



Water Conservation Update

AWU/RMC Working Group

December 13, 2012

Background

Background

- Conservation programs started in 1980s to initially address system capacity issues
- 2006-2007 Council Task Force renewed interest in reducing peak day use
- 2009 Council resolution set goal for reducing average day use (GPCD)
- August 2011 briefing identified need for better AWU/RMC communication and understanding of plans and programs to achieve goals
- Council members urged worksessions

Workgroup Meetings

- 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

AWU/RMC Goals

- 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
- Provide transparency in program assessment and planning
- Improve program reporting for clarity, measurability and accountability

Joint Recommendations

Consolidate Conservation Goals

- 2006 goal of reducing peak day use by 1% per year over 10 years
- 2009 goal of reaching 140 GPCD by 2020
- Ongoing goal to defer LCRA payment trigger
- Generate unified plan that combines goals, satisfies state reporting requirements
- Executive summary provided today

Improve Program Transparency

- More than 30 “fact sheet” digests developed covering over 50 strategies
 - Contain water savings and cost estimates for each strategy
 - Include assumptions and source references
 - Provide schedule for review/verification
 - Routinely reviewed and updated

Program Digest Example

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	

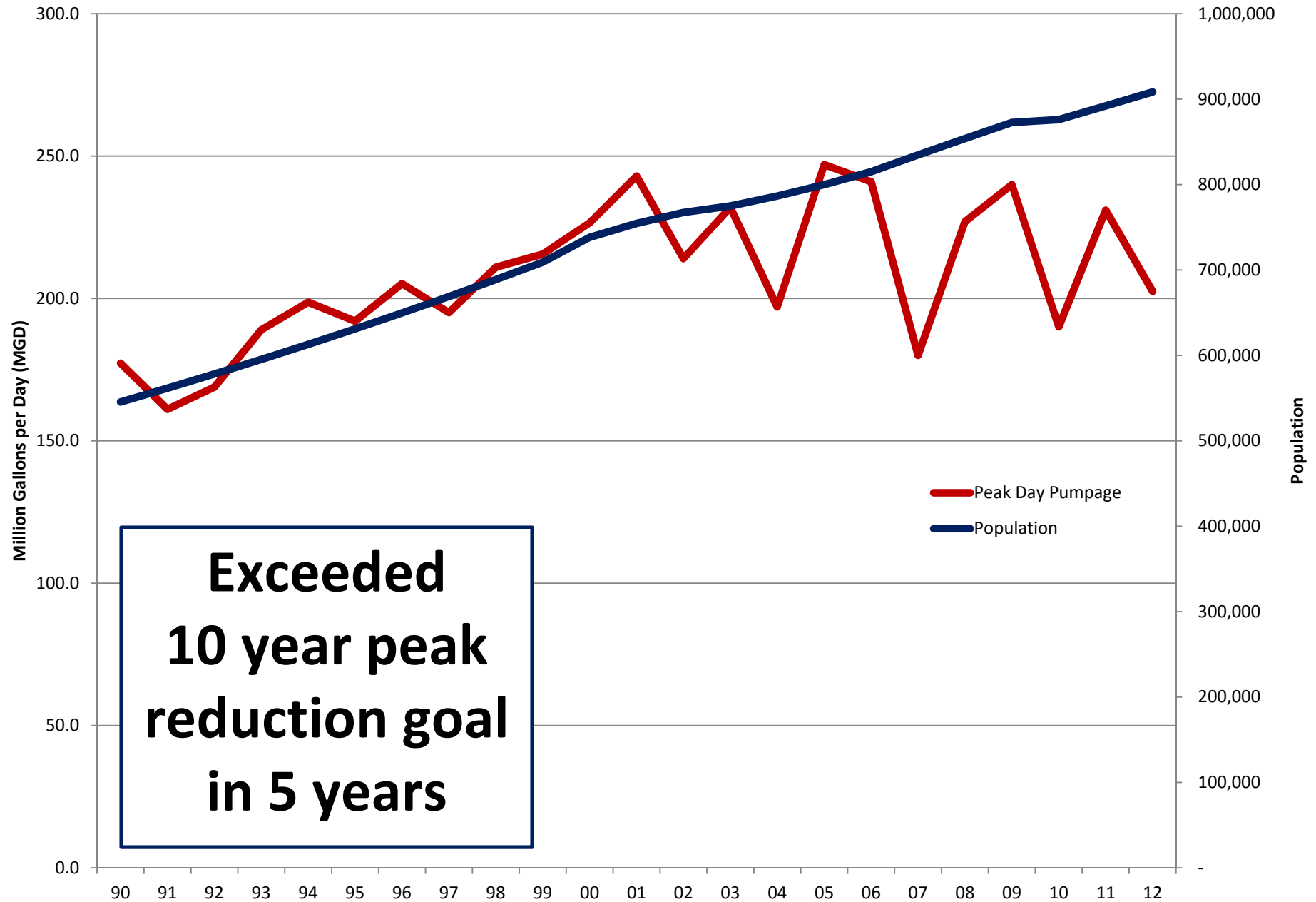
Clothes Washers & Commercial Laundry Facilities (Code)				Confidence Level: 4
Description:	Provide financial incentives for HE washer replacements; require new models to meet higher federal efficiency standards			
Start Date:	SF: FY1997, MF: FY1999, ICI: FY2004	End Date:	SF: end of FY2012 (projected)	
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	
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References:	http://www.twdb.state.tx.us/conservation/municipal/plans/doc/WCTFBMPGuide.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			

