

WATER CONSERVATION PLAN

2015 UPDATE

Conservation Workgroup

- Conservation Plan Update Workgroup
  - 16 members
  - Subcommittee of CIRPAC
  - Offered insight on conservation plan update

Coordination of All Plans

- Conservation Plan
- Water Needs Assessment
- 50-Year Plan
- Impact Fee Facilities Plan
- Statewide Infrastructure Plan

Workgroup Members

Last Name	First Name	Rep
Anderson	Austin	Builders
Bergeson	Larry	WC Schools
Bringhurst	Ty	Toquerville
Butine	Tom	CDF
Fleming	Rene	St. George
Gillette	Chuck	Ivins
Hays	Brad	Santa Clara
Iverson	Victor	County
Kohler	Richard	Green Building
McArthur	Gregg	Chamber
Martin	Connie	Hurricane
Sapp	Carol	Citizen
Hancock	Niki	Landscape Nurseries
Winters	Mike	Washington
Wadsworth	Colette	Agriculture
Wilson	Karl	LaVerkin

Categories of Measures

General Measures

Residential Measures (Indoor)

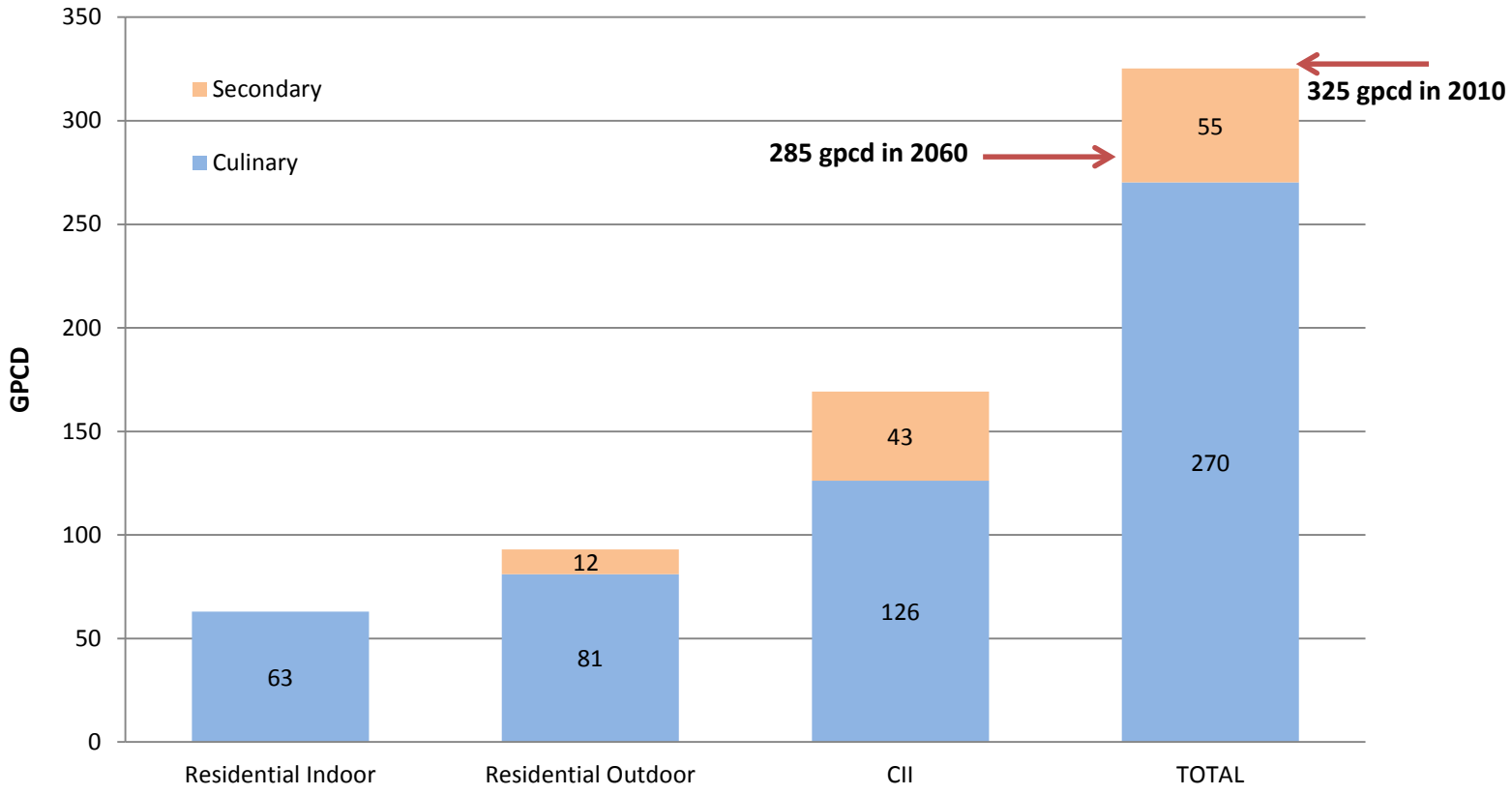
Commercial Measures (Indoor)

