



Drought and Water Conservation Update

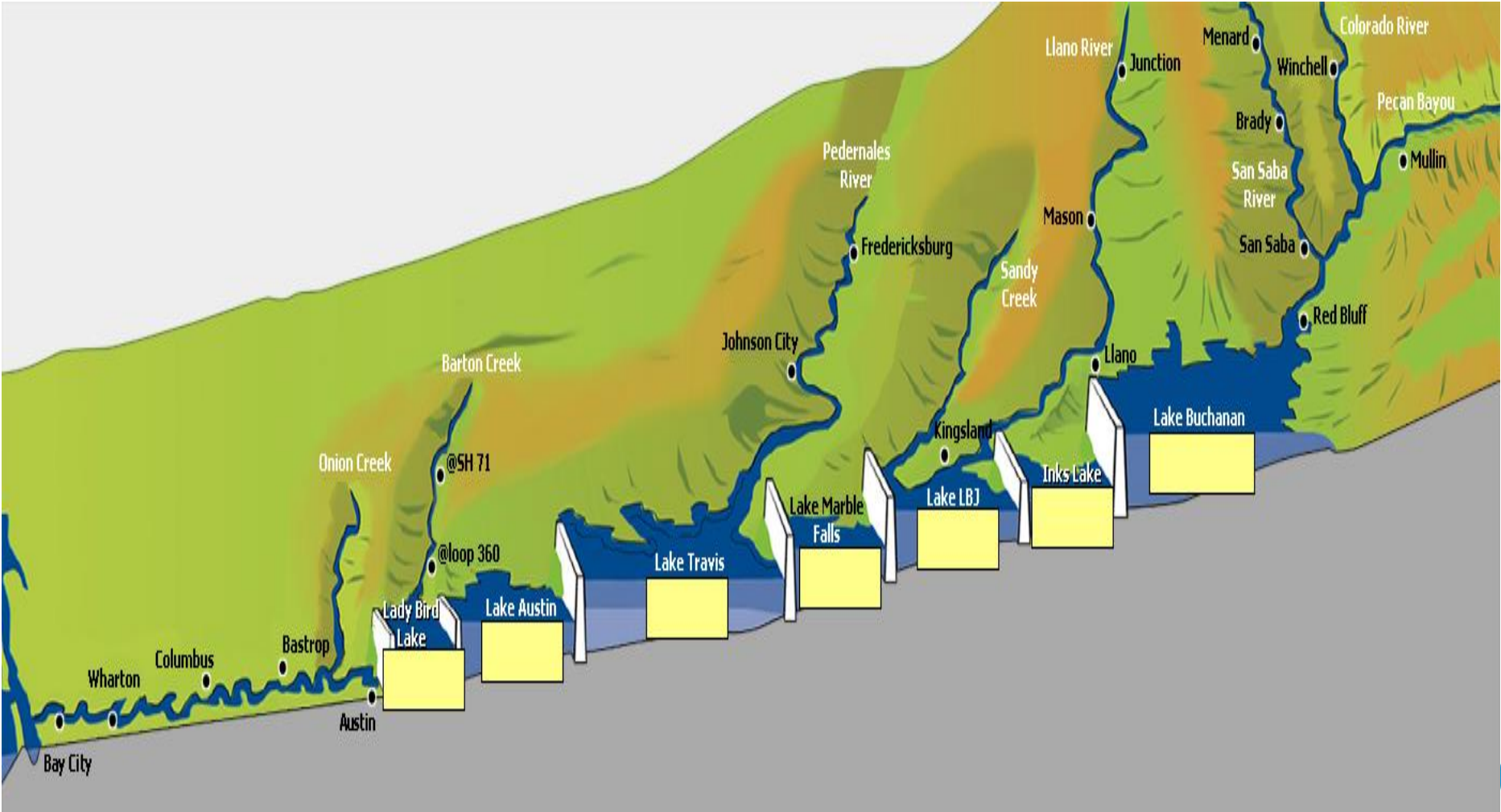
August 6, 2014

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Conservation Program Coordinator

Drought Update



Highland Lakes System



Low inflows since 2008

- Lowest inflows occurred in 2011, with only about 10 percent of the annual average.
- Second lowest inflows in 2013.
- Third lowest inflows in 2008.
- Sixth lowest inflows in 2012.
- Ninth lowest inflows in 2009.

