This presentation premiered at WaterSmart Innovations

watersmartinnovations.com



Scorecards Galore: State Policy Resources to Track and Initiate Progress





What is the Water Efficiency and Conservation State Scorecard?

- An assessment of state-level laws related to water efficiency and conservation for all 50 states
- Result of a 16-question survey (with sub-questions)
- A database of state laws
- A collaborative effort of AWE and the Environmental Law Institute





Goal of the State Scorecard

- Generate awareness and interest in state laws to promote water conservation and efficiency
- Highlight strong laws that can be foundational for other states
- Identify opportunities
- Motivate states through regular updates
- Create friendly competition among states



Primary Topics Covered

- Fixture & Appliance Standards
- Water Loss
- Permitting
- Drought Plans
- Conservation Plans
- Financial Assistance
- Technical Assistance
- Metering & Billing



History of the State Scorecard

AWE has been developing resources related to state-level laws that encourage water conservation and efficiency for a decade



Water Efficiency and Conservation State Scorecard Grades (2017)



Colorado River Basin Supplement

- Focused on CRB States
- Detailed look at primary categories
- More Maps
- Full-length scorecards
- Released January 2019





DECEMBER 2018

A Regional Supplement to the Alliance for Water Efficiency 2017 Report, The Water Efficiency and Conservation State Scorecard: An Assessment of Laws





Colorado River Basin Scores

- CRB States Averaged B-
- 50 States Averaged C
- CRB had highest and lowest scoring states





CRB Supplement Tables & Maps by Category

Plumbing and Appliance Standards and Building Codes	AZ	CA	со	NV	ΝМ	UT	WY
Toilets	0	3	2	0	0	0	0
Showerheads	0	3	2	0	0	0	0
Urinals	0	3	2	0	0	0	0
Clothes Washers	0	0	0	0	0	0	0
Pre-rinse Spray Valves	0	0	0	0	0	0	0
Building/Plumbing Codes	0	1.5	0	0	0	0	0
Total	0	10.5	6	0	0	0	0

Table 4: AWE Water Efficiency and Conservation State Scorecard Points Awarded for Plumbing and Appliance Standards and Building Codes





Figure 3: AWE Water Efficiency and Conservation State Scorecard Points Awarded for Fixture Standards more Efficient than EPAct 1992, and Building and Plumbing Codes

Regional Supplement Charts





CRB Supplement Full-Length Scorecards

Nevada State Scorecard

QuestionPoints AwardedPoints Available1. What state agency or agencies are in charge of drinking water conservation/efficiency?222. Does the state have a water consumption regulation for toilets (that is more stringent than the federal standard)?03Yes or no?02Extra Credit #1: Yes and the fixture is subject to a replacement mandate in law013. Does the state have a water consumption regulation for showerheads (that is more stringent than the federal standard)?02Yes or no?022Extra Credit #2: Yes and the fixture is subject to a replacement mandate in law014. Does the state have a water consumption regulation for urinals (that is more stringent than the federal standard)?02Yes or no?022Extra Credit #3: Yes and the fixture is subject to a replacement mandate in law015. Does the state have a water consumption regulation for clothes washers (that is more stringent than the federal standard)?02Yes or no?0222Extra Credit #4: Yes and the appliance is subject to a replacement mandate in law016. Does the state have a water consumption regulation for pre-rinse spray valves (that is is more stringent than the federal standard)?02Yes or no?0222Extra Credit #4: Yes and the appliance is subject to a replacement mandate in law016. Does the state have a water consumption regulation for pre-rinse spray valves (that is more stri	Nevada Water Efficiency & Conservation Scorecard	Grade: B		
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(b) To what water suppliers do the laws apply? 2 2		0	2	
	(b) To what water suppliers do the laws apply?	2	2	
(c) If there is a numeric limit on leakage or a formula for calculating acceptable levels 0 2	(c) If there is a numeric limit on leakage or a formula for calculating acceptable levels	0	2	
(d) Is submitting audit information required? 0 1		0	1	
(d)(i) If yes, at what frequency must it be submitted? 0 2		0	2	
(d)(ii) If yes, is audit data validation required? 0 1	(d)(ii) If yes, is audit data validation required?	0	1	
Extra Credit #7: Audits are required to be conducted using the AWWA Free Water 0 1	Extra Credit #7: Audits are required to be conducted using the AWWA Free Water	0	1	
(e) Is leak detection required? 1 1		1	1	
(f) Is leak correction required? 1 1		1	1	



Nevada Progress

Nevada AB163

- Introduced February 15, 2019
- Approved by Governor June 3, 2019
- AWE Scorecard helped make the case
- AWE provided support

Assembly Bill No. 163-Assemblymen Watts; Cohen, Nguyen, Peters and Swank

> Joint Sponsors: Senators Brooks and Scheible

> > CHAPTER ..