Improve Program Reporting

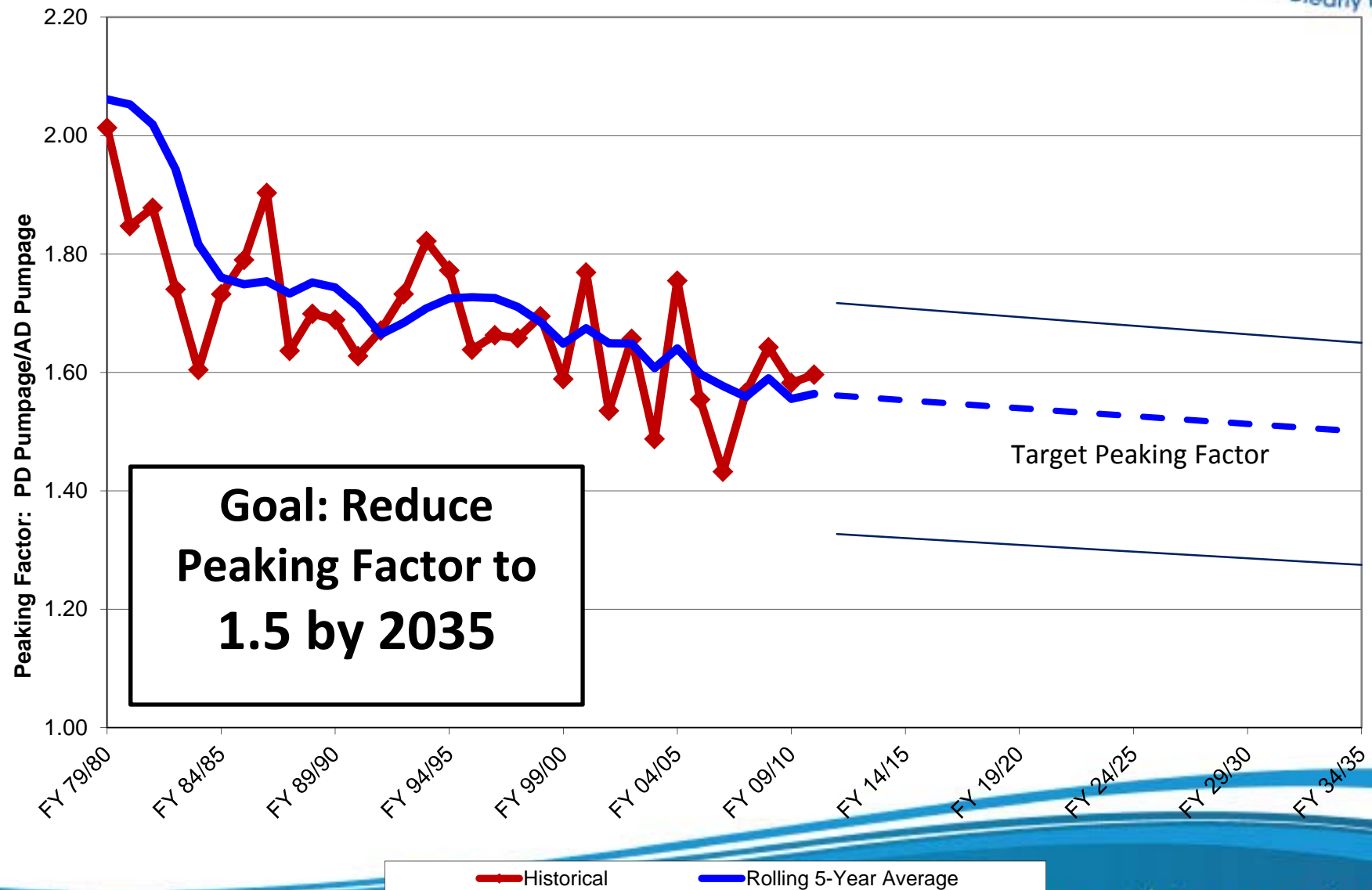
- Monthly reporting format updated
 - Program participation goals for incentive programs
 - Graphs of water use history
 - Budget and cost-benefit information
- Quarterly agenda item to summarize activity, alert to upcoming changes
- Annual wrap-up and look-forward in January

