



Implementing Water 2070: Water Conservation Planning for Florida Communities

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About 1000 Friends of Florida:

- Founded in 1986, 1000 Friends of Florida is a 501(c)(3) nonprofit membership organization.
- We work to save special places and build better communities.
- We educate, advocate and negotiate to protect Florida's high quality of life.
- Our bipartisan board of directors includes advocates and experts from across the state.
- Visit www.1000friendsofflorida.org/alerts/ to sign up for email alerts!
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Dr. John M. DeGrove Webinar Series



- May 4, 1924 – April 13, 2012
- Icon of comprehensive planning both in Florida and across the nation
- One of the founders of 1000 Friends of Florida
- First Secretary of the Florida Department of Community Affairs
- His accomplishments recognized with the John M. DeGrove Eminent Scholar Chair in Growth Management and Development at Florida Atlantic University
- To find out more, please visit:
www.1000friendsofflorida.org/dr-degrove/



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We hope to offer the remaining 2017 webinars free of charge but have not yet received sufficient sponsorships. If you join our webinars on a regular basis, we hope you will consider an **annual contribution of \$75 to support the DeGrove Webinar Series.**

You may donate on-line at www.1000friendsofflorida.org/donate-now/

(Designate it for DeGrove Education Fund)

<https://www.1000friendsofflorida.org/donate-now/?program=2>

OR

Email vyoung@1000fof.org for more information



The PowerPoint is available at www.1000friendsofflorida.org

The screenshot shows the homepage of 1000 Friends of Florida. The header features the organization's logo and a navigation menu with items like 'About Us', 'Building Better Communities', 'Saving Special Places', 'Planning Tools', and 'Outreach!'. A large banner image depicts a city street scene with a trolley and the text 'Building Better Communities'. Below the banner, there are several news items:

- Our Vision for Florida's Future...**: A section with a red circle around the title. The text describes a vision for vibrant cities and towns. A red circle highlights the 'What's New' sub-section.
- Planning for Sea Level Rise in Broward County Webinar on October 8**: A news item with a 'Read More >' link.
- Scale Back Minto West**: A news item about development in western Palm Beach County.
- Survey on Climate Change/Sea Level Rise**: A news item about a community survey.
- 1000 Friends Honors Lee Constantine**: A news item honoring a leader in conservation.
- Register Now for Fall Webinars**: A call to action at the bottom.

The screenshot shows the GoToTraining software interface. At the top, there are menu options: 'File', 'Options', 'View', and 'Help'. The main area displays various controls for a presentation:

- Audience View**: Set to 100%.
- Screen Sharing**: A section with a 'Paused' status and buttons for 'Show My Screen', 'Stop Showing Screen', 'Give Keyboard & Mouse', and 'Change Presenter'.
- Start Recording**: A button indicating 72.9 GB remaining.
- Webcam**: A section with 'Audio' and 'Telephone' options.
- Dashboard**: A section with 'Materials (0)' and 'Polls (0/0) and Tests (0/0)'.
- Chat**: A section with a text input field and a 'Send' button.

At the bottom, there is a 'GoToTraining' logo and a date/time stamp: 'September 9 at 10 a.m. Test Run for September 10'.



This webinar has been approved for:

- 1.5 AICP CM CREDITS for planners (#9115194)
- 2 CLE credits for Florida attorneys (#1608561N)
- 1.5 Contact Hours for Florida Environmental Health Professionals
- No credits for Certified Floodplain Managers

There is a link to a **BRIEF SURVEY** in the follow-up email you will receive. Please take a few minutes to give us feedback!

<https://www.surveymonkey.com/r/waterplanning>



Upcoming Dr. John M. DeGrove Webinars

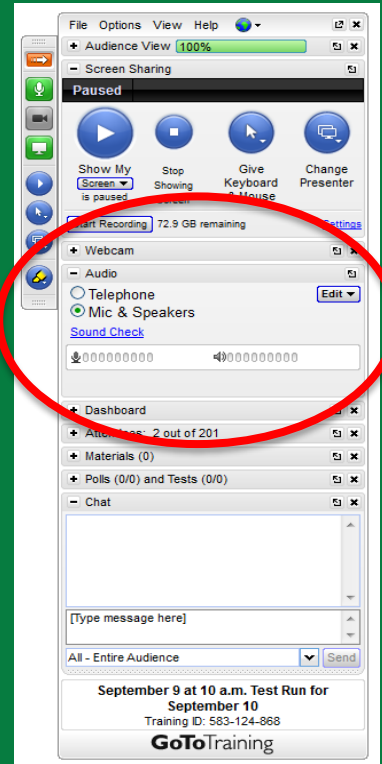
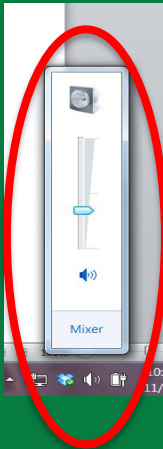
We are now planning the Spring 2017 webinar series.
All webinars are noon to 1:30 unless otherwise noted.

- **Register Now!** Wednesday, March 22 – 2017 Florida Legislative Update
- April Topic Pending
- Wednesday, May 17 – 2017 Florida Legislative Wrap Up

Visit www.1000friendsofflorida.org/webinar/
to find out more!



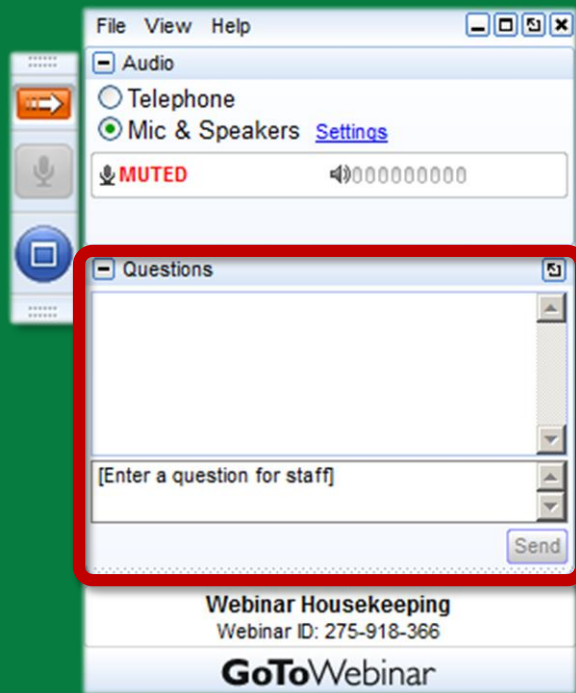
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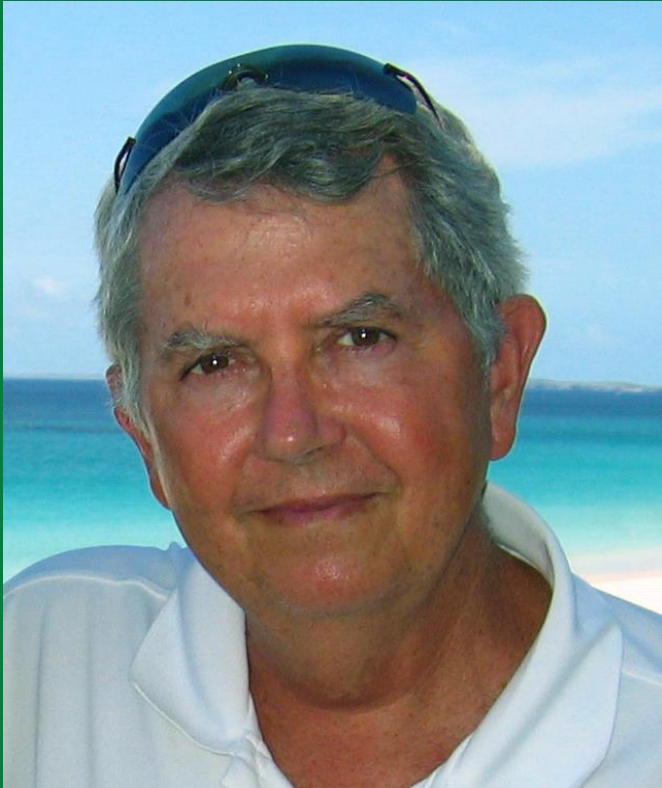
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- Your webinar control panel includes a “Questions” box
- Please click on “+” sign and type any questions in this box
- Please refer to the slide number and/or speaker when you post your question
- Please keep your questions succinct!
- Staff will ask the presenters questions, as time permits



Presenters





- Professor at the University of Florida
- Directs Program for Resource Efficient Communities
- An interdisciplinary group that promotes the adoption of “best design, construction and management practices” in master planned developments
- Program directly participates in land development and building projects that adopt and demonstrate “green” practices
- PhD in Mechanical Engineering from the University of Florida in 1980



- Works with the University of Florida - Program for Resource Efficient Communities (PREC) as an IFAS State Specialized Extension Agent
- Research interests include utility data analysis to identify effective water and energy conservation measures and evaluation of land development impacts
- Also coordinates research and outreach efforts between PREC, regional utility providers, governmental agencies and non-profit groups.

Implementing Water 2070



Implementing Water 2070: Water Conservation Planning for Florida Communities

Pierce Jones & Nick Taylor
Program for Resource Efficient Communities



Program for Resource Efficient Communities

We promote application of design, construction and management practices that minimize environmental degradation and make more efficient use of energy, water and other natural resources in master planned communities.



Florida Land Development

Florida Land Development

Population

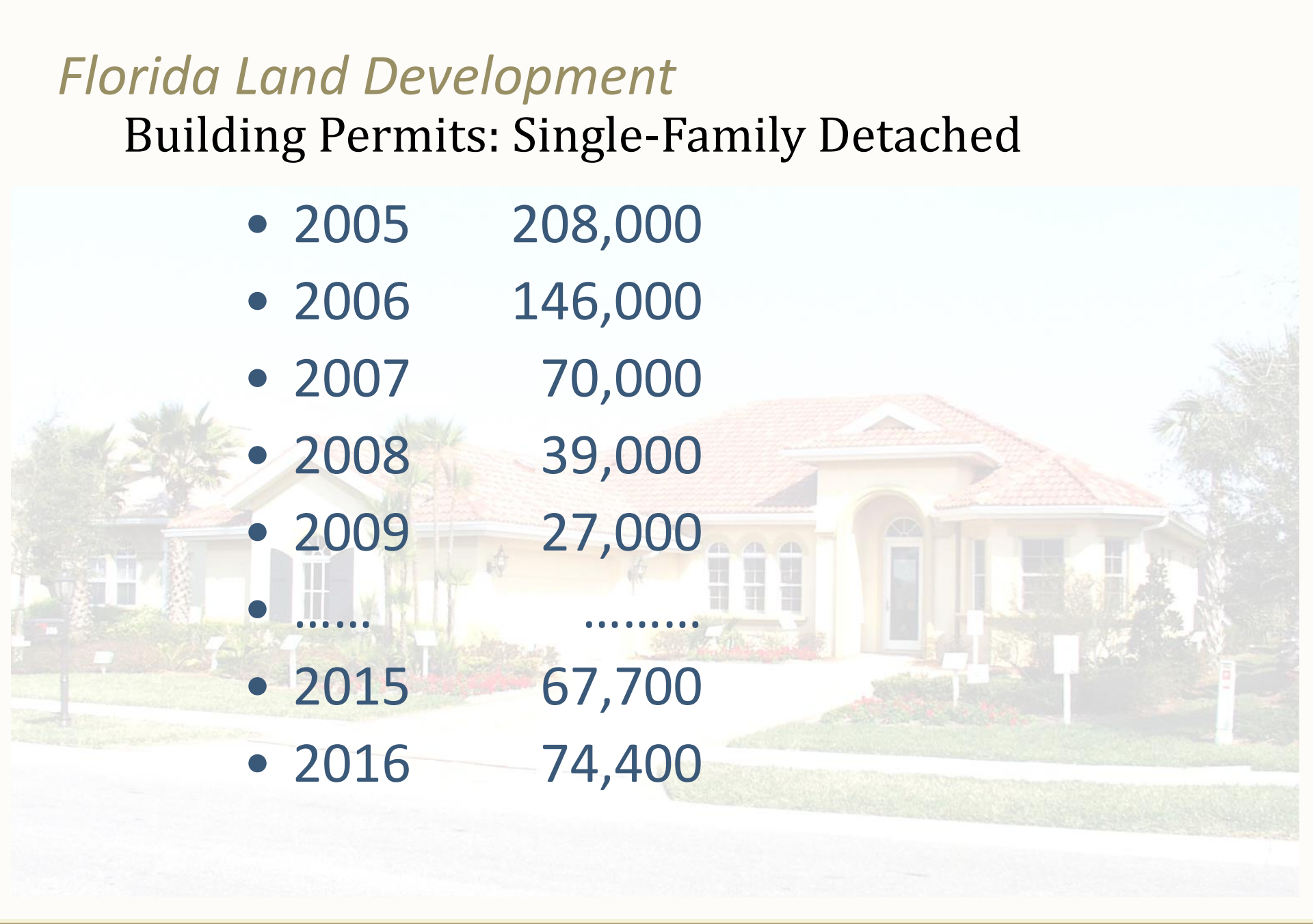
- 1980 10,000,000
- 2005 17,000,000
- 2030 28,000,000



Florida Land Development

Building Permits: Single-Family Detached

- 2005 208,000
- 2006 146,000
- 2007 70,000
- 2008 39,000
- 2009 27,000
-
- 2015 67,700
- 2016 74,400



Florida Land Development



The Bonita Bay Group

Careers | Subscribe | Site Search | Home

Our Communities

- ▶ Golf Courses & Marina
- ▶ New Projects
- ▶ Our Philosophy
- ▶ Affiliated Businesses
- ▶ Press Room
- ▶ Refer A Friend
- ▶ Contact Us



Welcome to The Bonita Bay Group

The Bonita Bay Group™ offers exceptional community living with its environmentally sound development philosophies and innovative designs. Residents enjoy traditional neighborhood gathering spots, recreational facilities and access to community parks that blend seamlessly with surrounding habitats.

