

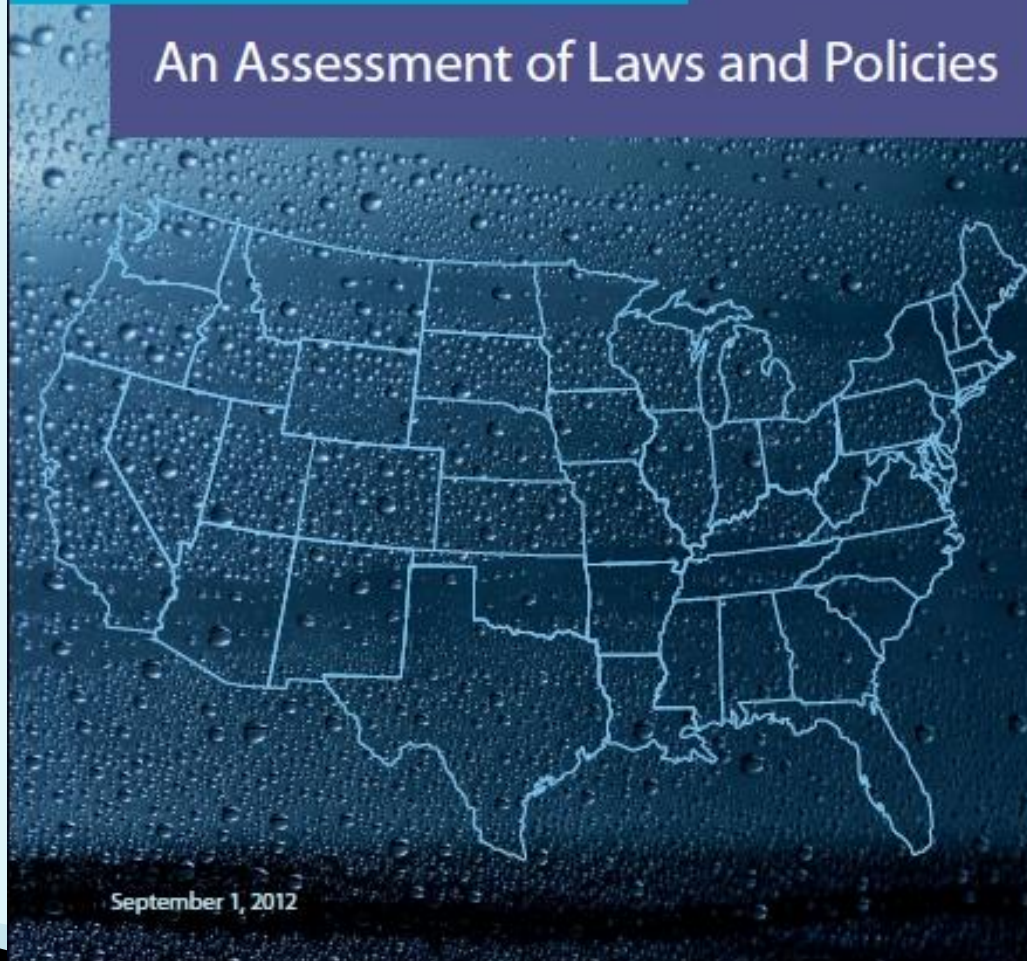
# AWE's Water Efficiency & Conservation State Scorecard: Assessment of Laws & Policies

