# California Water Conservation Update

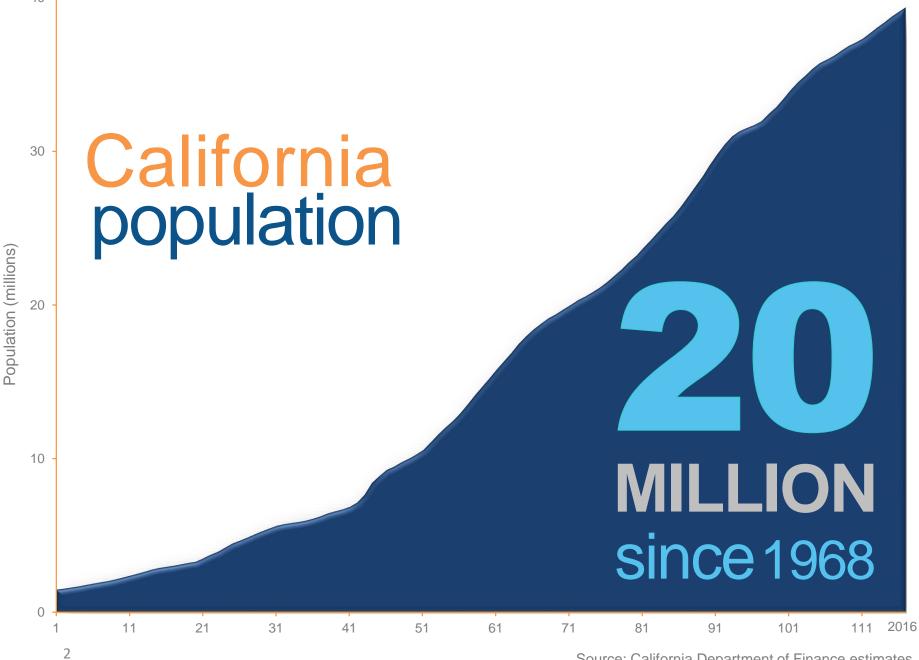
Making Conservation a California Way of Life

