



# Water Conservation

FY13 Wrap-up and future planning

Resource Management Commission  
February 18, 2014

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Water Conservation Division Manager

# FY13 Highlights

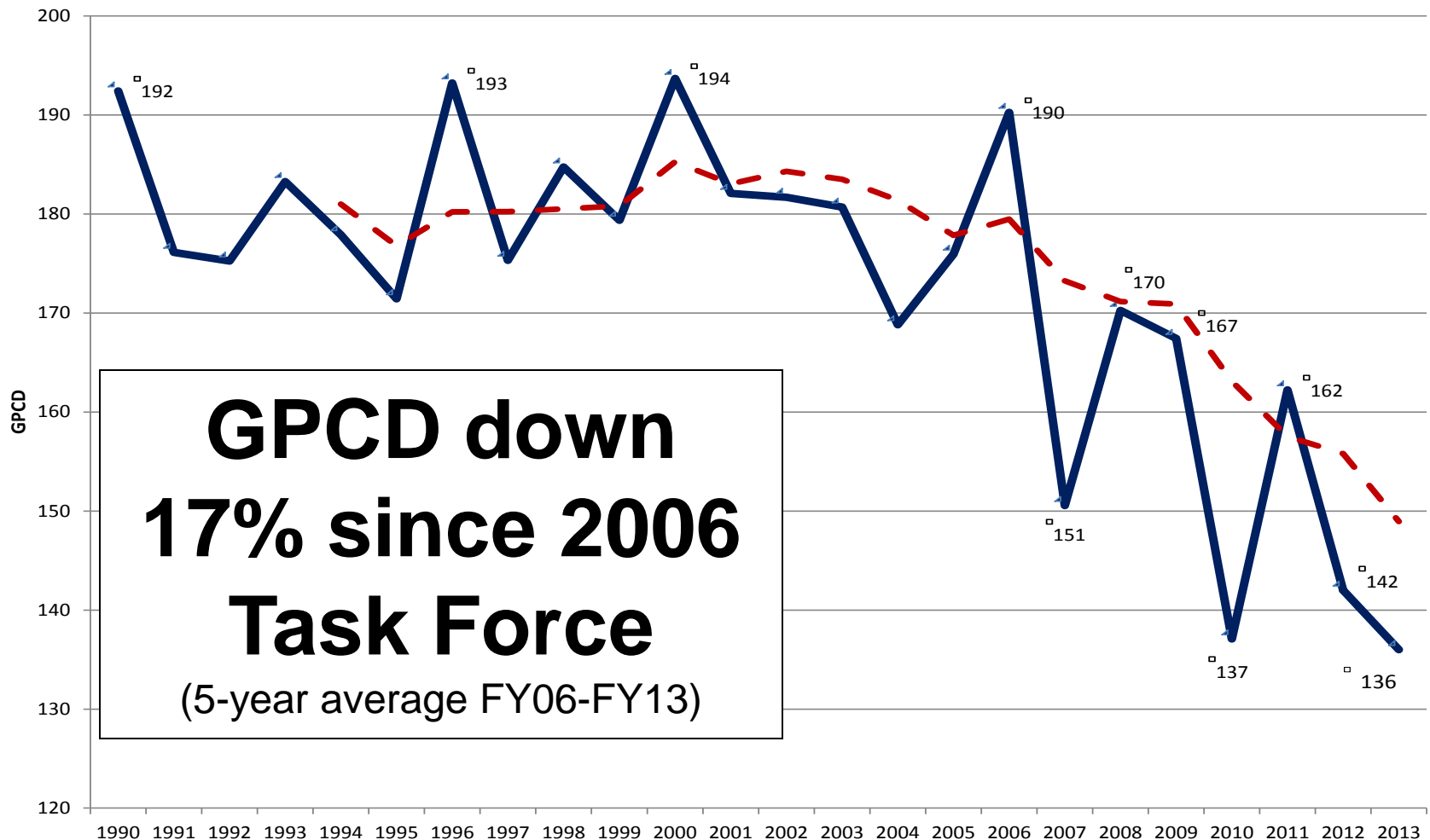
- Exceeded strategic conservation goals
- Managed 4<sup>th</sup> consecutive year of severe drought
- Participated in regional efforts to protect firm water supplies
- Implemented recent code changes
- Expanded auxiliary water options