Water Resources Commission  
October 11, 2012

# The Water Efficiency and Conservation State Scorecard:



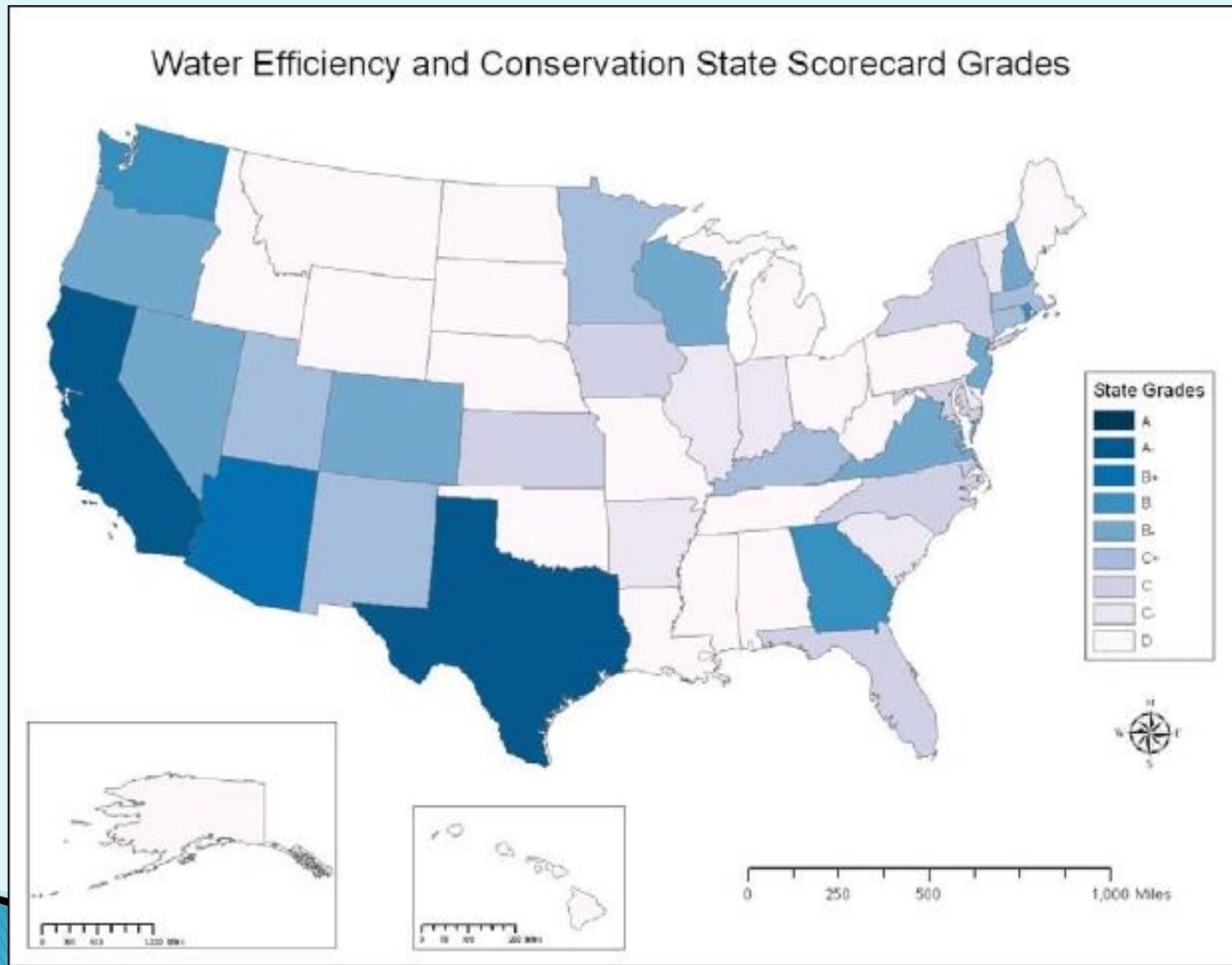
## An Assessment of Laws and Policies



September 1, 2012

# MA score: C+

Water Efficiency and Conservation State Scorecard Grades





# Massachusetts - 2012 State Policy Information

Below are results for Massachusetts from the 2011/2012 Water Efficiency and Conservation State Scorecard survey.