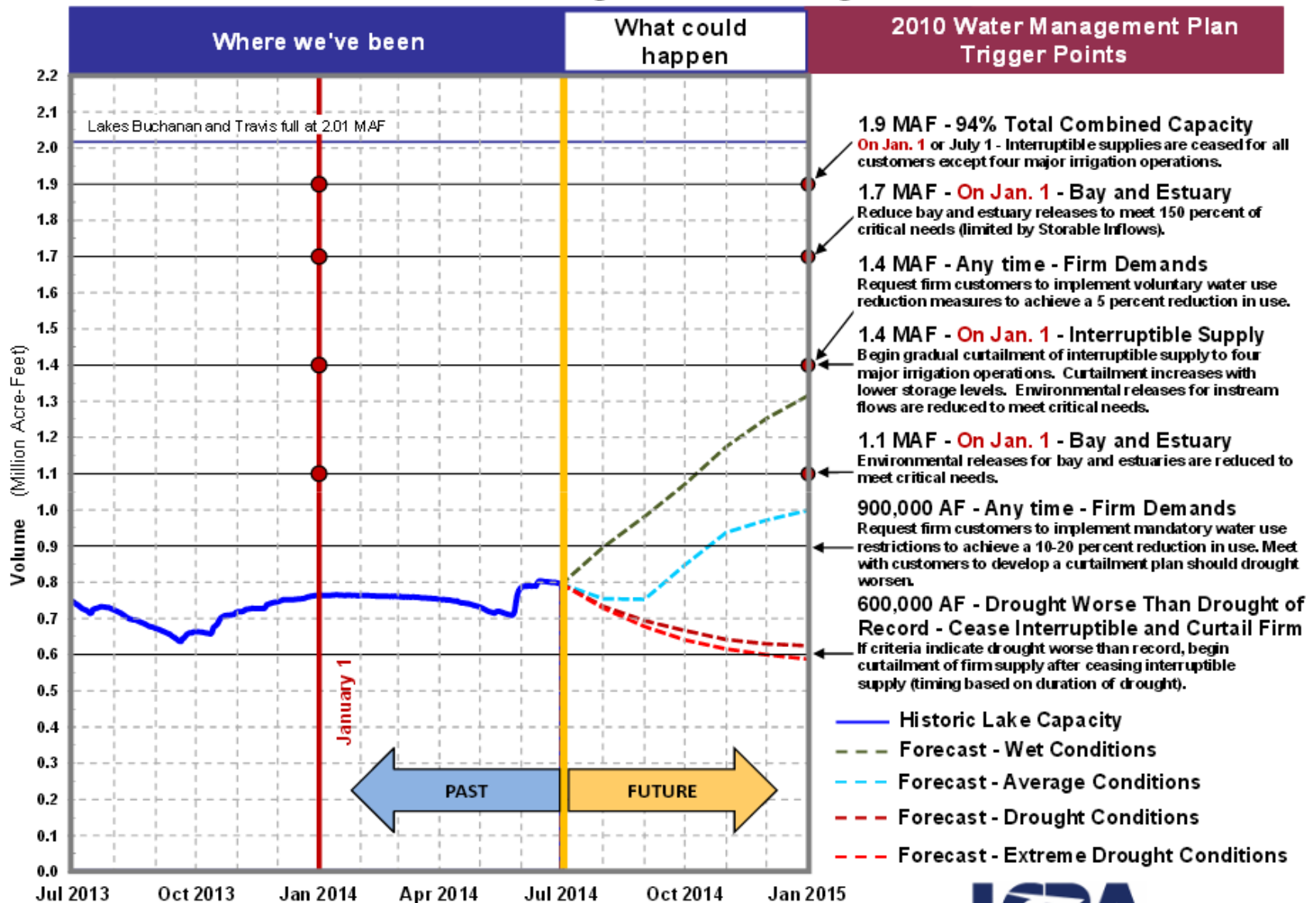


Weather outlook

- Another hot, dry summer is expected
- Recent rains have lessened chances of falling below 600,000 AF this year
- El Nino could bring drought relief this Fall



Highland Lakes Storage *



Note: MAF equals 1 Million Acre-Feet

One Acre-Foot (a-f) equals 325,851 gallons.