Distinctive Lifestyle Experiences

Bonita Bay

MEDITERRA

THE BROOKS

Verandah

Shadow Wood
PRESERVE

the estates at
TWINEAGLES

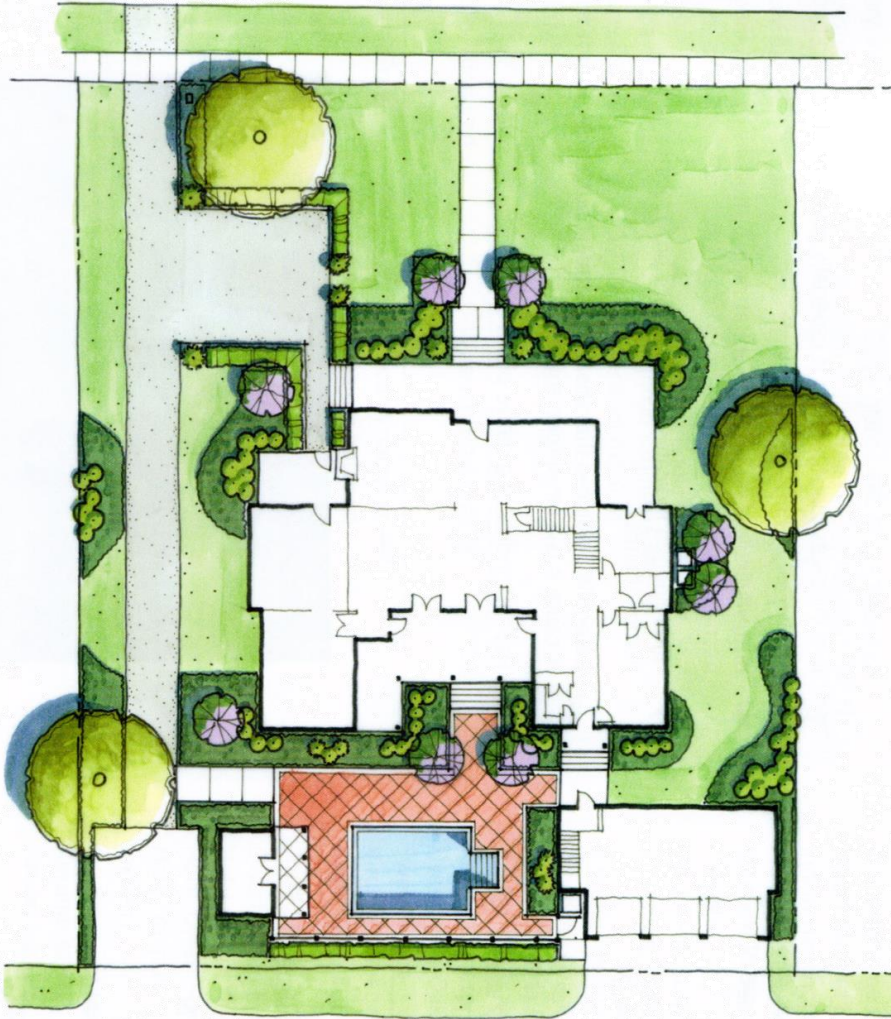
SWEETWATER
LANDING

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Florida Land Development Oakland Park



Florida Land Development Oakland Avenue Lot



FRONT YARD

Trees minimum of 2 canopy trees
and 2 accent trees
Shrubs 20% minimum
Groundcover . . 15% minimum
Turf 60% maximum

SIDE YARD

Trees minimum of 1 canopy tree
and 2 accent trees
Shrubs 30% minimum
Groundcover . . 0% minimum
Turf 70% maximum

ALLEY YARD

Shrubs 30% minimum
Groundcover . . 0% minimum
Turf 70% maximum

Florida Land Development Conventional Practice



Florida Land Development Conventional Practice



St. Petersburg Times

Man jailed for brown lawn gets help from neighbors

By Erin Sullivan, Times Staff Writer
In print: Monday, October 13, 2008

BAYONET POINT — "He's in prison for God knows how long because we can't afford to sod the lawn," said his sobbing daughter, Jennifer Lehr.

Prudente has owned a home in the deed restricted community since 1998. The covenants require homeowners to keep their lawns covered with grass.



*Free from jail, Joseph Prudente, 66, inspects his new lawn with pride Sunday. Prudente, who says he barely has enough to pay the mortgage, was **jailed for having a brown lawn.***

Development Impacts:
Water Supply

St. Petersburg Times

Tampa Bay Water makes last withdrawal from tapped out reservoir

*By Craig Pittman, Times Staff Writer
In Print: Saturday, March 14, 2009*

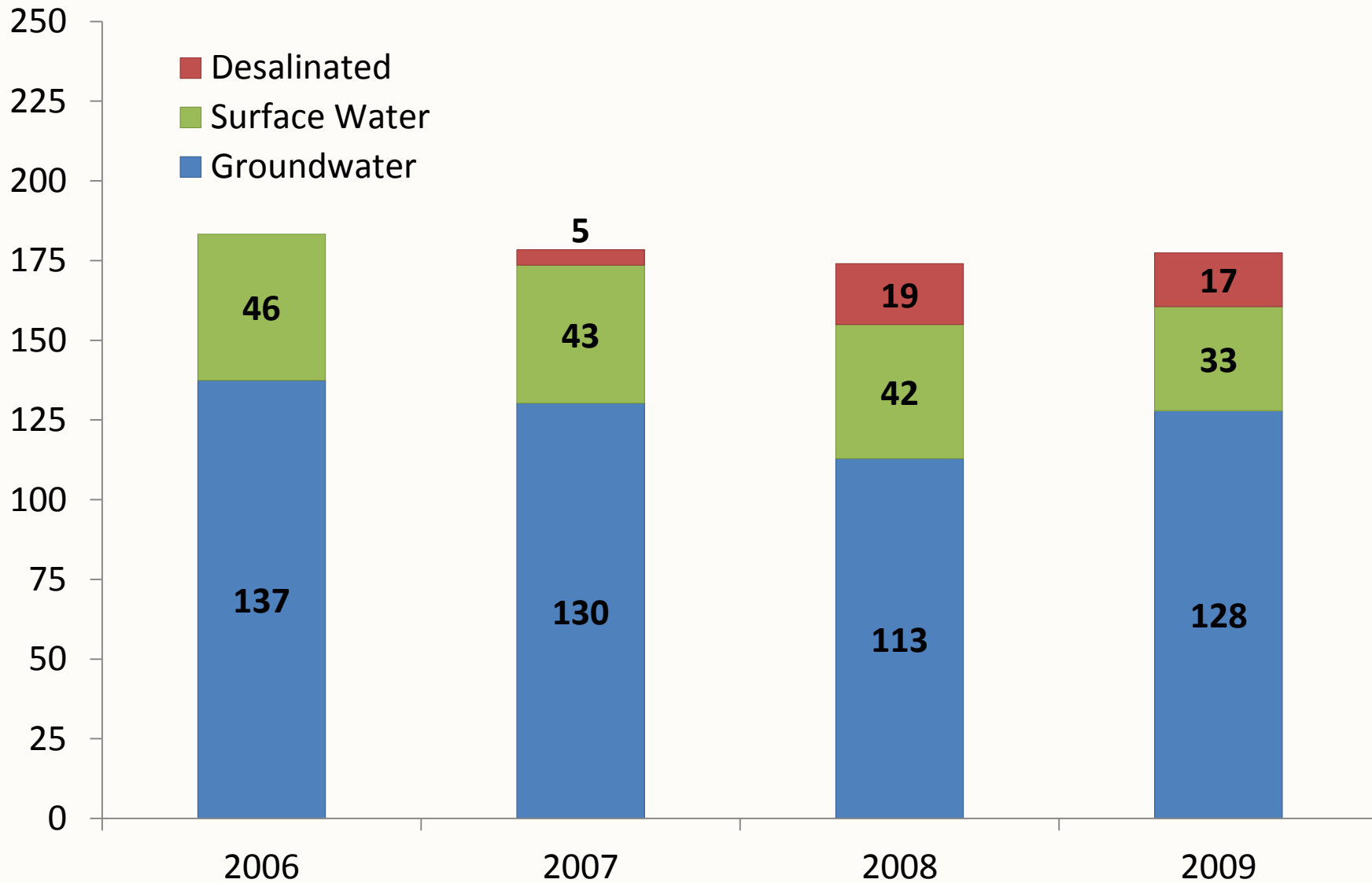
Get used to having a brown lawn for a while. As of this week, Tampa Bay Water has virtually drained its 15 billion-gallon reservoir.



From now until the summer rainy season, it must rely on its two remaining sources of water: its sometimes troubled desalination plant and the dwindling supply in the underground aquifer. "It's going to be a long couple of months waiting for the rainy season," Tampa Bay Water spokeswoman Michelle Robinson said Friday.

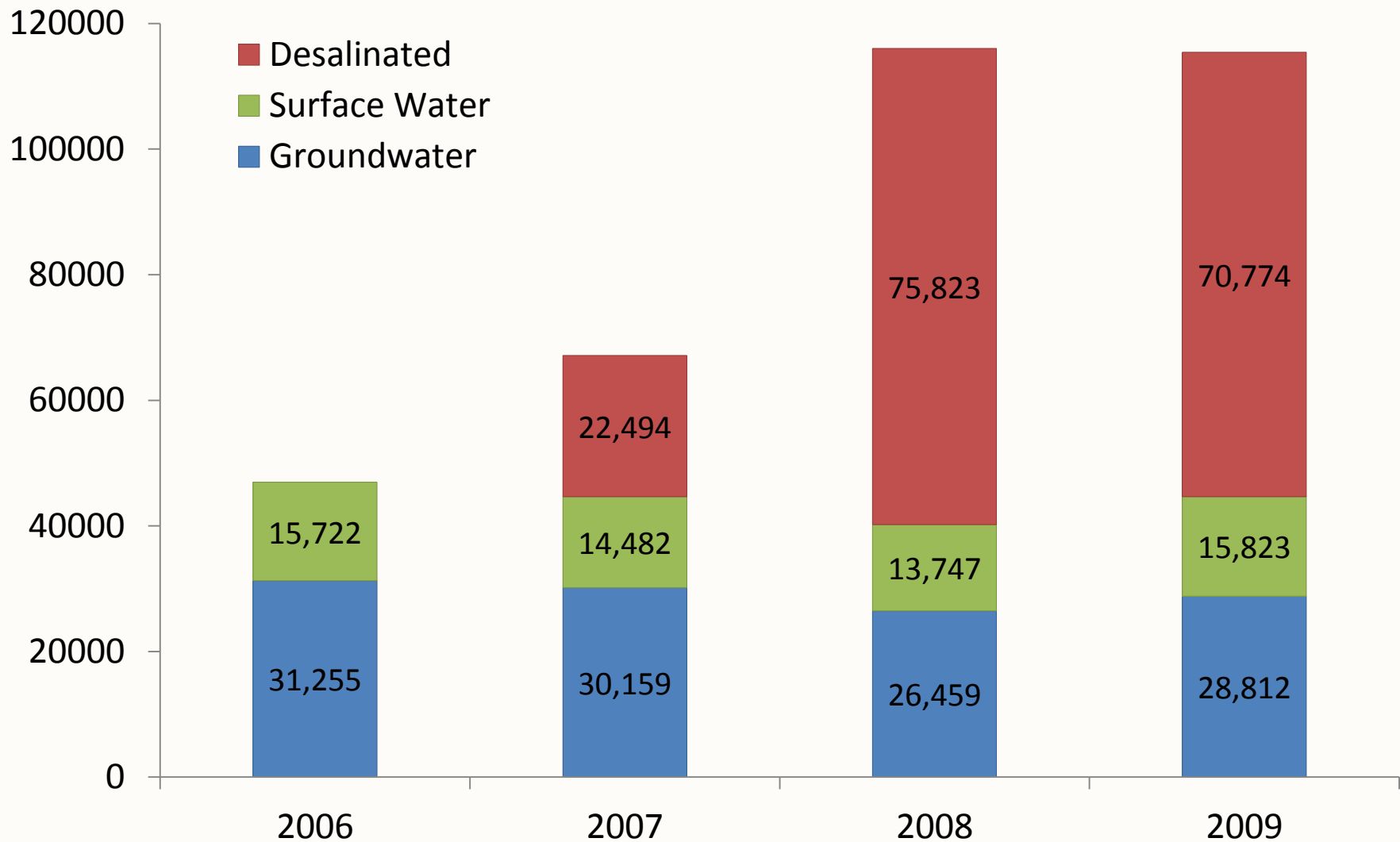
Water Supply

TBW Annual Production by Supply Type (MGD)