Consolidated Conservation Goals

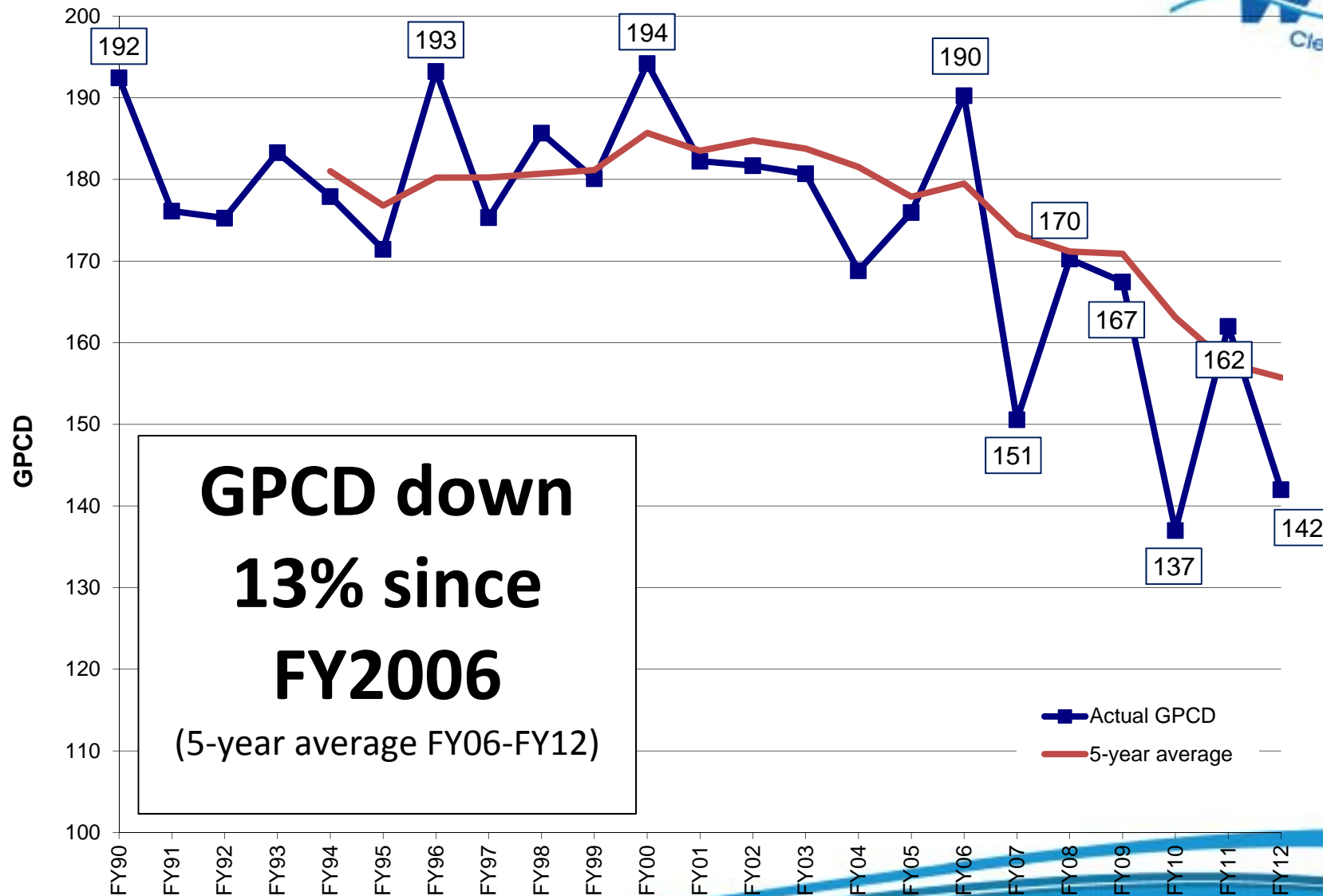