AN ACT relating to water; revising certain requirements relating to a plan of water conservation; revising minimum standards for plumbing fixtures in new construction and expansions and renovations in certain structures; and providing other matters properly relating thereto.

Legislative Counsel's Digest:

Existing law requires each supplier of water and each public utility to adopt a plan of water conservation, which must be submitted to the Water Planning Section of the Division of Water Resources of the State Department of Conservation and Natural Resources or the Public Utilities Commission of Nevada, as applicable. The plan of water conservation must also be updated and submitted to the Section or Commission, as applicable, every 5 years, (NRS 540.131, 540.141, 704.662, 704.6622) Sections 1 and 8 of this bill require each supplier of water and public utility: (1) who serves 3,300 persons or more to submit the results of a water loss audit with the plan of water conservation or update to the plan; and (2) who serves less than 3,300 persons to submit the results of certain calculations regarding water delivered and water billed with the plan of water conservation or update to the plan. Once a supplier or public utility has submitted the results of a water loss audit, sections 1 and 8 require the supplier of water or public utility to submit with any future update to the plan of water conservation: (1) a comparison between the results of the most recent audit or calculations and the audit or calculations previously submitted; and (2) an analysis of any progress made towards certain goals which must be established in the plan of water conservation for water loss. Sections 3 and 9 of this bill revise the provisions which must be included in a plan or a joint plan of water conservation to include establishing goals for acceptable levels of water loss.

Existing law establishes certain minimum standards for plumbing fixtures in Existing law estaolastic certain minimum standards for plumong mxures in new construction, expansions and renovations in residential, commercial or industrial structures, certain public buildings financed by a public body, manufactured buildings and homes and mobile homes. (NRS 278,582, 338, 193, 461,175, 489,706). Sections 4-7 of this buil revise these requirements to instead require that, if the WaterSome program established by the United States Environmential Protection Agency has established a final product specification for a type of toilet, shower appartures, lawer of united, new construction, expansions and renovations on these structures must install toilets, shower apparatuses, faucets and urinals that have been certified under the WaterSense program. Sections 4-7 exempt from these requirements any residential, commercial or industrial structure and public building financed by a public body that was constructed 50 years or more before the current year.

80th Session (2019)



Water Loss Supplement



Water Loss Supplement

- Report published in March 2019
- Detailed look at water loss
- More maps
- Detailed tables





Does a state statute or regulation limit water loss in a utility distribution system?

a. If yes, is it a: requirement, requirement only in order to receive state funding, or a voluntary target?

Extra Credit: State is leveraging state-funding for M36-compliant technical assistance to water systems in support of an existing or potential mandate.

- b. To what water suppliers do the laws apply?
- c. If there is a numeric limit on leakage or a formula for calculating acceptable levels of leakage, what is it?
- d. Is submitting audit information required?

Extra Credit: Audits are required to be conducted using the AWWA Free Water Audit Software.

i. If yes, at what frequency must it be submitted?

ii.If yes, is audit data validation required?

- e. Is leak detection required?
- f. Is leak correction required?