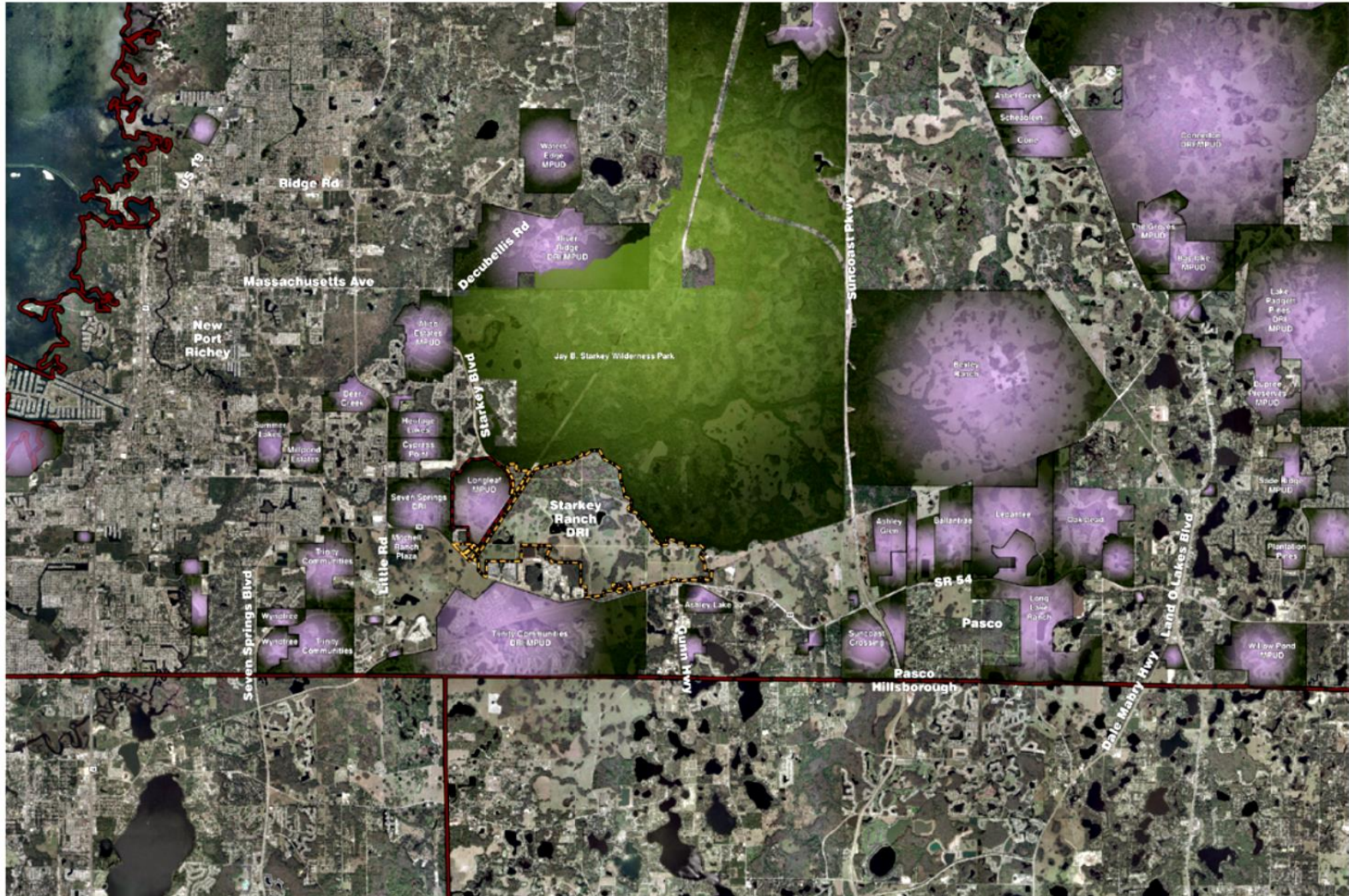


Water Supply

TBW Carbon Footprint by Supply Type (mtons CO₂e)



Florida Land Development Pasco County



Development Impacts:
Landscaping

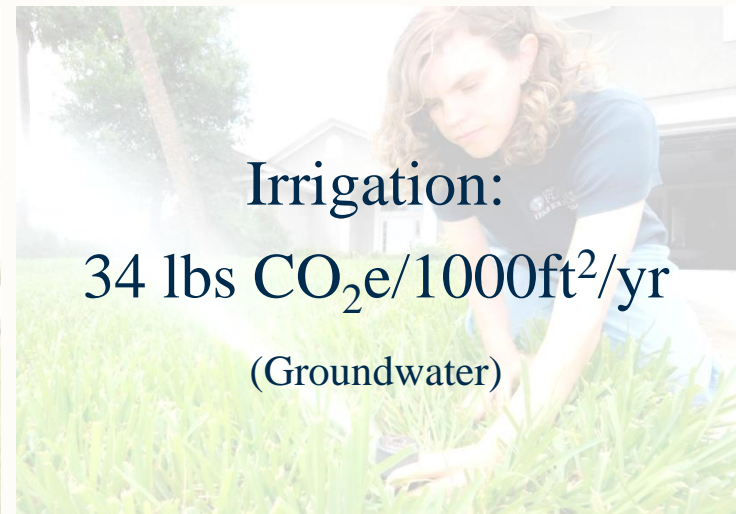
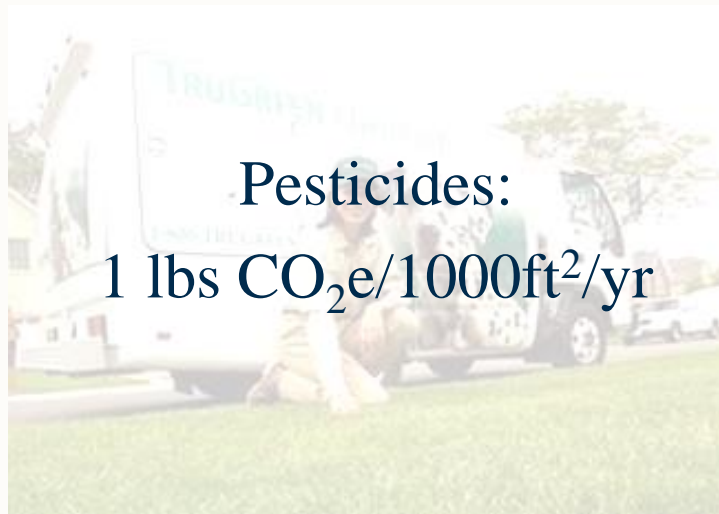
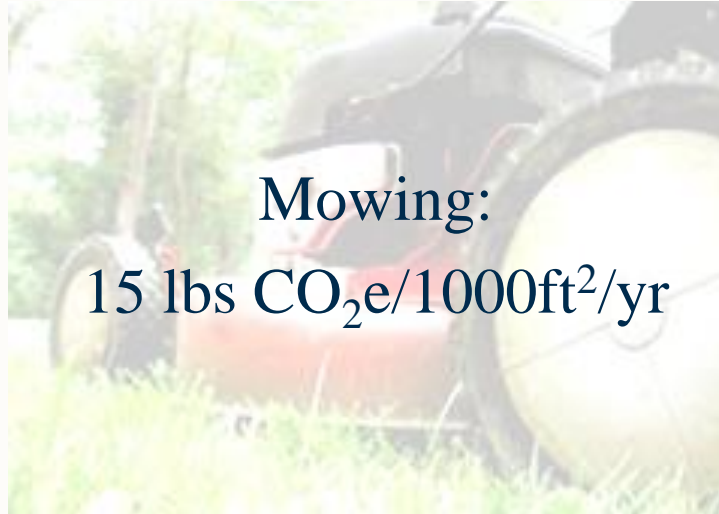
Landscaping Impacts

Conventional Practice



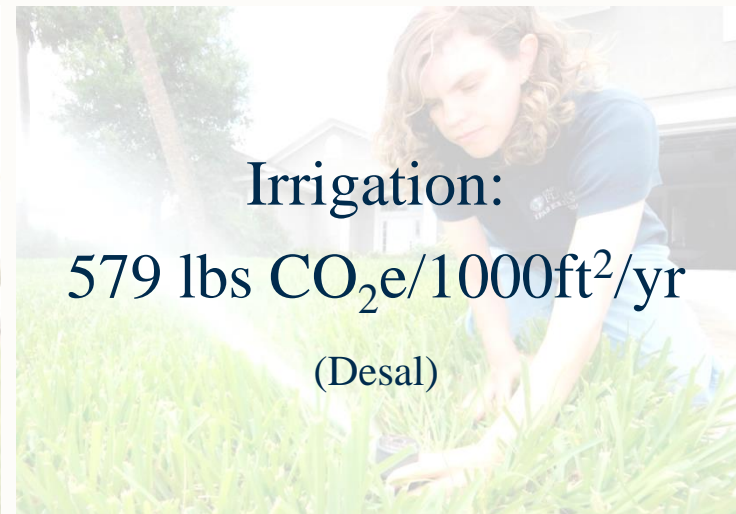
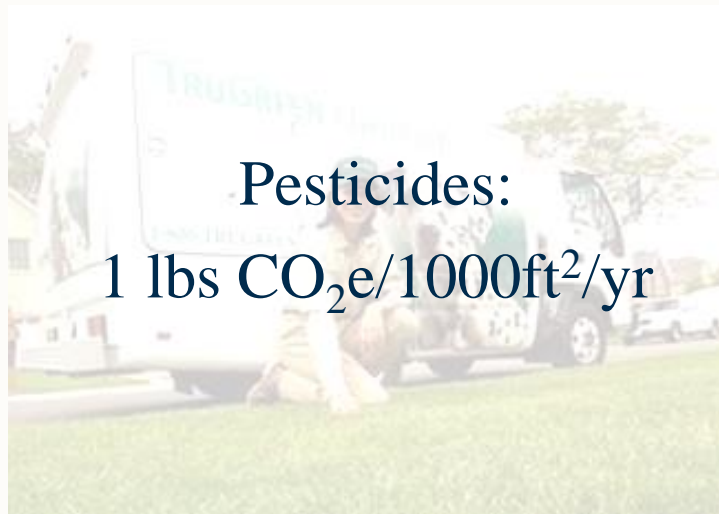
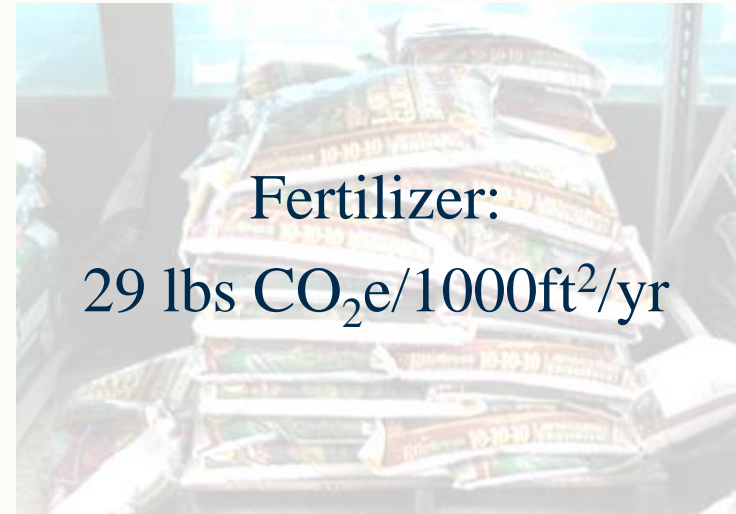
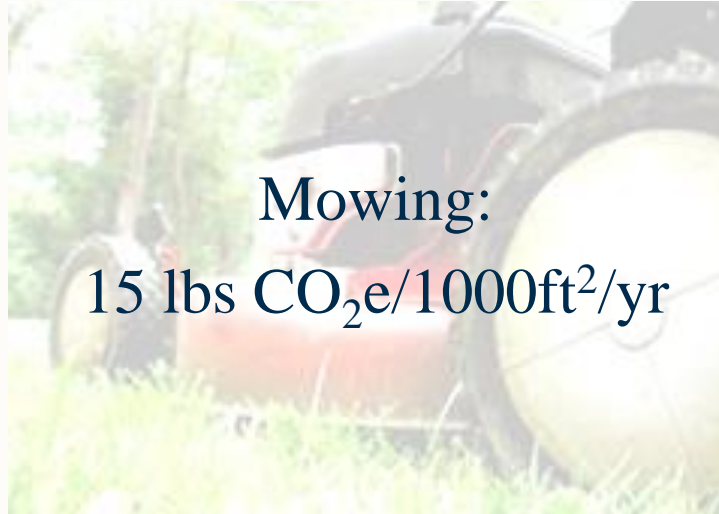
Landscaping Impacts

Greenhouse Gas Accounting (Groundwater)



Landscaping Impacts

Greenhouse Gas Accounting (Desal)



Development Impacts:
Water Consumption Patterns

Uniform Land Development Code

Alachua County ULDC 406.12 (a)4 – Landscaping

- Setbacks
- 30 percent or more of the site will be under mature canopy within 20 years. Staff must confirm that the HOA includes provisions for tree planting and maintenance...
- Final approval shall include as-built landscape plan certification from a registered landscape architect certifying that the landscaping is installed and functioning as intended, that prohibited and discouraged non-native vegetation listed in Table 406.16.2 has been removed, and that all of the provisions of this Chapter have been met.
- The land owner shall submit a Certificate of Compliance, in a form acceptable by the Director, to the County as a condition of issuance of a Certificate of Occupancy.

Arbor Greens

2014 Phase 2 Review





Alachua County

Development Review Committee

Staff Report

Project Number: 2013052002_F

***Final Development Plan and Plat for
Arbor Greens Planned Development (PD) – Phase 2, Unit 1***

Water and Wastewater Services

This development is located in the Urban Cluster and will connect to central water and sanitary sewer provided by Gainesville Regional Utilities.

Plum Creek's Proposal:
Envision Alachua



A community discussion on the future of East County
CONVENED BY PLUM CREEK



Community Workshops

East County Educators Committee

Envision Alachua Process

Envision Alachua Task Force

Envision Alachua Technical Advisory Group

Models of Innovation Series

Why Here? Why Now?

Request a Presentation



welcome
A community planning process shaping the future of Alachua County on lands owned by Plum Creek.
2013 AWARD OF EXCELLENCE IN BEST PRACTICES
FLORIDA CHAPTER, AMERICAN PLANNING ASSOCIATION

the vision is getting clearer...



sector plan application

news and features

The Envision Alachua Sector Plan application was shaped by the community and has been submitted to Alachua County for its review.



December 27, 2013: A boon for eastern Alachua County?

The Plum Creek Timber Company has spent 2½ years...



Members of the Envision Alachua Task Force answer the question, "Why Here? Why Now?"