Peak Day Pumpage vs. Population



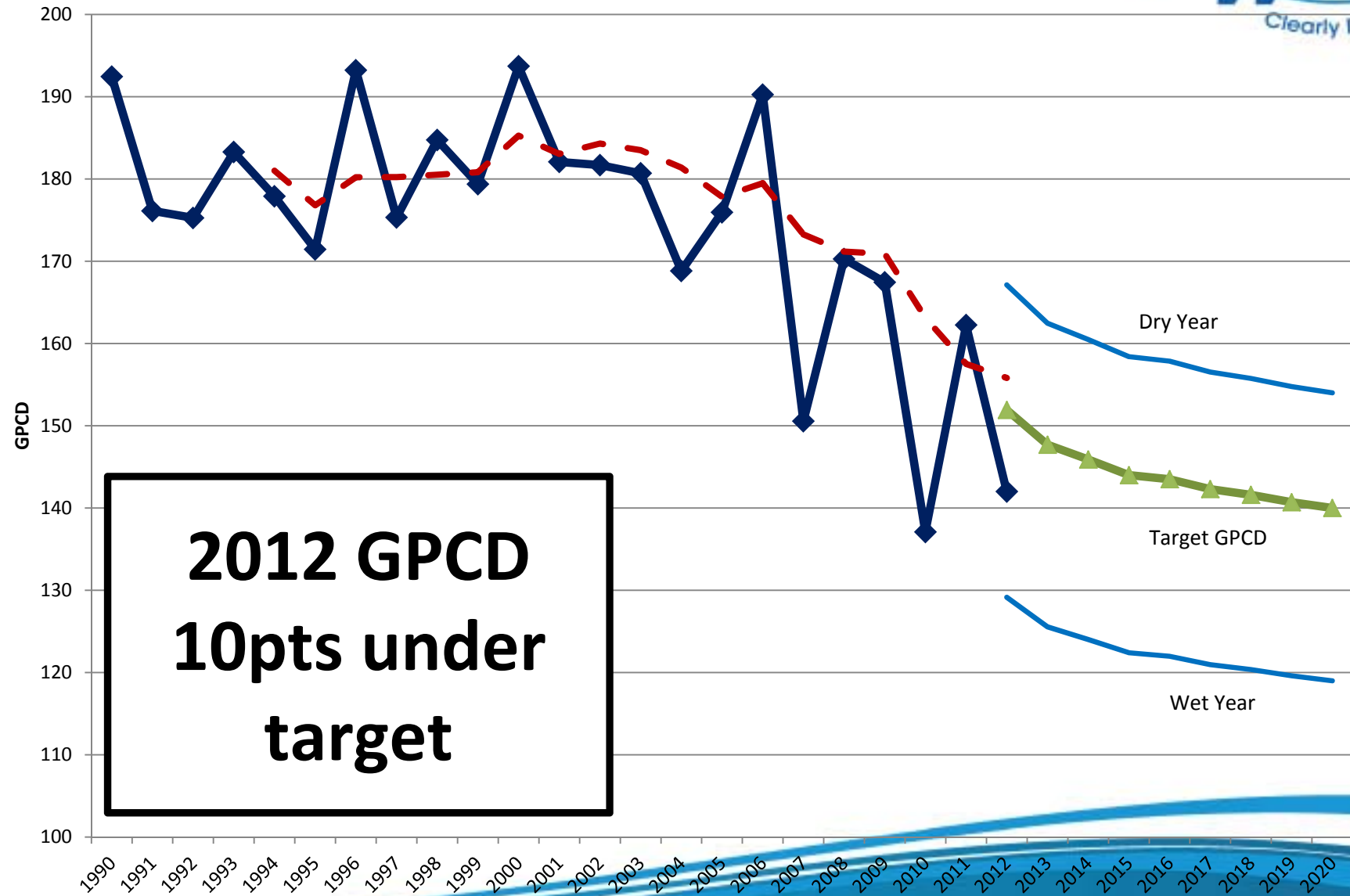
Peaking Factor Goal



