



Presentation to the Committee on the Environment

Governor's Executive Order - Mandatory Water Reduction and City's Actions

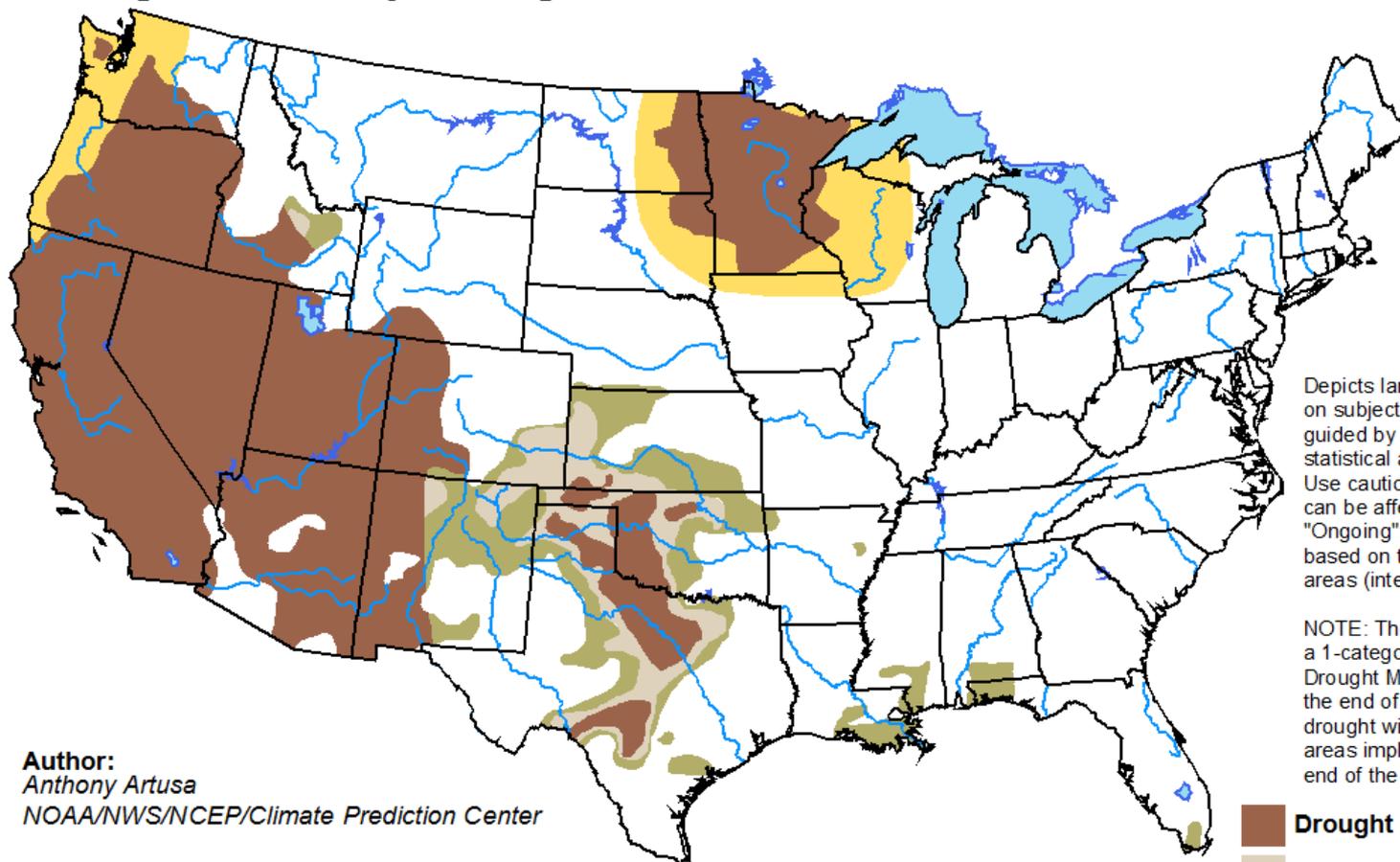
Halla Razak, Director
City of San Diego Public Utilities

April 10, 2015

U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

Valid for March 19 - June 30, 2015
Released March 19, 2015

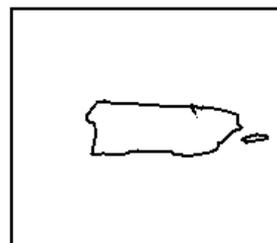
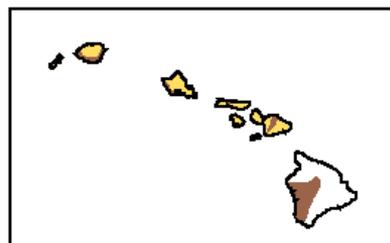
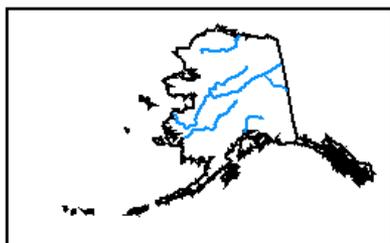


