



Water Conservation Program Update 4th Quarter FY2012

Resource Management Commission

October 16, 2012

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Water Conservation Program Coordinator

Overview:

- Conservation incentive programs
- Enforcement
- Public education/outreach events
- Reclaimed water use and system expansion
- Weather and water supply forecasts
- Looking ahead
- RMC/AWU Workgroup Update

Incentive Programs

- Represents small percentage of overall strategies
- Will continue to change in response to:
 - phase outs (e.g., saturation studies, “free ridership” surveys, code requirements)
 - new programs
 - new information, data and research on savings

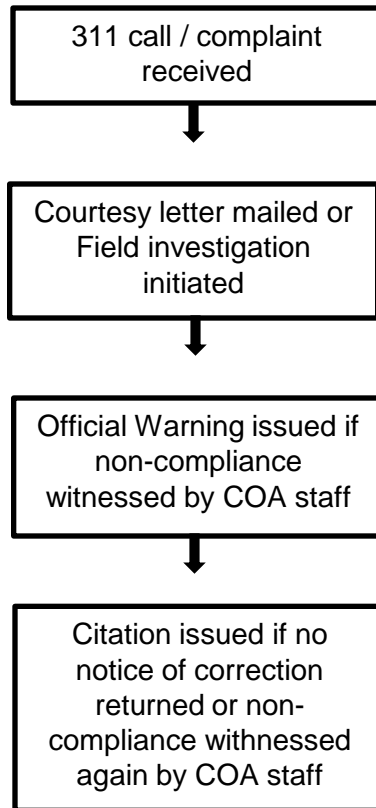
Incentive Program 4th Qtr Highlights



- Most activity in Residential Clothes Washer Rebates, Irrigation Audits, Aerator/Showerhead Distribution and Rain Harvesting System Rebates
- Granted 200 requests for 6 month extension to Lawn Remodel Rebate applicants due to Stage 2
- Re-tooled suspended Lawn Conversion Program to new Landscape WaterWise Program in September
- Re-tooled Irrigation System Upgrade Rebate; now only available to residential customers in response to new code requirements
- Re-tooled Hotel WaterWise program in response to new code requirements.

