

Urban Water Conservation Workshop

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Los Angeles, Ca



Water Conservation Emergency Regulation Timeline

Drought Declaration	January 17, 2014
Drought Executive Order	April 25, 2014
Initial Water Board Survey	May-June 2014
Board Adopts Emergency Regulation	July 15, 2014
OAL Approves Emergency Regulation	July 28, 2014
Water Production Reporting Begins	August 15, 2014
Per Capita Water Use Reporting Begins	October 15, 2014
Emergency Regulation set to Expire	April 24, 2015

Small Water Supplier Actions

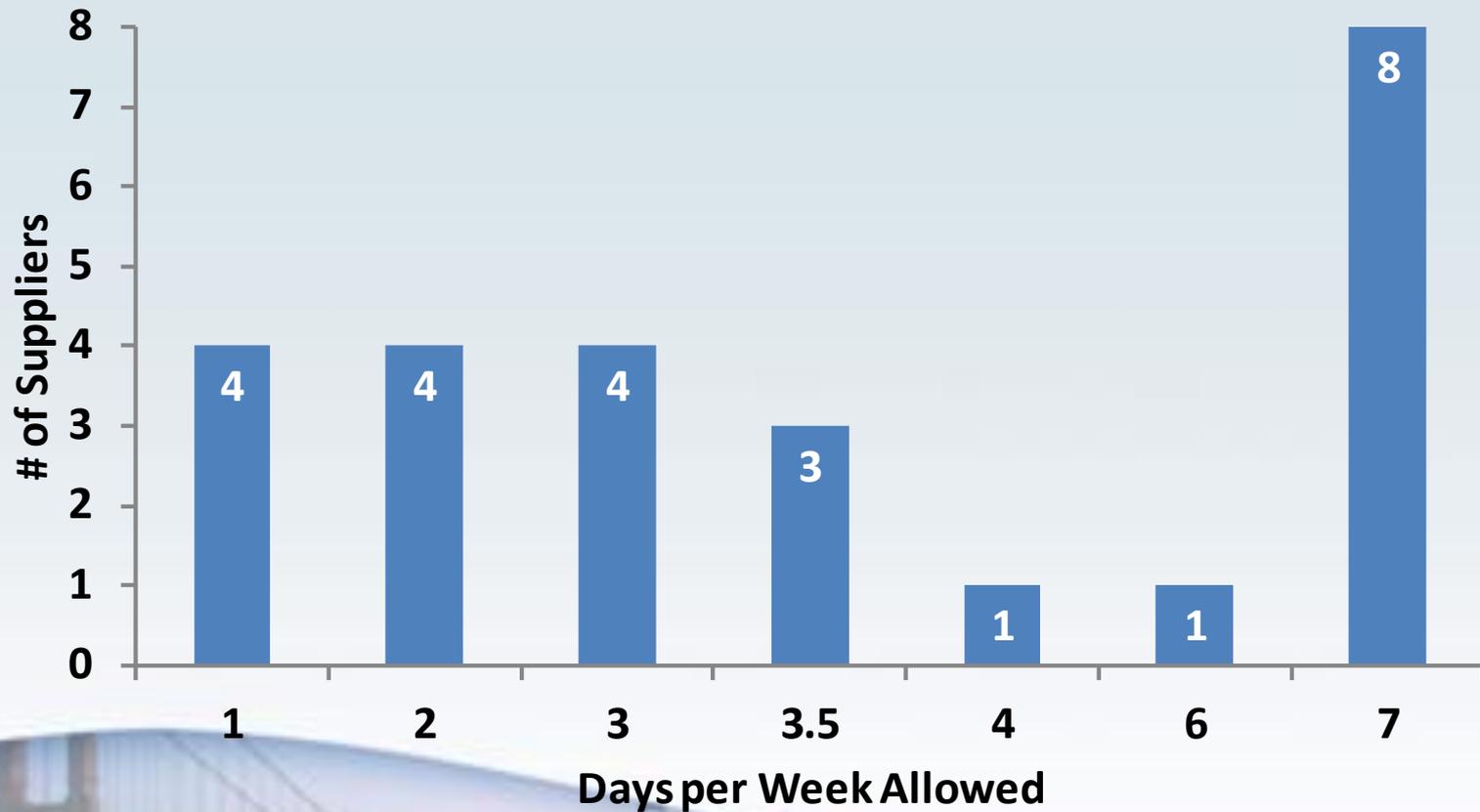
- Informal Assessment of 10 Small Water Suppliers (representing approx. 50,000 People)
 - 40% provide a way to report water waste
 - 60% provide educational materials

Action	% Implementing as Mandatory
Restriction on # days outdoor irrigation is allowed	20%*
Restriction on hours of the day that outdoor irrigation is allowed	10%
Prohibited uses consistent with emergency regulation	50%
Hospitality restrictions	10%

**only one supplier (10%) limits outdoor irrigation to 2 days per week*

Large Supplier Restrictions on Outdoor Irrigation

Days per Week Outdoor Irrigation is Allowed
(Suppliers serving 200,000 or more)



Based on a sample of 25 largest water suppliers collectively serving ≈ 14.7 million people

Information Needs

- Where and when is water being used?
- Who is conserving?
- What conservation actions are in place?
- What is working?
- How is water being used (indoor/outdoor)
- What is the potential for water conservation?



