



Polk Regional Water Cooperative Board Meeting

Conservation Team Update

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PRWC Conservation Project Manager

January 17, 2018

Water Information Technology/Water Savings Methodology

- 2016 FDEP Springs Protection Cooperative Funding Project
- 3 Separate Projects encompassing 7 different programs across 9 Utilities:

P920

Outdoor Best Mgt. Practices:

1. Wireless Rain Sensors
2. Smart Timer Rebates
3. Landscape Retrofit

P921

Indoor Incentives:

1. Toilet Rebate
2. Toilet with install rebate
3. Conservation Kits

P922

Florida Water Star Builder Rebates:

\$700 Rebate for each home built to FWS specifications and pass certification.

3 programs worth a total of \$1,274,700



How Water Savings Are Figured Using The District Cost Effectiveness Calculator:

Project	Estimated Savings per unit (gpd)	FY 2017 -2019 Number of Implementations	Estimated Program Savings (Savings * Units) (gpd)	Cost per Kgal saved	Program Total savings per year (Kgal)
Toilet Rebate	30.7	1520	46,664	\$0.48	17,032
Toilet with install rebate	30.7	310	9,517	\$1.19	3,473
Conservation Kit	23.9	1305	31,190	\$0.25	11,384
Wireless Rain Sensors	34	594	20,196	\$0.61	7,372
Smart Irrigation Controllers	80.7	229	18,480	\$1.77	6,745
FF Landscape Retrofit Rebate	266.4	49	13,054	\$2.86	4,765
FWS builder rebate	132.3	500	66,150	\$2.02	24,145
					99,171



¹ Cost per gallon saved = cost of the program/expected gallons saved

² Cost per Kgal saved/year = Cost per gallon saved/(expected ga/1000)*365)

Tracking 7 Programs X 9 Utilities With Different Budgets

Project Title Description		Indoor Conservation Incentives			Outdoor BMPs			Florida Water Star Rebates
		<u>Toilet rebates</u>	<u>Toilets w/ installation</u>	<u>Conservation Kits -</u>	<u>FFLandscape Rebate</u>	<u>Smart Irrigation Controllers</u>	<u>Wireless Rain sensor</u>	Rebates to builders
Total Estimated cost per implementation		\$100	\$400	\$10	\$4,000	\$400	\$75	
Auburndale	#	200	30	250	9	60	80	
	Cost	\$20,000	\$12,000	\$2,500	\$36,000	\$24,000	\$6,000	
Dundee	#	50	20	125		25	24	
	Cost	\$5,000	\$8,000	\$1,250	\$0	\$10,000	\$1,800	
Haines City	#	300	40	125	6	50	50	
	Cost	\$30,000	\$16,000	\$1,250	\$24,000	\$20,000	\$3,750	
Lake Alfred	#	50	20	125	2	24	60	
	Cost	\$5,000	\$8,000	\$1,250	\$8,000	\$9,600	\$4,500	
Lake Hamilton	#	5	5	50	1	5	5	
	Cost	\$500	\$2,000	\$500	\$4,000	\$2,000	\$375	
Lakeland	#	600	0	100	0	0	200	
	Cost	\$60,000	\$0	\$1,000	\$0	\$0	\$15,000	
Polk City	#	15	15	30	1	0	0	
	Cost	\$1,500	\$6,000	\$300	\$4,000	\$0	\$0	
Polk Co.	#	100	31.25	300	11	50	150	500
	Cost	\$10,000	\$12,500	\$3,000	\$44,000	\$20,000	\$11,250	\$350,000
Winter Haven	#	200	80	200	4	15	25	
	Cost	\$20,000	\$32,000	\$2,000	\$16,000	\$6,000	\$1,875	