Water Conservation Code Enforcement

Enforcement Process



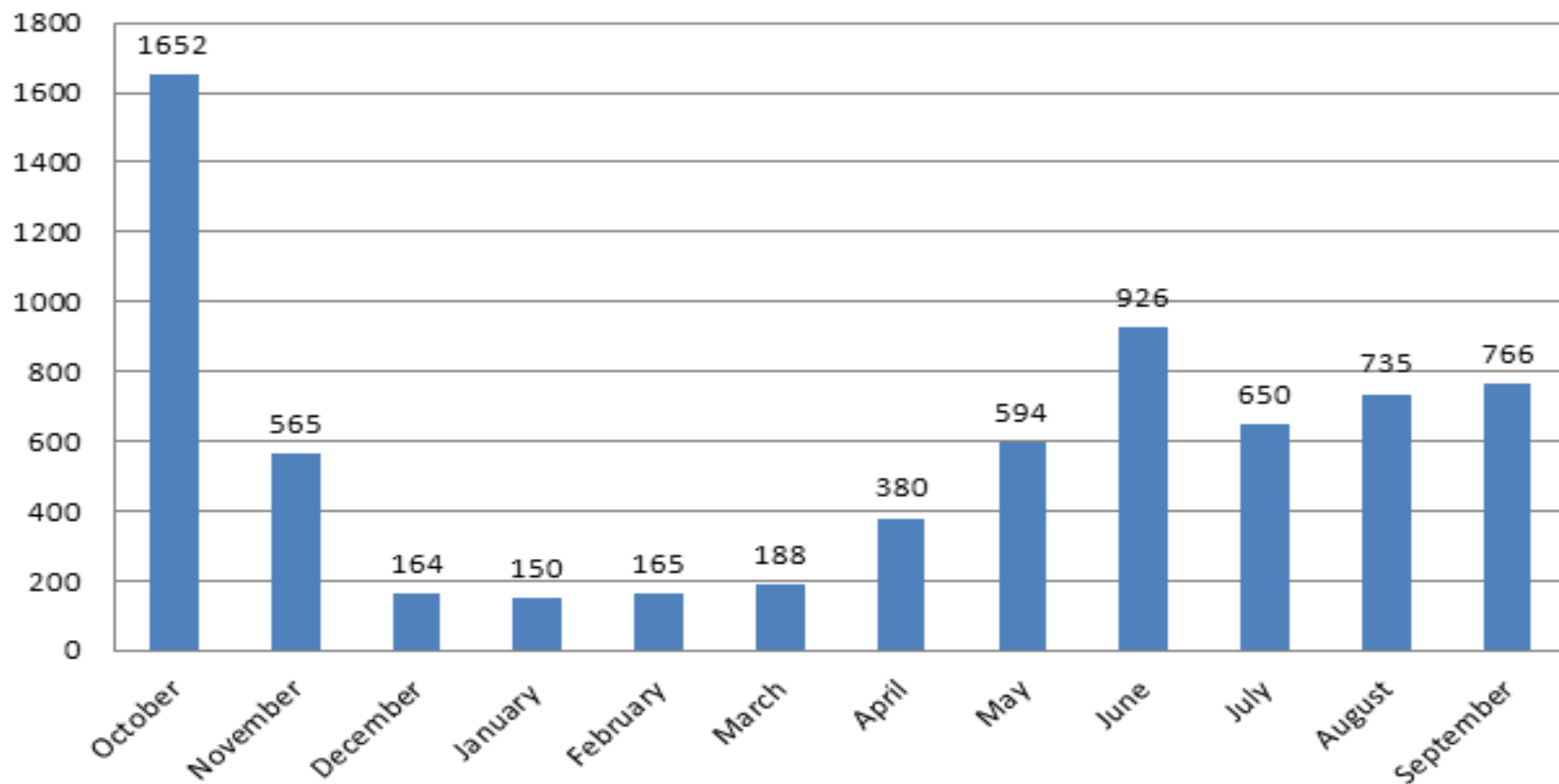
FY 12 Enforcement Activity

- 6935 “311” Calls
- 3678 Courtesy Letters/Postcards
- 1137 Official Warnings/NOVs
- 471 Citations Issued
 - 250 Residential Citations
 - 221 Commercial / MF Citations



FY 2012 “311” Reports

311 reports, FY 11-12, Monthly Totals



Conservation Outreach FY2012 To Date



- FY 2012 Activities (FY 2011)
 - Events/Booths: 10,262 (19,881)
 - Public Presentations: 1,958 (2,898)
 - School Presentations: 22,289 (19,718)

July

- SSHA TX Hill Country Chapter
- Austin Energy Customer Care Staff Training

August

- AISD Back to School Bash
- Foundation Communities Saving Green Program
- Code Workshop for Licensed Irrigators

September

- Austin Hotel & Lodging Green Trade Show
- Austin Woman Magazine 10th Anniversary