Use the links below to jump to a specific question:

Q1. State Agencies	Q8. Water Loss	Q15. Implementation Requirements
Q2. Toilet Regulations	Q9. Permitting	Q16. State Funding for Conservation
Q3. Showerhead Regulations	Q10. Drought Plans	Q17. Technical Assistance
Q4. Urinal Regulations	Q11. Conservation Plans	Q18. Volumetric Billing
Q5. Clothes Washer Regulations	Q12. Authority to Approve Plans	<del>Q19. Metered Connections</del>
Q6. PRSV Regulations	Q13. Plan Update Frequency	Q20. ET Microclimate Information
Q7. Building or Plumbing Codes	Q14. Planning Framework	Additional Information

<http://www.allianceforwaterefficiency.org/2012-state-information.aspx>

**Q2-6: Water consumption regulations more stringent than federal standards?**

## Q2. Toilet standard < 1.6 gpf?

- ▶ Maximum points: 2
- ▶ MA points: 0
- ▶ CA, GA, TX
- ▶ Requirements for sale & installation
- ▶ All states: 1.28 gpf



# Q4. Urinal standard <1.0 gpf?

- ▶ Maximum points: 2
- ▶ States earning 1 point: CA, GA, TX
- ▶ All states: 0.5 gpf
- ▶ MA points: 0

**Q7: mandatory building or plumbing codes ...that exceed federal standard?**



# Q7. Building & Plumbing Codes

- ▶ Maximum points: 2  
(codes apply to most buildings)
- ▶ GA: 2 points
- ▶ TX: 1 point
- ▶ MA: 0 points

## Georgia:

- ▶ High-efficiency plumbing products required in:
  - All new construction
  - Alterations
  - Fixture replacements
- ▶ Lower standards for:
  - Lavatory faucets
  - Kitchen faucets

# Q8: Utility Distribution Water Loss

- ▶ Maximum 3 points
- ▶ Most states have some requirements, but none have both strong statutory requirements AND utilize most current water loss accounting methodology
- ▶ Strong law: NH, NJ, WA
- ▶ Industry best practices for calculating water loss: TX, TN, GA
- ▶ MA initially received 1 point
- ▶ Received another point (but not because of what was requested)

# Q11–15: Water conservation & efficiency planning requirements

- ▶ Q11: mandatory planning requirement?
- ▶ Q12: authority to approve or reject plans?
- ▶ Q13: how often?
- ▶ Q14: framework or prescribed methodology?
- ▶ Q15: implementation required?

# Q11–15. Conservation Plans

- ▶ Maximum points:  
2–3
- ▶ MA: 0–2 points
- ▶ Required outside of permitting process
- ▶ Required plan elements
- ▶ Authority to approve & reject
- ▶ Implementation enforceable
- ▶ CA: Grants & loans conditioned on implementation

**Q18. Does the state require volumetric billing?**



# Q1 8...require volumetric billing?

- ▶ MA: No, 0 points
- ▶ Yes: CA, MN, NJ, RI, TX, WI
- ▶ MN and NJ: conservation pricing in legal language

# New Jersey

- ▶ “Unless more stringent water conservation measures are required by the Department, all public community water systems **shall...**  
4. **File water rate structures which provide incentives for water conservation** with the Department and the Board of Public Utilities, as appropriate; and 5. **Require installation of water meters for all service connections.**

**Q20. ...provide statewide  
ET microclimate  
information for urban  
landscapes?**

# Q20. ET microclimate info

- ▶ Maximum points: 2
- ▶ Yes: 8 states
- ▶ MA: 0 points
- ▶ NM: on-line irrigation calculator
- ▶ FL: automated weather network
- ▶ CA: extra credit for model landscape ordinance

# What did we learn?

- ▶ States with highest scores: State Water Plans
- ▶ Review standards for plumbing fixtures
- ▶ Review water-loss methodology
- ▶ Consider water conservation planning requirements
- ▶ Make ET information available (Cornell)
- ▶ State models:
  - CA water-use reduction targets (20% by 2020)
  - GA Water Conservation Implementation Plan
  - WI Water Efficiency Potential Study
  - TX- Water Loss