A community discussion on the future of East County

CONVENED BY PLUM CREEK

 SIGN UP for EMAIL UPDATES

 INTERACTIVE PROPERTY MAP

Community Workshops

East County Educators Committee

Envision Alachua Process

Envision Alachua Task Force

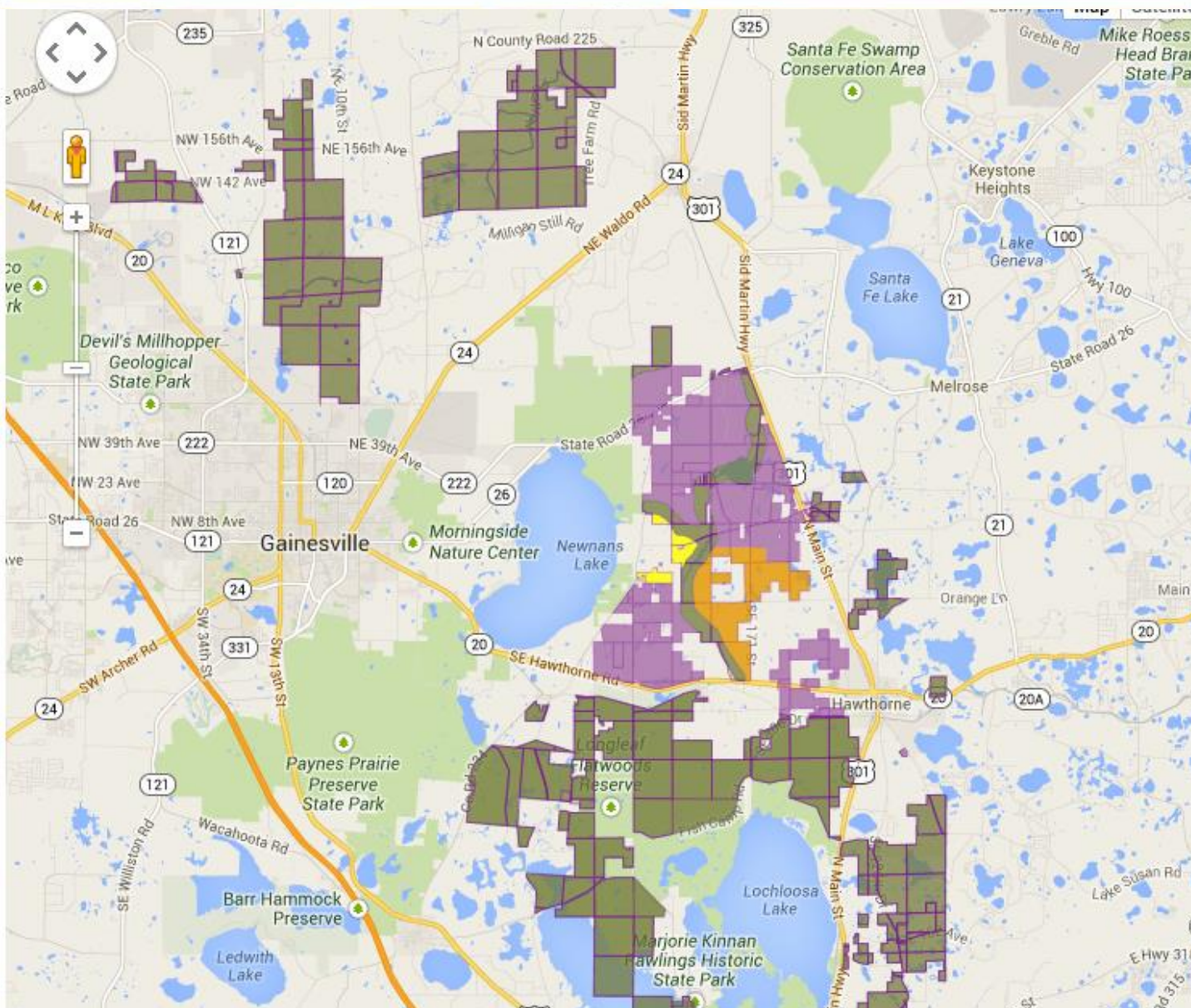
Envision Alachua Technical Advisory Group

Models of Innovation Series

Why Here? Why Now?

Request a Presentation

 AWARDS AND RECOGNITION



PLANNING PRINCIPLES

Goal D

Water

Address long-term needs for water supply, water quality and water conservation



- Identify and protect water recharge areas
- **Develop communities that optimize water conservation and achieve a 50 percent or greater reduction in water usage based on current usage**
- Apply Florida-friendly guidelines for landscaping
- Demonstrate leadership in resource management by promoting and adopting innovative ways to meet water needs
- Capture, treat and reuse storm water to the maximum extent feasible

Water Consumption Patterns:
Alachua County

Residential Water Consumption Baselines

Alachua County, FL

Dwelling Units in Sample - 5,180 :

- All units constructed since 2000
- Single-family detached in 28 neighborhoods - 3,035
- Apartments in 10 complexes - 1,420
- Condominiums in 18 associations - 735

Baseline Metrics:

- Metered water use in years 2009, 2010 and 2013
- Average gallons per day (gpd) per household

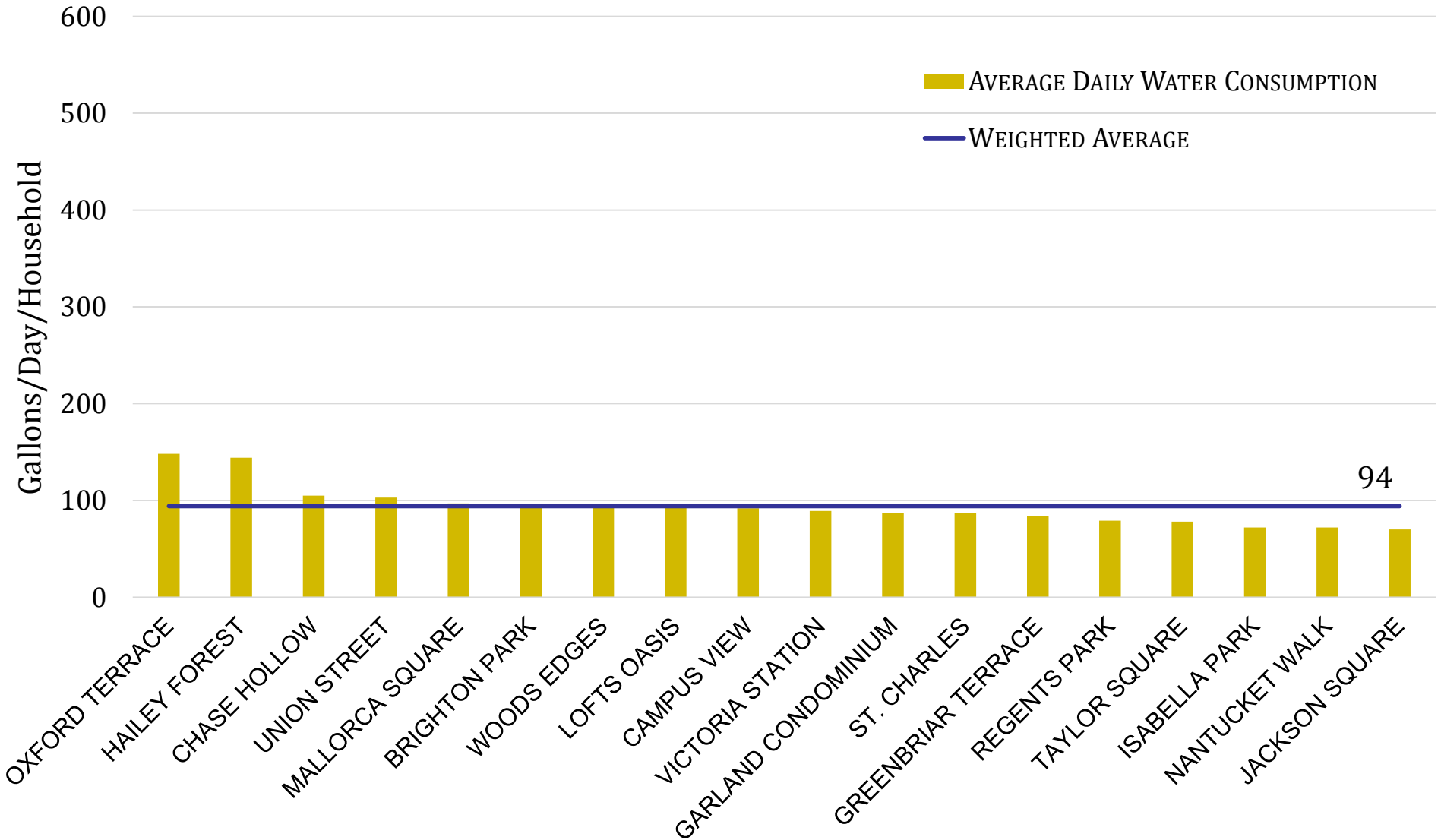
Condominiums

Union Street Station

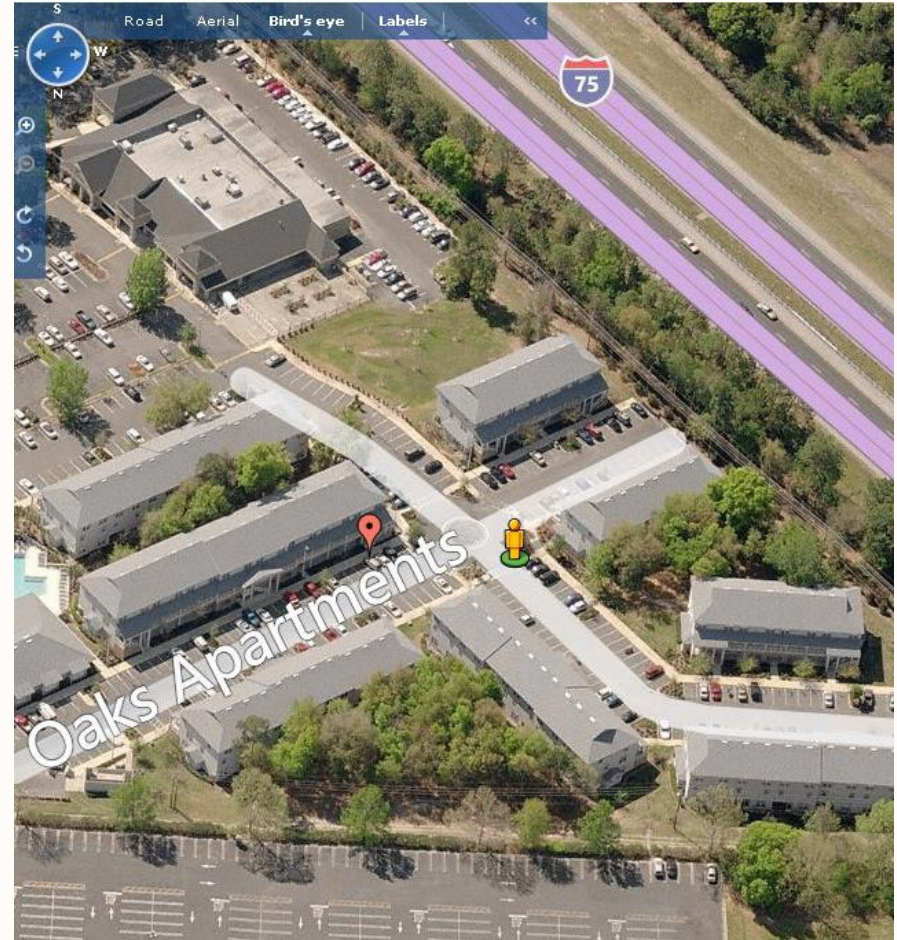


Residential Water Consumption Baselines

Condominium (SFA, MF < 10, & MF > 10)