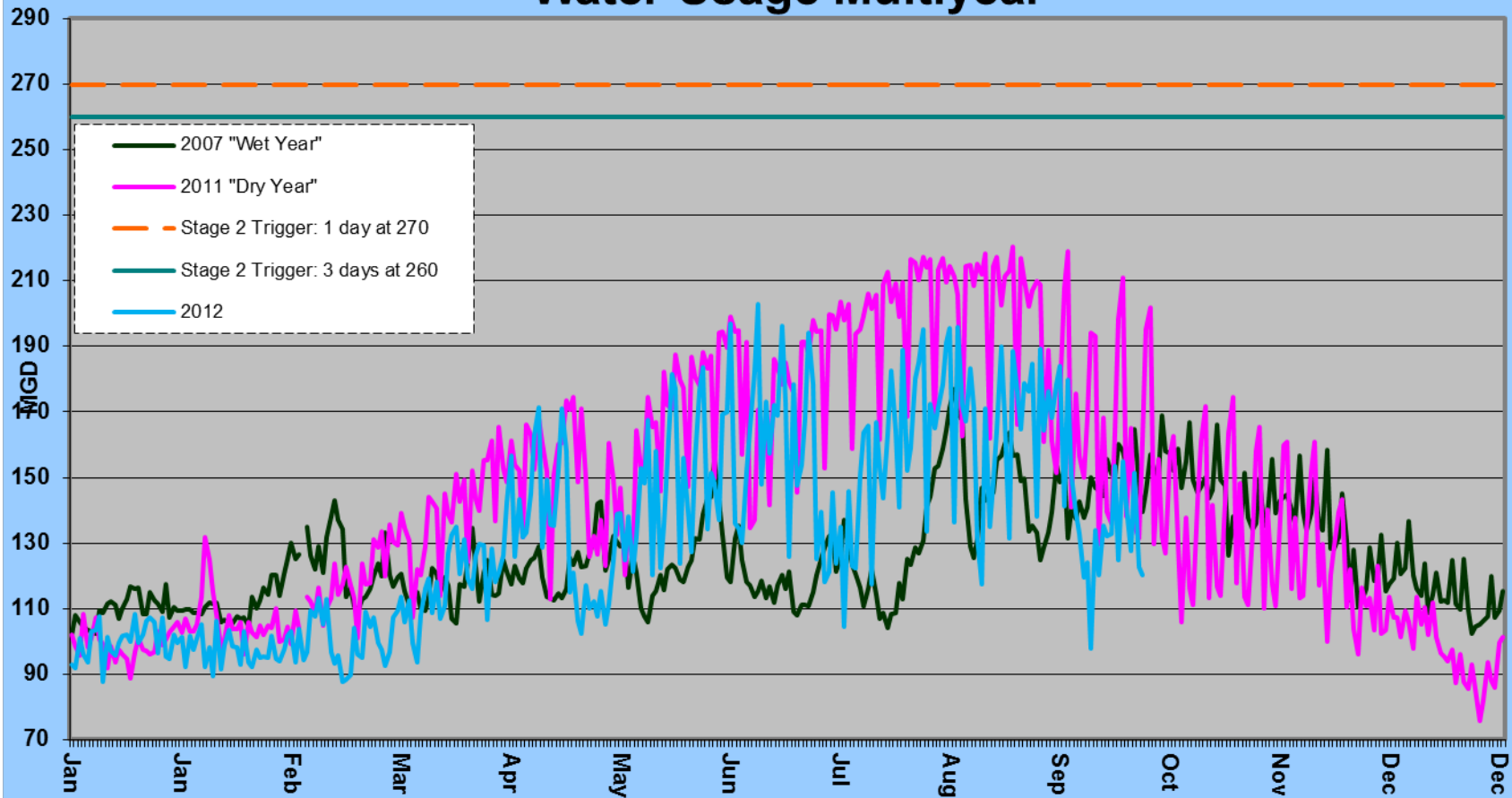
Stage 2 Reinstated



- Stage 2 (1 X week watering) in effect from September 6, 2011 to July 16, 2012
- Reinstated Stage 2 with new hours September 4, 2012
- Total water use in FY 2012 est. 142 GPCD (162 GPCD in FY 2011)

FY2012 Water Use Comparisons to wet and dry years

Water Usage Multiyear



Reclaimed Water Use



- Annual Use
 - FY12: 1.52 BG (4.34% of total wastewater treated)
 - FY11: 1.45 BG (4.65% of total wastewater treated)
 - FY10: 1.09 BG (3.01% of total wastewater treated during wet year with very low demand)