## Kathy Frevert, California SWRCB July 18, 2018









Source: California Department of Finance estimates

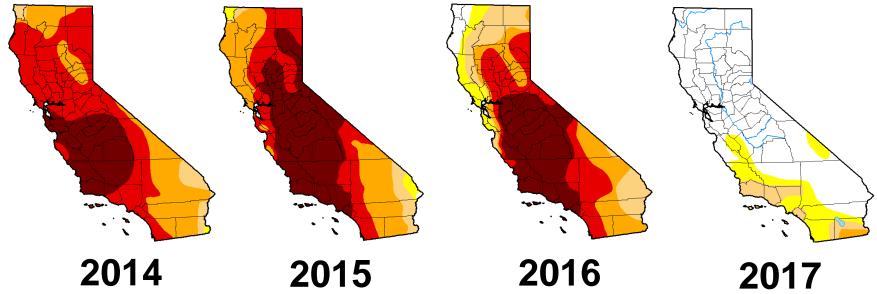
# Yosemite



## **2011 2012 2013 2014 2015**

**Third week of March** 

## CALIFORNIA Drought Over Time



**2014** Reporting, prohibitions, voluntary actions **2015** 25% mandatory urban water conservation

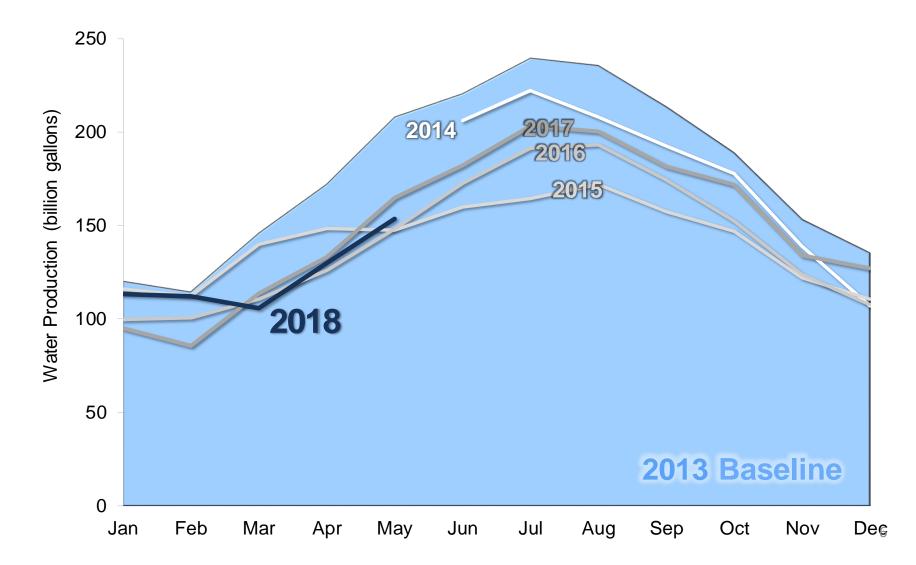
**2016** Conservation standards adjustment; stress test **2017** Drought Emergency Rescinded

**Emergency Regulations in place** 



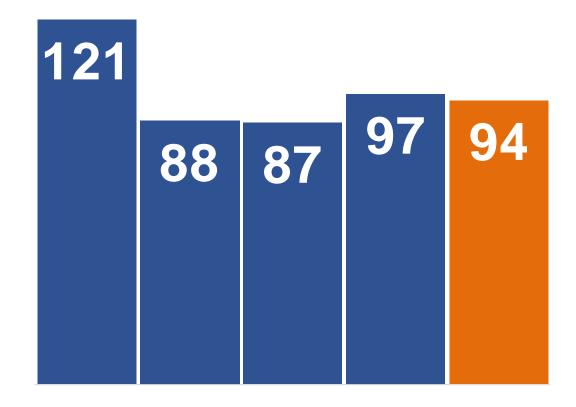
## **Statewide urban water production**

#### **Over 107 Billion Gallons Saved in 2018**



# May Monthly Residential Use\* Gallons per Capita Daily

\*\* includes both indoor and outdoor



#### 2013 2015 2016 2017 2018

## California Water Action Plan

• **Roadmap** for the state's journey toward sustainable water management

## Executive Orders B-37-16 & B-40-17

- Use Water More Wisely
- Eliminate Water Waste
- Strengthen Local Drought Resilience
- Improve Agricultural Water Use Efficiency and Drought Planning

### Framework Report & New Legislation

- Framework Report: April 2017
- Legislation AB 1668 & SB 606: May 31, 2018



# Framework **REPORT**

Required by Executive Order B-37-16 Released April 2017

Develop targets "Water Use Objectives" based on standards for indoor, outdoor, and commercial, industrial, institutional (CII)

Achieve conservation greater than 20x2020

**Better data (reporting)** 

#### AB1668 & SB606 Key Provisions May 31, 2018 Signed by Governor

## Water Use Objective & Efficiency Standards

- Establishes objective & standards for calculating objective
- Establishes a progressive enforcement approach
- Authorizes reporting regulation

## Urban Water Management Planning

• New requirements for UWMPs and WSCPs

## Agricultural Water Management Planning

• New requirements for AWMPs

## Small Suppliers/Rural Community Planning

Agency Recommendation

## AB 1668 & SB 606 Focus Today

May 31, 2018 Signed by Governor

## Water Use Objective & Efficiency Standards

Establishes residential indoor standard

Directs development and adoption of:

- Residential and CII outdoor standards
- Method to calculate objective
- Variances
- CII performance measures (PM)

Includes credit for potable reuse, i.e. bonus incentive Establishes a progressive enforcement approach Authorizes reporting regulation

# Urban Water Use Objective =

**Fiscal or** 

calendar

year

**Aggregate Residential Indoor Use Aggregate Residential Outdoor Use Aggregate CII Outdoor use** Cll landscape areas with dedicated irrigation meters **Aggregate Water Loss Aggregate Variances Bonus Incentive for Potable Reuse** Up to 15% of objective