Approach for data collection

- Frequent data collection and reporting
 - Monthly web based reporting
- Large water suppliers (>3000 connections)
- Simple/Measure critical few
- Informal Follow up with phone interviews



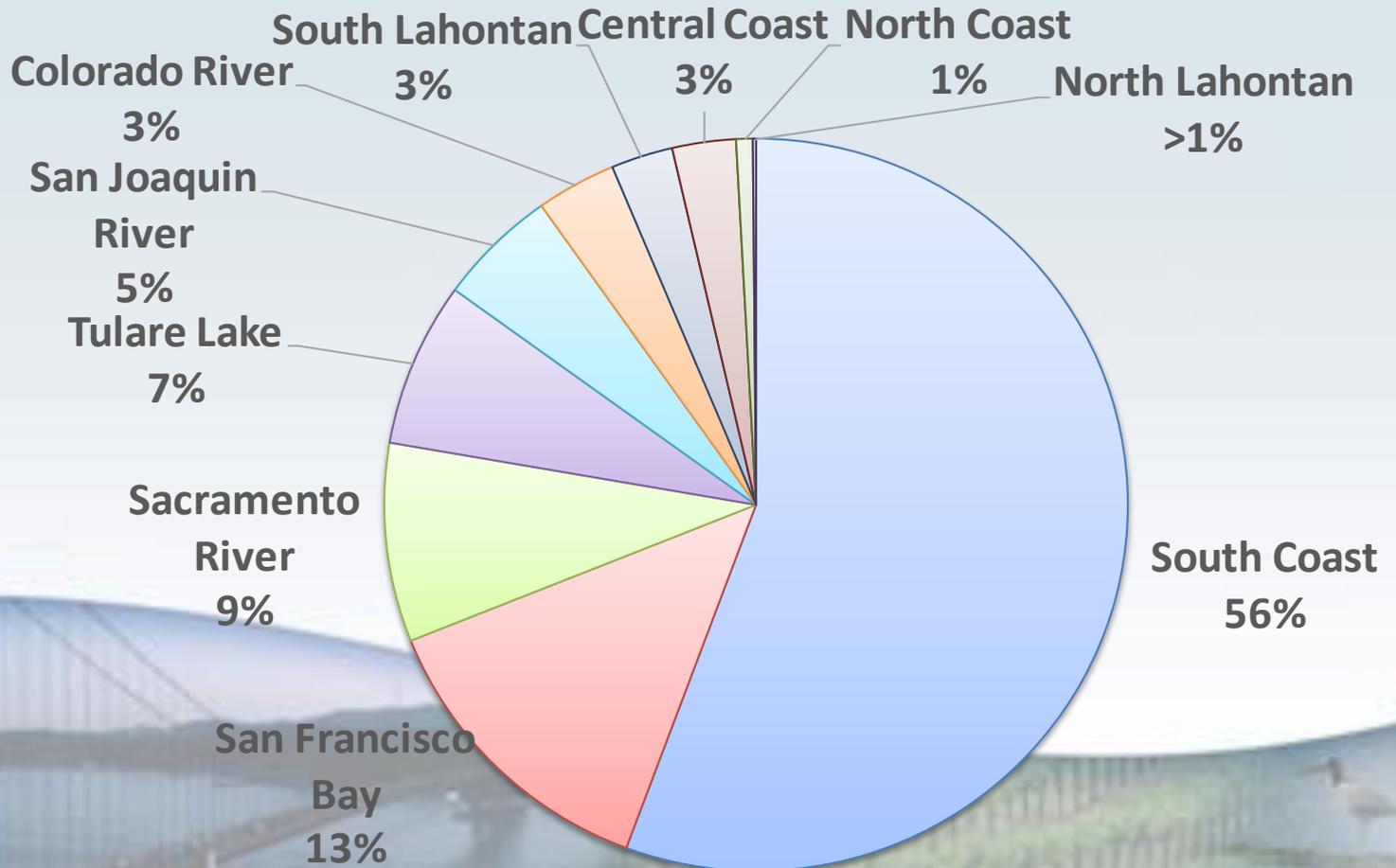
Metrics

- Water Production
- Residential Water
- Population Served
- Percentage Reduction (calculated)
- R-GPCD
- Mandatory restrictions
- Additional data?



South Coast

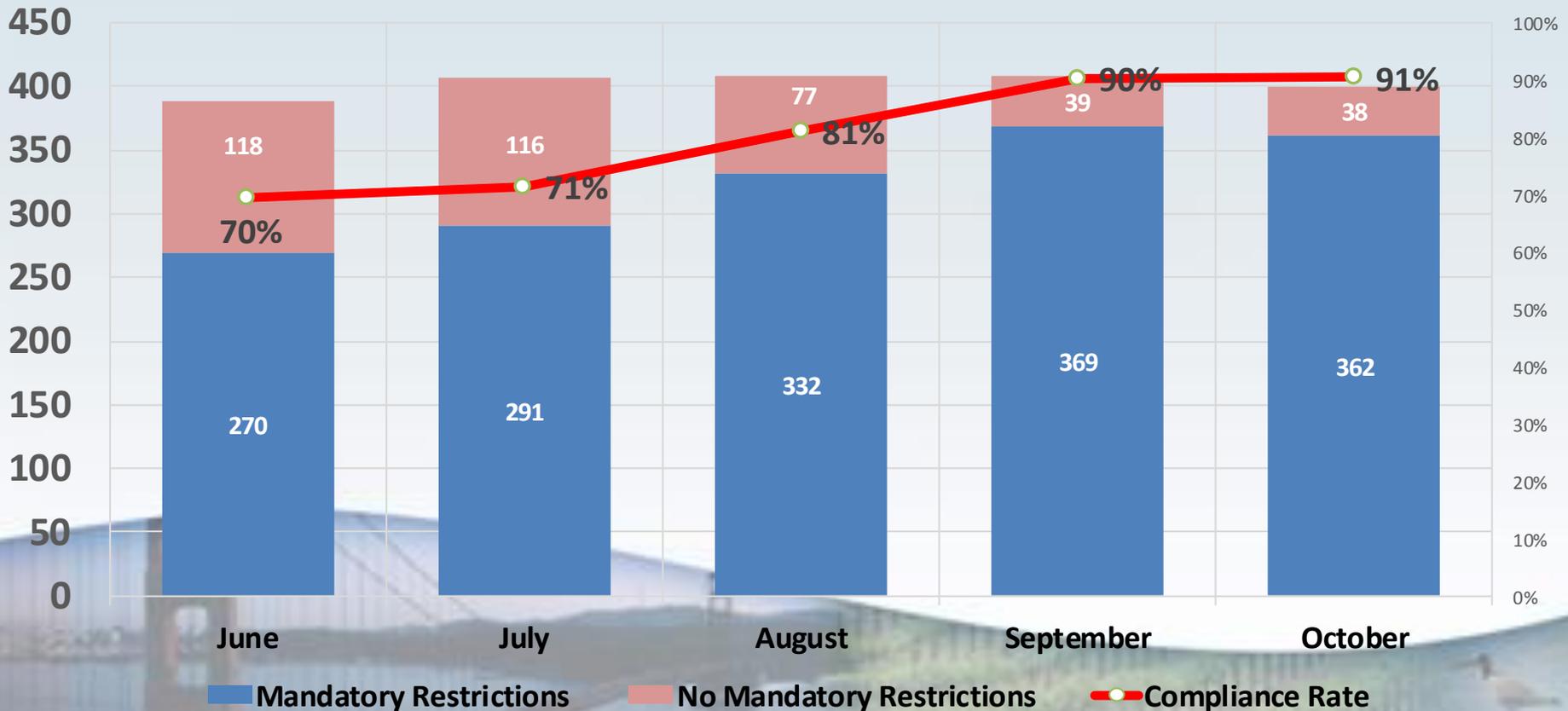
- 173 Retail Urban Water Suppliers
- 20 million Californians represented
- 56% of urban water in State