Author:
Anthony Artusa
NOAA/NWS/NCEP/Climate Prediction Center

Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

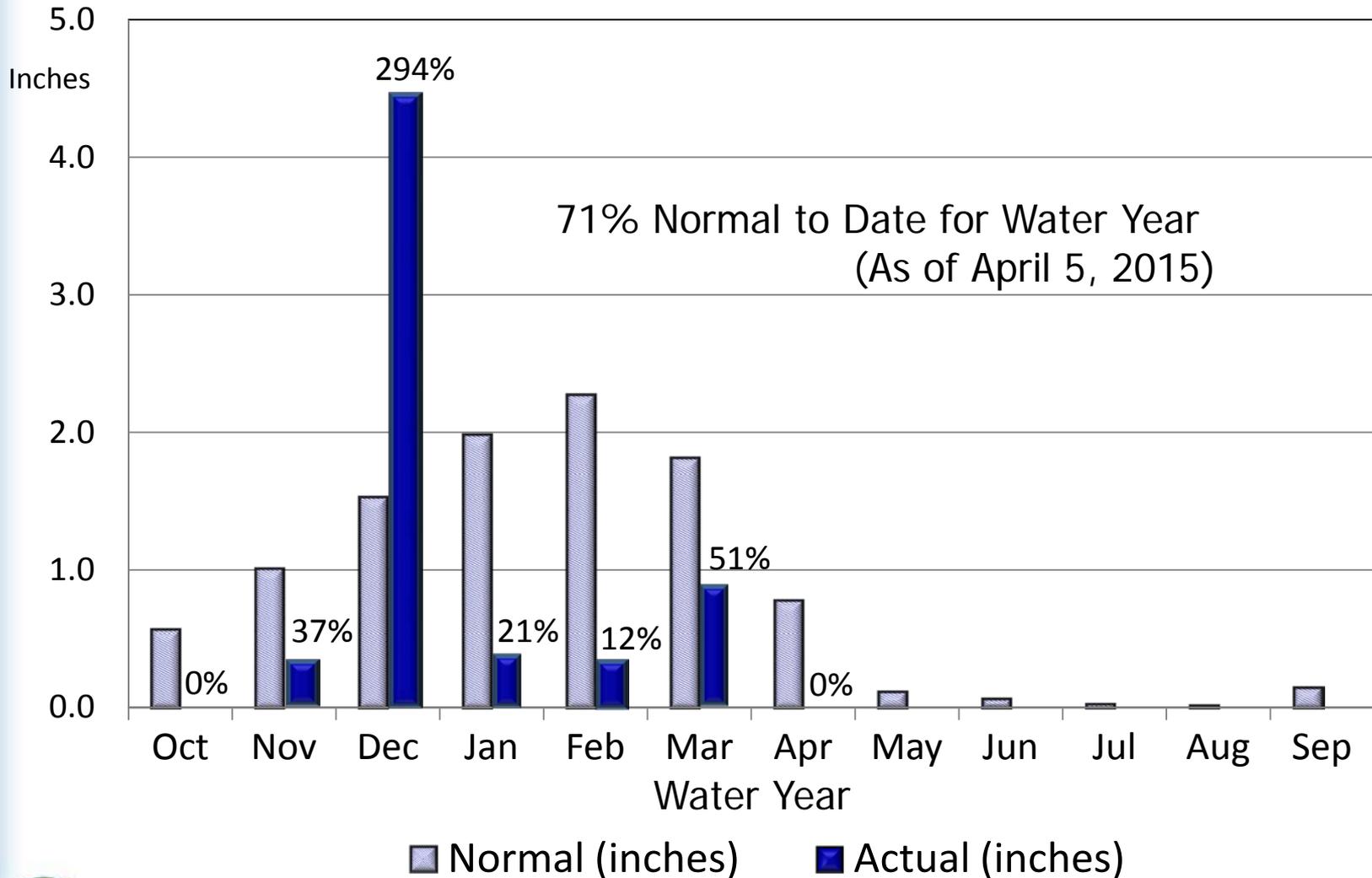
NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

-  Drought persists/intensifies
-  Drought remains but improves
-  Drought removal likely
-  Drought development likely