Data Tracking: Consumption 12 Months Pre- Vs. 12 Months Post-

		12 months prior													
Loc ID	Address	-12	-11'	-10	-9	-8	-7	-6	-5	-4	-3	-2	Month of participation	Tot of 12 mos pre-	
158016	549 ALDRIDGE LN 17	8,000	10,000	25,000	24,000	27,000	31,000	8,000	3,000	4,000	3,000	13,000	7,000	163,000	
126718	527 WESTWIND DR 9	17,000	13,000	35,000	35,000	22,000	32,000	33,000	33,000	32,000	28,000	30,000	32,000	342,000	
161376	254 HIGHGATE PARK	20,000	22,000	21,000	23,000	22,000	20,000	19,000	22,000	19,000	19,000	24,000	20,000	251,000	
177534	320 SAN CARLO RD	10,000	11,000	3,000	10,000	4,000	9,000	13,000	10,000	27,000	56,000	36,000	12,000	201,000	
128550	315 GROSVENOR LO	10,000	2,000	9,000	12,000	9,000	11,000	9,000	11,000	13,000	37,000	11,000	11,000	145,000	
42,750	201 MAGNETA LOOP	24,000	60,000	62,000	68,000	53,000	34,000	45,000	50,000	46,000	37,000	50,000	9,000	538,000	
15247	1669 WATERVIEW LO	5,000	7,000	8,000	4,000	10,000	12,000	10,000	6,000	8,000	9,000	3,000	13,000	95,000	
		12 months post													
Loc ID	Address	+1	+2	+3	+4	+5	+6	+7	+8	+9	+10	+11	+12	Tot of 12 mos post-	
158016	549 ALDRIDGE LN 17	13,000	24,000	13,000	23,000	328,000	38,000	51,000	2,000	12,000	7,000	12,000	21,000	544,000	
126718	527 WESTWIND DR 9	2,000	2,000	1,000	6,000	6,000	3,000	3,000	6,000	2,000	4,000	4,000	3,000	42,000	
161376	254 HIGHGATE PARK	9,000	10,000	11,000	13,000	11,000	12,000	14,000	7,000	11,000	6,000	4,000	4,000	112,000	
177534	320 SAN CARLO RD	10,000	11,000	11,000	18,000	13,000	13,000	18,000	8,000	8,000	9,000	7,000	9,000	135,000	
128550	315 GROSVENOR LO	12,000	15,000	8,000	18,000	15,000	10,000	18,000	11,000	14,000	11,000	11,000		143,000	
42,750	201 MAGNETA LOOP	8,000	10,000	7,000	10,000	8,000	10,000	8,000	9,000	8,000	9,000	10,000	15,000	112,000	
15247	1669 WATERVIEW LO	10,000	10,000	10,000	7,000	10,000	14,000	17,000	9,000	3,000	7,000	3,000	3,000	113,000	

Program Tracking:



Utilities advertise through bills, websites, events, PRWC



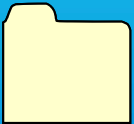
Customers contact their Utility

Utility confirms customer eligibility for program(s)

Customer submits application and required backup documentation



Utility confirms proper documents and issues rebate or giveaway item, and records names, dates, addresses and check numbers in their Tracking Spreadsheet



Utility uploads all spreadsheet and customer backup information quarterly to a common drive, as well as generating invoices to PRWC.



PRWC Project Manager uses a Merge file to combine all spreadsheet information relevant to that billing quarter and generates 3 invoices to the District. All backup files are stored for future reference.



District invoices FDEP, who reimburses District

District reimburses PRWC who reimburses Utilities

2019-20 Cooperative Funding applications have been submitted to SWFWMD

Project	Estimated Savings per unit (gpd)	2018 -2019 Number of Implementations	Estimated Savings (gpd)	
Toilet Rebate	30.7	1120	34,384	
Enhanced Conservation Kit	23.8	1250	29,750	
Conservation Kit	23.9	1205	28,800	
Wireless Rain Sensors	34	400	13,600	
Smart Irrigation Controllers	80.7	200	16,140	
FF Landscape Retrofit Rebate	266.4	7	1,865	
L&I Evaluation	* 272	300	81,600	
Total Estimated savings	206,139 gal/day		Total Project Cost	
Water Demand Management Plan (2 year study)			Total Project Cost	\$340,000



Your region, Your water, Your voice at the table

Our Mission

Polk County and Municipalities working together to develop strategies to promote water conservation within the Polk Regional Water Cooperative.