Date: July 1, 2014



* Based on persistent dry conditions and emergency drought relief measures affirmed by TCEQ on Feb. 26, April 30, and June 4, 2014, and additional emergency relief suspending releases of interruptible stored water for customers in the Gulf Coast, Lakeside and Pierce Ranch irrigation operations through the end of the irrigation season.

Austin is in Drought Response Stage 2

STAGE
WATER
CONSERVATION

STAGE 1
WATER
RESTRICTIONS

STAGE 2
WATER
RESTRICTIONS

STAGE 3
WATER
RESTRICTIONS

STAGE 4
EMERGENCY
RESPONSE

NOW

One Day Per Week

Find your watering day at WaterWiseAustin.org



Stage 2 remains in place



- Combined storage currently at 775,000 AF (39%)
- Stage 2 (1 day per week watering) in effect since September 4, 2012
- Stage 3 trigger possible this Fall if severe drought conditions persist

Stage 3



- Combined storage at 600,000 AF (28%)
- 1 day per week watering with reduced hours
- Reduced hours for patio misters, splash pads
- Filling of spas prohibited
- Increase in fine amounts
- Other measures as necessary

Emergency Stage 4 Measures

- No outdoor irrigation, no system testing or repair
- No vehicle washing
- No fountains, splash pads, misters
- No water use to repair or operate pools, spas, fountains
- No washing of outdoor surfaces
- Athletic fields for health/safety; variances possible for foundation, tree disease treatment, pest control
- Increase in violation fine amounts



Fines for Violations (Residential/Commercial)

	1 st	2 nd	3 rd	4 th
Stage 2	\$75 / \$200	\$150 / \$400	\$300 / \$500	\$500
Stage 3	\$150 / \$300	\$300 / \$500	\$450 / \$500	\$500
Stage 4	\$500 / \$2000	\$750 / \$2000	\$1250 / \$2000	\$2000

Outdoor Water Conservation

- Incentive Programs

- Lawn Remodel
- Irrigation System Upgrade
- WaterWise Landscape
- Drought Survival Tool Kit
- Rainwater Harvesting
- Pressure Reduction Valve
- Hose Timer

- Free Equipment

- Tree gator
- Soil Moisture Meter



Water Reclamation Initiative

- Direct reuse system - “third utility”
- Annual use - ~1.5 billion gallons (~5k AF)
- Targeting expansion of the system in high use areas:
 - University of Texas recently connected
- System facility plan:
 - Over 130 miles of pipe, 7 tanks
 - ~30k AF of annual use
- Long-term (50-year + horizon):
 - 50 to 60k AF
 - Future expansion