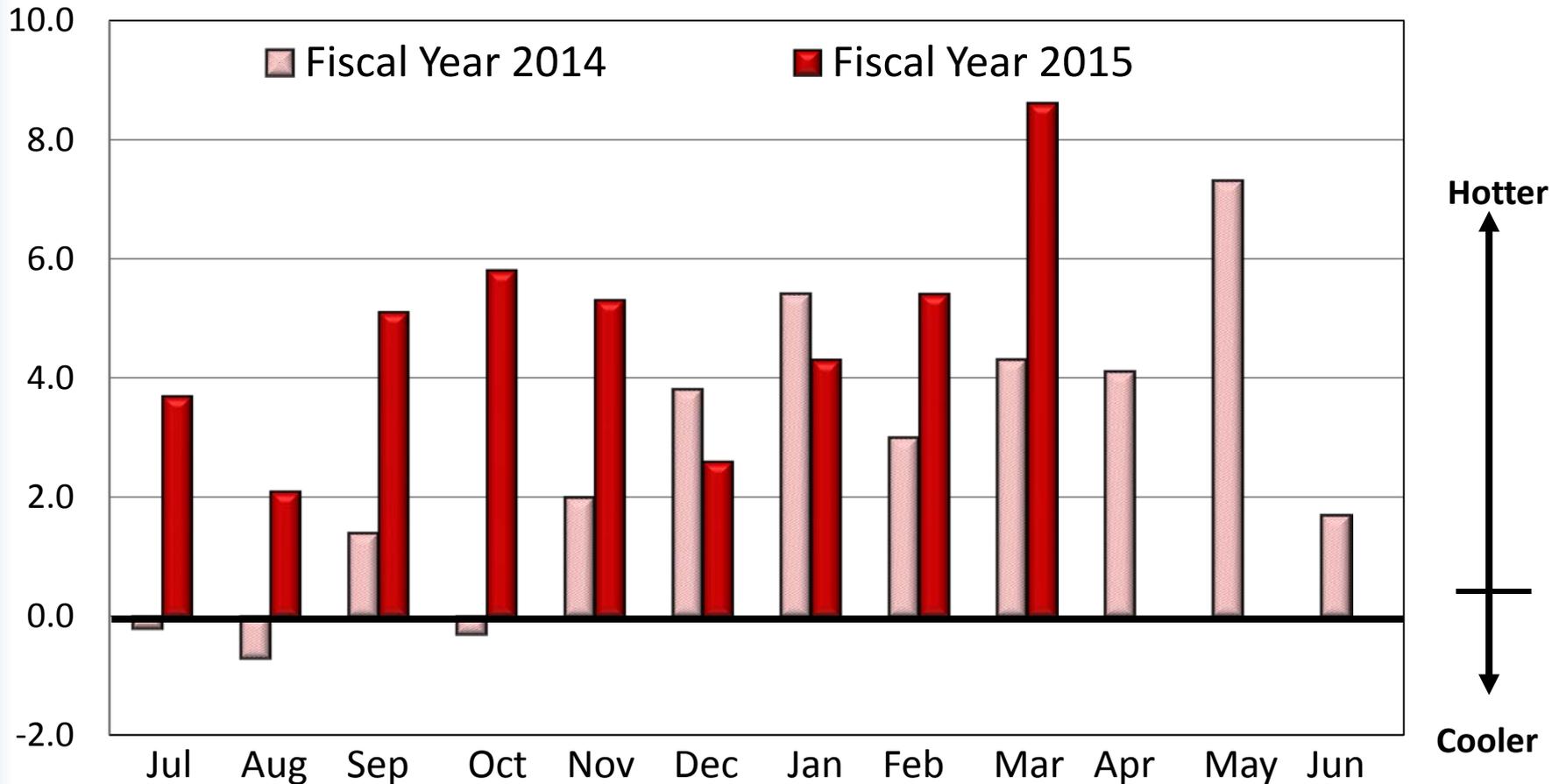


<http://go.usa.gov/hHTe>

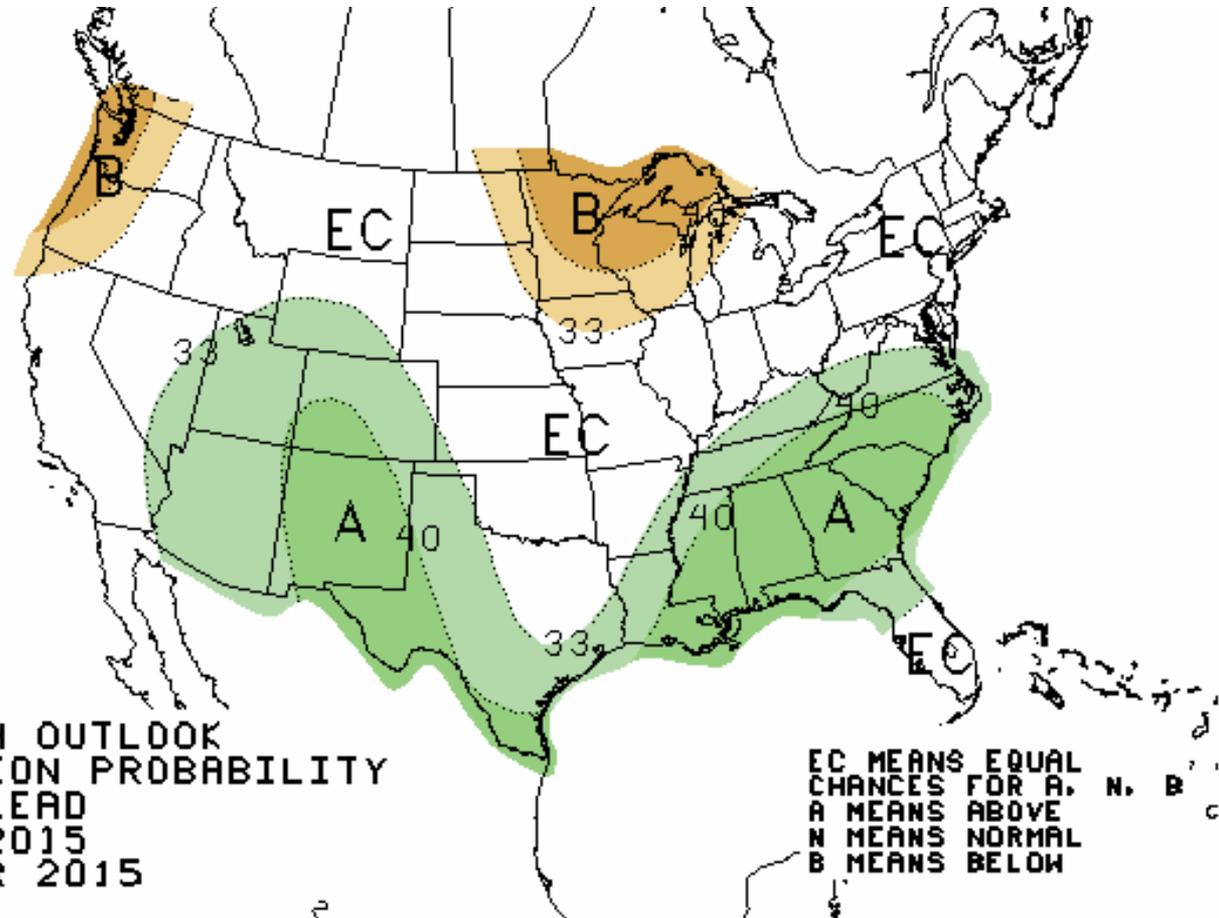
Actual vs. Normal Rainfall Lindbergh Field (inches)