Mandatory Restrictions on Outdoor Water Use

- 91% now implementing mandatory restrictions

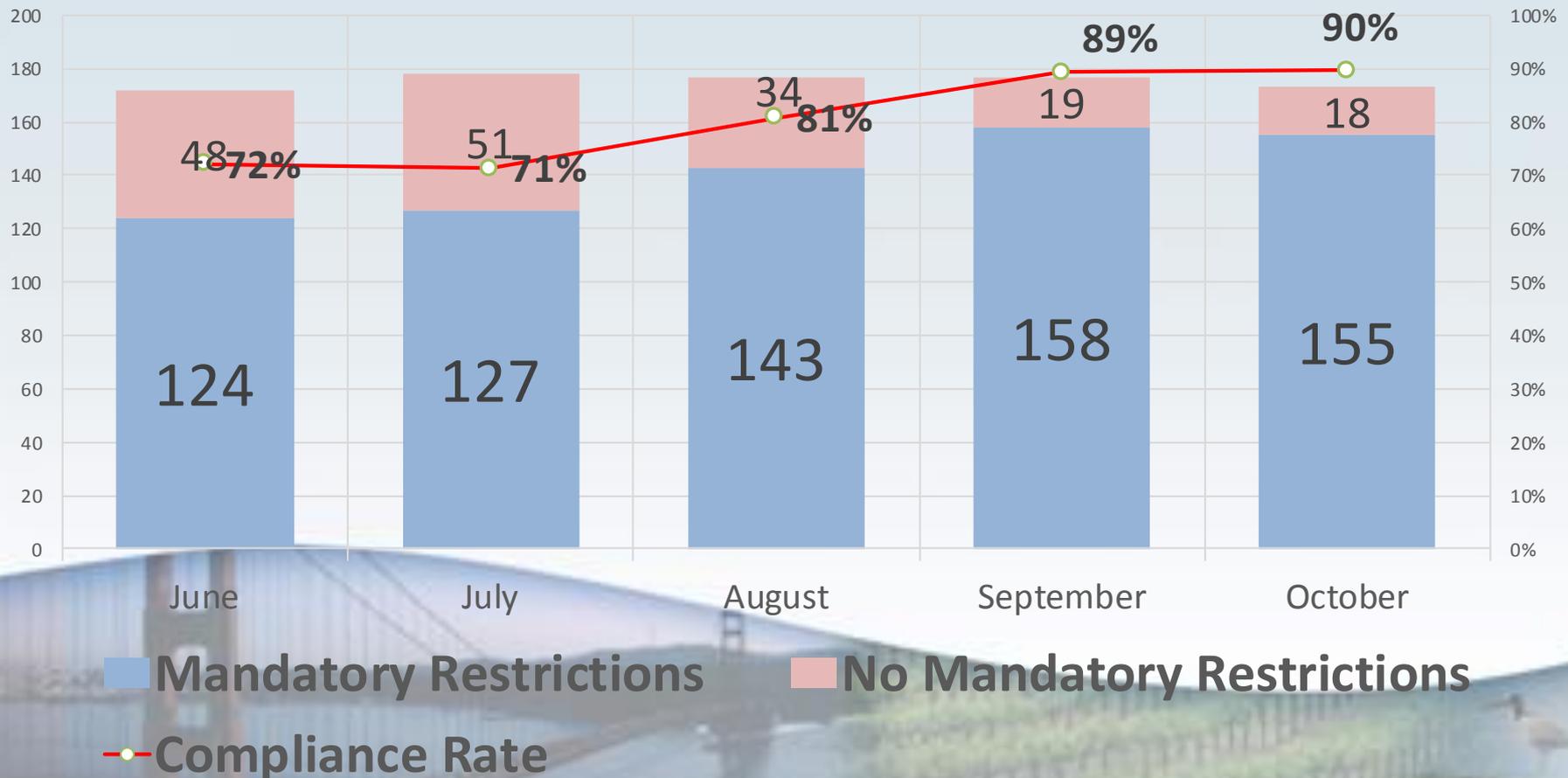
Water Suppliers Implementing Mandatory Restrictions