# Consolidated Program Goals

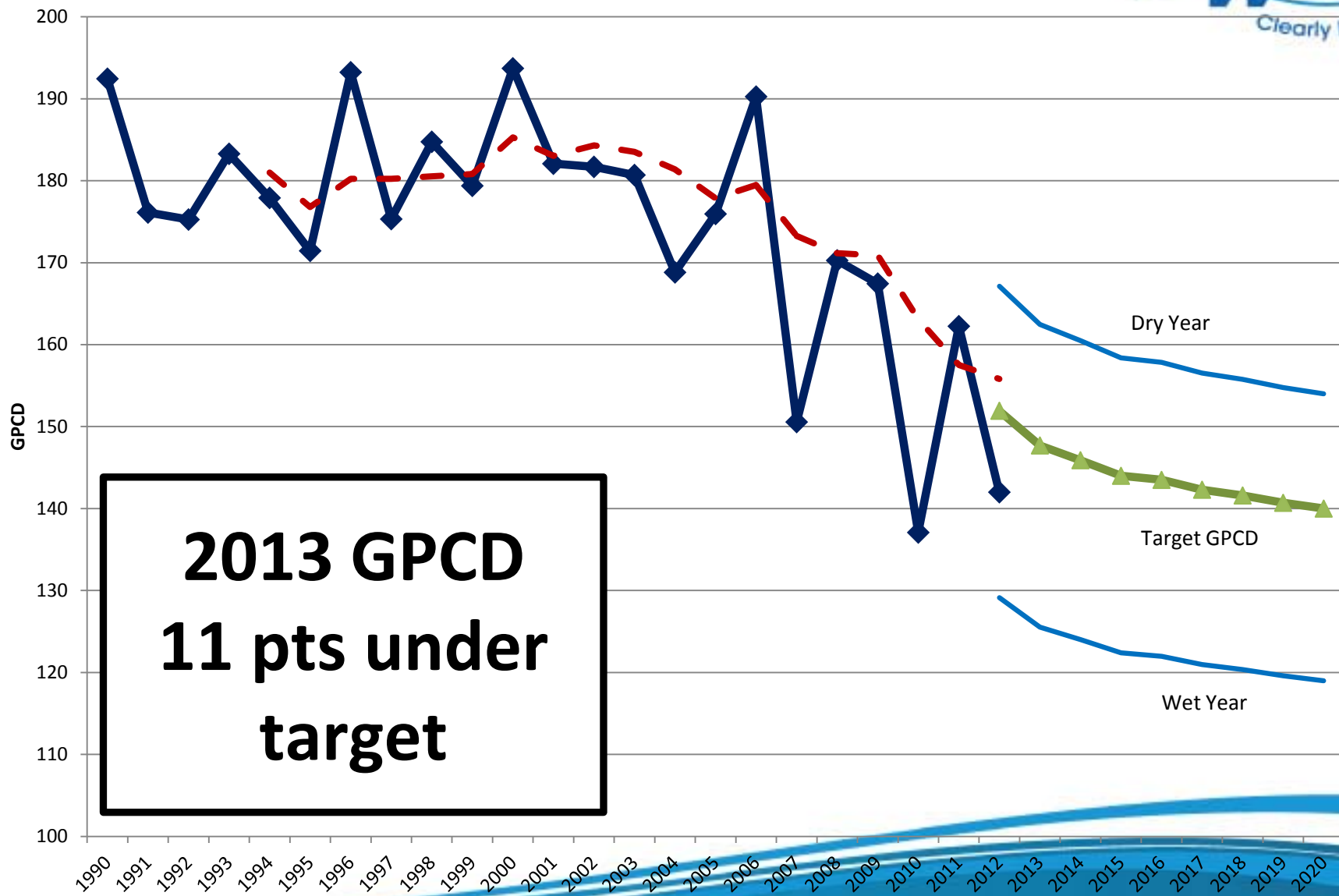
- Various goals and recommendations from city council resolutions and conservation task forces
- Collaborated with RMC on three strategic goals:
  - Reduce average consumption to 140 GPCD by 2020
  - Reduce peaking factor to 1.5 by 2035
  - Delay raw water payment trigger as long as possible
- Captures three areas of conservation benefit – pumpage & treatment, future capacity, raw water supplies