Average Daily Maximum Temperature at Lindbergh Field – Departure from Normal (°F)

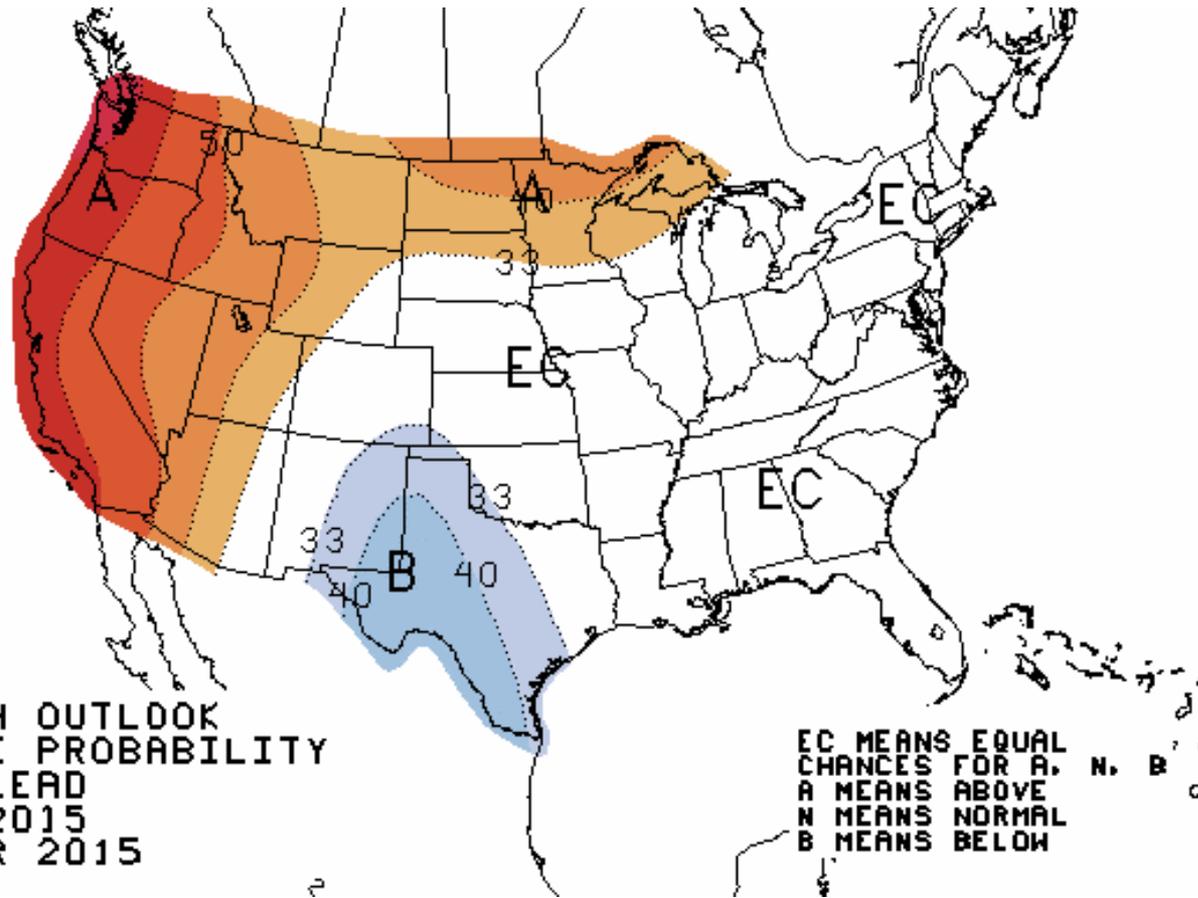


Precipitation Outlook (April to June)



**THREE-MONTH OUTLOOK
 PRECIPITATION PROBABILITY
 0.5 MONTH LEAD
 VALID AMJ 2015
 MADE 19 MAR 2015**

Temperature Outlook (April to June)