Irrigation Measures (Outdoor)

MWM Model Process

- Committee selected conservation measures for evaluation
- Preliminary evaluation by MWM
- Collaboration with WCWCD
  - Update data
    - Population, water usage, account types and numbers
  - Check assumptions against measured results
  - Add new measure
- Final model run

2010 Per Capita Use



40 gallon per day reduction per person

18 Program Measures

Measure Name	Category
CII Rebates to Replace Inefficient Equipment	Commercial Measures (Indoor)
Conservation Pricing	General Measures
Distribute Retrofit Kits	Residential Measures (Indoor)
Efficient Outdoor Use Education and Training Program	General Measures
Financial Incentives for Irrigation Upgrades	Irrigation Measures (Outdoor)
High Efficiency Toilet (HET) Rebates	Residential Measures (Indoor), Commercial Measures (Indoor)

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18 Program Measures (cont.)

Measure Name	Category
High Efficiency Urinal Rebate (<.5 gallon)	Commercial Measures (Indoor)
Irrigation Water Surveys (Water Checks)	Irrigation Measures (Outdoor)
Multifamily Washer Rebate	Residential Measures (Indoor)
Public Information Program	General Measures
Real Water Loss Reduction	General Measures
Replace Spray Nozzles	Commercial Measures (Indoor)
Rotating Sprinkler Nozzle Rebates	Irrigation Measures (Outdoor)
Single Family (SF) Water Surveys	Residential Measures (Indoor)

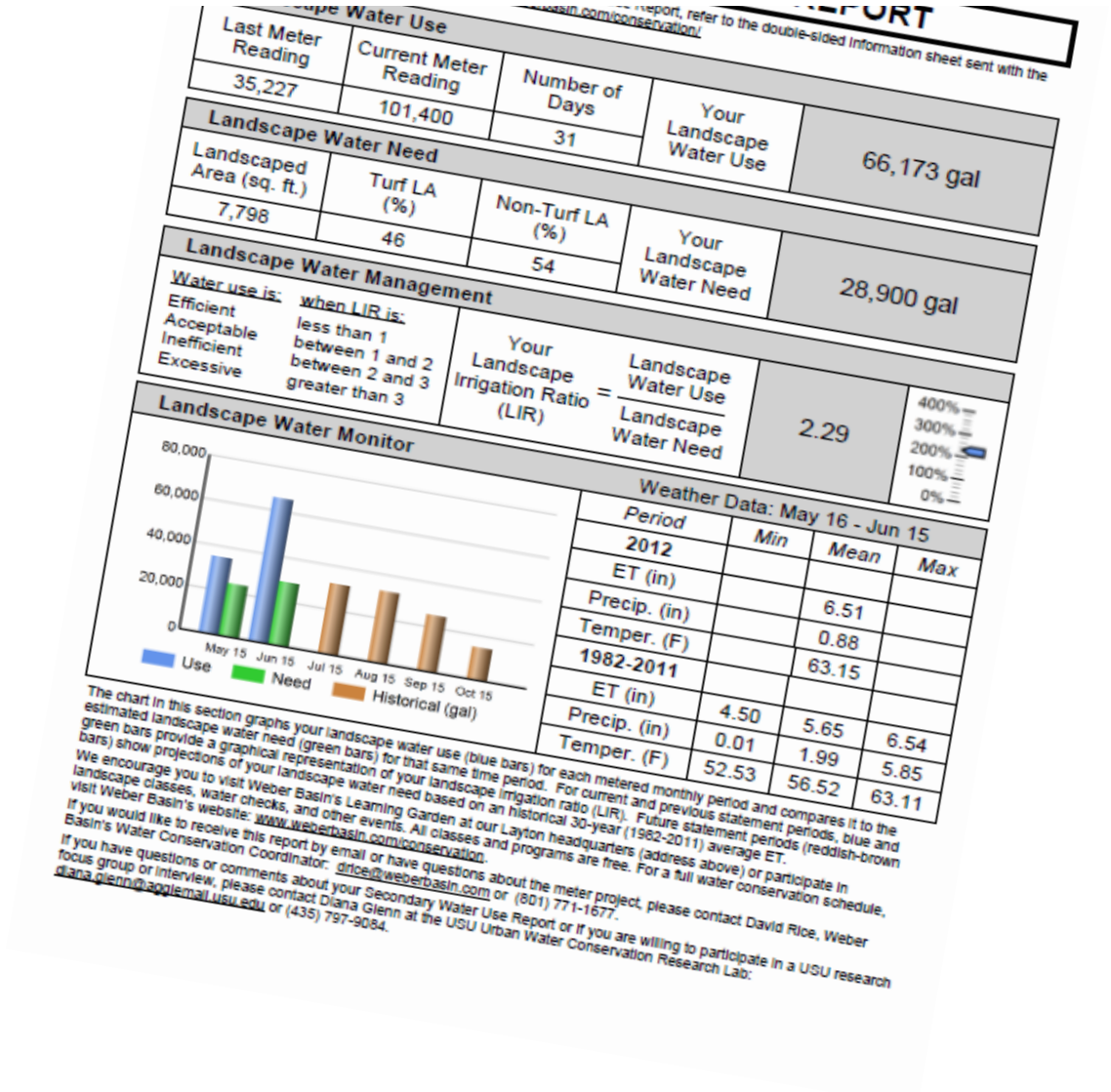
18 Program Measures (cont.)