State	a. State limit on water loss?	Extra Credit: M36 Technical Assistance	b. To what suppliers do laws apply?	c. Numeric limit on leakage?	d. Audit information required?	di. At what frequency?	dii. Data validation required?	Extra Credit: AWWA Software	e. Leak detection required?	f. Leak correction required?	Total
Georgia	2	2	2	1	1	2	1	1	1	1	14
Washington	2	1	2	0	1	2	0	0	1	1	10
Wisconsin	2	1	2	0	1	2	0	0	1	1	10
Arizona	2	1	2	0	1	2	0	0	0	1	9
California	0	2	0	1	1	2	1	1	0	0	8
Indiana	2	0	2	0	1	1	0	1	1	0	8
Kentucky	2	0	2	0	1	2	0	0	0	1	8
Massachusetts	2	1	2	0	1	0	0	0	1	1	8
New Hampshire	1	0	2	0	1	2	0	0	1	1	8
Tennessee	2	0	2	0	1	2	0	1	0	0	8
Texas	1	0	2	0	1	2	0	0	1	1	8
Hawaii	0	2	0	0	1	2	1	1	0	0	7
Maryland	2	0	2	0	1	2	0	0	0	0	7
Oregon	1	0	2	0	1	1	0	0	1	1	7
West Virginia	2	0	2	0	1	2	0	0	0	0	7
Delaware	1	0	2	0	1	0	0	0	1	1	6
Florida	2	0	2	0	1	0	0	0	0	1	6
Illinois	1	0	2	0	1	2	0	0	0	0	6
Nevada	2	0	2	0	0	0	0	0	1	1	6
New Jersey	2	0	2	0	0	0	0	0	1	1	6
New York	1	0	2	0	1	2	0	0	0	0	6
Colorado	0	2	0	0	1	2	0	0	0	0	5
Louisiana	2	0	2	0	0	0	0	0	0	1	5
Minnesota	2	0	2	0	0	0	0	0	0	0	4
Virginia	2	0	2	0	0	0	0	0	0	0	4
Connecticut	1	0	2	0	0	0	0	0	0	0	3
Rhode Island	0	0	0	0	1	0	0	0	1	0	2
Oklahoma	0	1	0	0	0	0	0	0	0	0	1
Pennsylvania	0	0	0	0	0	0	0	1	0	0	1
Utah	0	1	0	0	0	0	0	0	0	0	1

Does a state statute or regulation limit water loss in a utility distribution system?

a. If yes, is it a: requirement, requirement only in order to receive state funding, or a voluntary target?

Extra Credit: State is leveraging state funding for M36-compliant technical assistance to water systems in support of an existing or potential mandate.

b. To what water suppliers do the laws apply?

- c. If there is a numeric limit on leakage or a formula for calculating acceptable levels of leakage, what is it?
- d. Is submitting audit information required?

Extra Credit: Audits are required to be conducted using the AWWA Free Water Audit Software.

i. If yes, at what frequency must it be submitted?

ii.If yes, is audit data validation required?

- e. Is leak detection required?
- f. Is leak correction required?



High Priority Topic Area 1: State Funding for M36-Compliant Technical Assistance



- AWWA M36 manual is the industry-standard water loss control guide for utilities
- State funding for technical assistance shows utilities that they are supported in their efforts





Does a state statute or regulation limit water loss in a utility distribution system?

a. If yes, is it a: requirement, requirement only in order to receive state funding, or a voluntary target?

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- d. Is submitting audit information required?

Extra Credit: Audits are required to be conducted using the AWWA Free Water Audit Software.

i. If yes, at what frequency must it be submitted?

ii.If yes, is audit data validation required?

- e. Is leak detection required?
- f. Is leak correction required?



High Priority Topic Area 2: Water Loss Audit Requirements

- Requiring audits means utilities must establish an audit practice and methodology
- Audits should be validated to ensure quality data leading to quality decision-making
- Audits should be submitted regularly: preferred frequency is yearly, in keeping with standard business practices in all industries
- Extra credit for requiring industry-standard AWWA software





Does a state statute or regulation limit water loss in a utility distribution system?

a. If yes, is it a: requirement, requirement only in order to receive state funding, or a voluntary target?

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b. To what water suppliers do the laws apply?

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- d. Is submitting audit information required?

Extra Credit: Audits are required to be conducted using the AWWA Free Water Audit Software.

i. If yes, at what frequency must it be submitted?

ii.If yes, is audit data validation required?

- e. Is leak detection required?
- f. Is leak correction required?



High Priority Topic Area 3: Leak Detection and Correction

- Leak detection and correction programs should be based on good audit data
- Leaks may be public-facing and dramatic
- Audits help establish proactive rather than reactive leak response





Ongoing Tracking and Support

- Regular Committee Updates
- Call to Action
- Legislative Watch





Legislative Watch

The Alliance for Water Efficiency (AWE) is pleased to monitor U.S. and Canadian federal legislation, and U.S. state-level legislation to inform its members of bills relating to water conservation and efficiency. Bills of interest will be posted as action is taken, and they come to our attention. Check back for updates.

116th Congress

U.S. House of Representatives

U.S. Senate

Parliament of Canada

U.S. State-Level Legislation



Bill Christiansen Alliance for Water Efficiency <u>bill@a4we.org</u>

Lacey Smith Alliance for Water Efficiency lacey@a4we.org



