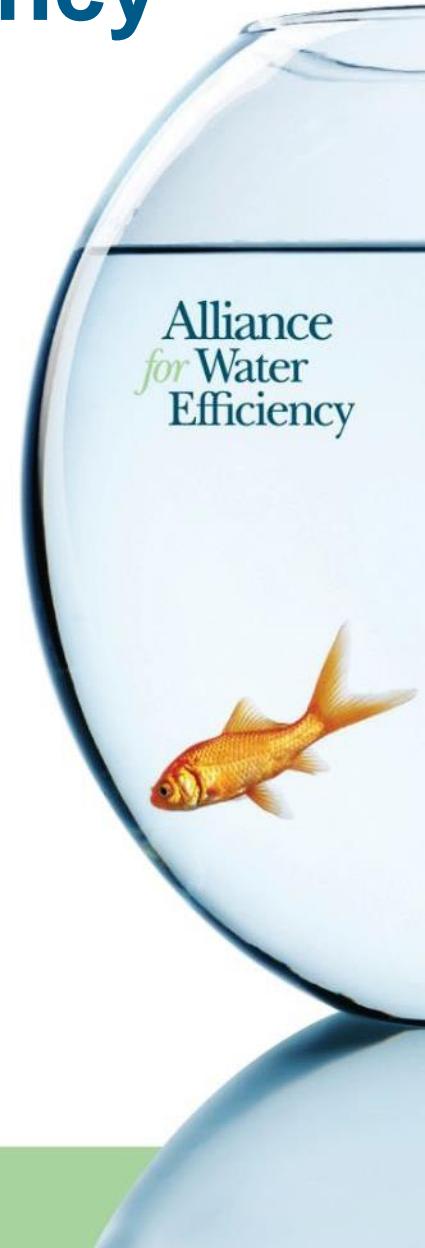

The Water Efficiency and Conservation State Scorecard: An Assessment of Laws



AWE: A Voice for Water Efficiency

- Since 2007 the premier North American organization with a sole mission to promote the **efficient** and **sustainable** use of water
- Stakeholder driven: uniting water suppliers, plumbing, appliance and irrigation manufacturers, advocates, government and academia to develop programs
- 400+ member organizations across US and Canada
- Talk to them about joining:
membership@a4we.org



Who AWE Brings Together

- Water suppliers (retail and wholesale)
- Water planning agencies
- Plumbing, appliance & irrigation manufacturers and retailers
- Efficiency-focused businesses
- Efficiency service providers
- Environmental community
- Energy community
- Government (federal, state, municipal)
- Academic representatives
- Cultural institutions



National Policy and Advocacy

- **Current Priorities:**
 - ✓ WaterSense® authorization
 - ✓ Tax-free water conservation rebates
 - ✓ Eliminating accounting barriers to efficiency
 - ✓ Water/energy nexus research
 - ✓ Standards and codes
- State and local partnerships to drive change (CO WaterSense bill, TX Funding)



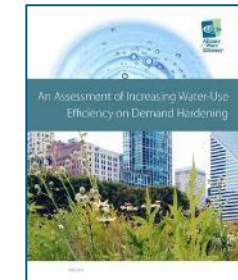
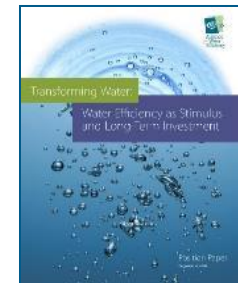
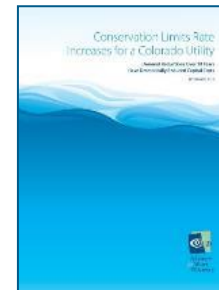
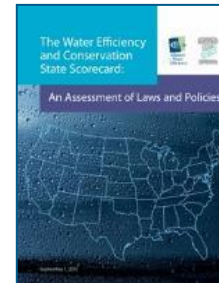
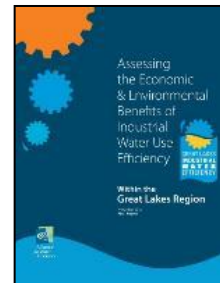
SUBCOMMITTEE HEARING: Nexus of Energy and Water for Sustainability Act of 2014



Research

■ Recent Examples:

1. Net Blue: Water Neutral Growth
2. Outdoor Water Savings Research Initiative
3. 2017 State Scorecard
4. Graywater research
5. Restaurant Water Use Efficiency Guide