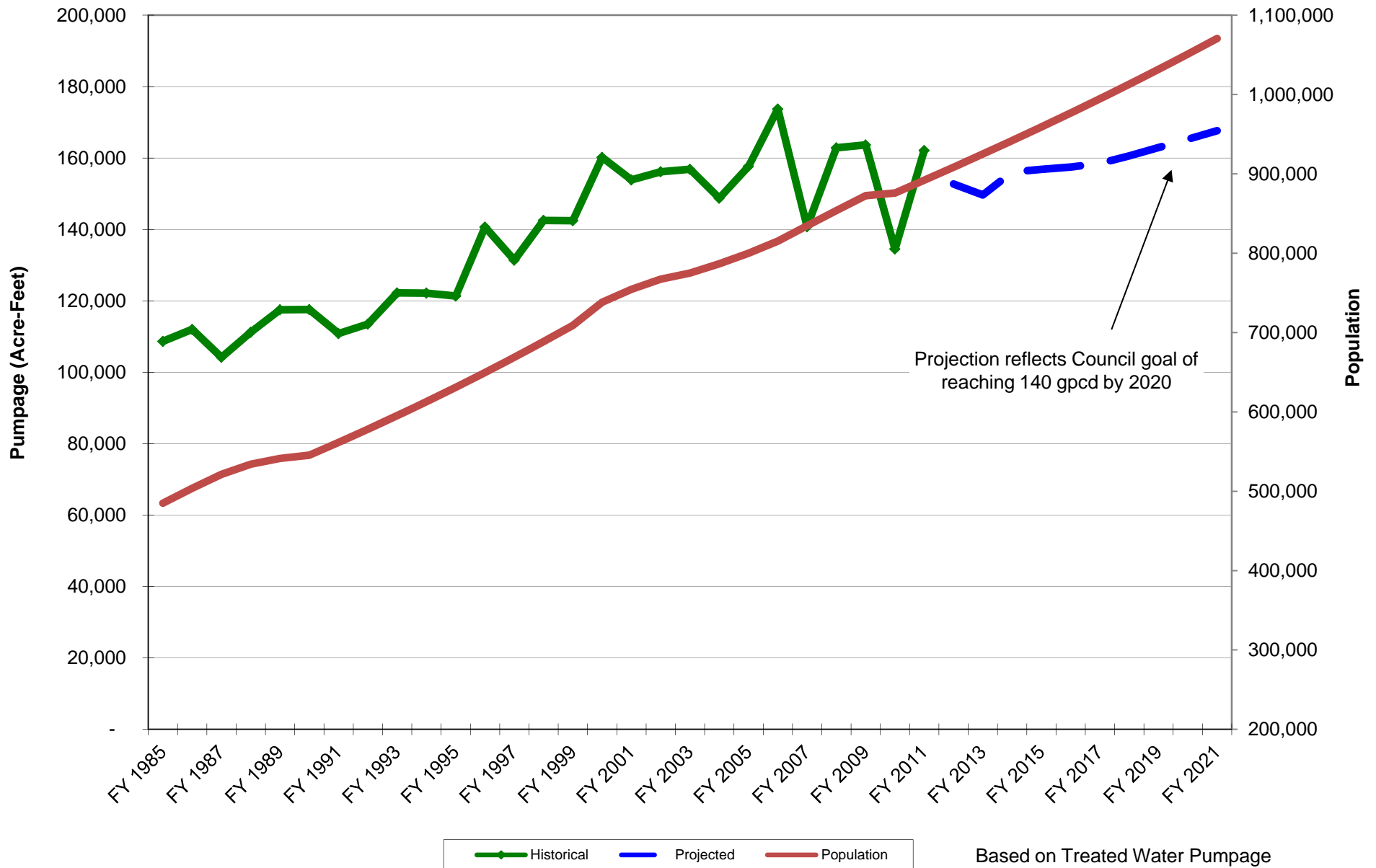
GPCD from 1990 to 2012