Reclaimed Water Projects

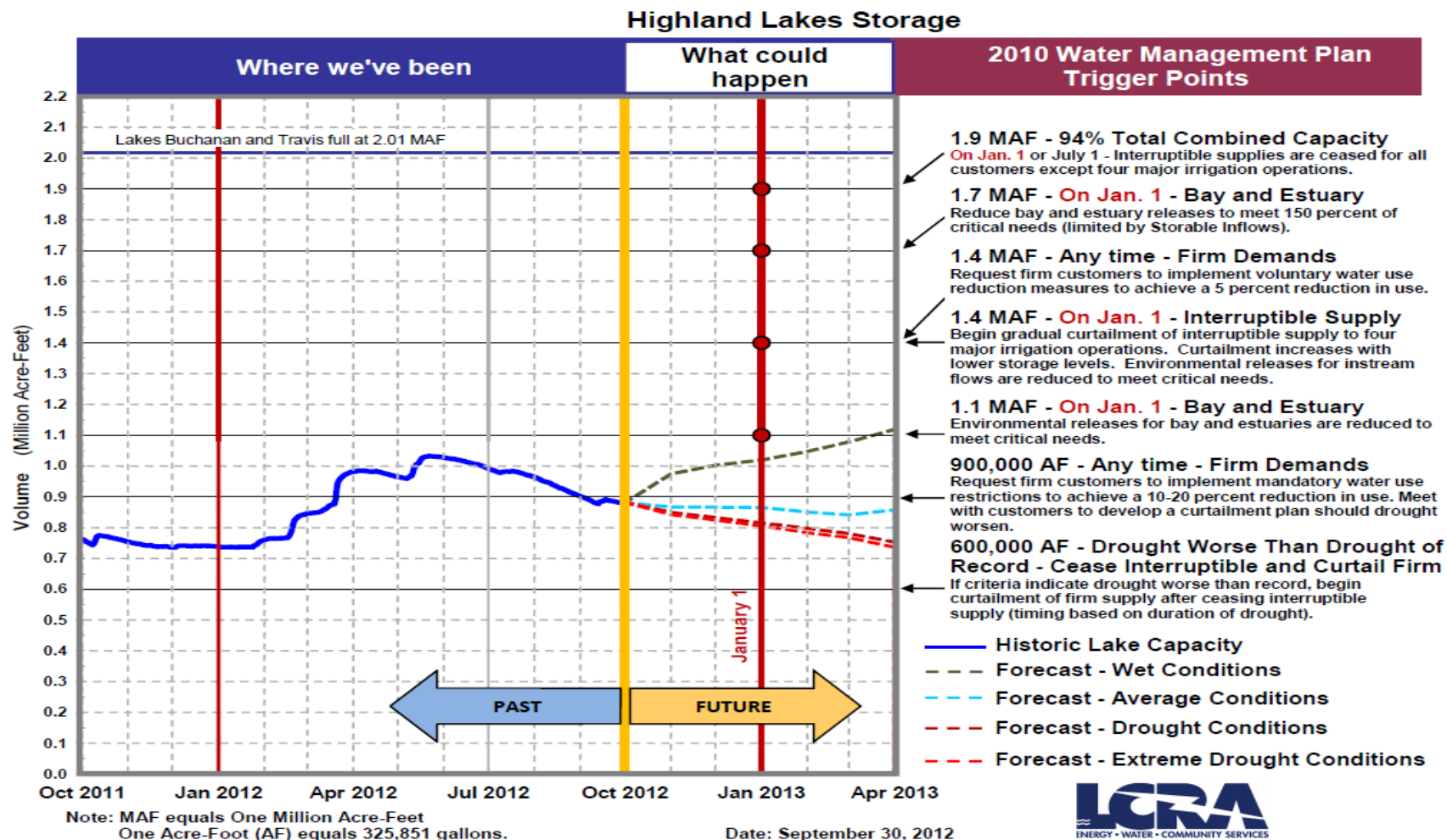
- Under construction:
 - Montopolis Main;
 - Guerrero Park Main Phase II;
 - BAE Systems Main
 - Hancock Golf Course Irrigation System
- Under design:
 - 2nd Street/Central Library Main
 - Smith Road Extension
- Nearing Connection:
 - Hornsby Bend Admin Building Irrigation
 - Krieg Fields
- Hornsby Fill Station and PARD Tree Irrigation Trucks Available
- Consultant Selected for Auxiliary Water Code Study



Looking Ahead

- Stage 2 Likely to Continue
- RMC/AWU Workgroup Council presentation November 8
- Follow-up Rulemaking to Code Revisions – expected adoption January 2013
- Graywater Work Group – technical guidance document, criteria manual, and staff support program by March 2013

Highland Lakes Storage



Weather Outlook

- El Niño not developing as quickly as previously forecast, resulting in a slightly drier fall than initially predicted.
- The chance of tropical rain in Texas is waning as the hurricane season winds down.
- Weak El Nino expected in October and persisting only through February
- We can still expect cooler than average weather this winter

RMC/AWU Workgroup

- Began one year ago in response to council member request
- Created to improve communication and understanding of AWU's Water Conservation programs
- Needed to assist RMC in its role to advise city council
- Joint RMC/AWU briefing on progress to City Council November 8

