

# **Emergency Urban Water Conservation Regulation: Stress-Test Results**

Office of Research, Planning, and Performance

August 16, 2016



# Background

- Emergency urban water conservation regulation extended and modified in May 2016
- Continued prohibitions and other end-user requirements from May 2015 emergency regulation
- Self-Certification approach for urban water suppliers
  - Conservation standard based on “stress-test” of water supply reliability
  - Option to keep existing conservation standard



# Self-Certification of Supply Reliability

## “Stress Test”

- Water supply analysis based on three additional years of drought using 2013-2015 hydrologic conditions
- Use 2013-2014 potable demand levels
- Set conservation standard commensurate with level of shortage at end of third year (2019)
- Wholesale agencies required to provide water availability estimates



# Projected Supply under “Stress Test”

## Worksheet 1 : Total available water supply for individual water supplier

### Step 2 of Water Supply Reliability Certification and Data Submission Form

Select supplier << Enter name of urban water supplier

#### User Input Instructions

- (1) Please select units of measure from the dropdown menu.
- (2) Enter information on available water supplies and supplies committed to other uses.

#### LEGEND:

User Input or Selection	
Linked from User Input	

acre feet (AF) << Select units of measure

#### Available Water Supplies

Sources of Supply	Name of Provider(s) or Description	Source used in prior years?	Water Available in			Wholesaler information Direct Web Link	Wholesaler Water System Number**
			WY 2017 *	WY 2018 *	WY 2019		
<b>WHOLESALER SUPPLIED</b> >> Provide direct web link(s) to information on the volume of water the wholesaler expects to deliver to the retailer water supplier in each year.							
Wholesaler 1	Wholesaler xx	Select Y/N	310.0	310.0	310.0	www.wholesaler page	
Wholesaler 2		Select Y/N					
Wholesaler 3		Select Y/N					
Wholesaler 4		Select Y/N					
Wholesaler 5		Select Y/N					
<b>SELF-SUPPLIED</b>							
Water Recycling (potable)		Select Y/N					
Surface water: SWP		Select Y/N					
Surface water: CVP		Select Y/N					
Surface water: Colorado River		Select Y/N					
Surface water: other (describe)	Local streams	Select Y/N	1,400.0	1,200.0	900.0		
Surface water: other (describe)		Select Y/N					
Local Groundwater	Basin xx	Select Y/N	700.0	700.0	700.0		<< Complete groundwater tab
Seawater Desalination		Select Y/N					
Transfers		Select Y/N					
Exchanges		Select Y/N					
Other (describe):		Select Y/N					<< To add more self-supplied sources, insert as many rows
SUBTOTAL of available supplies (in units selected)			2,410.0	2,210.0	1,910.0		

\* Any carryover from one year is incorporated in the supply of the following year, as legally allowed.

# “Stress Test” Submissions

- 48 wholesalers provided information  
[http://www.waterboards.ca.gov/water\\_issues/programs/conservation\\_portal/docs/emergency\\_reg/wholesale\\_websites/wholesale\\_websites.pdf](http://www.waterboards.ca.gov/water_issues/programs/conservation_portal/docs/emergency_reg/wholesale_websites/wholesale_websites.pdf)
- 378 out of 411 urban water suppliers, plus one supplier new to reporting, completed the “stress-test”
- Two aggregated self-certifications:
  - San Diego County Water Authority (22 suppliers)
  - Water Facilities Authority (5 suppliers; Chino/Ontario area)



# Review Process

- Outreach to suppliers that did not self-certify
- Review of submissions for completeness and well-documented analysis
- Informal follow-up for required documents and clarifying information
- Nine Information Orders issued to suppliers with incomplete submissions