**THREE-MONTH OUTLOOK
 TEMPERATURE PROBABILITY
 0.5 MONTH LEAD
 VALID AMJ 2015
 MADE 19 MAR 2015**

**EC MEANS EQUAL
 CHANCES FOR A, N, B
 A MEANS ABOVE
 N MEANS NORMAL
 B MEANS BELOW**

2

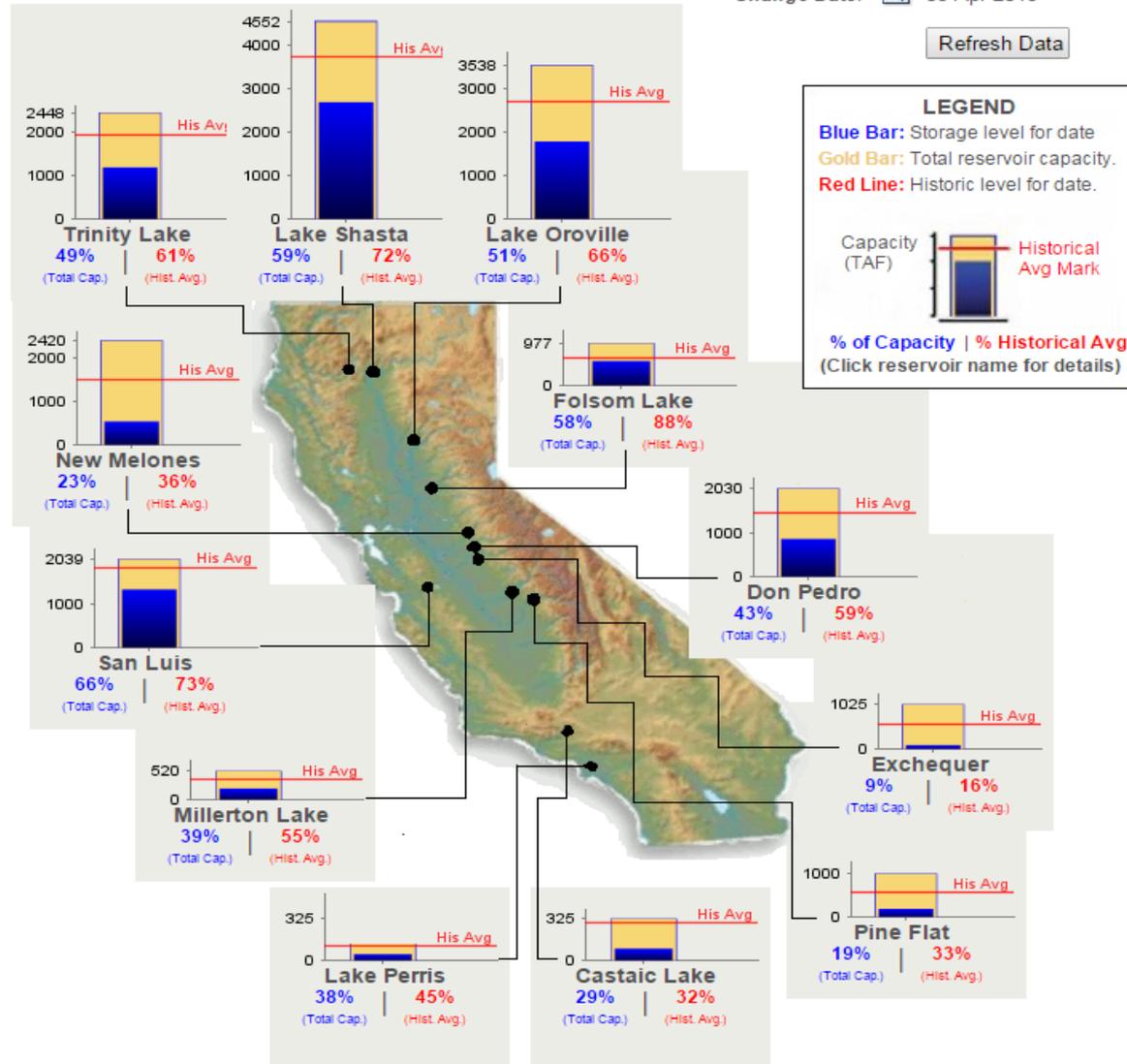
California Data Exchange Center - Reservoirs

CONDITIONS FOR MAJOR RESERVOIRS: 05-APR-2015

Data as of Midnight: 05-Apr-2015

Change Date: 05-Apr-2015

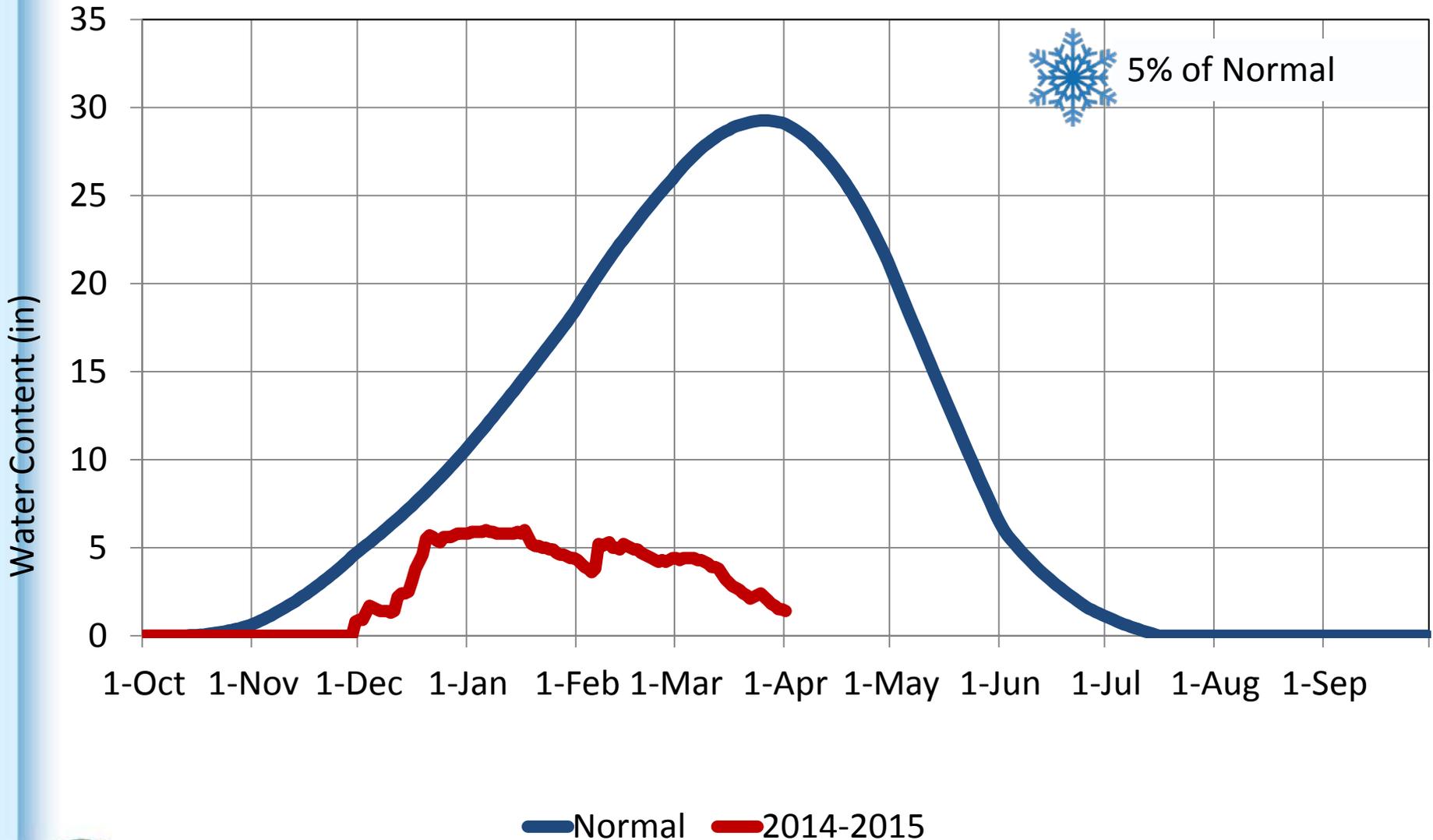
[Refresh Data](#)