AWU/RMC Goals

- Improve program reporting for clarity, measurability and accountability
- Provide transparency in program assessment and planning
- Facilitate ongoing dialogue to help RMC better advise Council on conservation matters
- Consolidate and integrate peak and average day goals into one clear conservation plan

Improve Program Reporting

- Monthly reporting format updated
 - Program participation goals for incentive programs
 - Graphs of water use history
 - Budget and cost-benefit information
- Quarterly agenda item to summarize activity, alert to upcoming changes
- Annual wrap-up and look-forward in January

Improve Program Transparency

- More than 30 digests covering over 50 strategies
- Contain water savings and cost estimates for each strategy
- Include assumptions and source references
- Provide schedule for review/verification
- Updated as new data and information becomes available

Digest

Unit:	1 washer	1 washer
Peak Savings:	15 GPD	90 GPD
Average Savings:	15 GPD	90 GPD
Est. Unit Costs:	Variable - \$50(current) to \$100 (former) water rebate. Additional electric or gas rebates may apply	Variable - \$150 water rebate. Additional electric or gas rebates may apply
\$/1000 gal saved over expected lifetime:	\$1.46	\$0.55
Assumptions:	40 gal/load standard, 25/gal HE, 1 load per day	15 GP load, 6 loads/ day
References:	http://www.twdb.state.tx.us/conservation/municipal http://www.allianceforwaterefficiency.org/laundromats	

Clothes Washers & Commercial Laundry Facilities (Code)				Confidence Level: 4
Description:	Provide financial incentives for HE washer replacements; require new models to meet higher federal efficiency standards			
Start Date:	SF: FY1997. MF: FY1999. ICI: FY2004	End Date:	SF: end of FY2012 (projected)	
Referenced in:	2007 WCTF IN-6 (ICI); 140 Plan (SF/MF)			
	Single-Family (includes MF residential)	Multifamily (common areas)	Commercial	
Unit:	1 washer	1 washer	1 washer	
Savings:	15 GPD	90 GPD	90 GPD	
	15 GPD	90 GPD	90 GPD	
Est. Unit Costs:	Variable - \$50(current) to \$100 (former) water rebate. Additional electric or gas rebates may apply	Variable - \$150 per water rebate. Additional electric or gas rebates may apply	Variable - \$150 per water rebate. Additional electric or gas rebates may apply	
\$/1000 gal saved over expected lifetime:	\$1.46	\$0.55	\$0.55	
Assumptions:	40 gal/load standard, 25/gal HE, 1 load per day	15 GP load, 6 loads/ day	15 GP load, 6 loads/ day	
References:	http://www.twdb.state.tx.us/conservation/municipal/plans/doc/WCITFBMPGuide.pdf http://www.allianceforwaterefficiency.org/laundromats.aspx			
Expected Life:	10 years	Marketing:	Bill stuffers, newspaper ads, direct mail	
Staff Allocation:	1.3 FTEs	Cost Driver:	Average cost of water	
Notes:	15 GPD savings is conservative; TWDB BMPs estimate 41g/load conventional and 11-25g/load HE. Alliance for Water Efficiency recommends using 6 loads/day for commercial machines. Survey of Austin coin-operated Laundromats confirms 3-6 loads per day. 20% market penetration by year 2.			
Review Frequency:	4 years for ICI rebates			
Last Revised:	March 21, 2012			

Facilitate Ongoing Dialogue

- Worksessions since Nov 2011, every 2-4 weeks
- Commissioners
 - Leo Dielmann, chair
 - Christine Herbert
 - Hari Krishna
- AWU Staff
 - Greg Meszaros, Director
 - Daryl Slusher, Assistant Director
 - Drema Gross, Conservation Manager
 - Finance, Systems Planning & Conservation staff

Unified Goals Under a Single Plan

- Reduce Total Water Use to 140 GPCD by 2020
- Reduce and maintain Summer “peaking factor” ratio to 1.5 by 2035
- Delay payment to LCRA for raw water supplies

Benefits of Unified Plan

- Consolidated/integrated/consistent with past plans and council resolutions
- “Living” goals that build upon earlier plans and progress
- Will also be used to meet all regulatory planning and reporting requirements



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