Mandatory Restrictions on Outdoor Water Use - South Coast

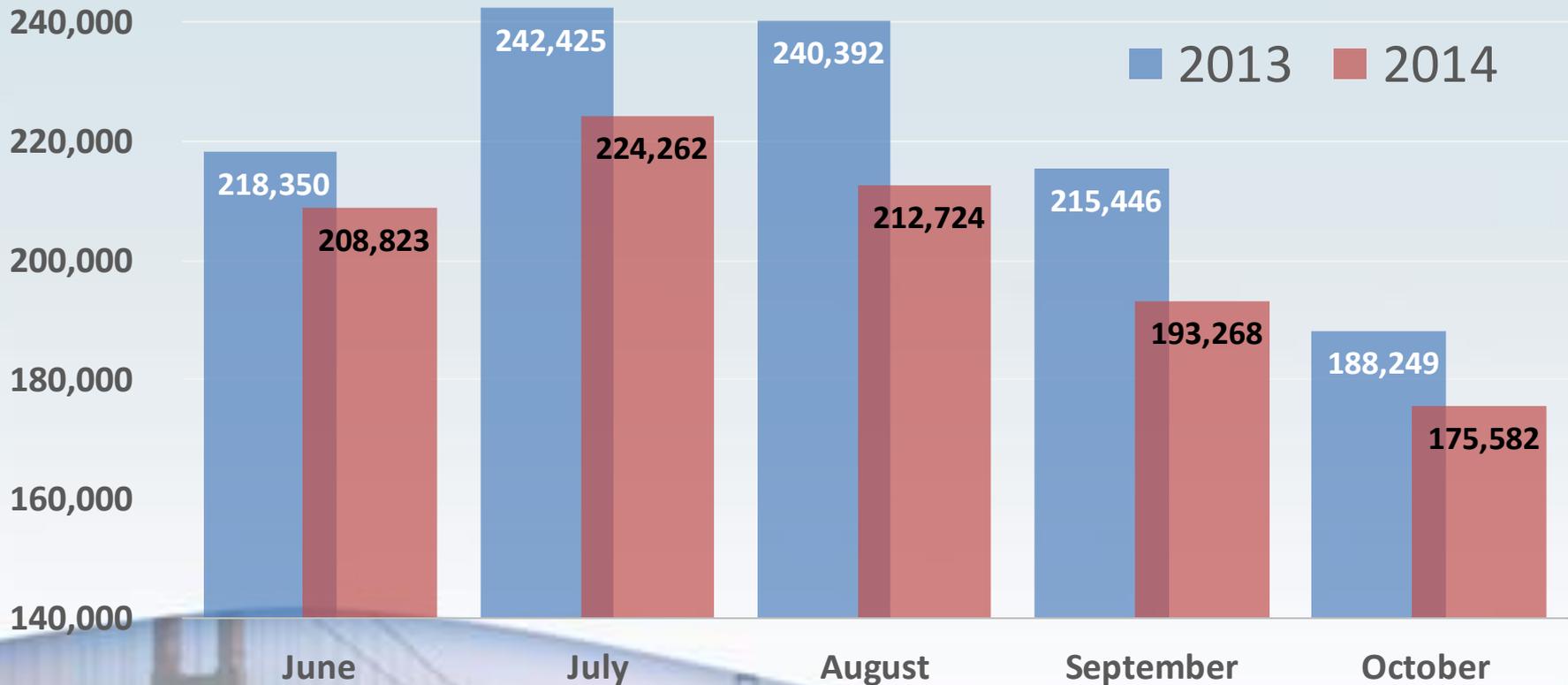
- 90% now implementing mandatory restrictions

South Coast Water Suppliers Implementing Mandatory Restrictions



Statewide Water Conservation Results

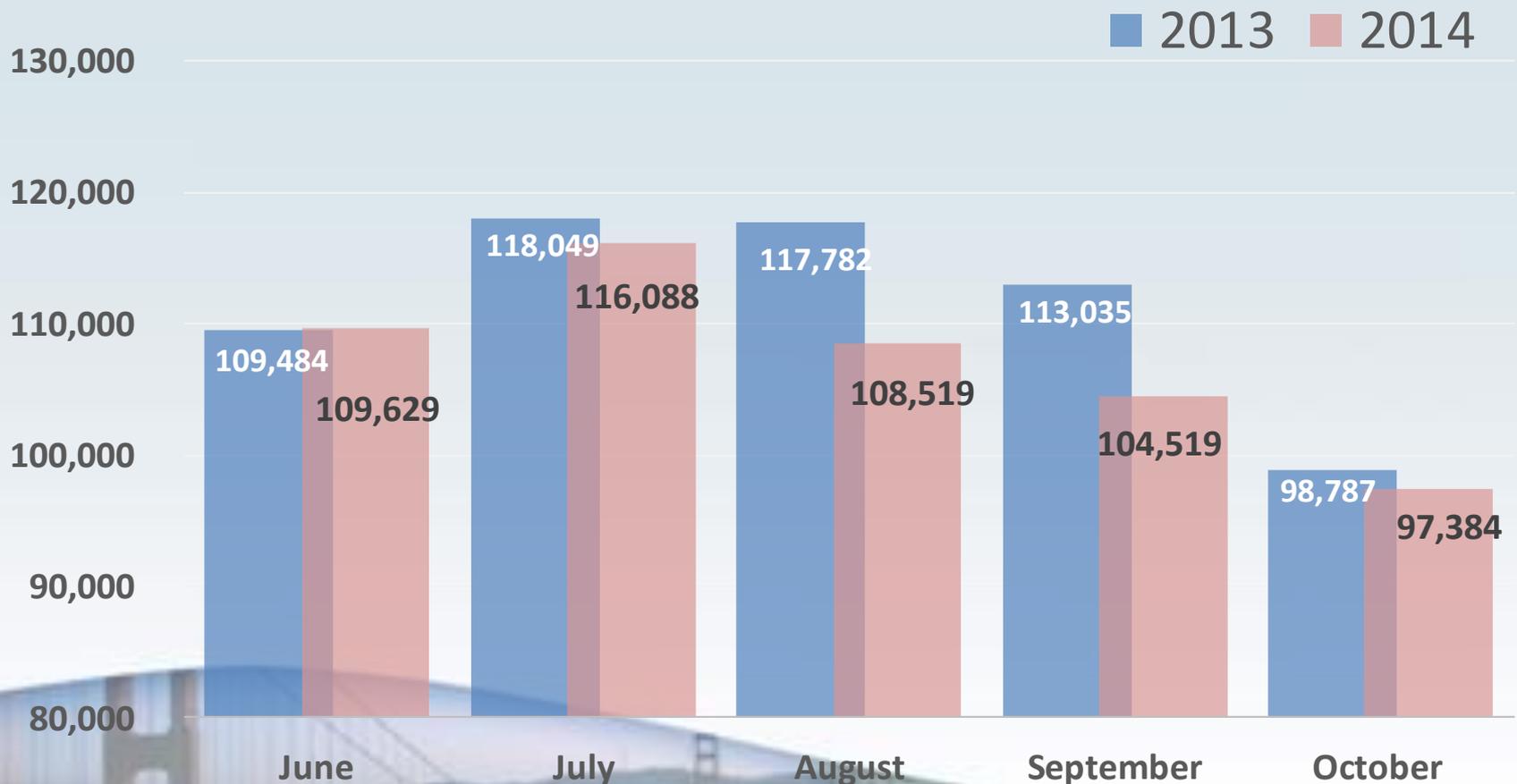
Water Production June-October (Million Gallons)