[Click for printable version of current data.](#)

Report Generated: 06-Apr-2015 10:44 AM

Northern Sierra Snowpack (As of April 1, 2015)



Regional and Local Reservoirs

- Colorado River/MWD (red for April 2014)
- Lake Powell is 45% full (39%)
- Lake Mead is 41% full (45%)
- Diamond Lake is 49% full (70%)

- City of San Diego
- Local reservoirs on average 32% full (41%)

Water Restrictions Timeline from State

- Jan. 17, 2014 – Governor proclaims Drought State of Emergency with 20% voluntary conservation
- Since that time – 3 additional Executive Orders direction actions for water shortages
- April 1, 2015 – Governor’s Executive Order calling for 25% mandatory conservation

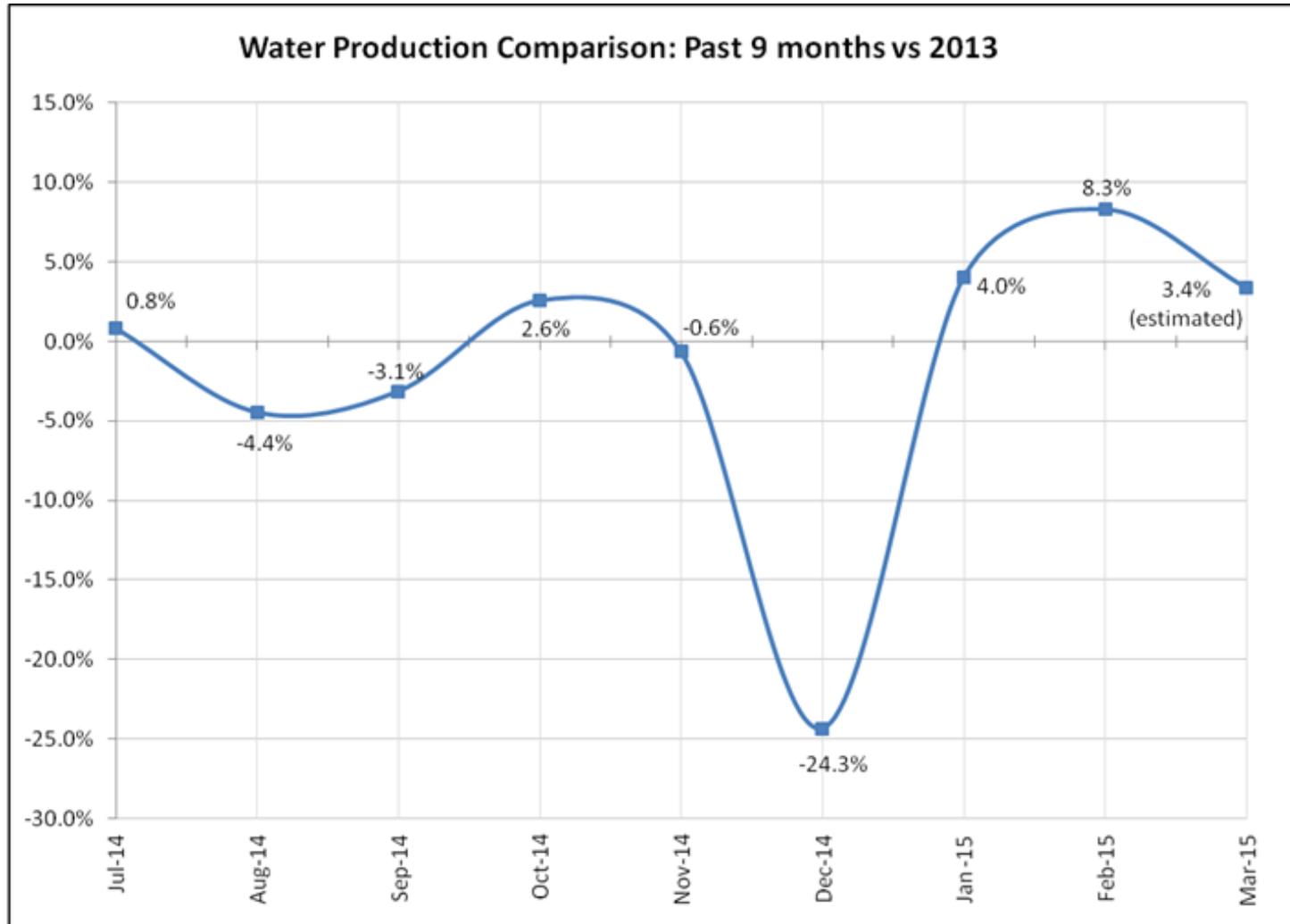
Water Restrictions in San Diego

- Ongoing: Permanent water use restrictions
- July 1, 2014: Drought Watch Level 1
 - Voluntary restrictions
- November 1, 2014: Drought Alert Level 2
 - Voluntary restrictions became permanent