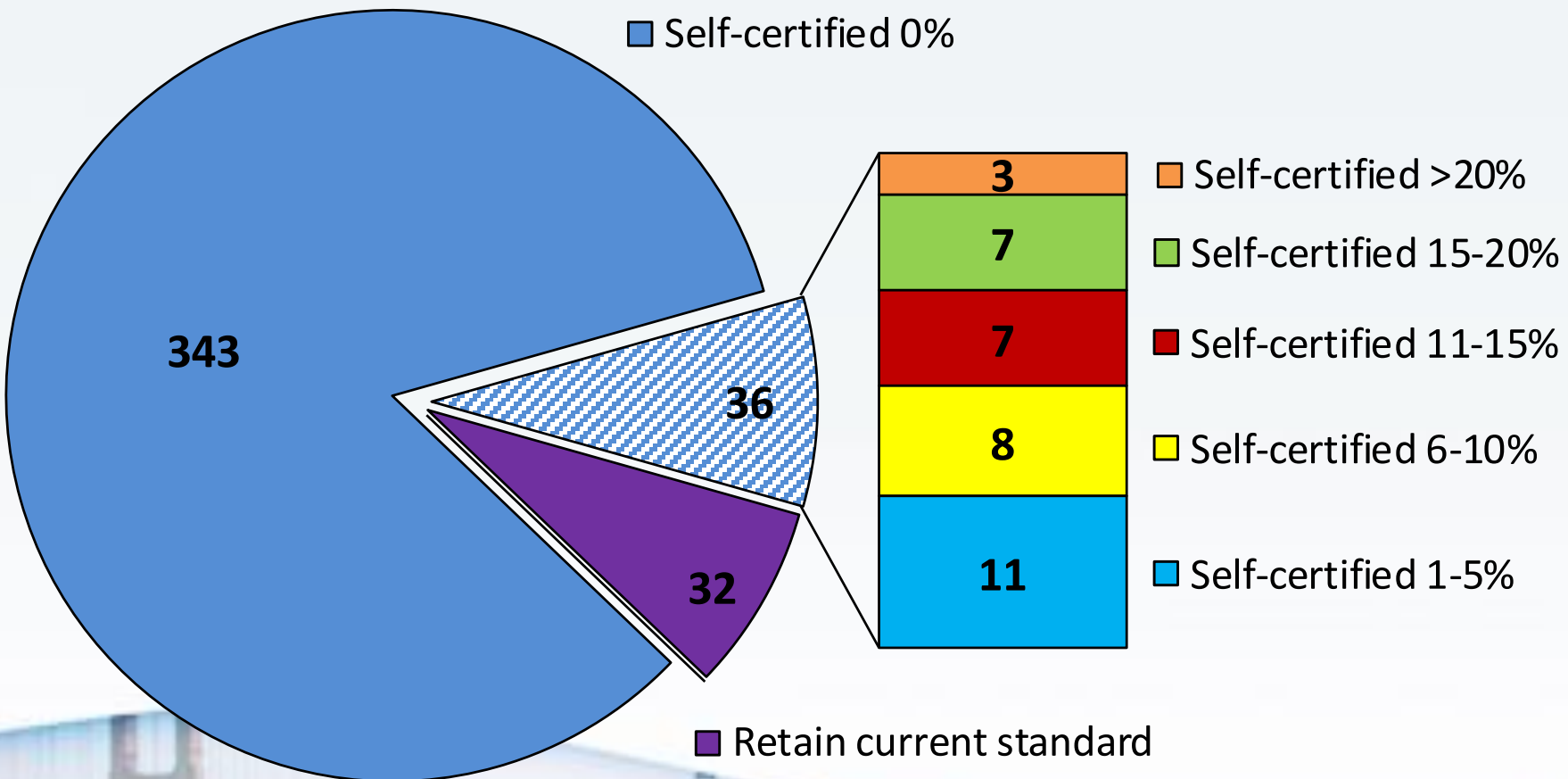
# Review Process

## Examples where follow up was necessary:

- Groundwater availability was unclear
- Calculations did not include supporting documentation
- Water supplier information did not match wholesaler information