≈ 90 Billion Gallons Saved June – October

South Coast Water Conservation Results

South Coast
Water Production June-October (Million Gallons)



≈ 21 Billion Gallons Saved June – October

October Water Production by Hydrologic Region and Percentage Reduction (Million Gallons)



Production Oct 2013

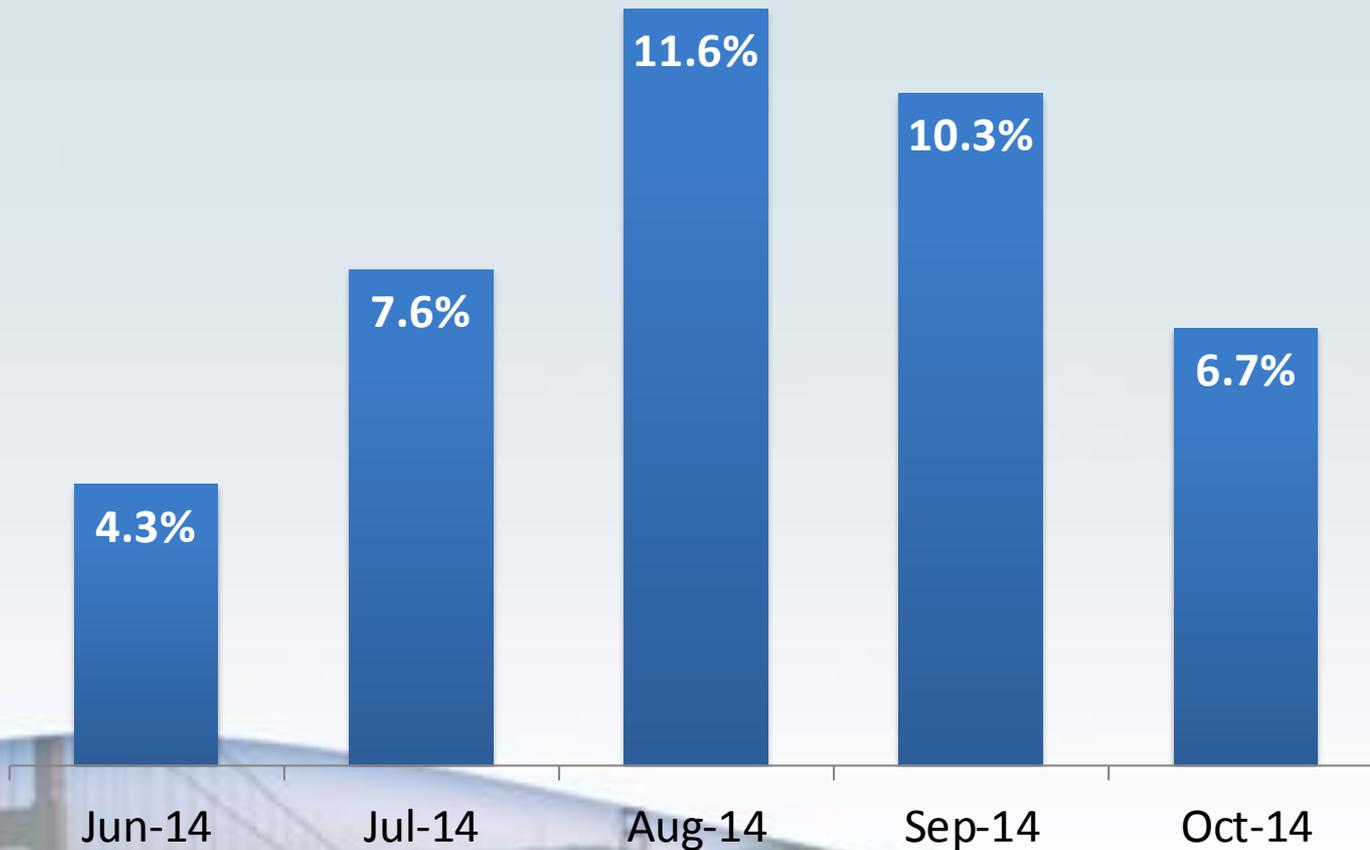
Production Oct 2014

Percentage Oct Reduction

State Average Oct Reduction 6.7%

Water Conservation Trend

Water Production Percentage Reduction
(compared to previous year)

