; generic version (WRI) added to NGBS
- 2021 Added to Vermont energy code as points-earning option; Built Green (WA) for single-family and multifamily compliance paths
- 2022 Incorporated into EPA WaterSense for Homes 2.0 (single-family)
- 2024* Added to Santa Fe RGBC for multifamily (65) and single-family requirement lowered to 65
- Total software updates (as of June 1, 2023): 20

*anticipated



Questions? Contact Us!

info@greenbuildercoalition.org



Thank you!

www.wers.us



Programming Brainstorm

Let us know what you want for coalition meetings!

Cohort Programming Agenda	Subject Brainstorm
Oct/Nov/Dec 2023	Presentations on landscaping codes and templates (WaterNow, Northern Water, Denver Botanic Gardens, CSU, Lisa Pace, other states?, Mike Diamond)
Jan/Feb/March 2024	Water wise policies, regulations, incentives (Waverly, AWE, Babbitt)
April/May/June 2024	Water pricing, tap fees, equity, and affordability (Benji Smith, AWE, WRA, CSU)
July/Aug/Sept 2024	One Water Approach + land use (US Water Alliance, Denver One Water, Tucson)
Oct/Nov/Dec 2024	Water reuse (Water Reuse Foundation, Pacific Institute)
Jan/Feb/March 2025	MLS listings? (adding water, energy, resilience scores), Appraisals?







A Center of the Lincoln Institute of Land Policy

Growing Water Smart is a Training & Assistance program that empowers local leaders to implement plans and policies that support community and regional water resilience.





Workshop Process:



Develop an Interdisciplinary Team



Assess Current Conditions



Set Goals



Identify Opportunities



Develop a Water-Smart Message



Establish an Action Plan



Implement

Now accepting applications to Arizona Growing Water Smart:

- January 22-24, 2024
- Phoenix, Arizona
- Apps due Oct. 6, 2023

For more info or to apply: resilientwest.org/growing-water-smart/arizona

Or email: growingwatersmart@sonor aninstitute.org

Save the Date!

Appraisal Institute Webinar

Water-Wise Appraisals: Valuing Water in Real Estate Appraisals

Nov. 16, 1-4pm EST

Agenda:

- Welcome and introductions
- Julie Wilson-McNerney, Of Counsel, Schwabe, Williamson & Wyatt, on water law
- Peter Raabe, Southeast Regional Director, American Rivers, on the local context of water
- Marianne Eppig, Director, Resilience, Urban Land Institute, on water-wise development practices
- Jeffrey Friedlander, Senior Vice President, Clarion Partners, on the return on investment of water-wise development practices
- Timothy Runde, President, Runde & Partners, Inc., on appraisals of water-wise development
- Full panel discussion and Q&A with the audience
- Wrap up and announcements



Implementation Project Ideas

Pending funding

- A Water Wise Development Symposium bringing together the public and private sectors to advance water wise strategies for real estate.
- Convening local roundtables and/or focus groups between public and private sector land use and water professionals, aimed at supporting water-wise real estate and supportive policies.
- The creation of educational materials that advance and document market demand for water-wise land uses.
- Other ideas?
 - Tours
 - Case studies with financials
 - Etc.





THANK YOU FOR JOINING US!

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