Resources and Tools

www.AllianceforWaterEfficiency.org

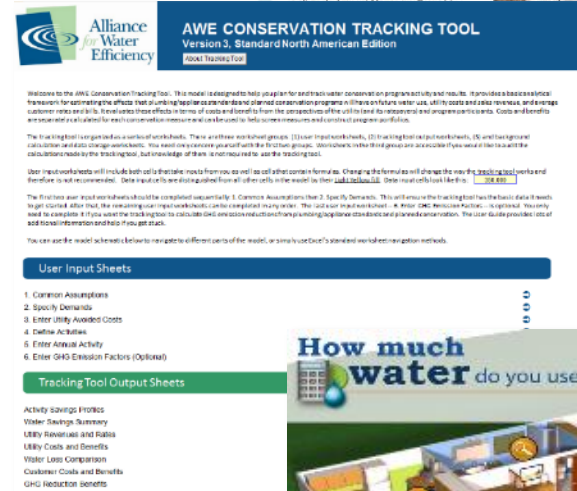
- Resource Library covers nearly two dozen topical areas; i.e. commercial, residential, CII & water/energy
- 2016 - Rebuilding to modernize & improve user experience

Conservation Tracking Tool

- Evaluates the costs and benefits of water conservation programs
- Graphic model outputs which are usable for manager and board presentations
- 400 + registered users

www.home-water-works.org

- Most sophisticated household calculator available
- Over 60,000 consumer water usage audits to date
- Primary component of many utility programs
- New customization opportunities for utilities



Training and Education

- Monthly webinars on efficiency basics and hot topics, such as:
 - Demand hardening
 - Green codes and standards
 - Australia's drought lessons
 - Water Loss Best Practices
- Over **1,800** Professionals reached in 2017 via webinars alone
- In-market workshops and conferences



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 ELI

Goal of the State Scorecard

- ▶ Generate awareness and interest in state laws as a means 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

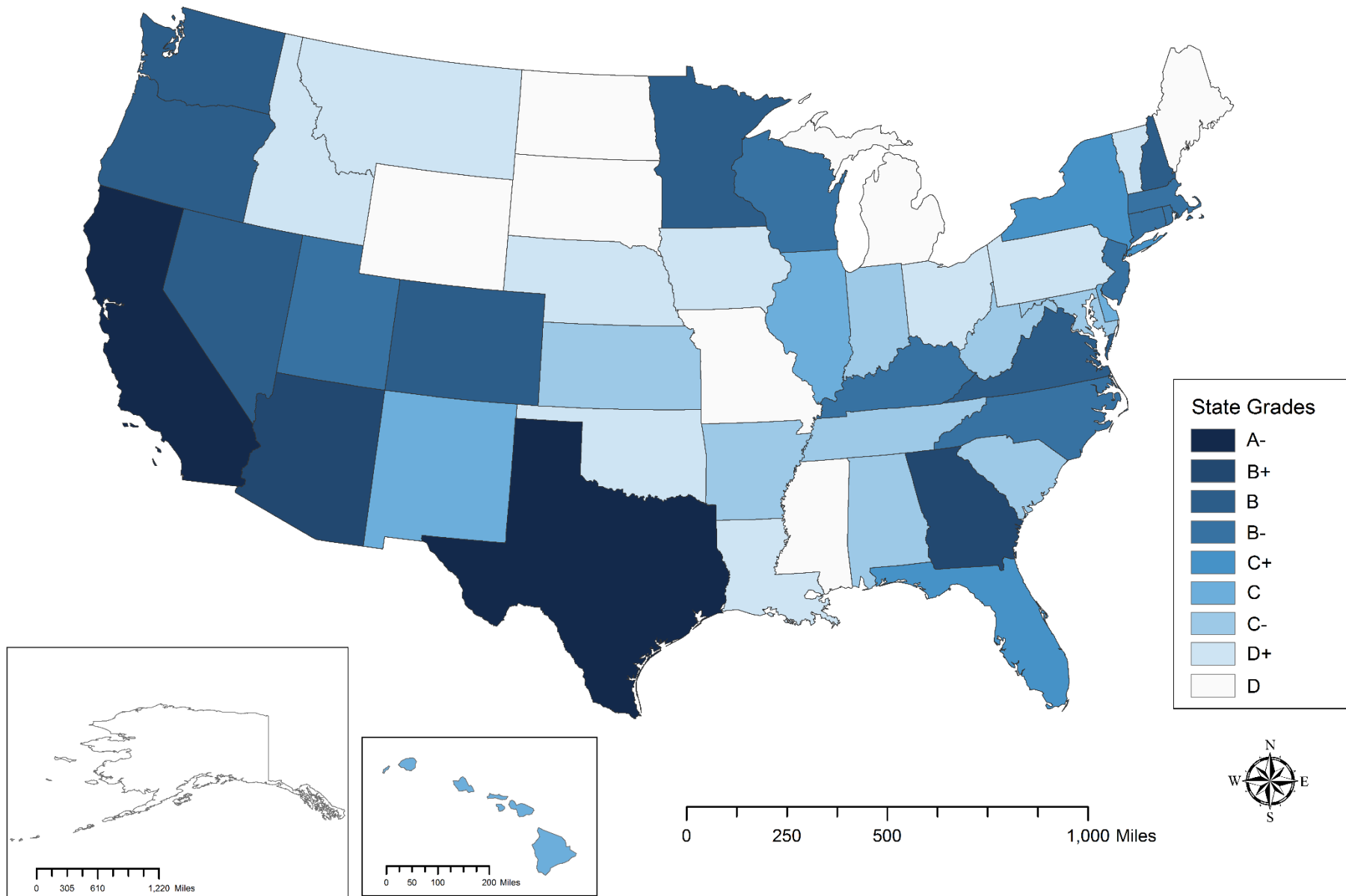
1. State Agency(s) in Charge of Water Conservation
2. Standards for fixtures and appliances (Toilets, Showerheads, Urinals, PRSVs, Clothes Washers)
3. Water loss
4. Conservation as a condition to permitting
5. Drought planning
6. Conservation planning
7. Financial assistance
8. Technical assistance
9. Metering
10. Volumetric billing
11. Conservation pricing