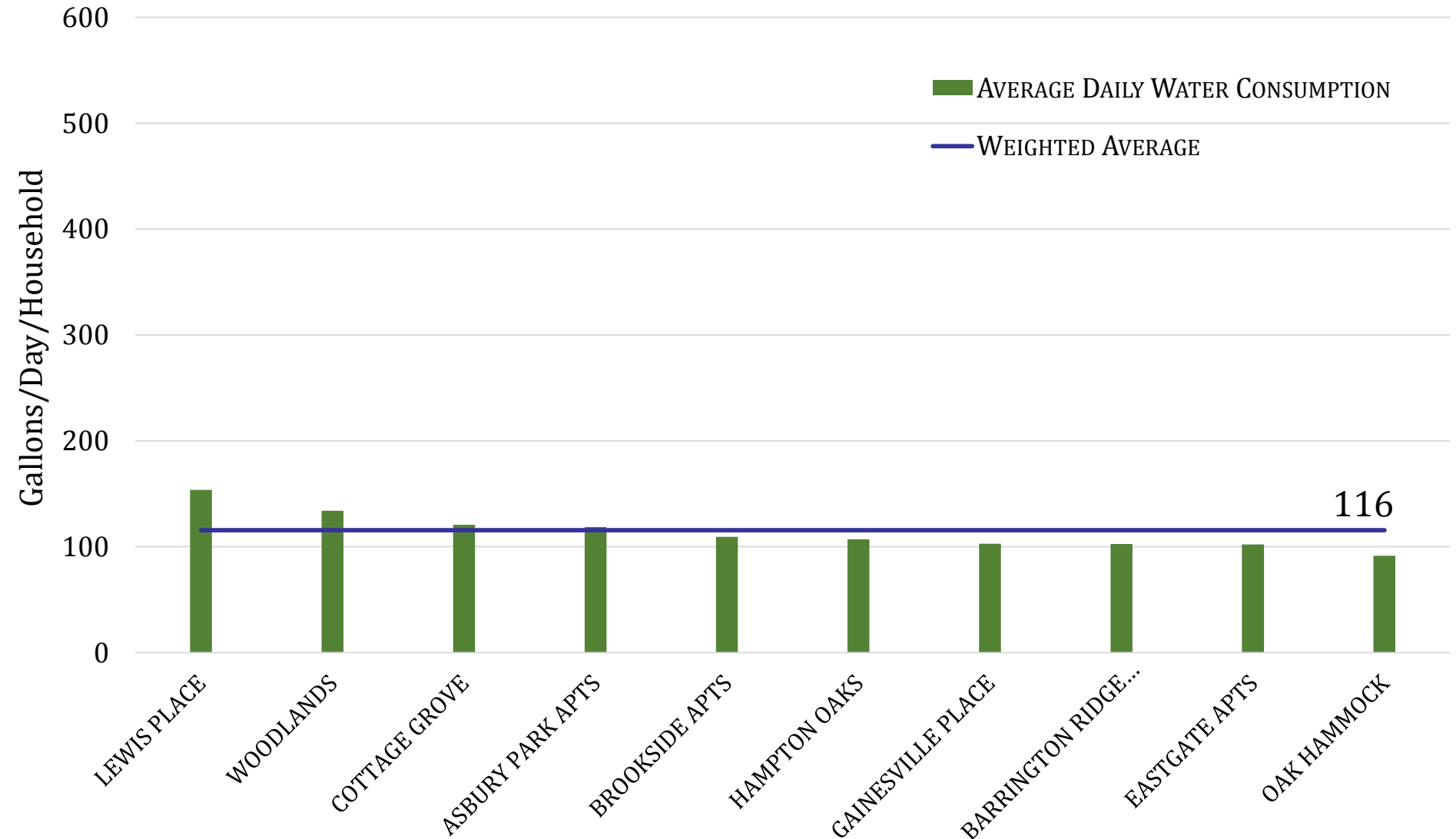


Apartments Hampton Oaks

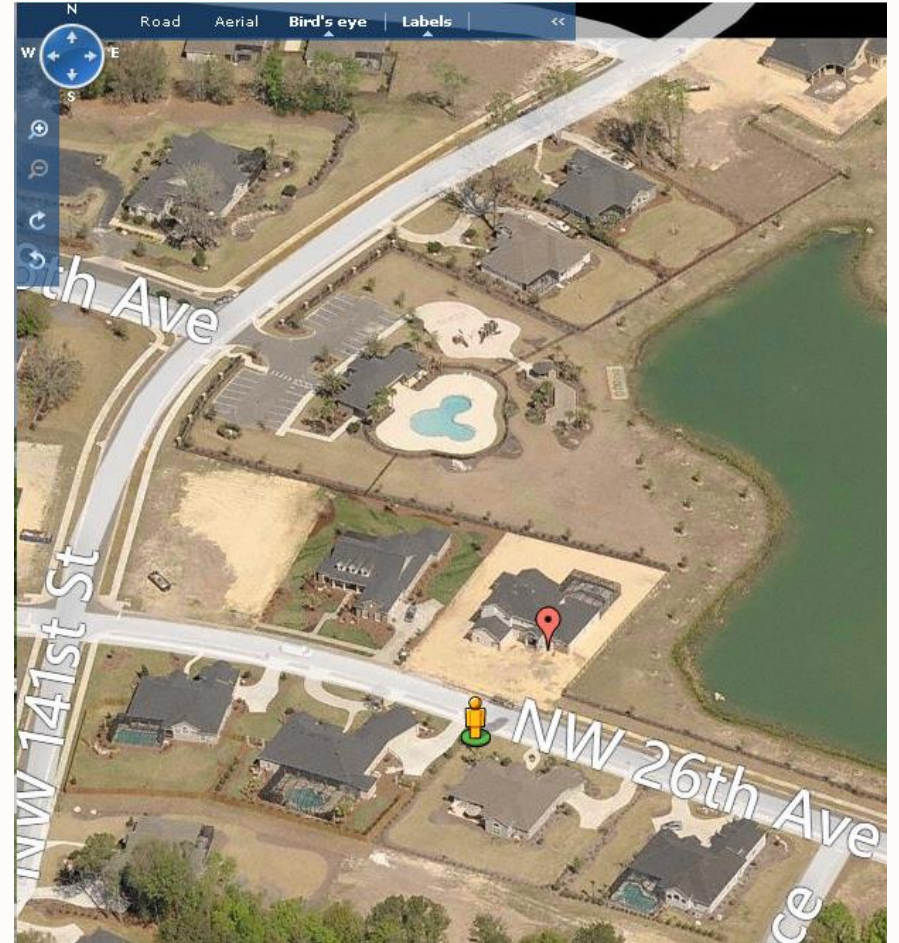
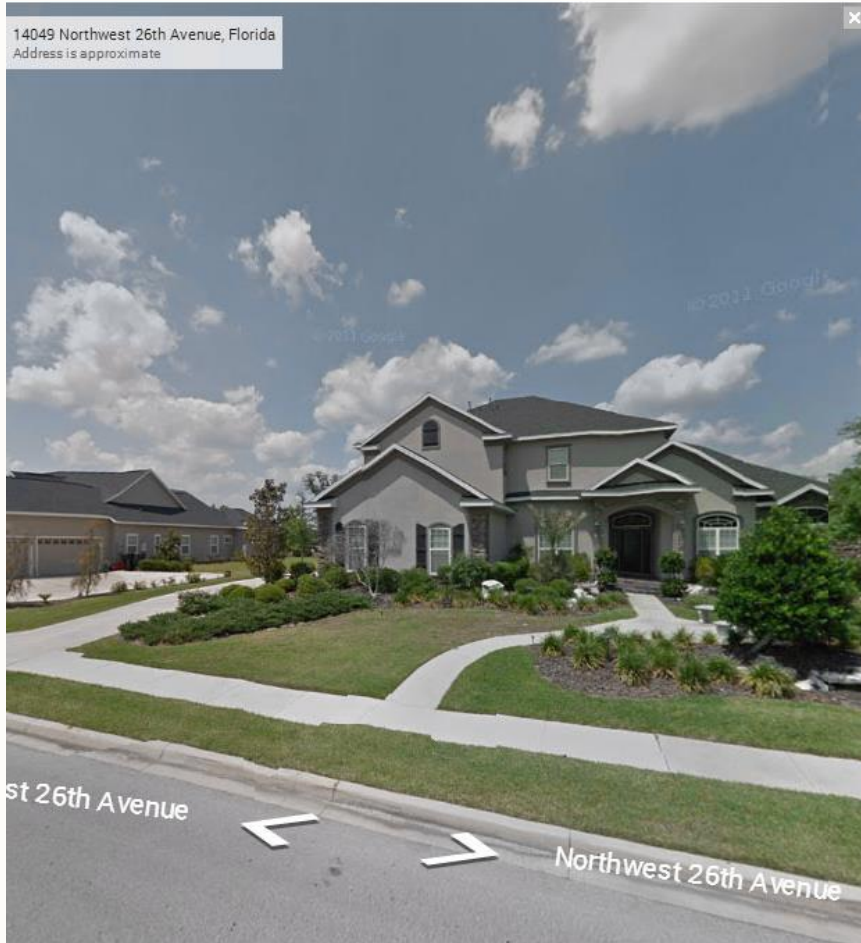


Residential Water Consumption Baselines

Apartment Complex (MF < 10 & MF > 10)

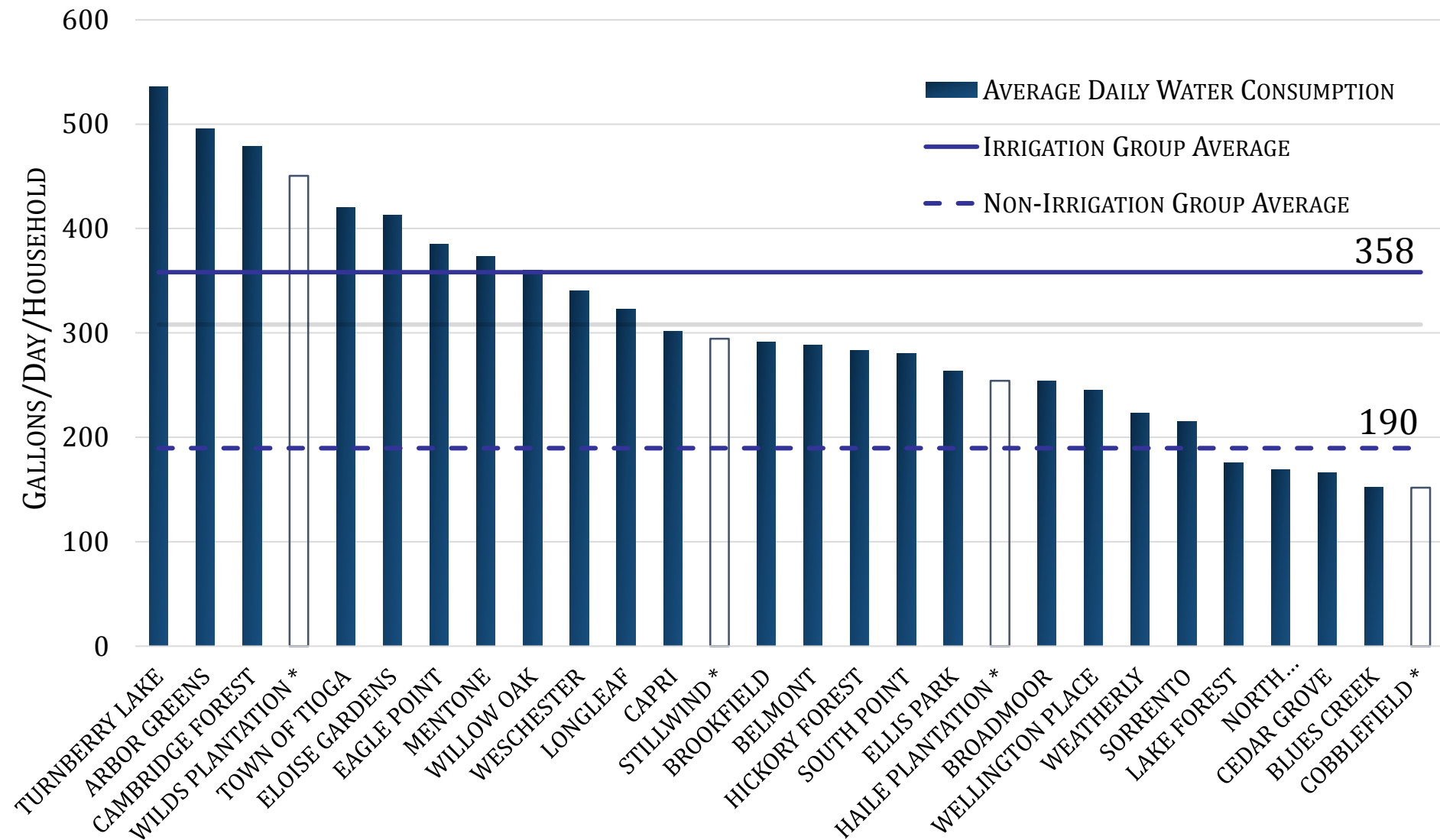


Single Family Detached Turnberry Lake



Residential Water Consumption Baselines

Single Family Detached (SFD)



Single Family Detached
Turnberry Lake



200,000 gallons/year

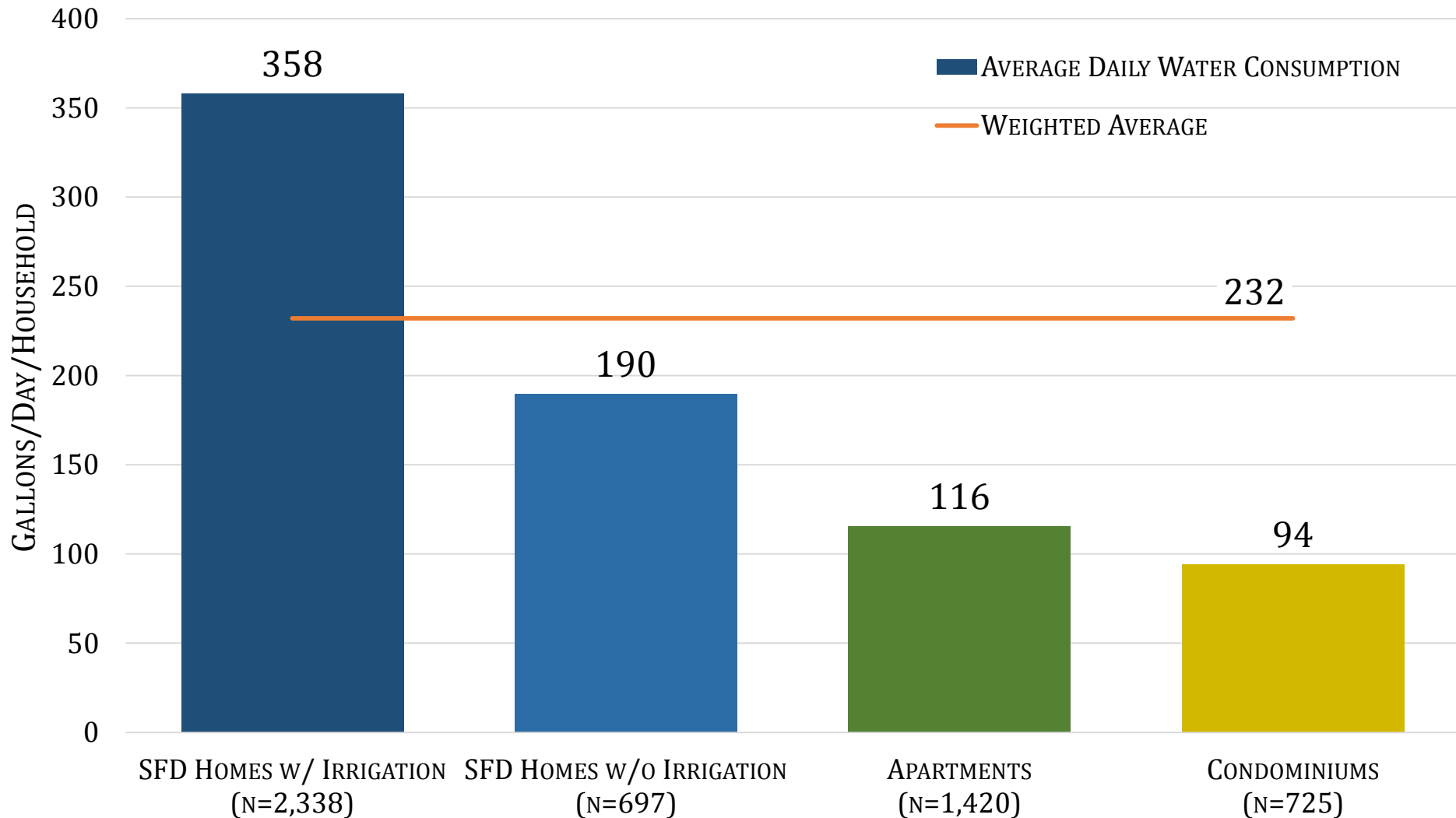
Water Supply



200,000 gallons/year

Residential Water Consumption Baselines

Dwelling Unit Types Comparison



Sector Plan

Objective 10.4.3 – Water Resource Protection

- **Policy 10.4.3.1 Water Supply Strategy**
- Residential lots... shall not be irrigated with potable water except for a limited period during the initial establishment of landscaping;
- The priority for the use of reclaimed water shall be given to environmental restoration projects, industrial users and agricultural users. Single family lots shall not receive reclaimed water;
- There shall be no individual wells for individual residences or businesses. All wells... shall be monitored as part of the utility system;