Reclaimed Water Use



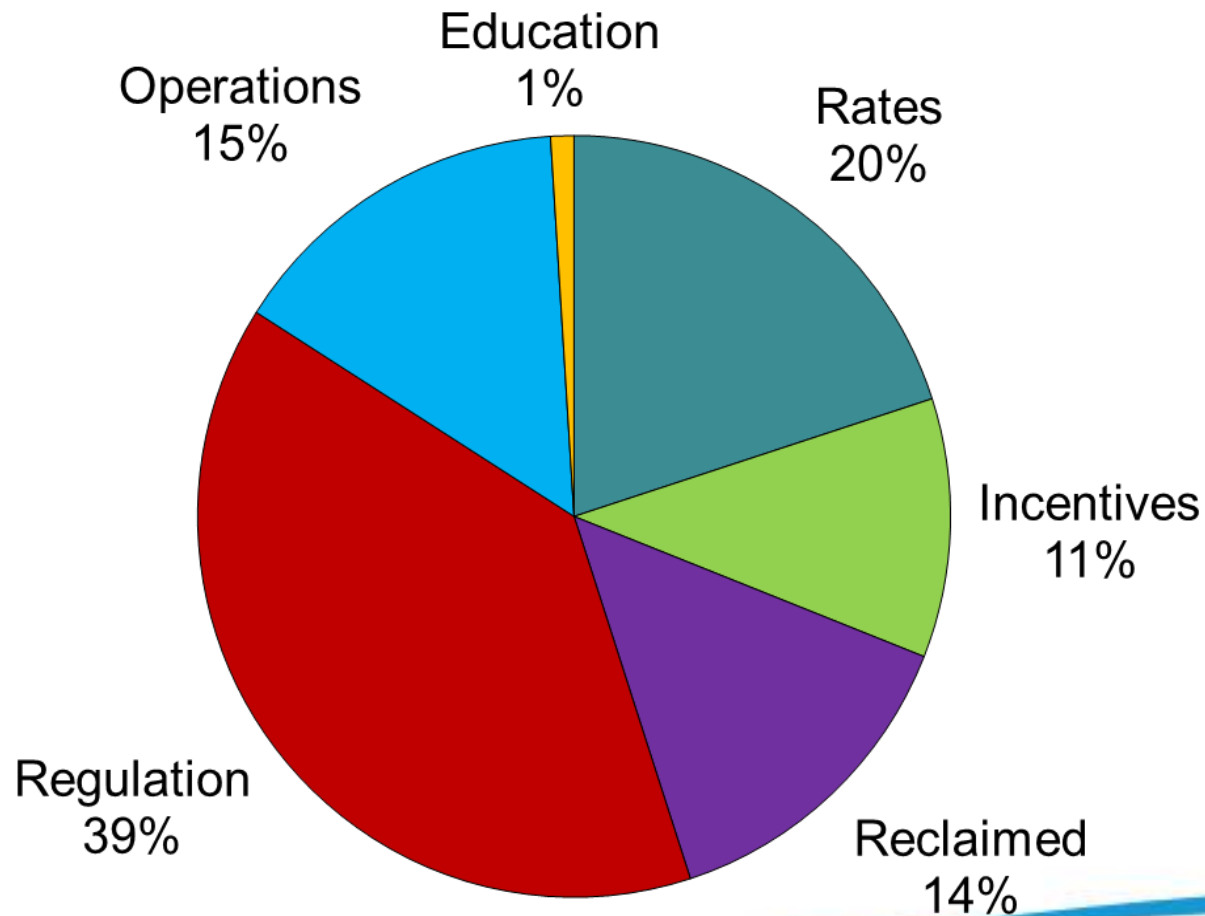
- **FY14 To-Date: 667.93 MG (63 customers)**
- **FY13: 1.47 BG (59 customers)**
- **FY12: 1.52 BG (43 customers)**
- **FY11: 1.45 BG (40 customers)**
- **FY10: 1.09 BG (36 customers)**

FY14 Reclaimed Projects

- Under construction:
 - Walnut Tank Assembly & Repair
 - 2nd Street/Central Library Main
 - Smith Road Ext. (contract awarded)
- Under design:
 - Montopolis Tank
 - FM 973
 - Capitol Complex Main
 - Main to Junction 420 (downtown)
 - Burleson Road Pressure Conversion
- 2 New Bulk Fill Stations at Walnut Creek and PARD