Urban Water Use Objective Indoor Residential Use

Based on population and indoor standard

- **Aggregated for service area**
- 55 GPCD (until 2025)
- No lower than 52.5 GPCD (2025-2030)
- No lower than 50 GPCD (2030+)

## **Report to Legislature Jan 2021**

Studies on indoor water use

Urban Water Use Objective **Outdoor Residential Use** Landscape area x Eto x Landscape Standard **Applies to irrigable lands** Provisions for swimming pools, spas, water features • State is providing landscape area data (by Jan 2021)

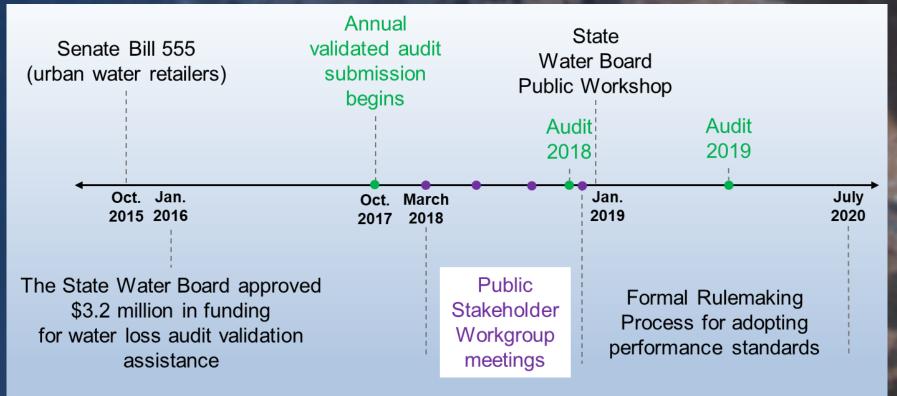
**Studies and Pilots must be completed first** 

**Urban Water Use Objective** (Commercial, industrial, & institutional = CII) **Outdoor CII Irrigation Water Use CII** landscape areas with dedicated irrigation meters **Incorporate principles of MWELO** Excludes commercial agricultural water **CII Performance Measures Urban Retail Suppliers Implement** Not volumetric, not part of water use objective

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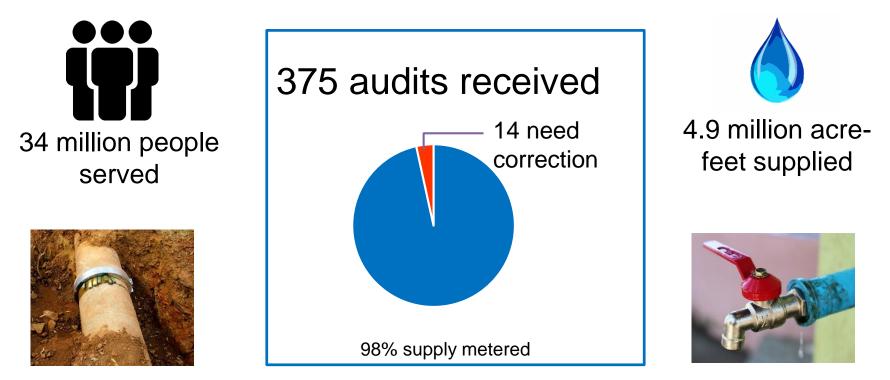
## Water Loss STANDARDS System Water Loss (SB 555)