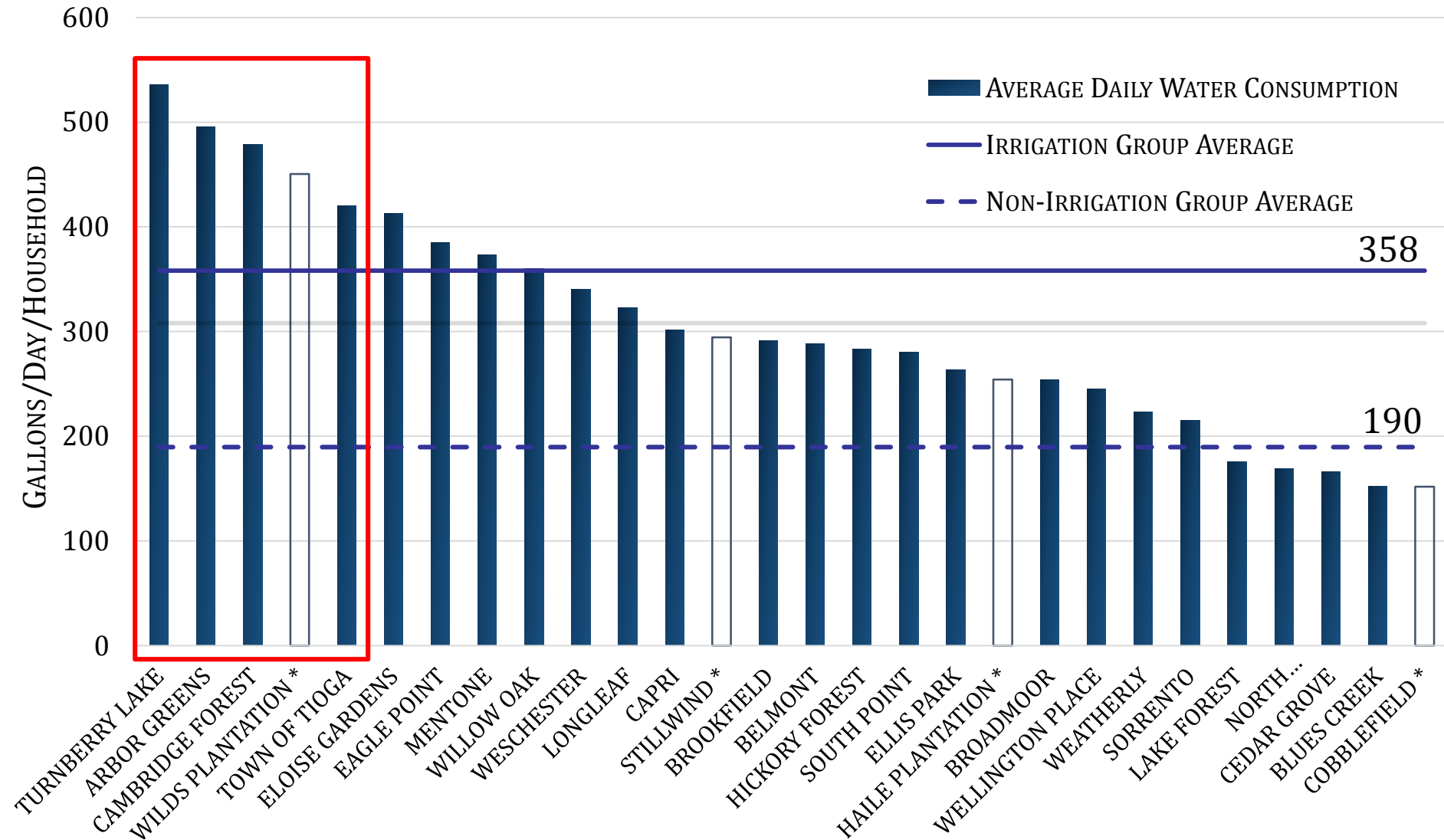
Sector Plan

Objective 10.4.3 – Water Resource Protection

- **Policy 10.4.3.2 Conservation – first** The EASP shall use conservation-first strategies within the EA-EOMU for water supply that include, but are not limited to, living within a water budget that recognizes supply limitations and reflects the value of the resource; minimizing water demand embedded within community design features such as buildings, hardscapes and landscapes; using Florida Friendly Landscaping principles to **retain and/or establish landscapes that require no supplemental irrigation or nutrients (fertilization) beyond that provided by natural rainfall and possible minimal alternative water supply including reuse.**

Residential Water Consumption Baselines

Single Family Detached



Water Consumption Patterns:
“Running Annual Water Budgets”

CITY OF CLERMONT
ORDINANCE NO. 2010-11-C

DIVISION 1. ADMINISTRATION

Definitions:

- (26) “**Running Annual Water Budget**” shall mean a water budget based on twelve (12) consecutive months of irrigation water consumption.

DIVISION 2. IRRIGATION

- (6) All properties that receive water for landscape irrigation **must have a separate landscape irrigation meter. The City shall establish a Running Annual Water Budget (RAWB) for each landscape irrigation customer** based on property size, pervious area, and an annual landscape irrigation application rate of 35 inches.



St. Johns River

Water Management District

October 11, 2011

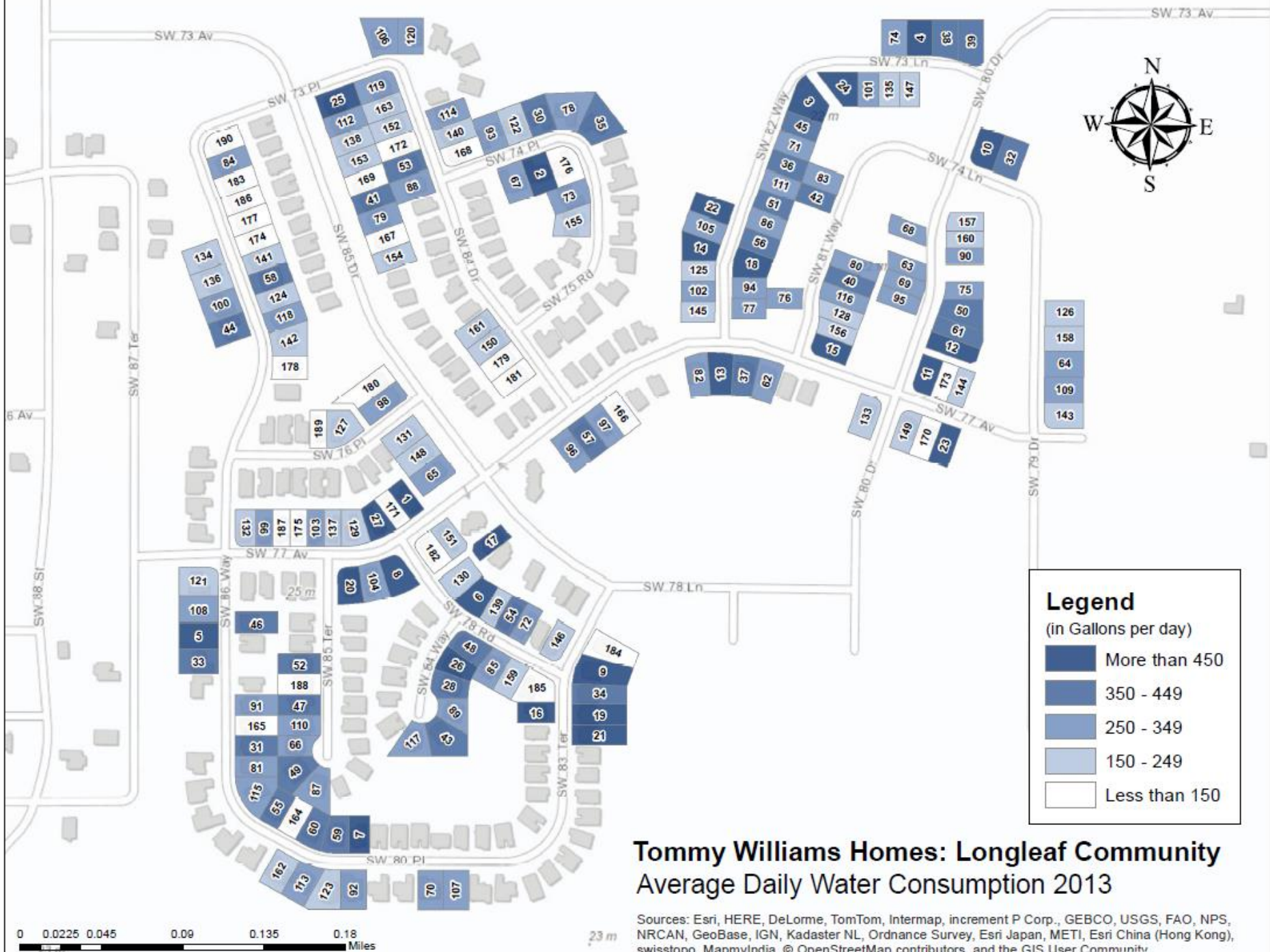
SUBJECT: City of Clermont

Consumptive Use Permit Number 2478

PERMIT CONDITIONS:

34. The permittee shall continue to implement... [Running Annual Water Budgets \(RAWBs\)](#)... require that customers... who receive water for landscape irrigation have a [separate landscape irrigation meter and comply with the approved RAWB for their property](#). Properties that exceed the RAWB may be fined by the City. A report detailing the activities in this program must be included in the Water Conservation Plan summary.

Water Consumption Patterns:
Quantifying Use?



Legend
(in Gallons per day)

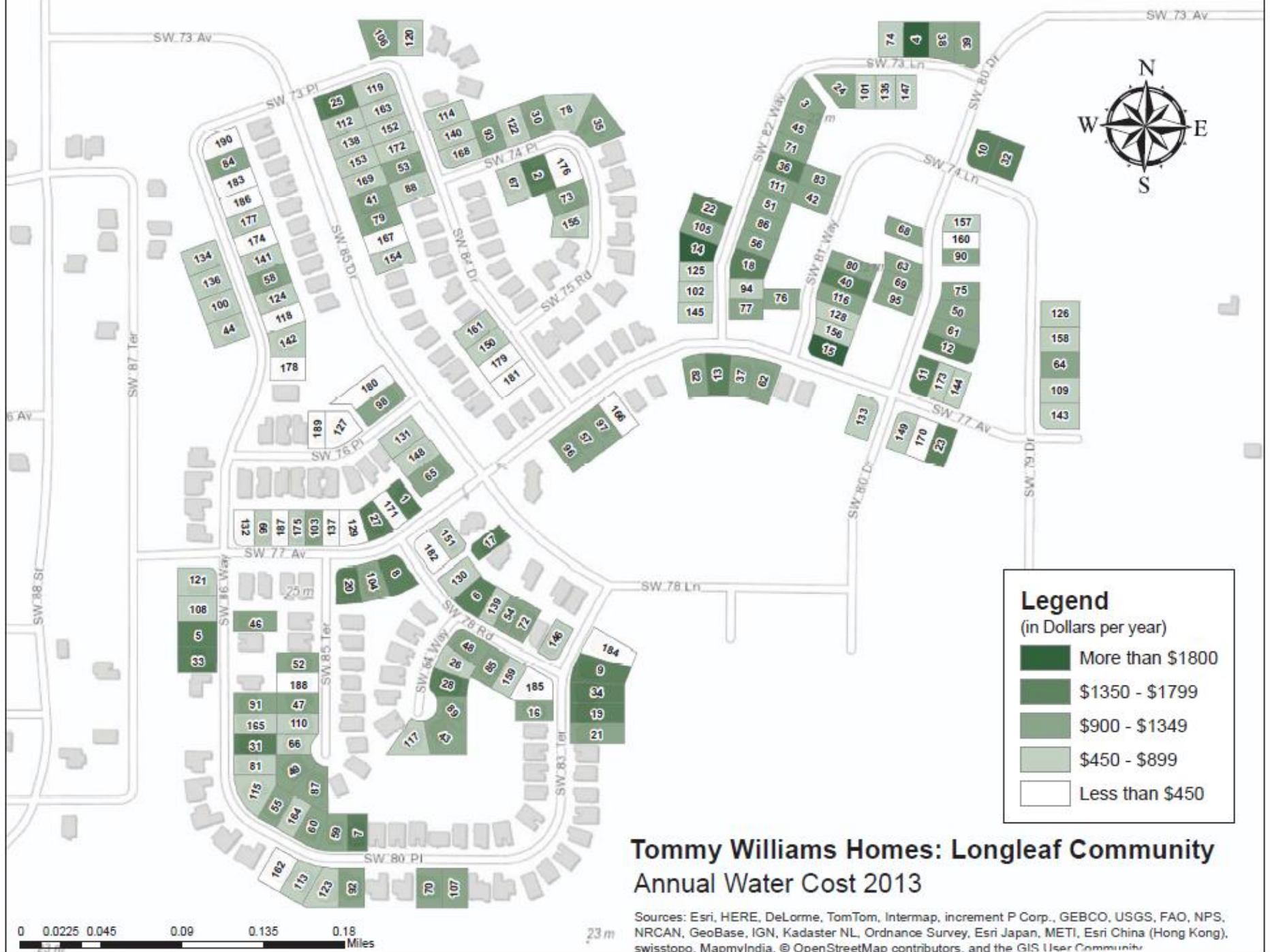
- More than 450
- 350 - 449
- 250 - 349
- 150 - 249
- Less than 150