Grades - Conservation & Efficiency

- ▶ In the water conservation and efficiency survey, the 50 states earned an average of 19 points (C grade)
 - 2 “A” grades (California and Texas)
 - 17 “B” grades
 - 14 “C” grades
 - 17 “D” grades

GRADING SCALE	
67 to 75	A+
58 to 66	A
49 to 57	A-
40 to 48	B+
31 to 39	B
26 to 30	B-
21 to 25	C+
16 to 20	C
11 to 15	C-
6 to 10	D+
1 to 5	D

Water Efficiency and Conservation State Scorecard Grades (2017)



Comparing 2012 and 2017 Grades

- ▶ The conservation and efficiency grades for 27 states went up, while the grades for 6 states went down

EFFICIENCY AND CONSERVATION GRADE CHANGES*								
STATE	2017 GRADE	2012 GRADE	STATE	2017 GRADE	2012 GRADE	STATE	2017 GRADE	2012 GRADE
Alabama ↑	C-	D	Louisiana ↑	D+	D	Ohio ↑	D+	D
Alaska	D	D	Maine	D	D	Oklahoma ↑	D+	D
Arizona	B+	B+	Maryland	C-	C	Oregon ↑	B	B-
Arkansas	C-	C-	Massachusetts ↑	B-	C+	Pennsylvania ↑	D+	D
California	A-	A-	Michigan	D	D	Rhode Island	B-	B-
Colorado ↑	B	B-	Minnesota ↑	B	C+	South Carolina	C-	C-
Connecticut ↑	B-	C+	Mississippi	D	D	South Dakota	D	D
Delaware ↑	C	C-	Missouri	D	D	Tennessee ↑	C-	D
Florida ↑	C+	C	Montana ↑	D+	D	Texas	A-	A-
Georgia ↑	B+	B	Nebraska ↑	D+	D	Utah ↑	B-	C+
Hawaii ↑	C	D	Nevada ↑	B	B-	Vermont	D+	C-
Idaho ↑	D+	D	New Hampshire ↑	B	B-	Virginia ↑	B	B-
Illinois ↑	C	C-	New Jersey	B-	B-	Washington	B	B-
Indiana	C-	C-	New Mexico	C	C+	West Virginia ↑	C-	D
Iowa	D+	C	New York ↑	C+	C+	Wisconsin	B-	B-
Kansas	C-	C	North Carolina ↑	B-	C+	Wyoming	D	D
Kentucky ↑	B-	C+	North Dakota	D	D			

*A ↑ indicates that the state's grade went up.

Massachusetts Results

- ▶ 28.5 points (U.S. average was 19)
- ▶ “B-” (up from a C+ in 2012)
- ▶ Ranked 15th out of 50 states
- ▶ Progress made in funding (got a shout out in the report’s highlights section)

Findings

- ▶ Plumbing Fixture and Appliance Standards
 - A few states made improvements in this category
- ▶ Drought Planning Requirements
 - Only 19 states require suppliers to create and/or implement drought plans
 - Of the 6 states that made strides in this area, 4 were in the Southeast

Findings

► Funding

- The number of states offering financial support for urban water conservation projects (from sources other than State Revolving Funds) decreased from 22 states in 2012 to 18 states in 2017

Findings

- ▶ Metering and Billing
 - 31 states have some kind of requirement for metering connections
 - 11 states have volumetric billing requirements, 3 more than in 2012
 - 8 states require water suppliers to implement rate structures that send a conservation signal