Measure Name	Category
Smart Irrigation Controller Rebates	Irrigation Measures (Outdoor)
Toilet Leak Detection	Residential Measures (Indoor)
Train Landscape Maintenance Workers	Irrigation Measures (Outdoor)
Xeriscape Demonstration Gardens	Irrigation Measures (Outdoor)

5 Additional Measures

Measure Name	Category
Billing Report Educational Tool	General Measures
CII Surveys	Commercial Measures (Indoor)
Install High Efficiency Fixtures in Government Buildings	Commercial Measures (Indoor)
School Building Retrofit	Commercial Measures (Indoor)
Water Budgeting/Monitoring	General Measures

Billing Report Education Tool



Landscape Water Use

Last Meter Reading	Current Meter Reading	Number of Days	Your Landscape Water Use
35,227	101,400	31	66,173 gal

Landscape Water Need

Landscaped Area (sq. ft.)	Turf LA (%)	Non-Turf LA (%)	Your Landscape Water Need
7,798	46	54	28,900 gal

Landscape Water Management

Water use is:	when LIR is:	Your Landscape Irrigation Ratio (LIR)	= Landscape Water Use / Landscape Water Need	2.29
Efficient	less than 1			
Acceptable	between 1 and 2			
Inefficient	between 2 and 3			
Excessive	greater than 3			

Landscape Water Monitor

Weather Data: May 16 - Jun 15

Period	Min	Mean	Max
2012			
ET (in)		6.51	
Precip. (in)		0.88	
Temper. (F)		63.15	
1982-2011			
ET (in)	4.50	5.65	6.54
Precip. (in)	0.01	1.99	5.85
Temper. (F)	52.53	56.52	63.11

The chart in this section graphs your landscape water use (blue bars) for each metered monthly period and compares it to the estimated landscape water need (green bars) for that same time period. For current and previous statement periods, blue and green bars provide a graphical representation of your landscape irrigation ratio (LIR). Future statement periods (reddish-brown bars) show projections of your landscape water need based on an historical 30-year (1962-2011) average ET.

We encourage you to visit Weber Basin's Learning Garden at our Layton headquarters (address above) or participate in landscape classes, water checks, and other events. All classes and programs are free. For a full water conservation schedule, visit Weber Basin's website: www.weberbasin.com/conservation.

If you would like to receive this report by email or have questions about the meter project, please contact David Rice, Weber Basin's Water Conservation Coordinator: drice@weberbasin.com or (801) 771-1677.

If you have questions or comments about your Secondary Water Use Report or if you are willing to participate in a USU research focus group or interview, please contact Diana Glenn at the USU Urban Water Conservation Research Lab: diana.glenn@aggiemail.usu.edu or (435) 797-9084.