# GPCD from 1990 to 2013

Austin Conservation History - GPCD Progress by Fiscal Year

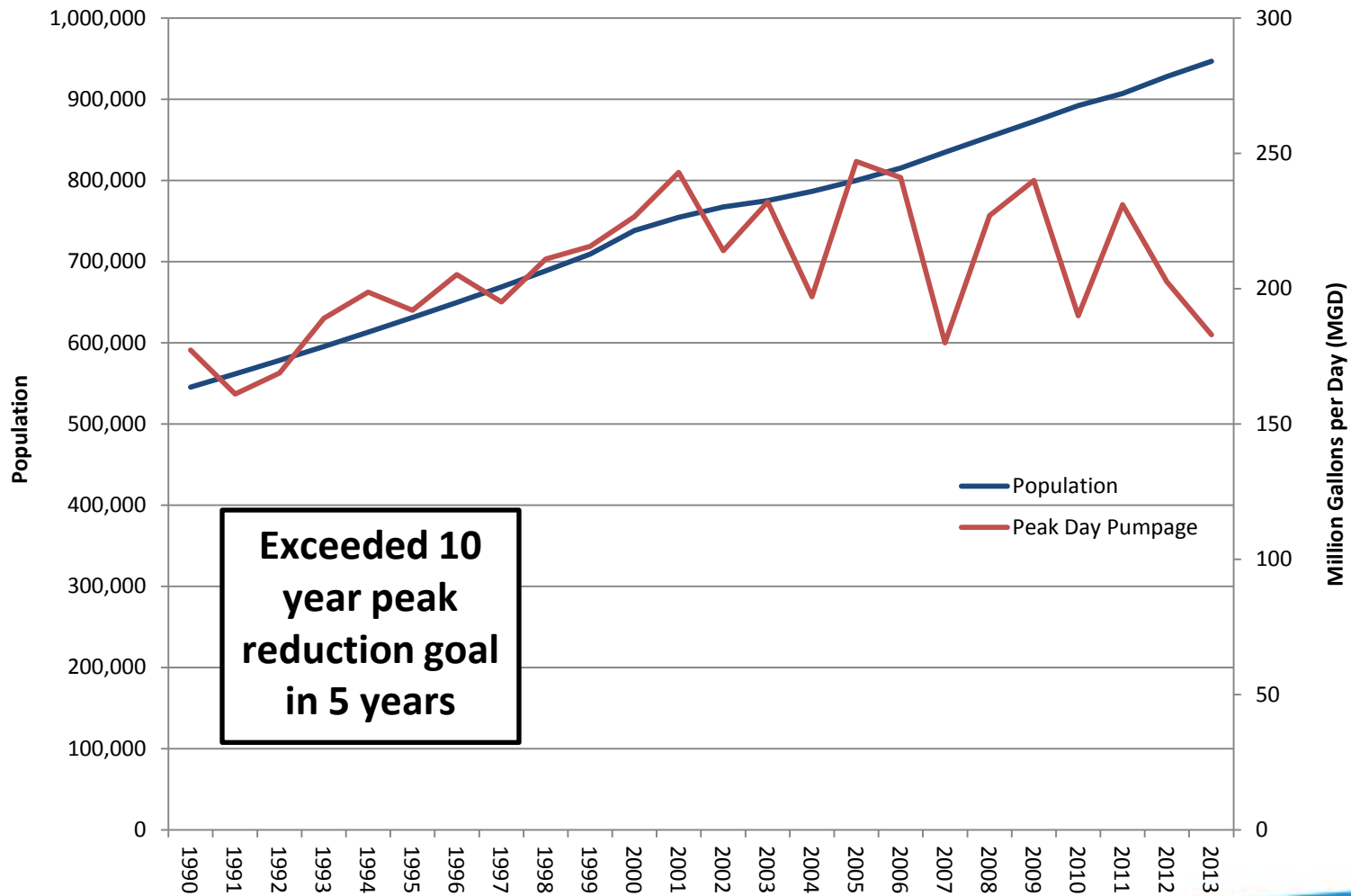


## Conservation History and Expected GPCD Progress



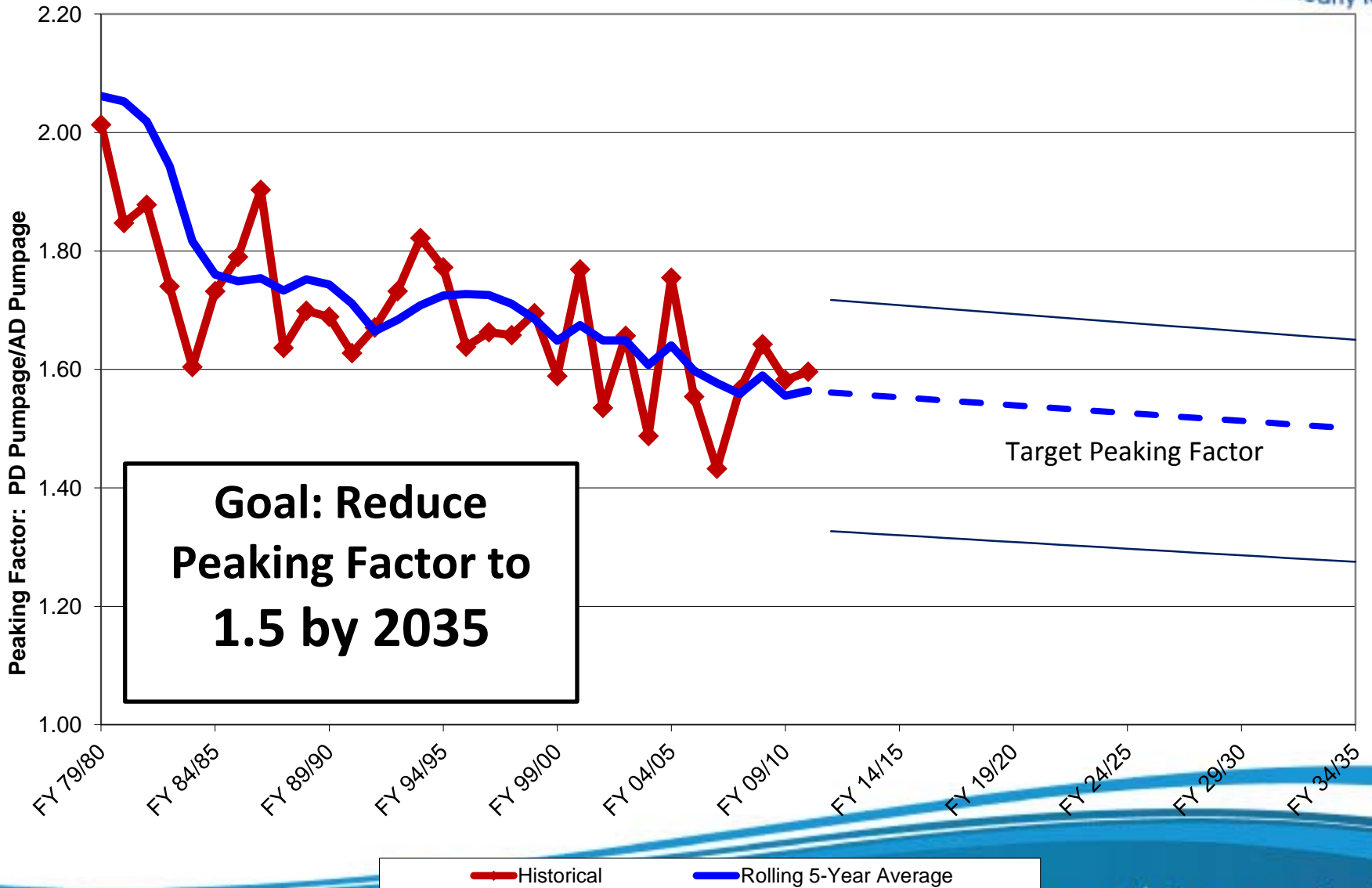
**2013 GPCD  
11 pts under  
target**

## Peak Day Pumpage vs. Population





# Peaking Factor Goal



# Managed severe drought

- Stage 2 restrictions effective for all of FY13
- Processed highest annual 311 calls
- Increased patrol hours over FY2012
- Prepared for potential pro rata curtailment