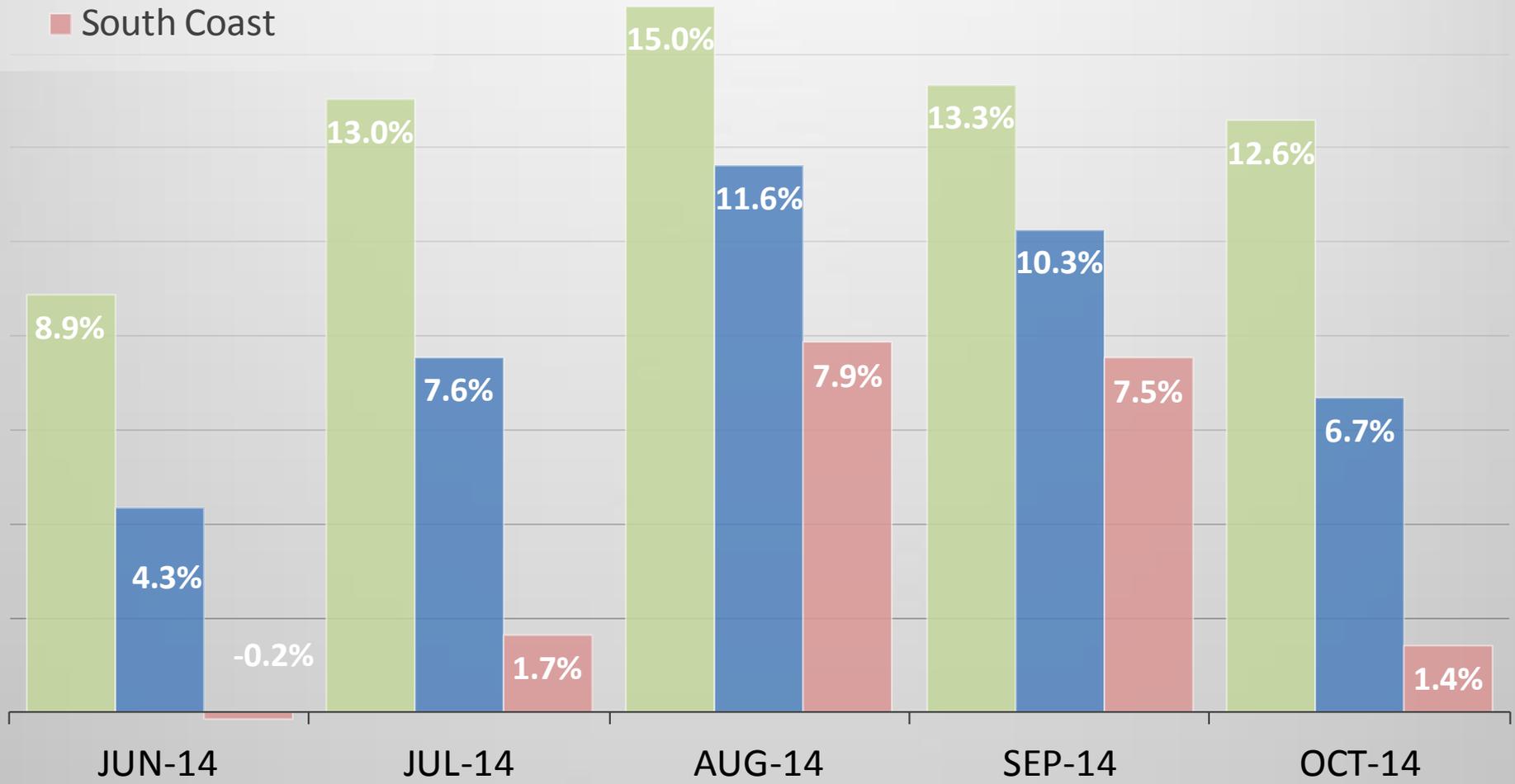


Water Production Percentage Reduction (compared to previous year)

All but South Coast

Statewide

South Coast



October 2014 Residential Gallons per Capita per Day

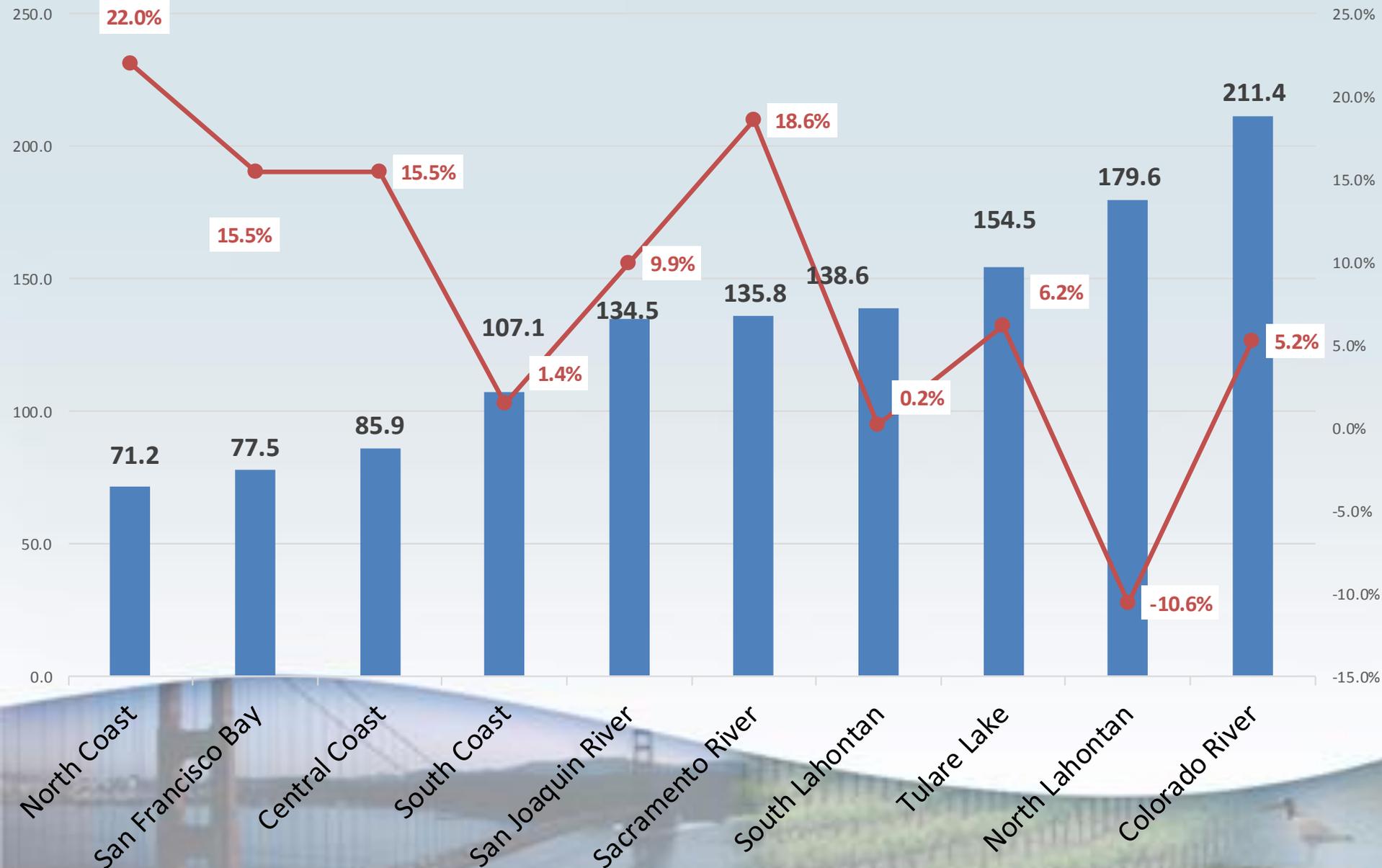
- Highest R-GPCD figures > 500
- Lowest R-GPCD figures < 50
- Average October 2014 R-GPCD = **109**, down from **117** last year
- 55 GPCD is the performance standard for **indoor** use