CII Surveys



Install HE Fixtures in Government Buildings



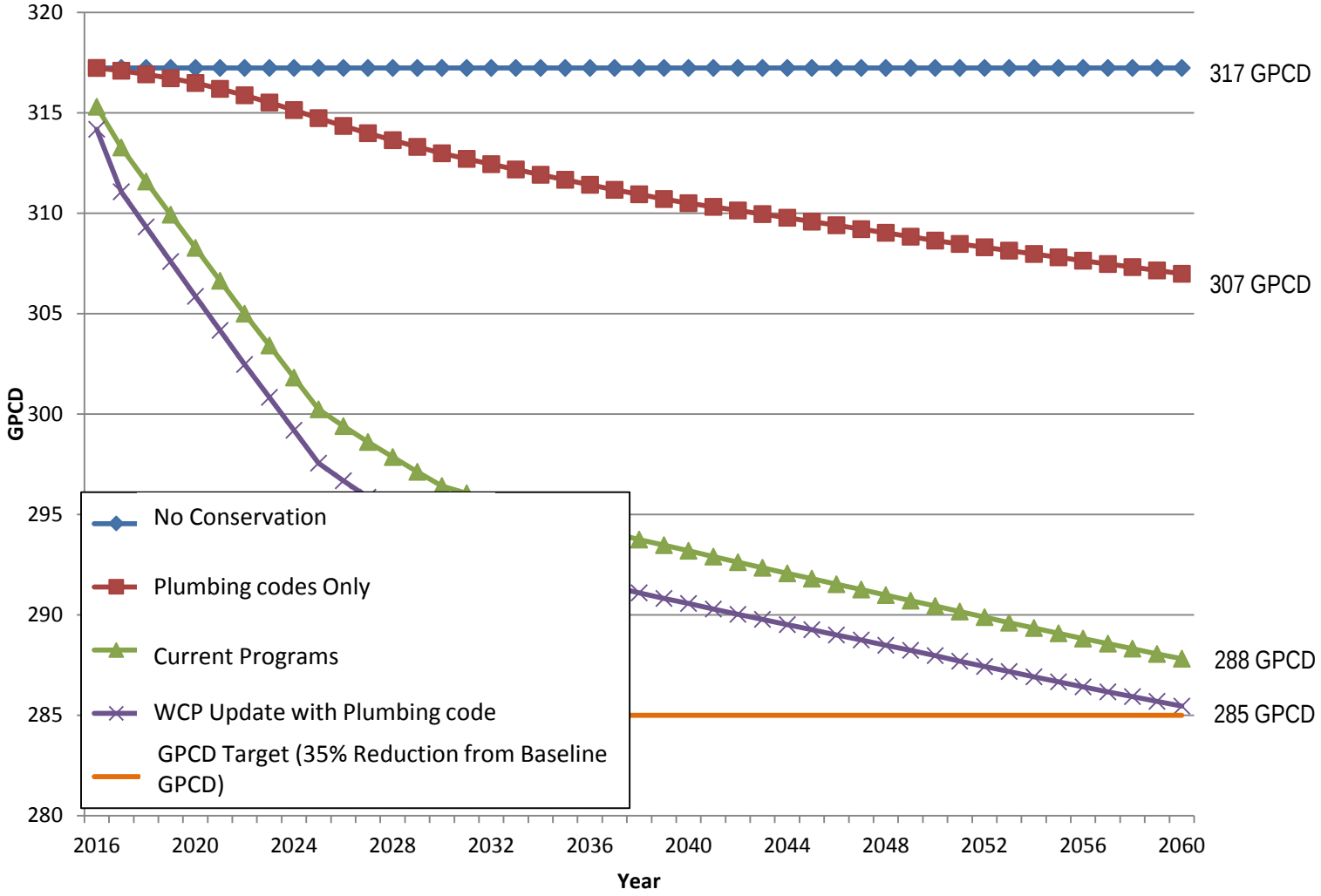
School Building Retrofit



Water Budgeting/Monitoring



MWM Model Results



Top Water Savers

Measure Number	Measure Description	Water Savings (MGD)
17	Real Water Loss Reduction*	2.1
9	Conservation Pricing*	2.1
27	Require Efficient Toilets and Urinals	1.0
22	Billing Report Education Tool**	0.8
2	Smart Irrigation Controller Rebates*	0.4
1	Financial Incentives for Irrigation Upgrades*	0.4

*Included in current plan
**Will be included in plan update

Best Cost Value

Community Cost	Measure Number	Measure Description	$/afy
	9	Conservation Pricing*	$200
	26	Water Budgeting/Monitoring**	$2,400
	17	Real Water Loss Reduction*	$2,970
	12	Replace Spray Nozzles*	$3,750
	21	School Building Retrofit**	$4,740

Utility Cost	Measure Number	Measure Description	$/afy
	9	Conservation Pricing*	$200
	26	Water Budgeting/Monitoring**	$800
	21	School Building Retrofit**	$1,870
	27	Require Efficient Toilets and Urinals	$2,000
	23	Multi-Family Submetering	$3,000

*Included in current plan

**Will be included in plan update

Program Summary

Program	Community PV Cost	Average Water Savings (MGD)	Community Cost ($/afy)
Present	$38,590,000	6.0	$5,768
Update	$44,881,000	6.9	$5,827

Plan Structure

CHAPTER 1: Introduction
CHAPTER 2: Water Resources: Current Water Supply
CHAPTER 3: Water Demand: Current Water Use
CHAPTER 4: Water Conservation: Achievements, Activities and Current Practices (BMPs)
CHAPTER 5: Future Water Resources and Demand Projections
CHAPTER 6: Water Conservation Recommendations and Goals
CHAPTER 7: Conclusion