Monthly Reporting to State Board

- Citywide water production and residential usage are reported on a monthly basis to the State Water Resources Control Board (SWRCB)
- Monthly usage is compared to usage in the same month in 2013

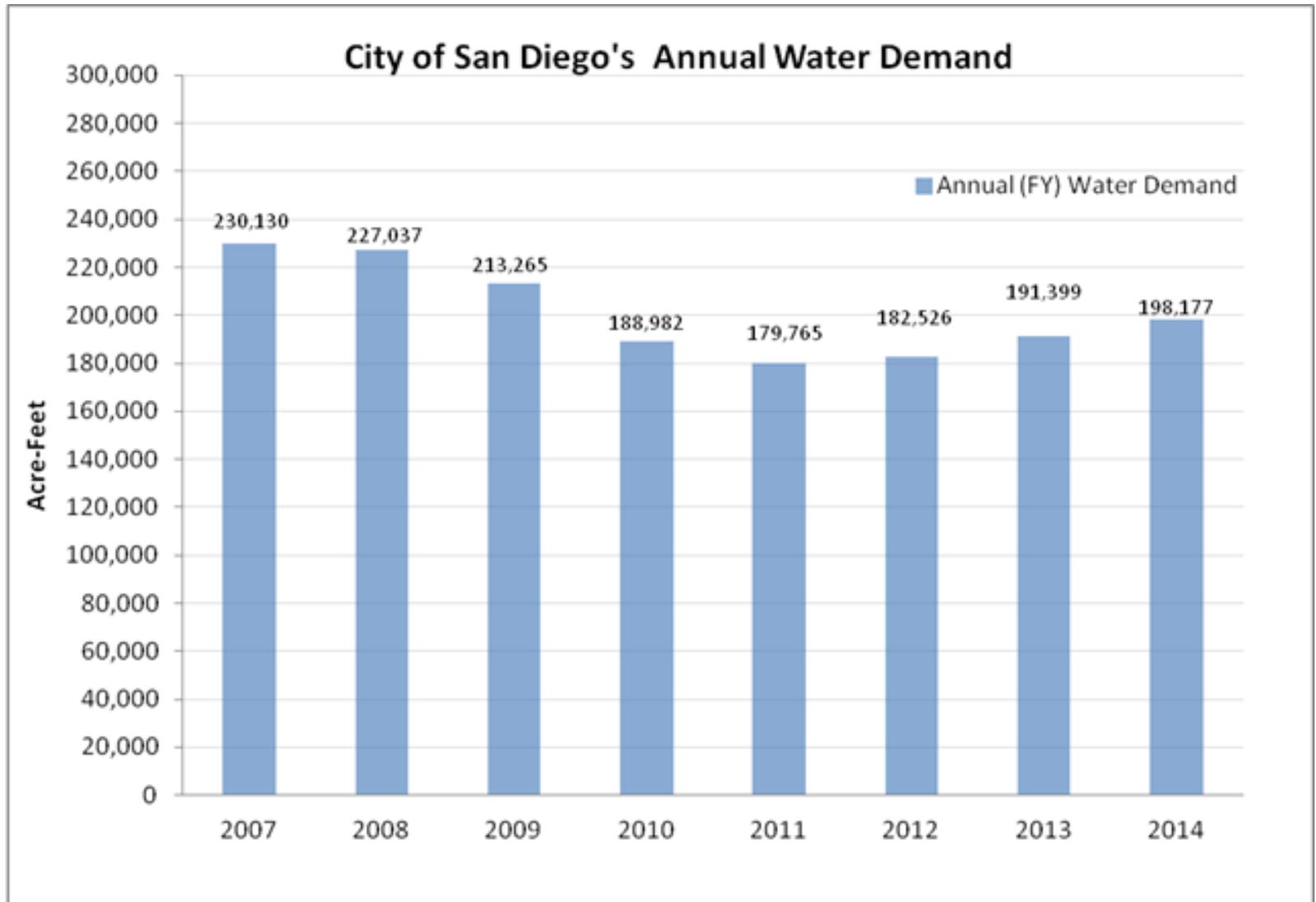
Water Use from July to March



Level 1 Restrictions
 Begin July 1st

Level 2 Restrictions
 Begin Nov. 1st

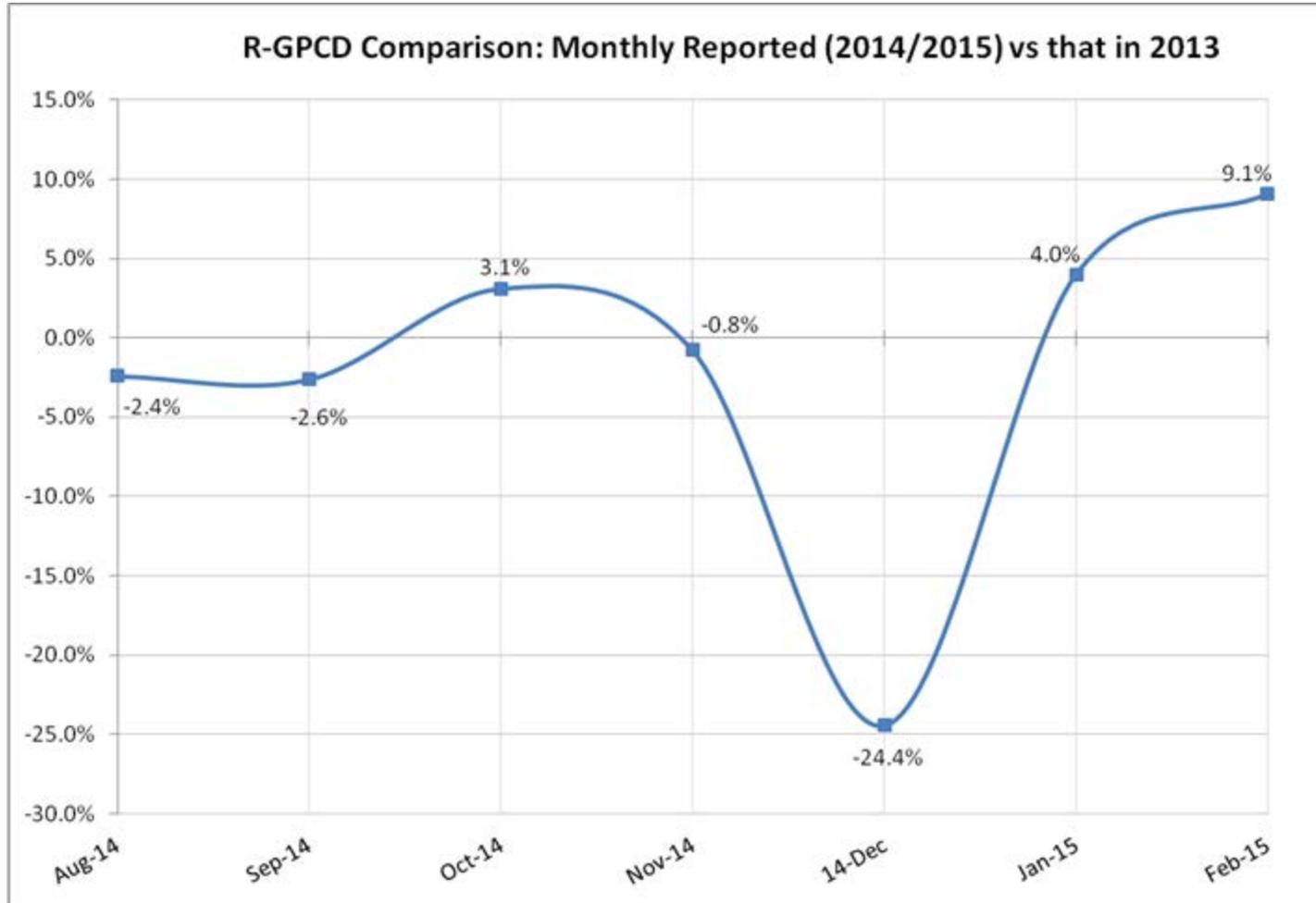
Water Use from 2007 to 2014



Residential GPCD (Gallons per Capita Per Day)

- New metric measured monthly by the State Water Board (Sept 2014)
- San Diego's R-GPCD ranges from 46 gl. to 82 gl.
- Comparative monthly 2014 R-GPCD (Sept.)
 - San Diego: 82
 - Los Angeles: 93
 - Sacramento: 129
 - San Jose: 95

Per Capita Water Usage



Executive Order Issued 4/1/15

- 25% Mandatory Water Reduction
- Prohibition for watering of turf in street medians
- Commercial, industrial and institutional water use reductions required
- Prohibition for irrigation for new development without drip or micro-spray systems
- Current monthly reporting now permanent
- Require water pricing to encourage conservation
- State to update Model Landscape Ordinance
- New State turf replacement and other Rebate programs

City's Response - Immediate Actions

- Expand Enforcement Efforts
 - Make immediate contact by phone, email or visit when complaint is received
 - Begin proactive enforcement with field reps
- Increase Turf Replacement Rebate Program
- Halt use of potable water to irrigate landscaped medians throughout the City
- Reviewing options to reduce outdoor irrigation at parks