- Strong advocacy for protection of stored water
- Visible Stage 2 awareness campaign





# Conservation Outreach



- Events/Booths: 6,654
- Public Presentations: 4,005
- School Presentations: 20,510 students

# Water Use Compliance

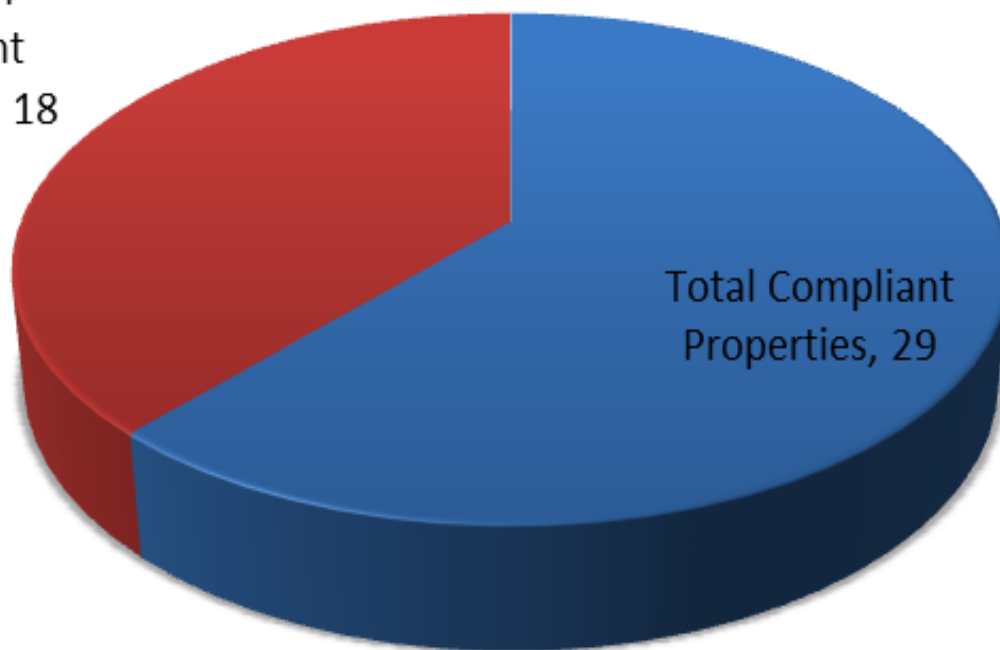
- 5355 “311” Calls
- 3303 Courtesy Letters/Postcards
- 2884 Official Warnings/NOVs
- 496 Citations Issued
  - 234 Residential Citations
  - 194 Commercial
  - 68 MF
- Administrative Hearing Process