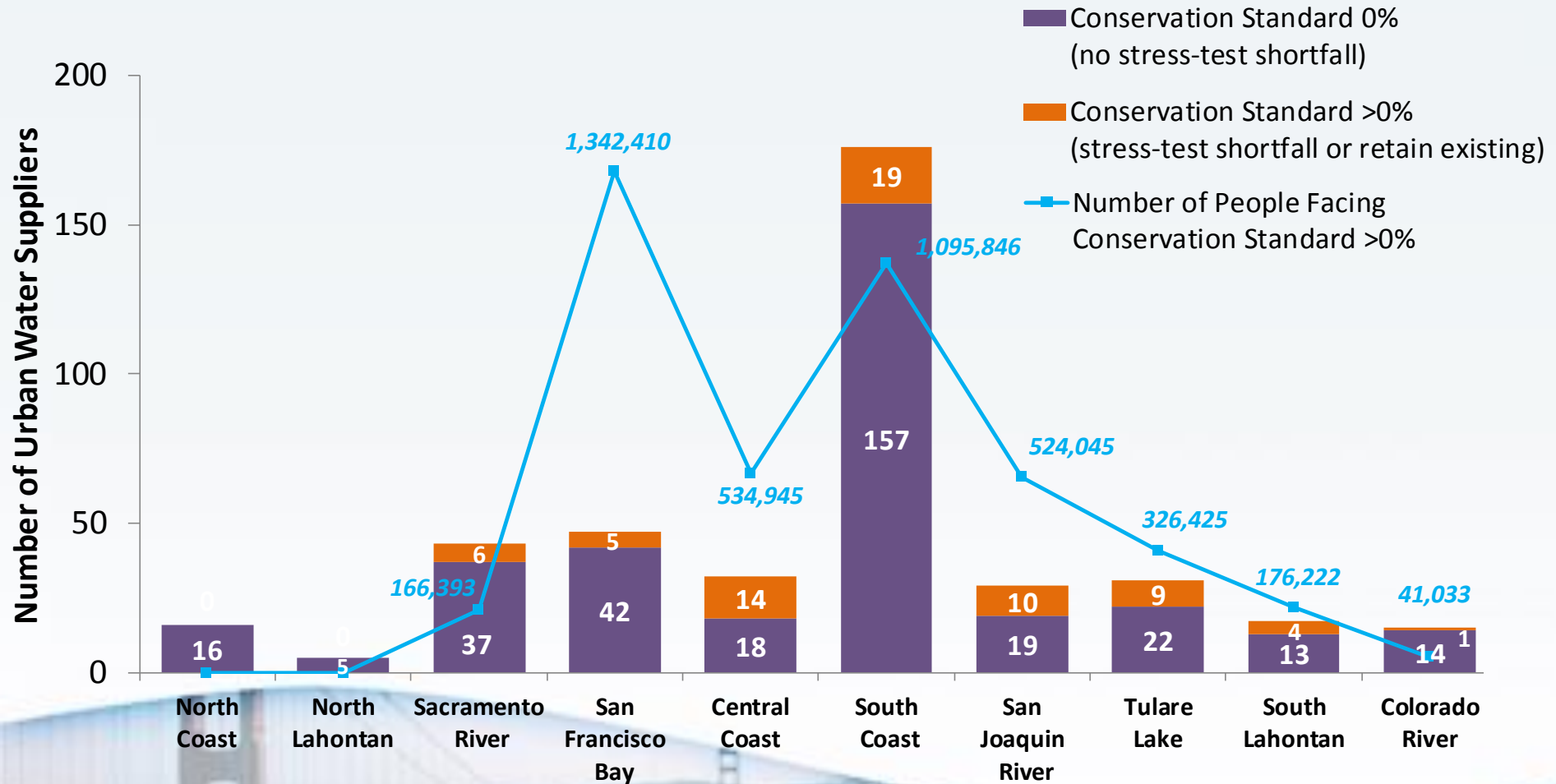


# Self-Certified Conservation Standards

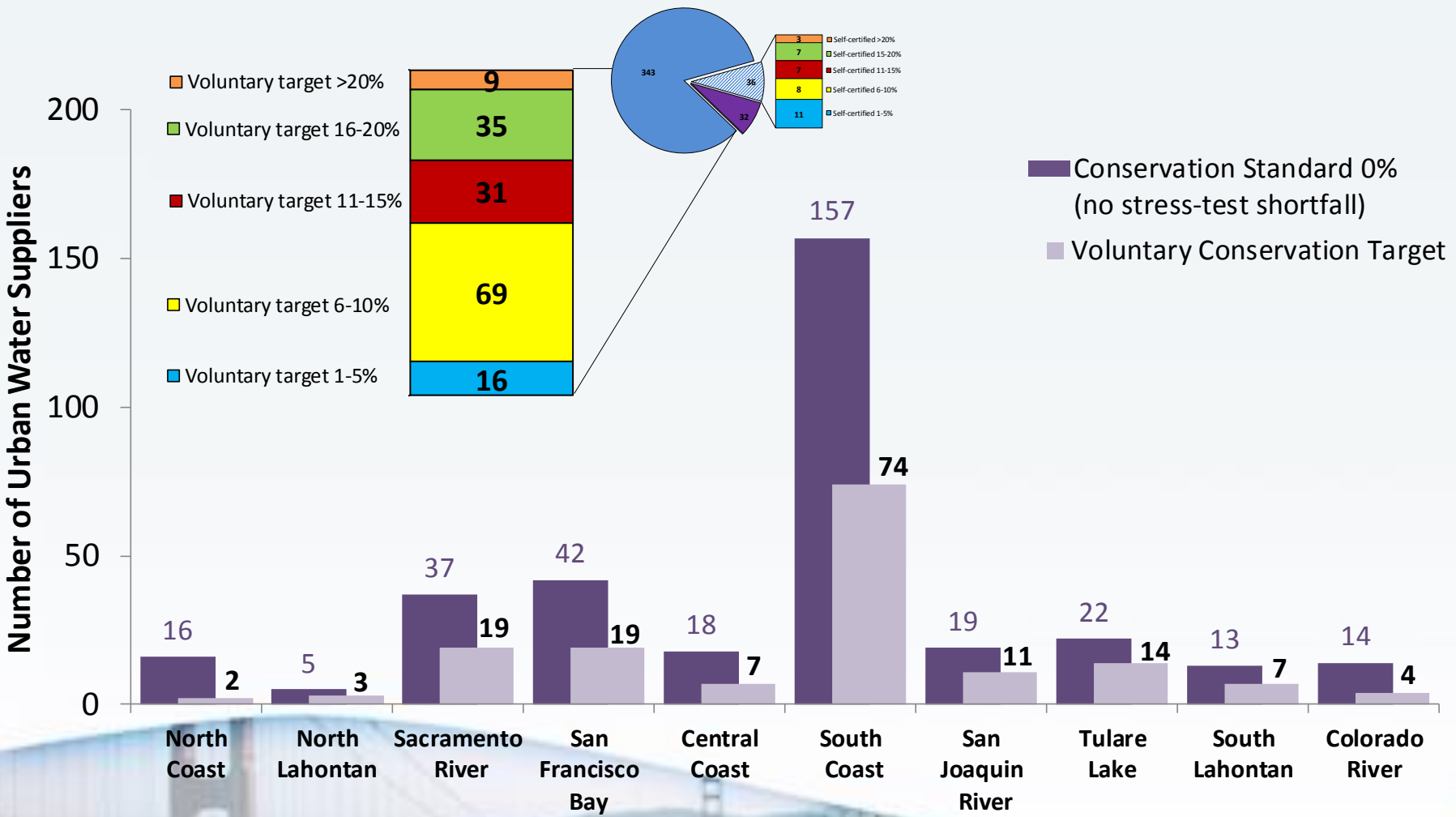




# Conservation Standards by Hydrologic Region



# Voluntary Conservation Targets



# Summary

- 32 suppliers (8 percent) will retain existing standards
- Under three additional years of drought
  - 343 suppliers (84 percent) self-certified sufficient supply
  - 36 suppliers (8 percent) indicated a supply shortage
- Information Orders to nine suppliers to verify water availability claims or request additional data



# Next Steps

- Monitor conservation levels
- Long-term Water Conservation and Efficiency actions
  - Board Workshop in October
- Develop permanent water waste prohibitions
- Plan for potential extended emergency regulation to begin February 2017



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