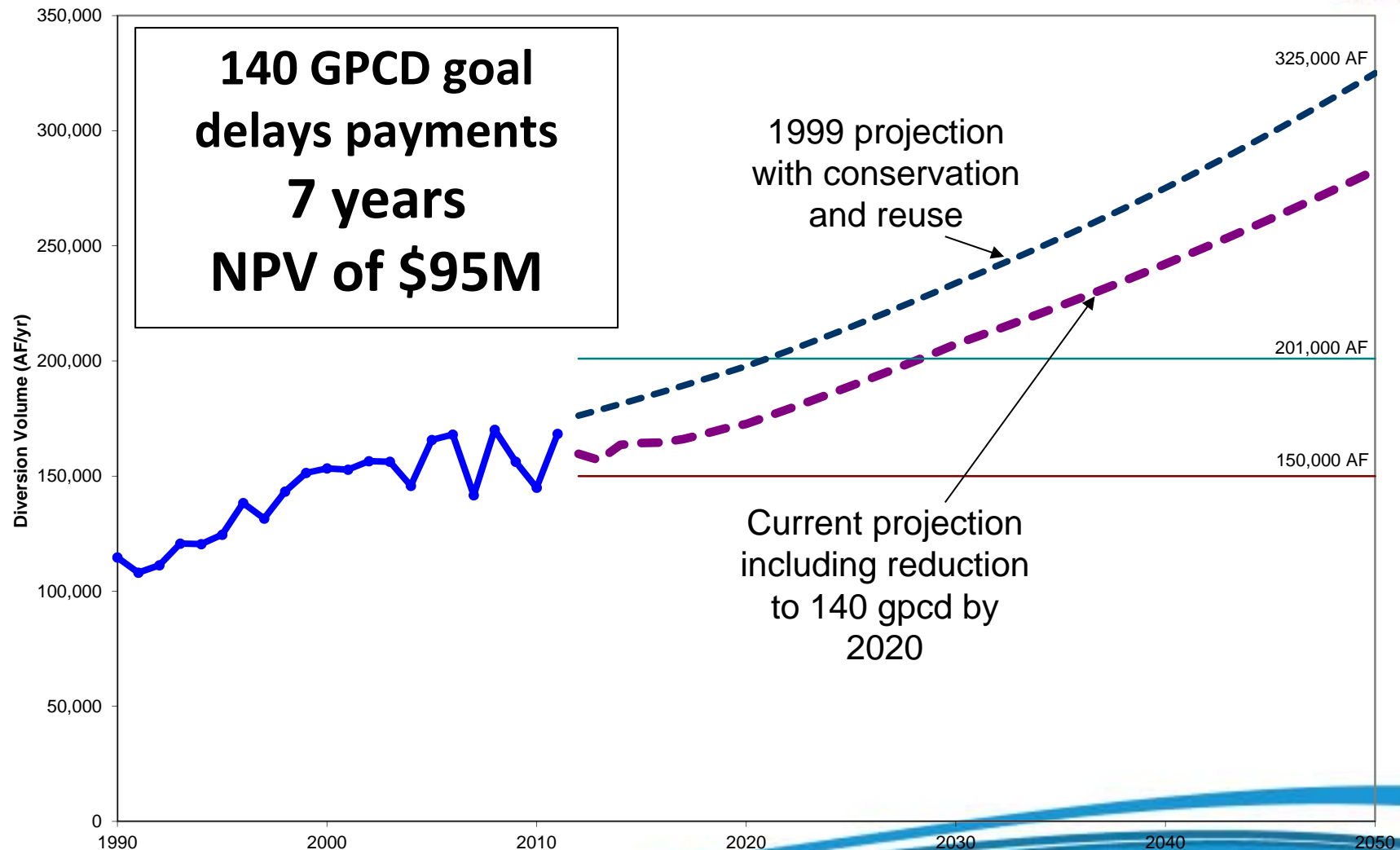
Conservation History and Expected GPCD Progress