# Car wash inspection results

## Zone 1 Car Wash Breakdown

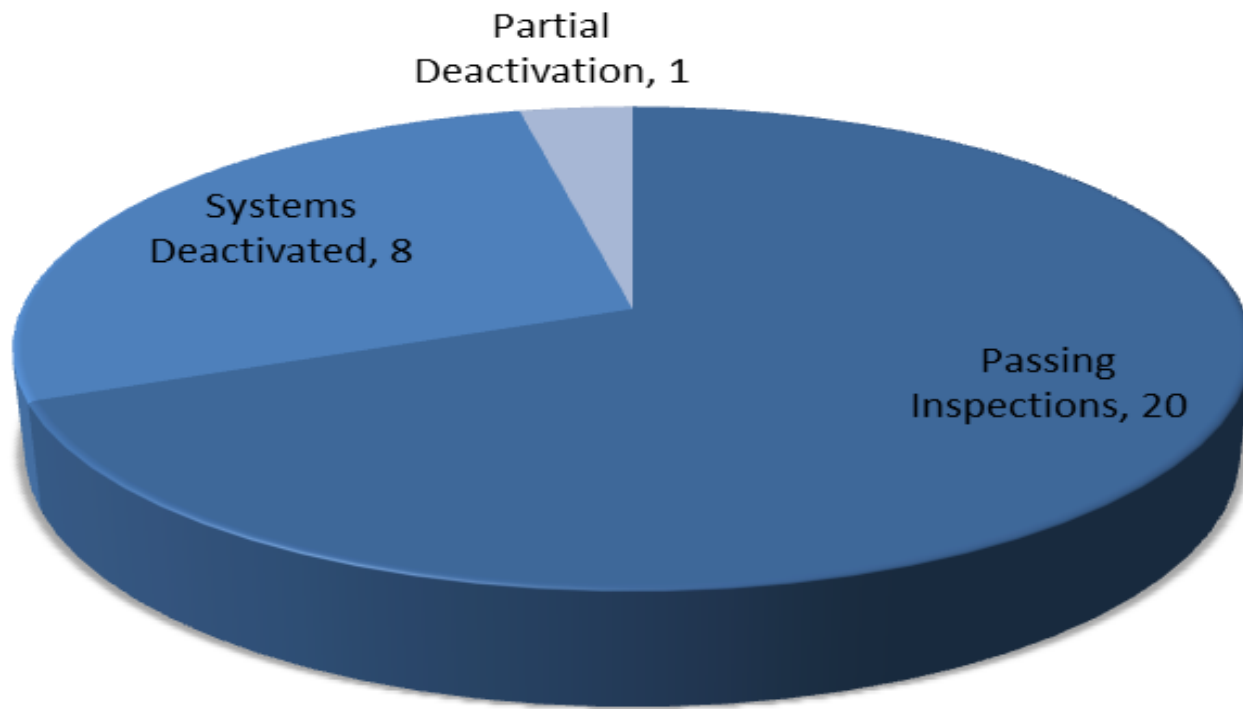
Total Non-Compliant Properties, 18



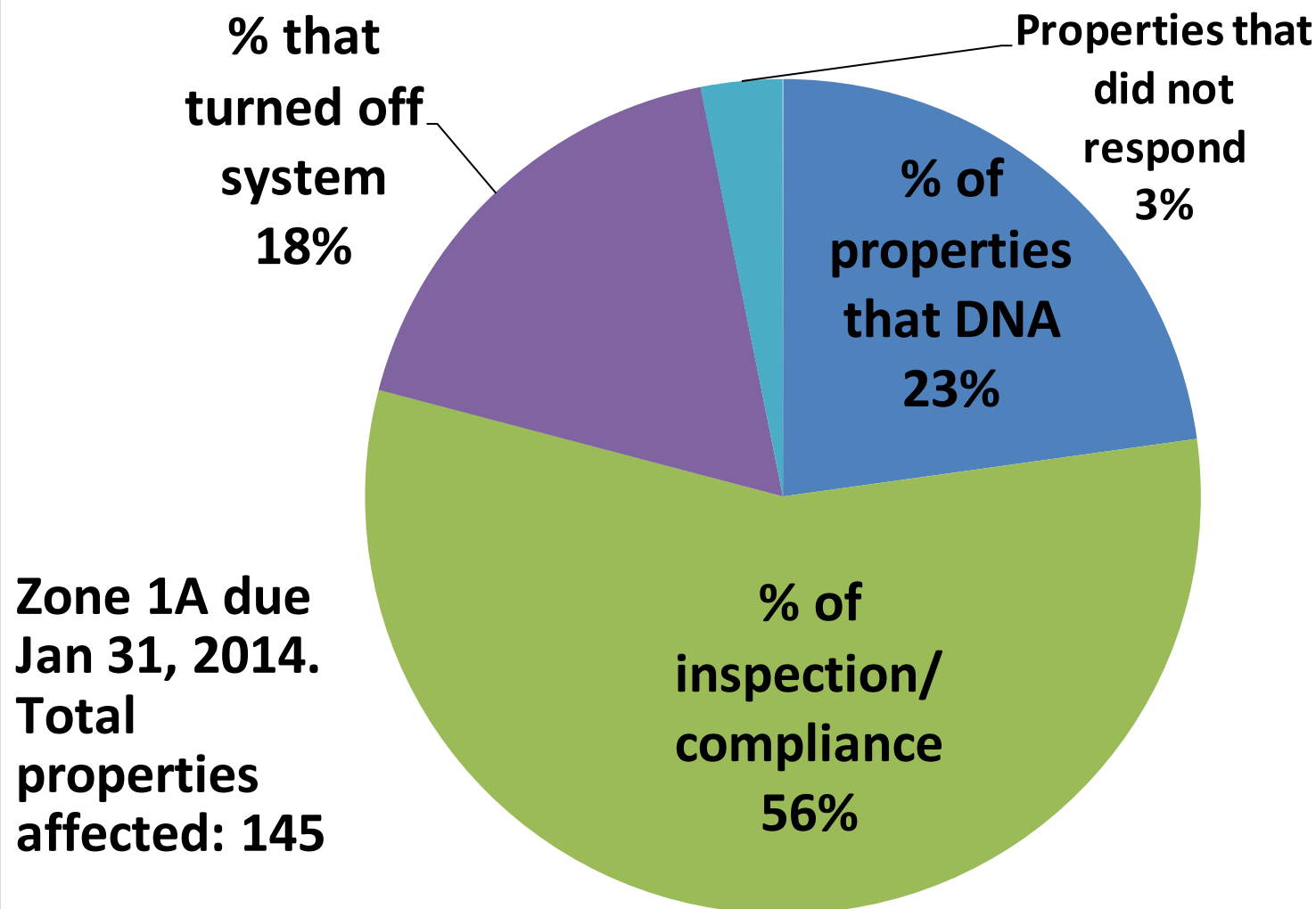
Total Compliant Properties, 29

# Car wash compliance

## Compliant Categories

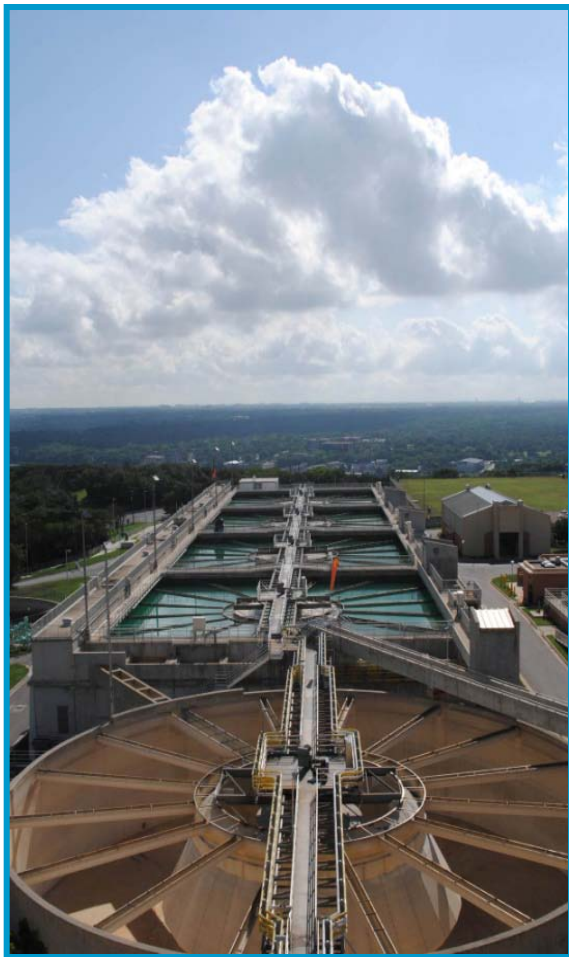


# Mandatory irrigation inspections





# Annual Reclaimed Water Use



- FY13: 1.47 BG (4.04% of total wastewater treated; 59 customers)
- FY12: 1.52 BG (4.34% of total wastewater treated; 43 customers)
- FY11: 1.45 BG (4.65% of total wastewater treated; 40 customers)
- FY10: 1.09 BG (3.01% of total wastewater treated during wet year with very low demand; 36 customers)



# FY13 Reclaimed Projects

- Under construction:
  - Walnut Tank Assembly & Repair
  - 2<sup>nd</sup> Street/Central Library Main
  - BAE Systems Main (completed in FY13)
  - Smith Road Ext. (contract awarded)
- Under design:
  - Montopolis Tank
  - FM 973
  - Capitol Complex Main
  - Main to Junction 420 (downtown)
- Cooling Tower Pilot Project in Progress



# Expanded ICI programs

- ICI Audit Rebate Pilot and July 17 Workshop
- 1<sup>st</sup> Annual ICI Conservation Workshop September 25
- Summer and Fall Commercial e-newsletters published
- AISD Conservation Partnership launched
  - Data loggers on 4 high schools
  - Initial round of planned audits for 7 schools