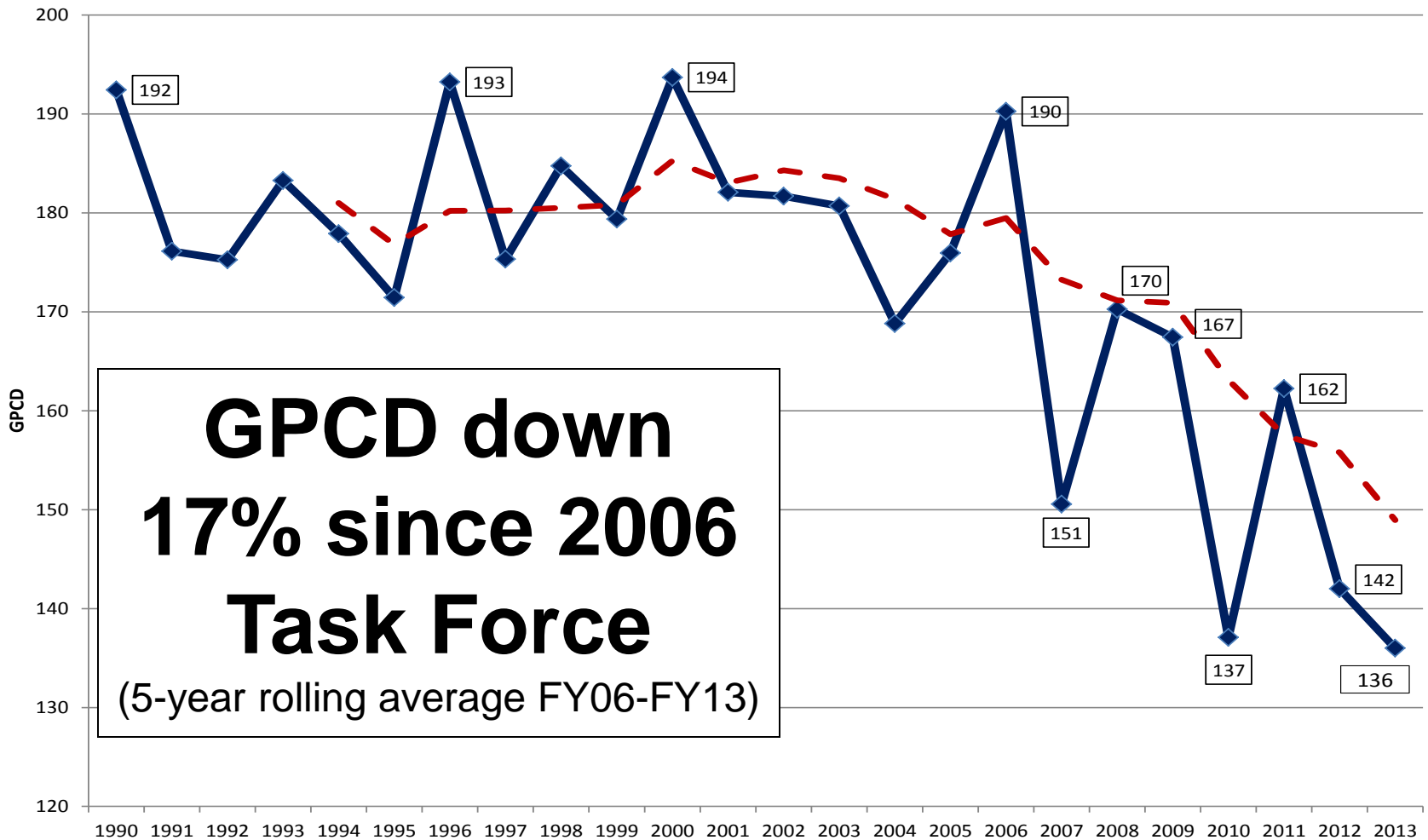


Estimated Breakdown of Savings



GPCD from 1990 to 2013

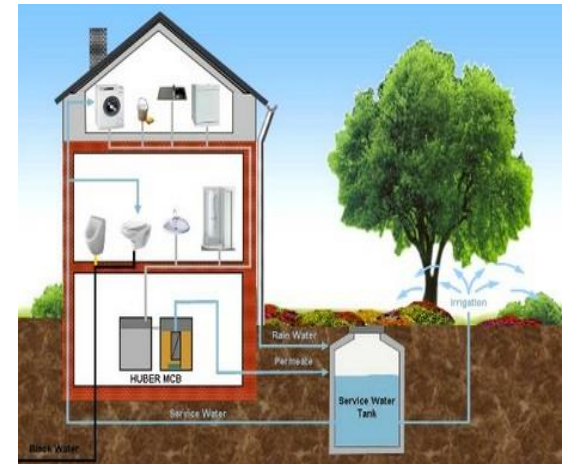
Austin Conservation History - GPCD Progress by Fiscal Year



**GPCD down
17% since 2006
Task Force**
(5-year rolling average FY06-FY13)

Auxiliary Water Study

- Task Force Input
- Consultant report on city codes and auxiliary water issues
 - Subsurface purple pipe
 - Backflow prevention
 - Number/frequency of inspections
- Council action expected this Fall





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