Tommy Williams Homes: Longleaf Community Average Daily Water Consumption 2013

Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

0 0.0225 0.045 0.09 0.135 0.18 Miles

23 m



Legend
(in Dollars per year)

- More than \$1800
- \$1350 - \$1799
- \$900 - \$1349
- \$450 - \$899
- Less than \$450

Tommy Williams Homes: Longleaf Community Annual Water Cost 2013

Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

0 0.0225 0.045 0.09 0.135 0.18 Miles

23 m

Toho Water Authority:
Florida Water StarSM Impact Evaluation

Toho Water Authority Conservation Programs

Florida Water StarSM Requirements

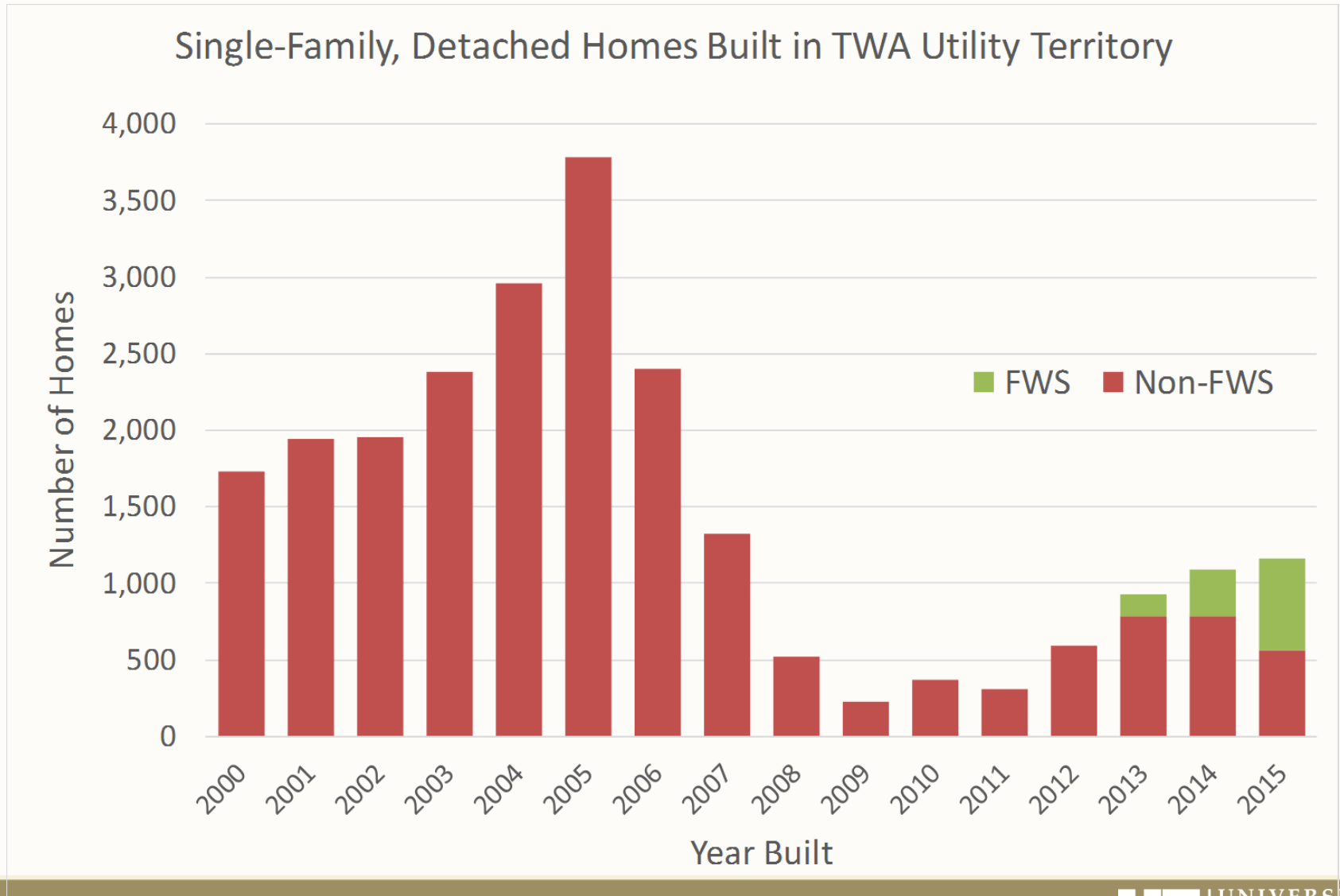
Requirements:

- Indoor water savings from
 - Water-efficient toilets, showerheads & faucets
 - Water-efficient dish and clothes washers
- Outdoor water savings from
 - Use of drought tolerant plants & shade
 - Reduced areas of high-volume irrigation
 - Efficient irrigation design & micro-irrigation



Toho Water Authority Conservation Programs

Florida Water StarSM Impact Evaluation



Toho Water Authority Conservation Programs

Florida Water StarSM Impact Evaluation

Objectives:

- Indoor water savings – Compare FWS with conventional residential properties
 - Owner-occupied
 - Rental properties
- Outdoor water savings - Compare FWS with conventional residential properties
 - Owner-maintained landscapes
 - Master-maintained landscapes

Toho Water Authority Conservation Programs

Data Sources

Data Field	Description
Premise ID	Address level location ID
Customer ID	Annual year of consumption
Service Point ID	Meter level location ID
Meter Type	Potable, Irrigation, Reclaimed
Usage	Metered consumption amount
Meter Read Date	End date of meter reading
FWS	List of FWS certified home by subdivision and builder
FWS Characteristics	List of subdivisions that had no backyard irrigation, had master-maintained landscapes or were master-metered for landscape irrigation.



Toho Water Authority Conservation Programs

Data Sources

Data Field	Description
Parcel ID	Property Appraisal parcel ID
Lot Size	Parcel size
Building Footprint	Base area of the residential structure.
Additional Hardscape	Area of patios, pools, driveways, storage buildings, etc.
Year Built	Year property was built
Sale Date	Date of sale by the builder to the residential owner
Conditioned Floor Area	Space conditioned living area of the home
Bedrooms	Number of bedrooms in the home
Bathrooms	Number of bathrooms in the home
Homestead Exemption	Indicator for Homestead exemption on the property



Toho Water Authority Conservation Programs

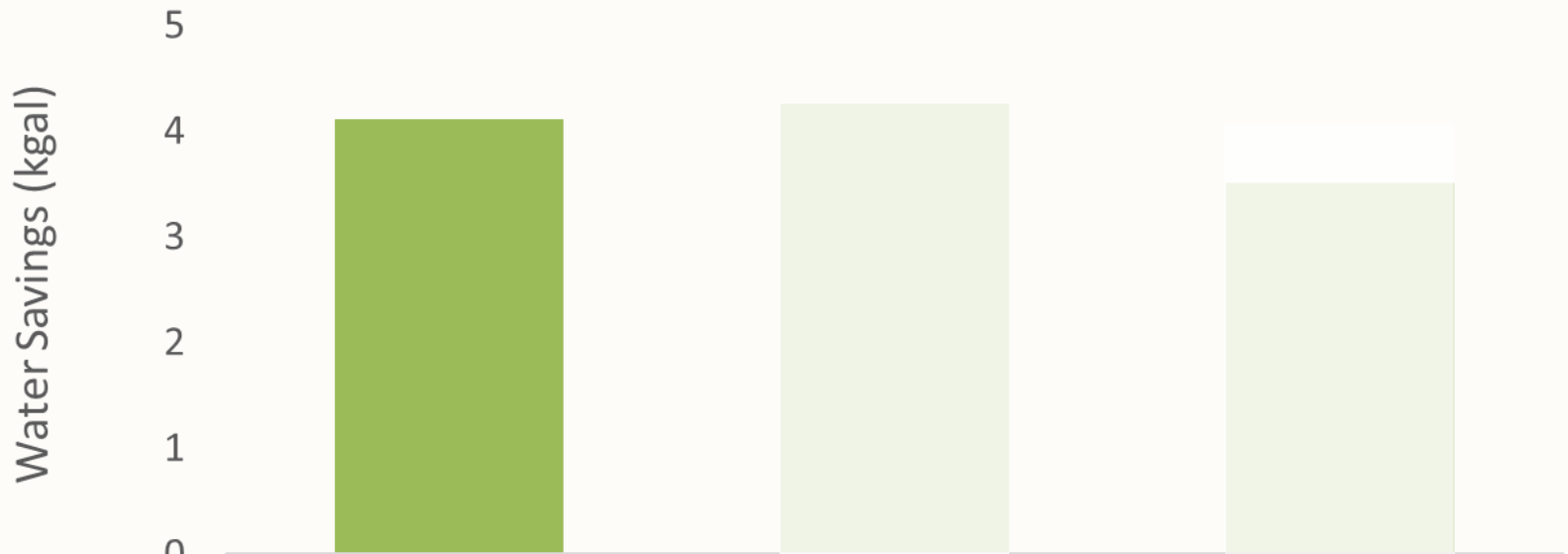
Florida Water StarSM Indoor Requirements



Toho Water Authority Conservation Programs

Measured FWSSM Indoor Water Savings

Average Annual Indoor Water Savings for FWS Homes
by Occupancy type (2015-2016)

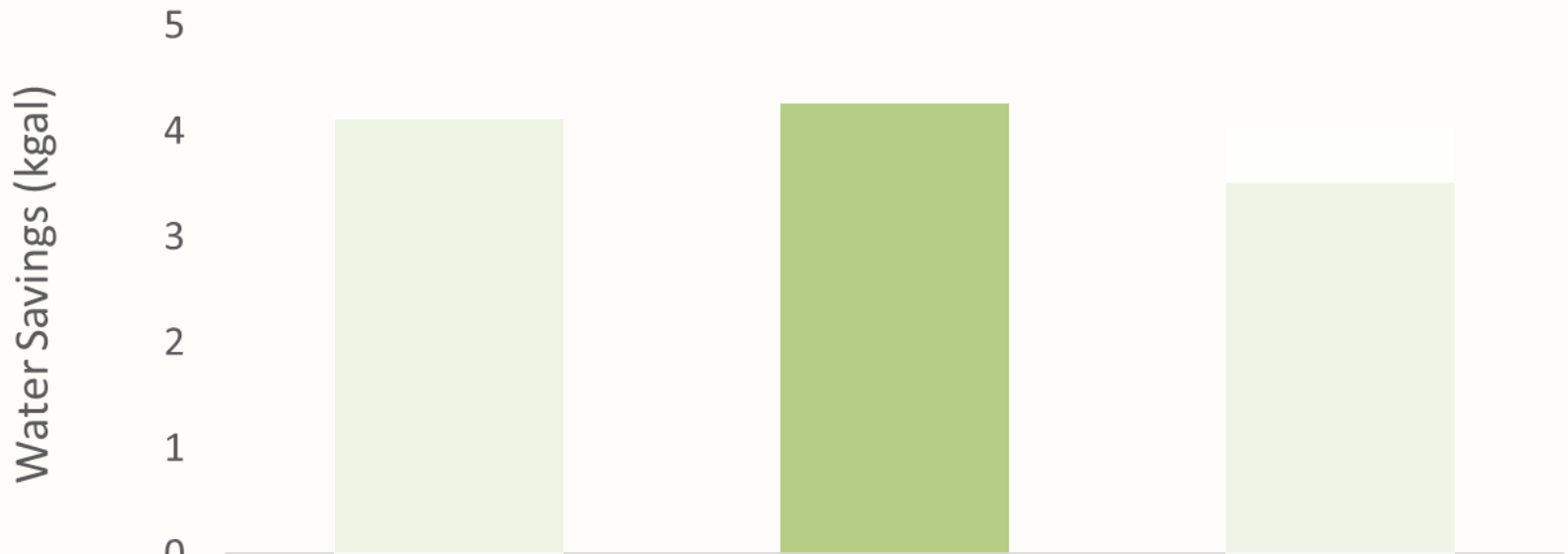


	All FWS	FWS - Owner Occupied	FWS - Rental
Number of Homes	229	186	43
Annual Consumption	59 kgal/yr	57 kgal/yr	68 kgal/yr
Percentage Savings	6.6%	6.9%	5.5%
Annual Savings	4.1 kgal/yr	4.3 kgal/yr	3.5 kgal/yr

Toho Water Authority Conservation Programs

Measured FWSSM Indoor Water Savings

Average Annual Indoor Water Savings for FWS Homes
by Occupancy type (2015-2016)