# FY13 Lessons, FY14 Changes

- Residential rebate expenditures near targets, but shrinking due to market saturation/standards
- Increased focus on compliance with new code requirements
- Commercial customers cite ROI as biggest hurdle
- Rainwater Harvesting interest concentrated on smaller-scale projects; plan to revise incentives
- Continue to expand auxiliary water opportunities

# FY14 Focus Areas

- Maintain public awareness of drought; prepare for potential implementation of Stage 3 or 4
- Continue outreach on mandatory irrigation audits
- Implement marketing plan for commercial sector
- Revise commercial incentives to align with program goals & customer needs
- Conduct city facility efficiency audits
- Assist with rate and revenue planning

# Commercial Rebate Changes

- Transition from peak-day calculation to average lifetime savings rebate
  - \$0.50 per 1000/gallons emphasizes year-round conservation and aligns with other programs
  - Renaming to “Bucks for Business” Rebate reaches broader customer base
- Create flat-rate structure for common fixtures such as food service equipment
- Implement by early summer



# Drought Survival Toolkit

- Pilot rebate program for residential yards
- Rebates up to \$180 for soil amendments
  - Compost
  - Mulch
  - Aeration
- Combine all three amendments for highest rebate
- Increases water retention





# City Facility Audits

- 25 facilities to be audited including those with greatest savings potential
- RFP solicitation: February - March
- Boards and Commissions: April - May
- Council action projected for June
- Aligned with Sustainability Office goals for City facilities

# 2014 Water Conservation Plan

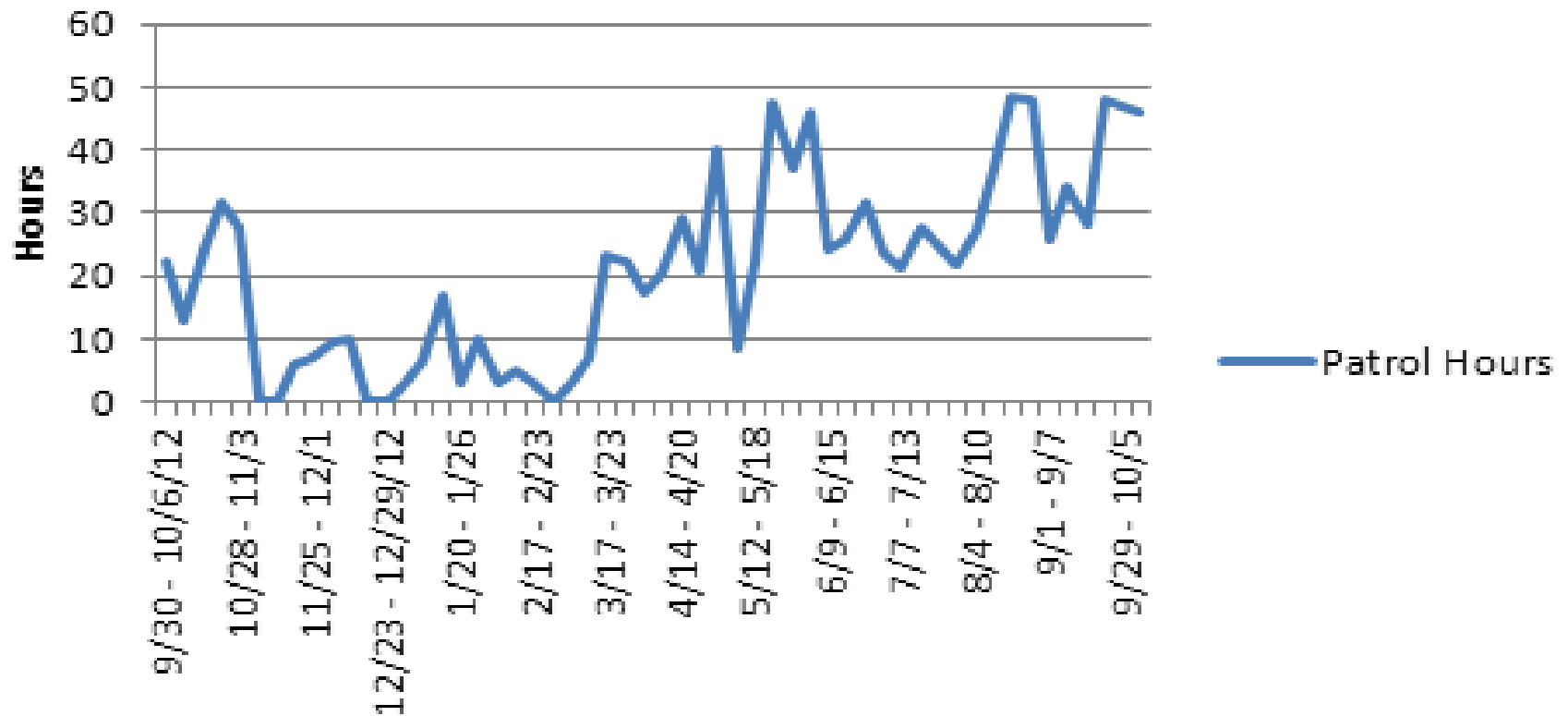
- State required 5-year update
- Combines wholesale and municipal plans
- Reflects FY12 code changes and updated goals
- New requirement for residential GPCD
- Must be submitted to TCEQ by May 1
  - Copies to TWDB & LCRA
- No changes to Drought Contingency Plan due to recent update