#### Performance standards for a volume of water loss



3000 acre-feet per year or 3000 customers

# 2017 Water Loss Audits



113,000 miles of mains

8 million connections

35 gallons per connection per day

308,000 acre-feet of real losses ~ \$226 million in value

## Efficiency TIMING Standards



All standards adopted through regulatory

process, taking input from industry leaders, stakeholders, and public 29

# More detailed Timeline

			Other Standards	information. Starting Nov 2023 Board may
		Residential Indoor Standard	Stakeholders and public advise on studies and rulemaking By <b>Oct 2021</b> :	issue informational orders Starting Nov 2024, Board may issue written notices
	Water Loss Standard	Study whether 55 GPCD reflects best practices	Recommend standards, Cll PMs, variances and method to calculate	Starting Nov 2025, Board may issue conservation orders
Reporting regulation	Stakeholder meetings (now)	Study impacts of a changing standard Stakeholder input	objective. By <b>May 2022</b> , identify potential	Violating these orders may be subject to fines of up to <b>\$1000/day</b>
Fall 2018: Begin rulemaking After Jan 2019: Adopt regulation	By <b>Jan 2019:</b> Begin rulemaking By <b>July 2020:</b> Adopt regulation	on research By Jan 2021: Recommendation to Legislature	impacts By <b>June 2022</b> : Adopt standards and CII PMs	Starting in <b>2027,</b> violating a regulation may also result in a fine 30

#### Enforcement

Suppliers submit

# **Engaging Stakeholders**

## Water Loss Standard

• In progress through SB555, Board workshops in progress

## **Residential Outdoor Standard**

• DWR workshops in progress

### AB1668/SB606 general overview

DWR and SWRCB Info and Listening Sessions, Sept 2018

### Developing the standards, etc.

• Timing, format and process TBD

## Adopting the standards

Workshops and public comment opportunities as with any rulemaking

# REPORTING

Suppliers report monthly production to the Board

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DWR collects plan data (UWMPs, WSCPs, AWMPs)

Suppliers submit annual reports to DWR

Streamline reporting to Board and DWR

## Local CONTROL





**Conservation Rate Structures** 



Customer and System Leak Repair



**Ordinances and Codes** 



**Education and Outreach** 

# COMPLIANCE

On Water Use Objective, not on standards Aggregated, supplier scale; not individuals

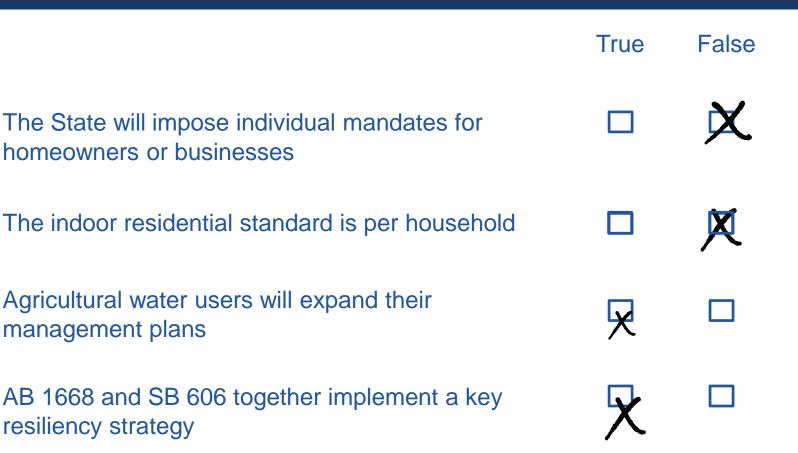
Infinite pathways for local compliance Suppliers can focus on whatever approach works best for them

### **State Water Board**

Glide path enforcement (info orders, warning letters, conservation orders)

Suppliers have until 2027 (9 years!) to hit their objectives before possible penalties

# Statewide True or False?



# Statewide TAKEAWAYS





Conservation is often most cost effective approach to extend or develop new supplies

Urban water suppliers calculate water use objectives using standards based on need



Suppliers locally determine how to best achieve objectives and manage supply (infinite approaches)



New approach is equitable and flexible!



Helps us prepare for future droughts and changing climate



## Thank you

### Kathy Frevert <u>Kathy.Frevert@waterboards.ca.gov</u>

916-322-5274

#### Water Board

www.waterboards.ca.gov/water\_issues/ programs/conservation\_portal/california\_ statutes.html

DWR

water.ca.gov/Programs/Water-Use-And-Efficiency