Rebates Now Available!

[Apply Now](#)



Landscape & Irrigation Incentives Program

Financial incentives to help offset the cost of changing out high water use landscape components.

- Florida Friendly Landscape Retrofit
- Smart Irrigation Controllers



Plumbing Retrofit Incentive Program

A water conservation incentive program that offers toilet rebates to customers who change 3.5 or greater gallons per flush toilets to 1.28 or less gallons per flush toilets.

- Toilet rebates



Florida Water Star Builder Certification & Rebate Program

This program provides rebates to home builders within Polk County who build Florida Water Star certified homes.

For more information visit: FloridaWaterStar.com

Rebates and Incentives

For an application or more information about the available programs, please use the links or contact information provided for your utility.

If you have any questions or do not see your utility listed, please contact us at conservation@polkwater.org.



Auburndale

Available Programs
Conservation Kits
Florida-Friendly Landscaping
Conversion
Rain Sensors
Smart Controllers
Toilet Rebates
Toilet Vouchers

[Email](#)

[\(888\) 985-8500](tel:(888)985-8500)



Dundee

Available Programs
Conservation Kits
Rain Sensors
Smart Controllers
Toilet Rebates
Toilet Vouchers

[Email](#)

[\(888\) 428-8330](tel:(888)428-8330)



Haines City

Available Programs
Conservation Kits
Florida-Friendly Landscaping
Conversion
Landscape & Irrigation Evaluations
Rain Sensors
Smart Controllers
Toilet Rebates
Toilet Vouchers

[Website](#)

[Email](#)

[\(888\) 421-3888](tel:(888)421-3888)



Lake Alfred

Available Programs
Conservation Kits
Rain Sensors
Toilet Rebates

[Email](#)

[\(888\) 295-8455](tel:(888)295-8455)



Lake Hamilton

Available Programs
Florida-Friendly Landscaping
Conversion
Rain Sensors
Smart Controllers
Toilet Rebates
Toilet Vouchers

[Email](#)

[\(888\) 428-1210](tel:(888)428-1210)



Lakeland

Available Programs
Conservation Kits
Landscape & Irrigation Evaluations
Toilet Rebates

[Website](#)

[Email](#)

[\(888\) 884-8180](tel:(888)884-8180)



Polk City

Available Programs
Conservation Kits
Florida-Friendly Landscaping
Conversion
Toilet Rebates
Toilet Vouchers

[Email](#)

[\(888\) 984-1375](tel:(888)984-1375)



Polk County

Available Programs
Conservation Kits
Florida-Friendly Landscaping
Conversion
Landscape & Irrigation
Evaluations
Rain Sensors
Smart Controllers
Toilet Rebates

[Website](#)

[Email](#)

[\(888\) 295-4228](tel:(888)295-4228)



Winter Haven

Available Programs
Conservation Kits
Florida-Friendly Landscaping
Conversion
Landscape & Irrigation Evaluations
Rain Sensors
Smart Controllers
Toilet Rebates

[Website](#)

[Email](#)

[\(888\) 295-8455](tel:(888)295-8455)

www.SavePolkWater.org

Rebate and Incentive Page

www.SavePolkWater.org

Next Steps:

Residential Homeowners Page

Each subject has a one-page write-up and links to resources

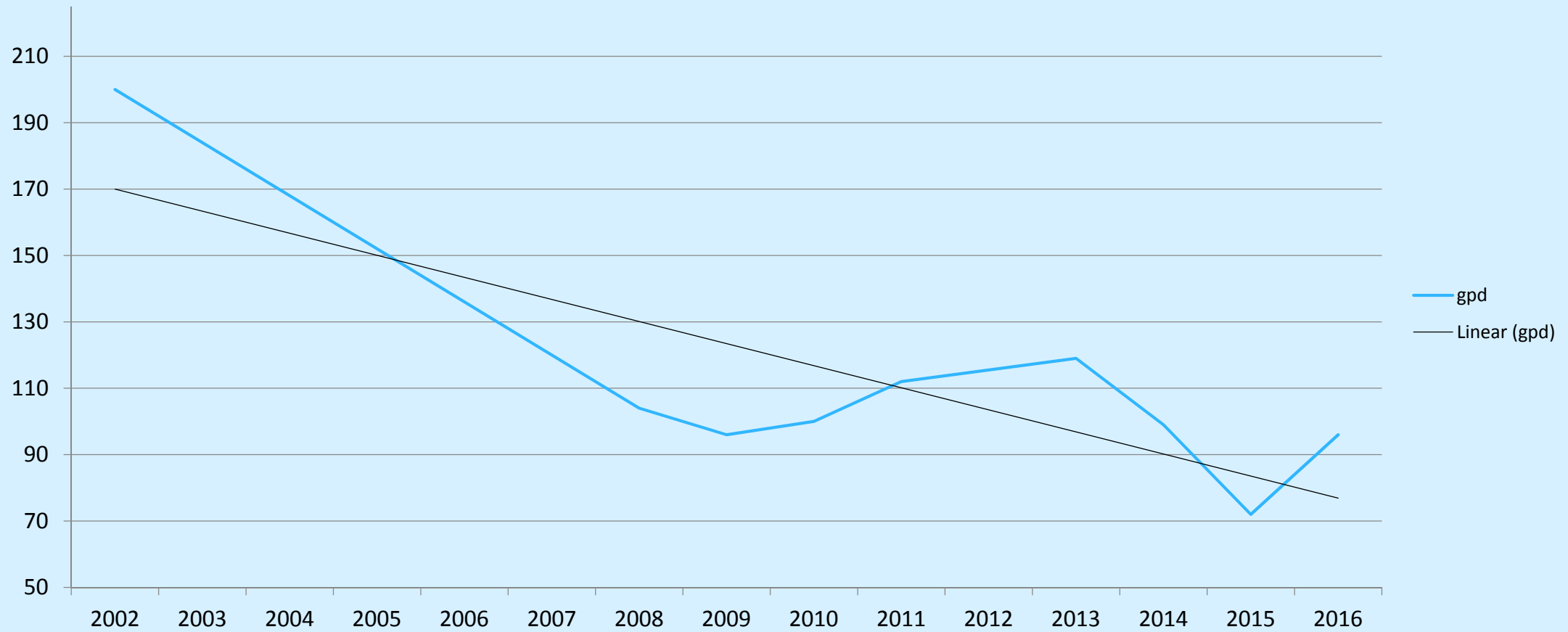
- How to Self-Audit your Irrigation System
- Micro Irrigation
- Rain Sensors
- Irrigation Timers
- Irrigation Repairs
- Irrigation Restrictions
- Rain Barrels and Cisterns

Resource Library

PDFs downloaded from UF IFAS and SWFWMD

- Micro irrigation
- Florida-Friendly Fertilizing
- Florida-Friendly Landscaping Principles
- Basic Repairs & Maintenance
- Energy Efficient Homes: The Irrigation System
- Micro Irrigation
- Plant Selection and Landscape Design
- And much more

NERUSA per capita



Advertising

Your Conservation team is looking into cost-effective ways to advertise, not only to support our rebates and incentives, but also to project the urgency of conserving water now to allow future growth and help defray costs.

Now:

Social Media posts

Bill stuffers

Bill notifications

Utility Websites

Future Possibilities:

Lowe's and Home Depot flyers

TV public ads with LGTV and PGTV

Begin attending events and setting up tent and table for information distribution



Questions?



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