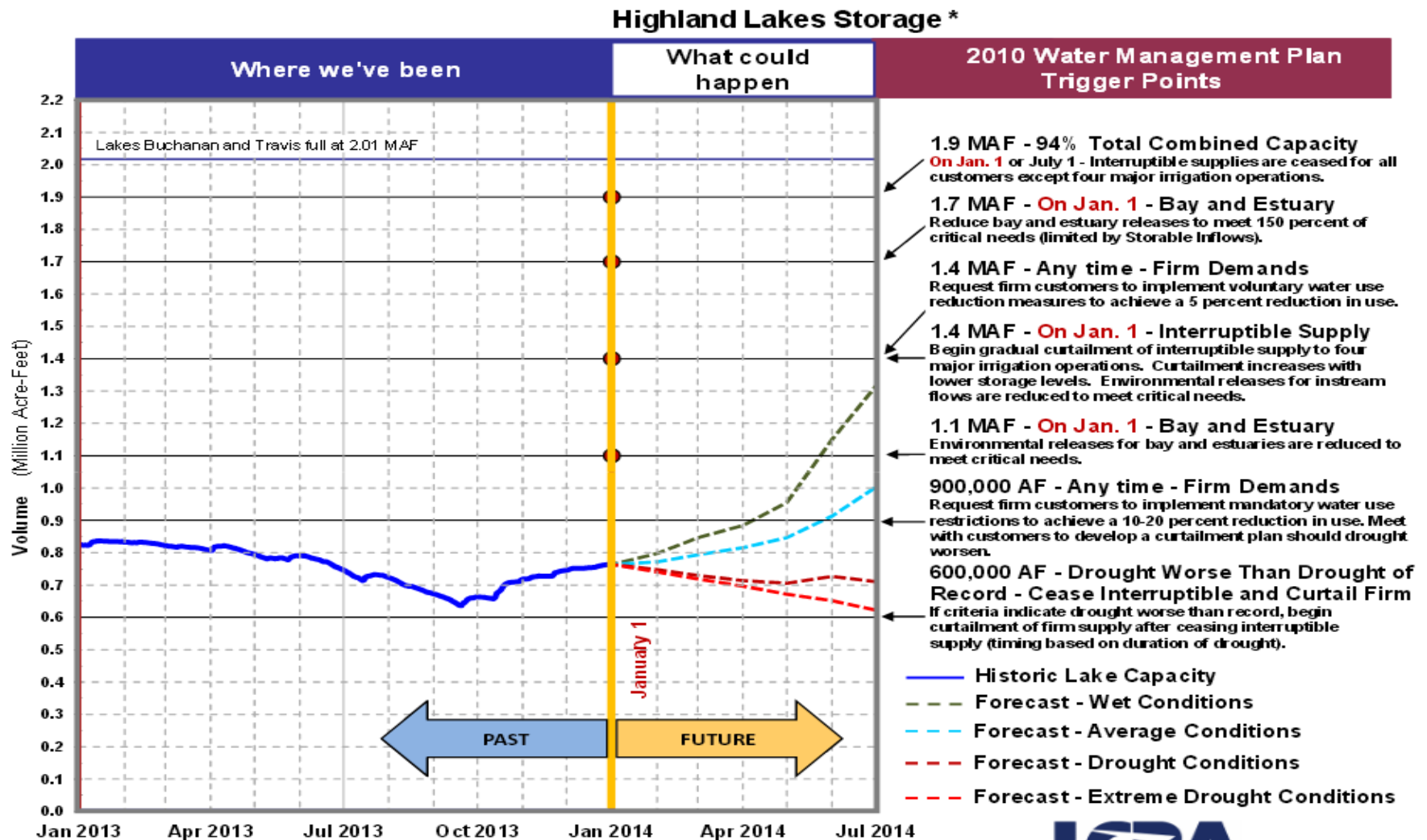
# Questions?

# 1031 Patrol Hours (FY12 631)

## Weekly Patrol Hours FY 12-13



# Highland Lakes Storage with TCEQ Emergency Drought Relief



Note: MAF equals One Million Acre-Feet  
One Acre-Foot (AF) equals 325,851 gallons.

Date: January 1, 2014

\* Projections take into account the emergency drought relief being considered by TCEQ.



# Highland Lakes Storage without TCEQ Emergency Drought Relief