October 2014 Water Conservation Results R-GPCD

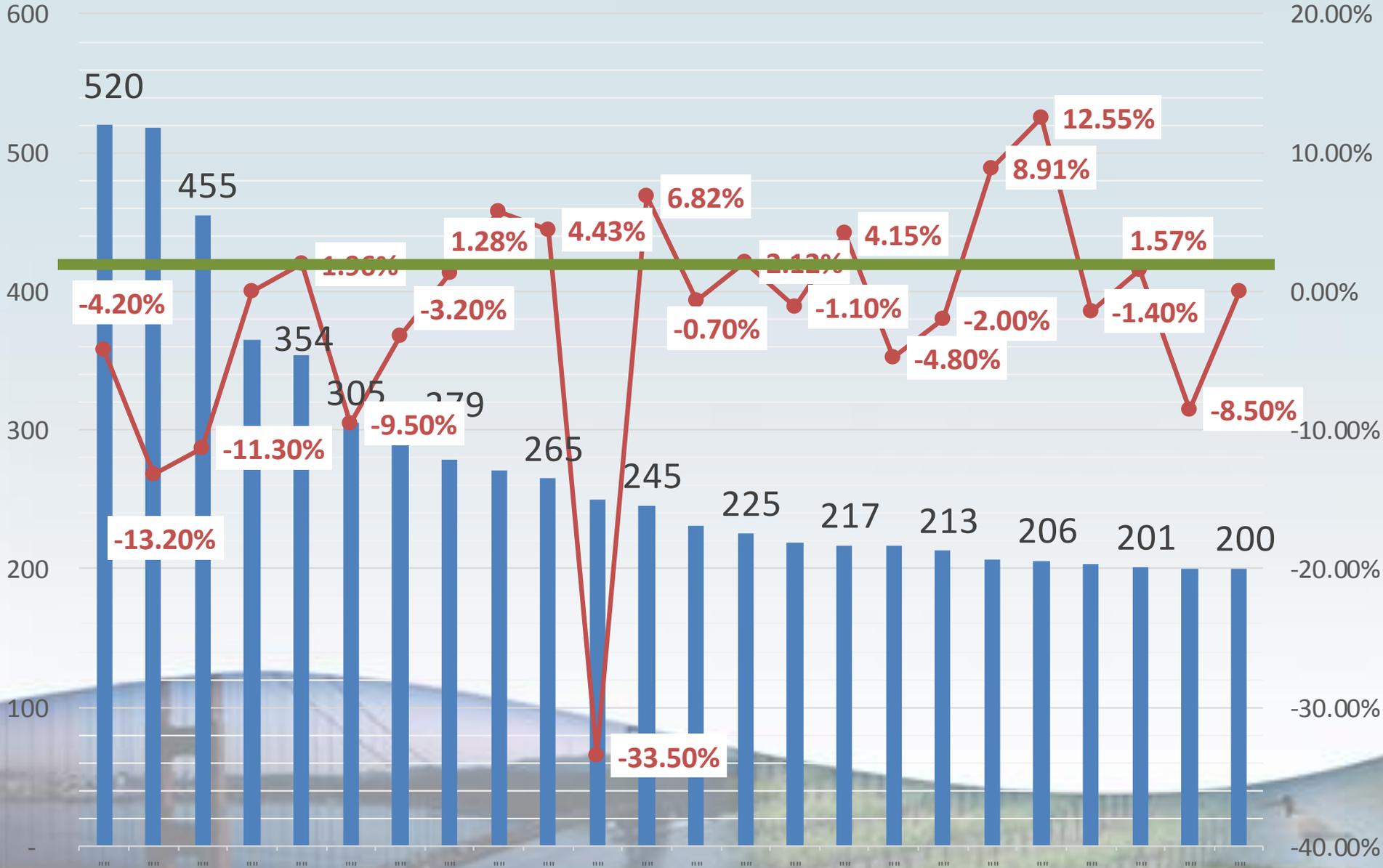
October 2014 Average R-GPCD

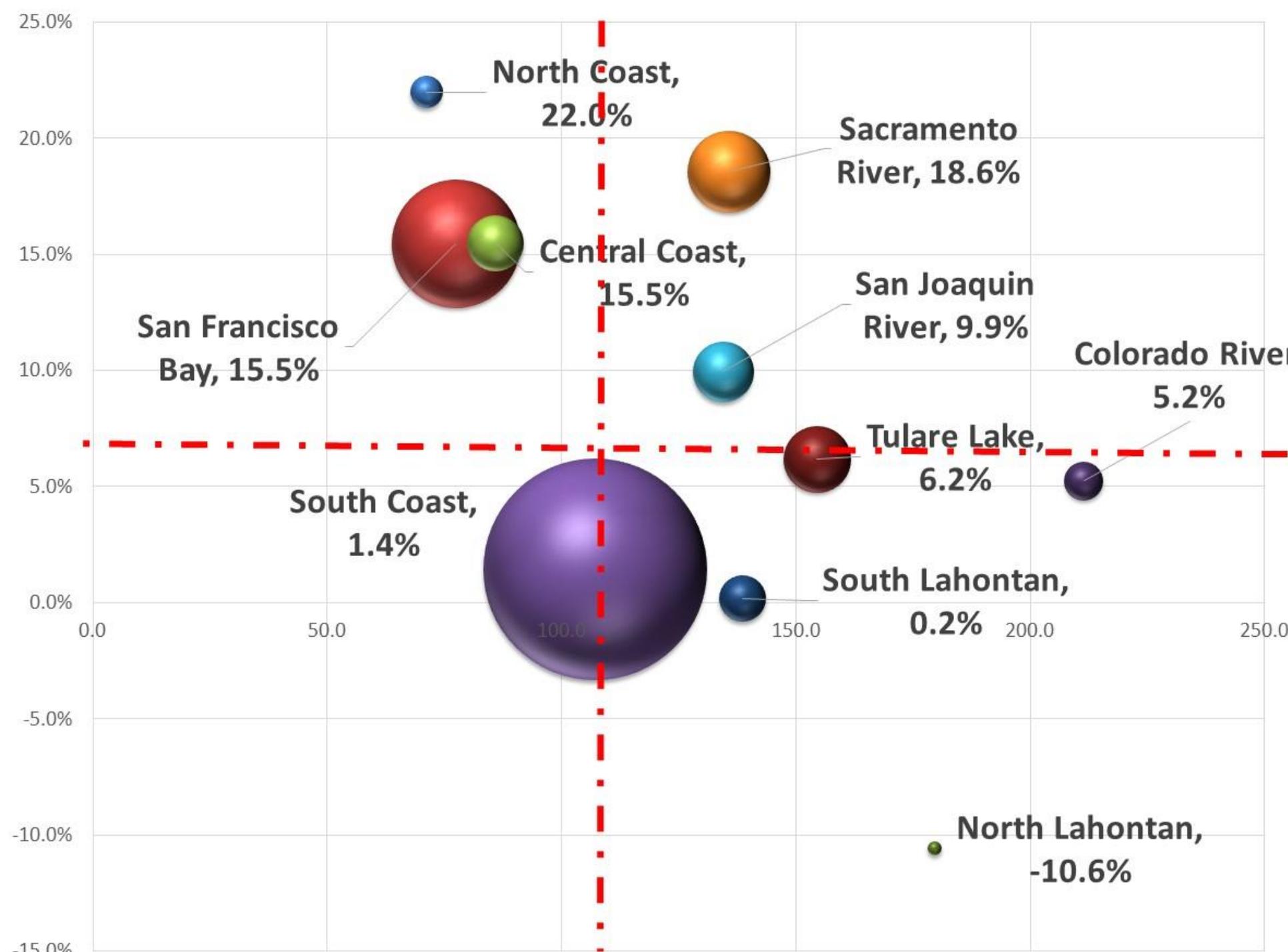
October 2014-2013 % Reduction

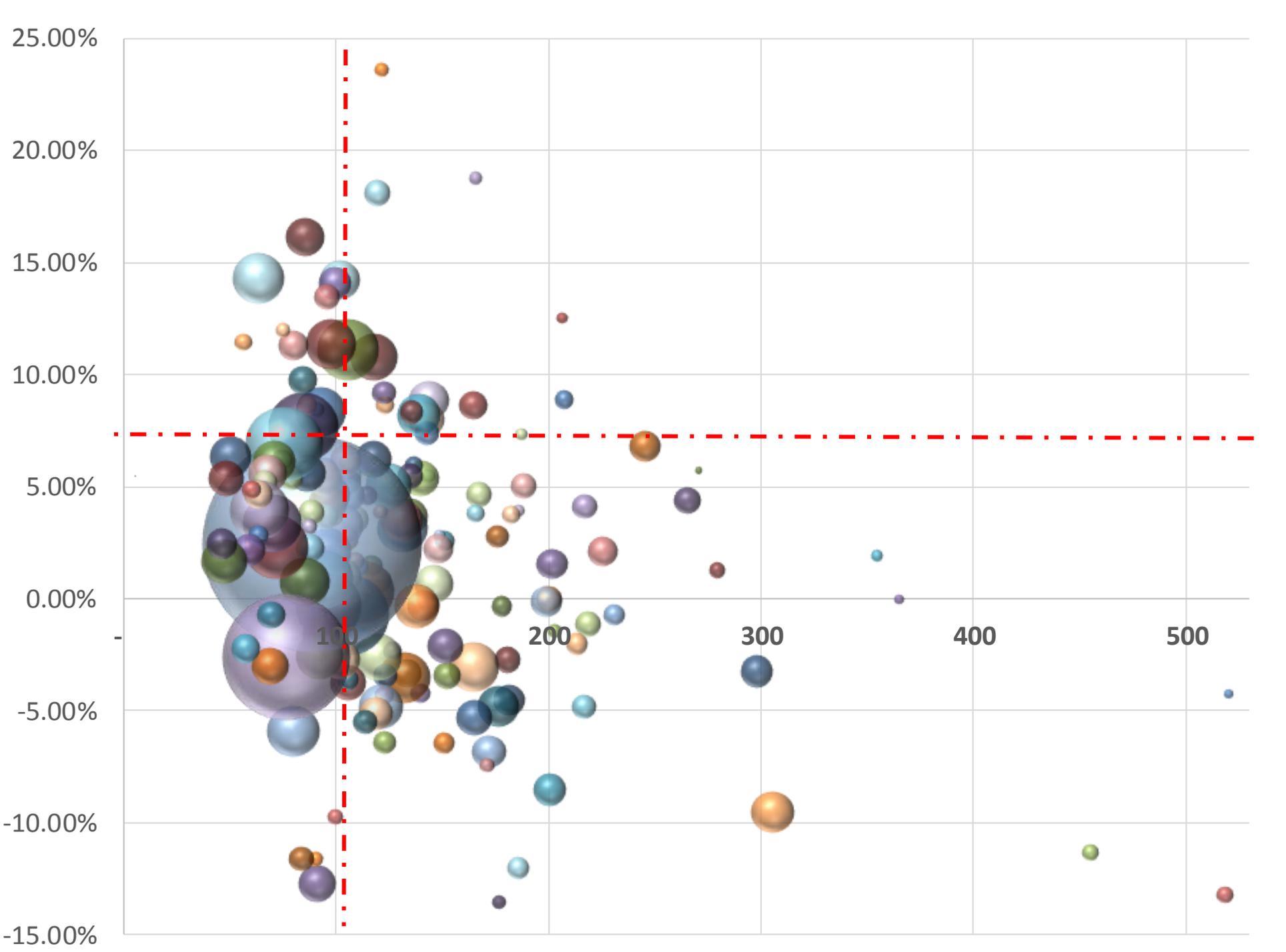


October 2014 Water Conservation Results

October GPCD October % Reduction







Workshop Questions

- 1. What more should be done at the local and/or State level in the near-term to increase water conservation?**
- 2. What additional conservation requirements, if any, should the State Water Board consider adopting if dry conditions persist into the new year?**
- 3. What can be done to compel poorer performing areas to increase conservation?**
- 4. What additional data should the State Water Board be collecting and how would it be used?**
- 5. Others/ Ideas for incentivizing permeant conservation enhancements**