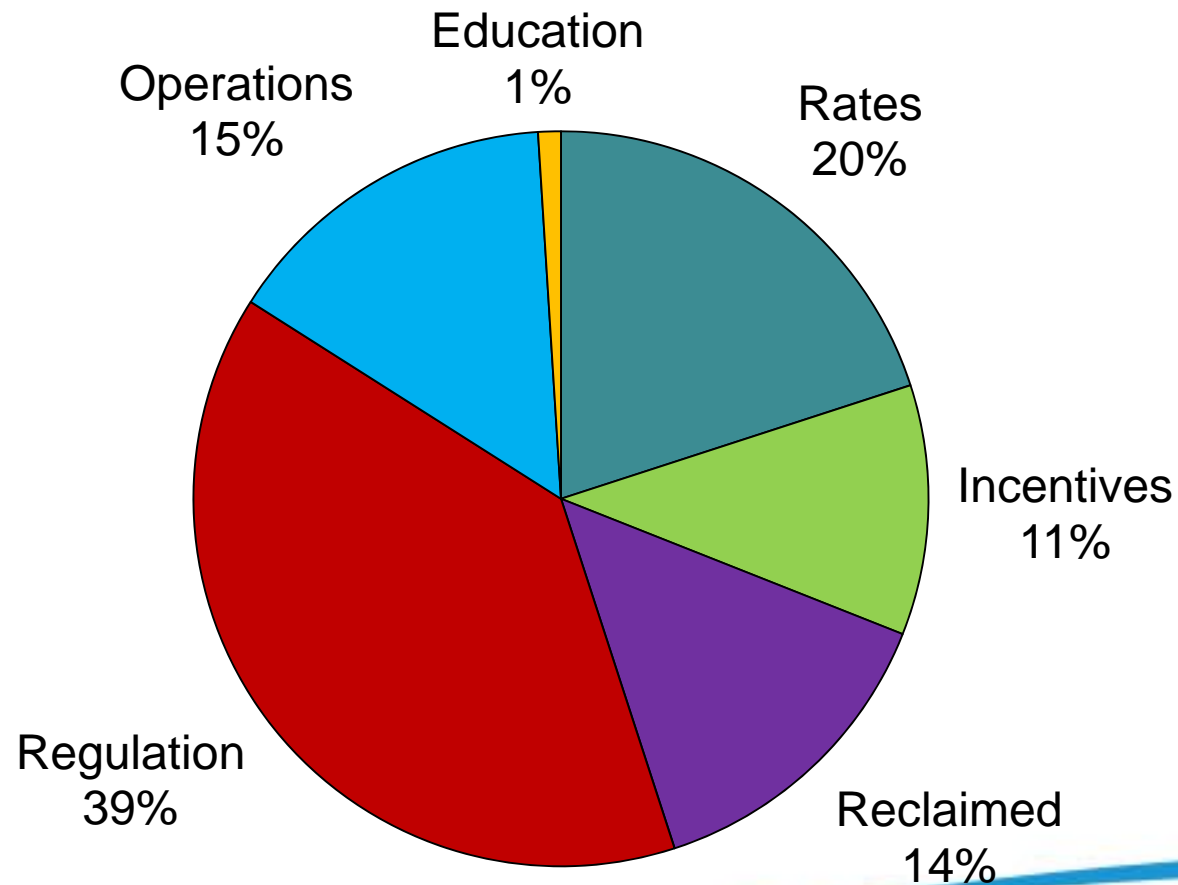
Total Annual Pumpage and Population



Trigger Delay Goal



Savings by Strategy



Conservation Progress

- 2006 goal of reducing peak day use by 1% per year over 10 years
 - Estimated to have saved ~35 MGD in only 5 years
 - Augmented goal: reduce peaking factor to 1.5 by 2035
- 2009 goal of reaching 140 GPCD by 2020
 - 5-year average GPCD dropped 13% since FY06
- Ongoing goal to defer LCRA payment trigger
 - Current programs expected to achieve 7 year delay
 - Net present value savings of \$95M

In Conclusion

- Solid AWU/RMC working relationship
- Improved reporting
- Enhanced Transparency
- Clear Goals and Measures

Questions?