Immediate Actions

- Intensify Outreach Efforts:
 - Enhance the Waste No Water campaign to promote specific water use reductions
 - Partner with Large Water Users & Industry Leaders for opportunities
 - Increase regional conservation messaging through San Diego County Water Authority
 - Consistent and continuous messaging to reduce usage region-wide

Immediate Actions

- Intensify Outreach Efforts (cont.):
 - Encourage customers to:
 - Dramatically reduce watering of lawns and gardens
 - Cut shower time to 3 minutes
 - Collect and reuse warm-up water
 - Wash only full loads of clothes and dishes
 - Include helpful tips in bills
 - Promote our Residential and Commercial Survey Programs

Immediate Actions – cont.

- Accelerate Pure Water Program
 - Include Pure Water Projects in the City’s CIP Streamlining
 - Expedite Project Design – Additional funding for “As Needed Consultant Contracts”
 - Encourage State action on regulatory framework

Long-term Actions

- Implement Advanced Metering Infrastructure (AMI)
 - Will provide customers with the tools to monitor water use in real-time and reduce water usage
 - Allows City to better target conservation measures and enforcement

Executive Order Schedule

- April 1st - Governor issues Executive Order
- April 7th - Release of draft regulatory framework
- April 17th - Release of draft regulations for informal public comment
- April 28th - Emergency rulemaking formal notice
- May 5th or 6th - Board hearing and adoption



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Questions