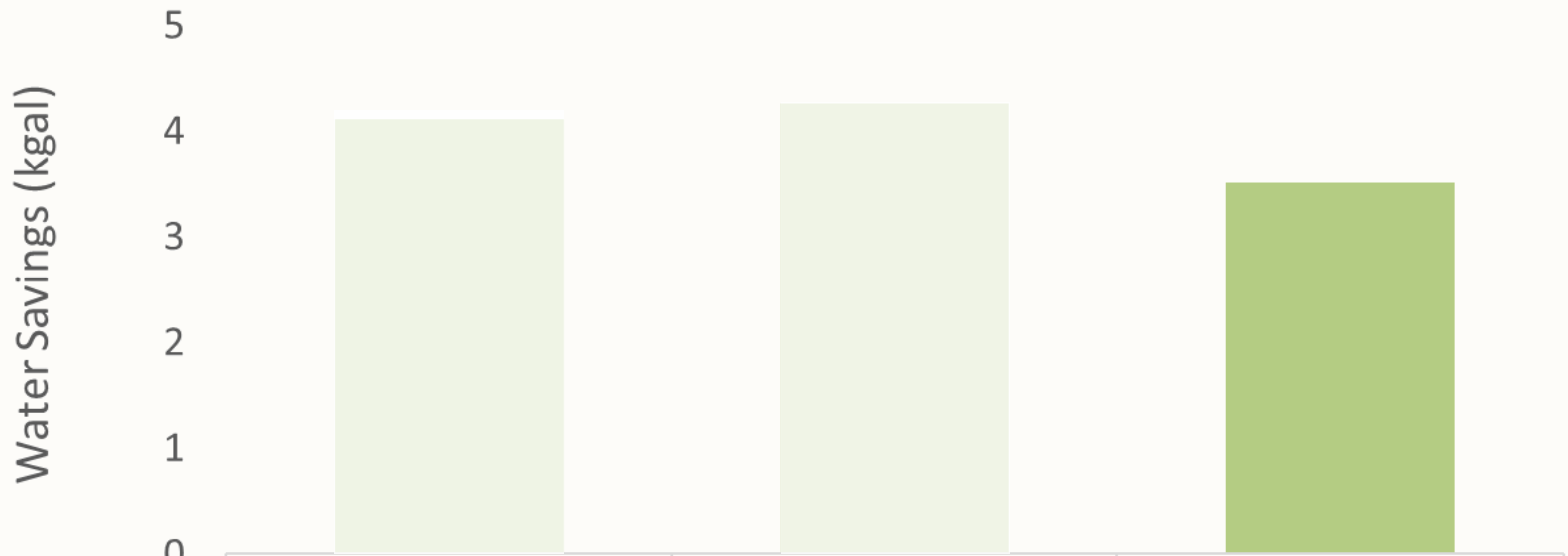


	All FWS	FWS - Owner Occupied	FWS - Rental
Number of Homes	229	186	43
Annual Consumption	59 kgal/yr	57 kgal/yr	68 kgal/yr
Percentage Savings	6.6%	6.9%	5.5%
Annual Savings	4.1 kgal/yr	4.3 kgal/yr	3.5 kgal/yr

Toho Water Authority Conservation Programs

Measured FWSSM Indoor Water Savings

Average Annual Indoor Water Savings for FWS Homes
by Occupancy type (2015-2016)



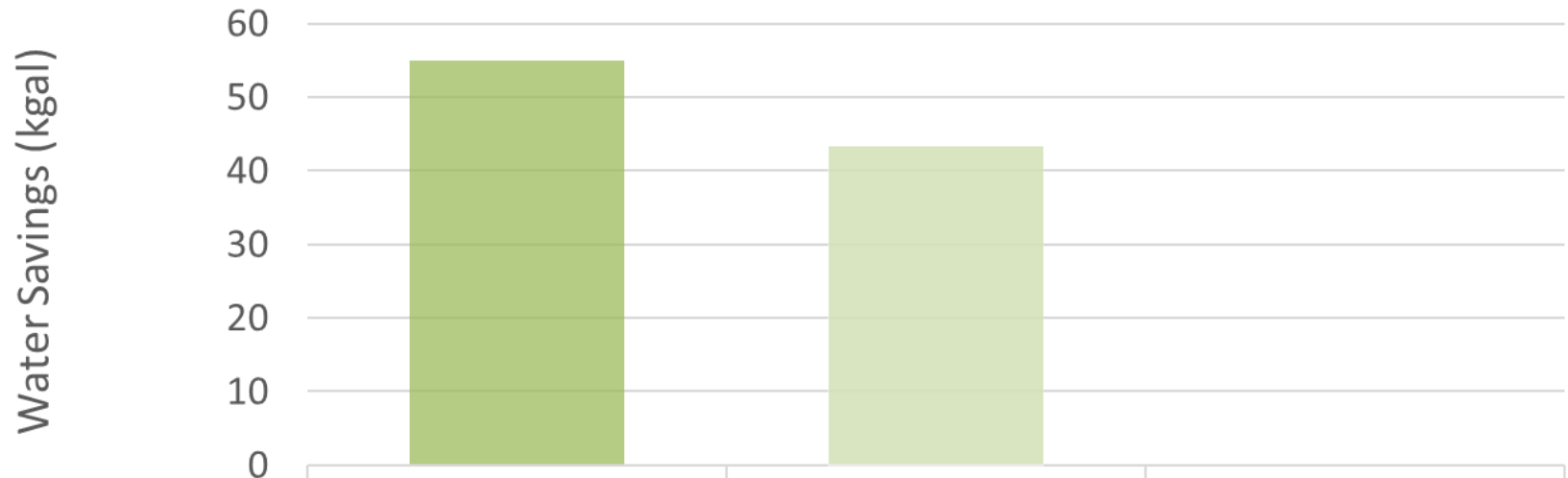
	All FWS	FWS - Owner Occupied	FWS - Rental
Number of Homes	229	186	43
Annual Consumption	59 kgal/yr	57 kgal/yr	68 kgal/yr
Percentage Savings	6.6%	6.9%	5.5%
Annual Savings	4.1 kgal/yr	4.3 kgal/yr	3.5 kgal/yr



Toho Water Authority Conservation Programs

Measured FWSSM Outdoor Water Savings

Average Annual Outdoor Water Savings for FWS Homes with Owner-Maintained Landscapes

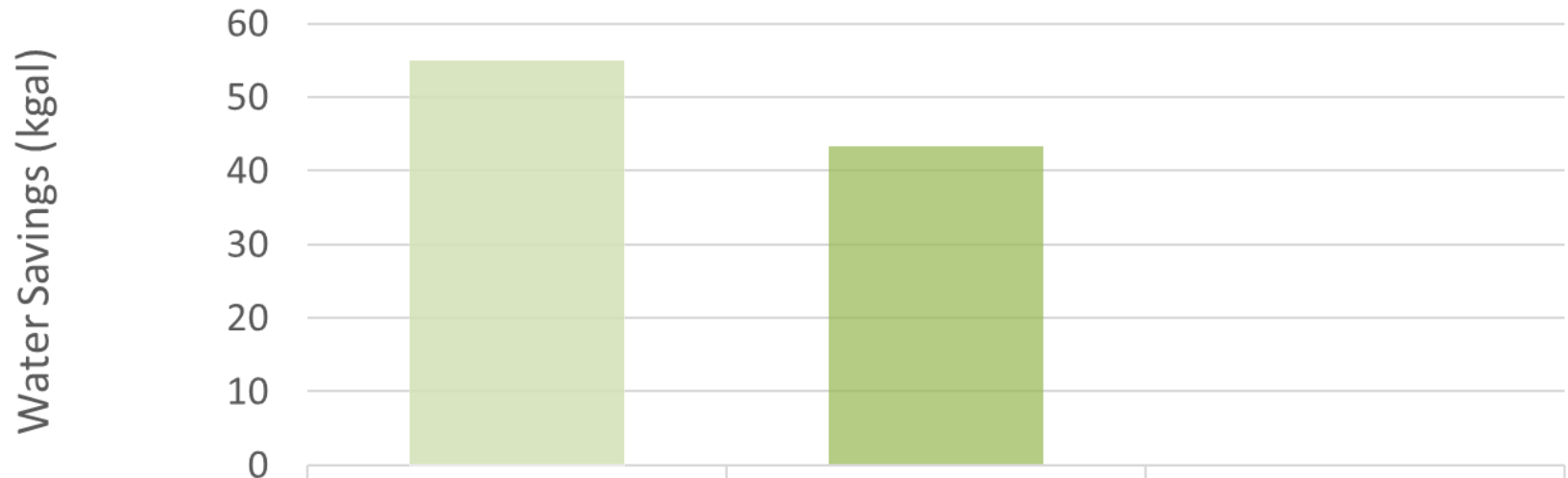


	FWS-Owner Maintained 2014-2015	FWS-Owner Maintained 2015-2016	
Number of Homes	38	145	
Annual Consumption	66 kgal/yr	67 kgal/yr	
Percentage Savings	47.0%	39.1%	
■ Annual Savings	55.0 kgal/yr	43.3 kgal/yr	

Toho Water Authority Conservation Programs

Measured FWSSM Outdoor Water Savings

Average Annual Outdoor Water Savings for FWS Homes with Owner-Maintained Landscapes

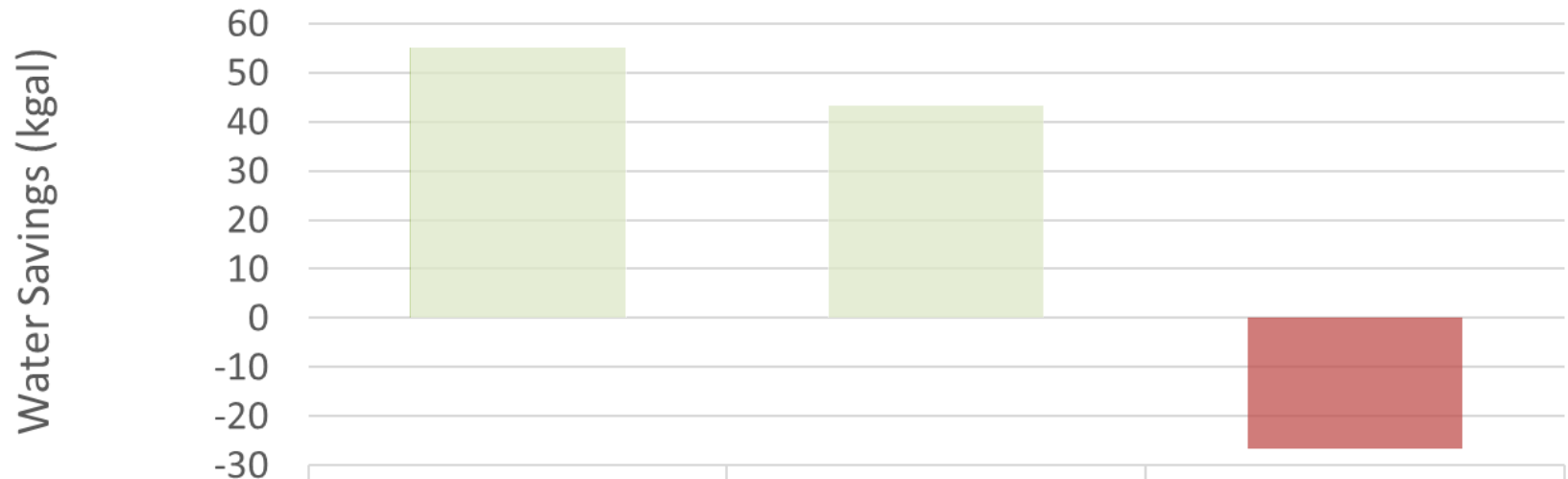


	FWS-Owner Maintained 2014-2015	FWS-Owner Maintained 2015-2016	
Number of Homes	38	145	
Annual Consumption	66 kgal/yr	67 kgal/yr	
Percentage Savings	47.0%	39.1%	
■ Annual Savings	55.0 kgal/yr	43.3 kgal/yr	

Toho Water Authority Conservation Programs

Measured FWSSM Outdoor Water Savings

Average Annual Outdoor Water Savings for FWS Homes with Master-Maintained Landscapes



	FWS-Owner Maintained 2014-2015	FWS-Owner Maintained 2015-2016	FWS-Master Maintained 2015-2016
Number of Homes	38	145	84
Annual Consumption	66 kgal/yr	67 kgal/yr	192 kgal/yr
Percentage Savings	47.0%	39.1%	-23.7%
■ Annual Savings	55.0 kgal/yr	43.3 kgal/yr	-26.7 kgal/yr

Toho Water Authority Conservation Programs

Florida Water StarSM Impact Evaluation

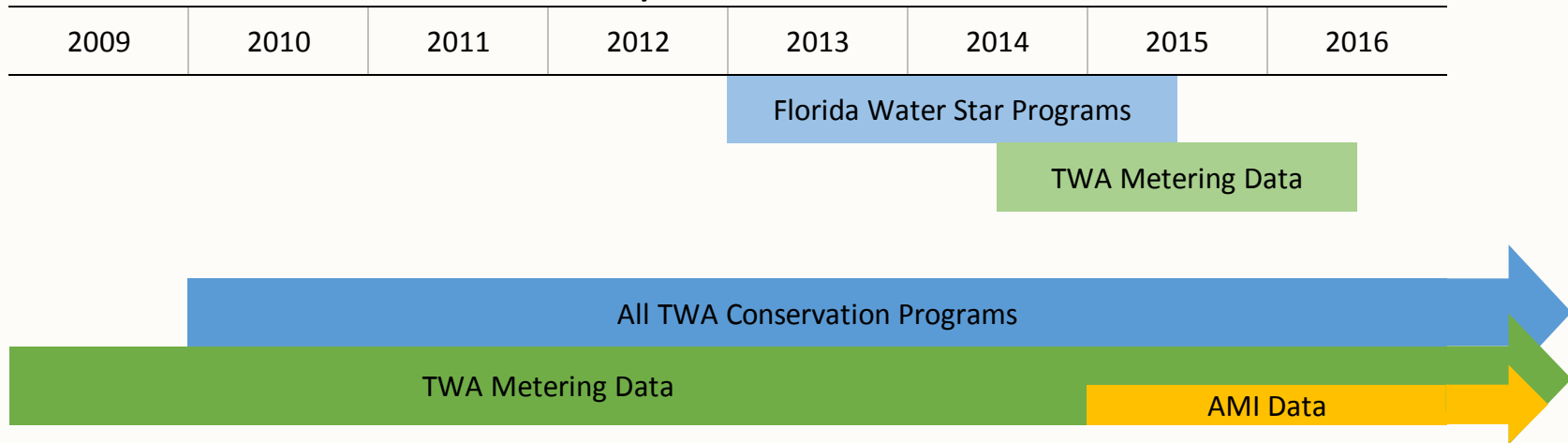
Summary:

- Owner occupied SFD residential water savings are significant from a strategic water supply planning perspective.
- Residences with master maintained landscapes are performing significantly worse than expected.
- On-going direct measurement and verification of program impacts are essential to achieving water conservation goals.

Toho Water Authority Conservation Programs

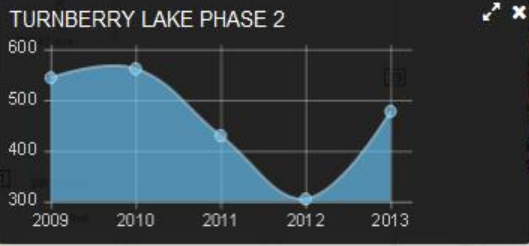
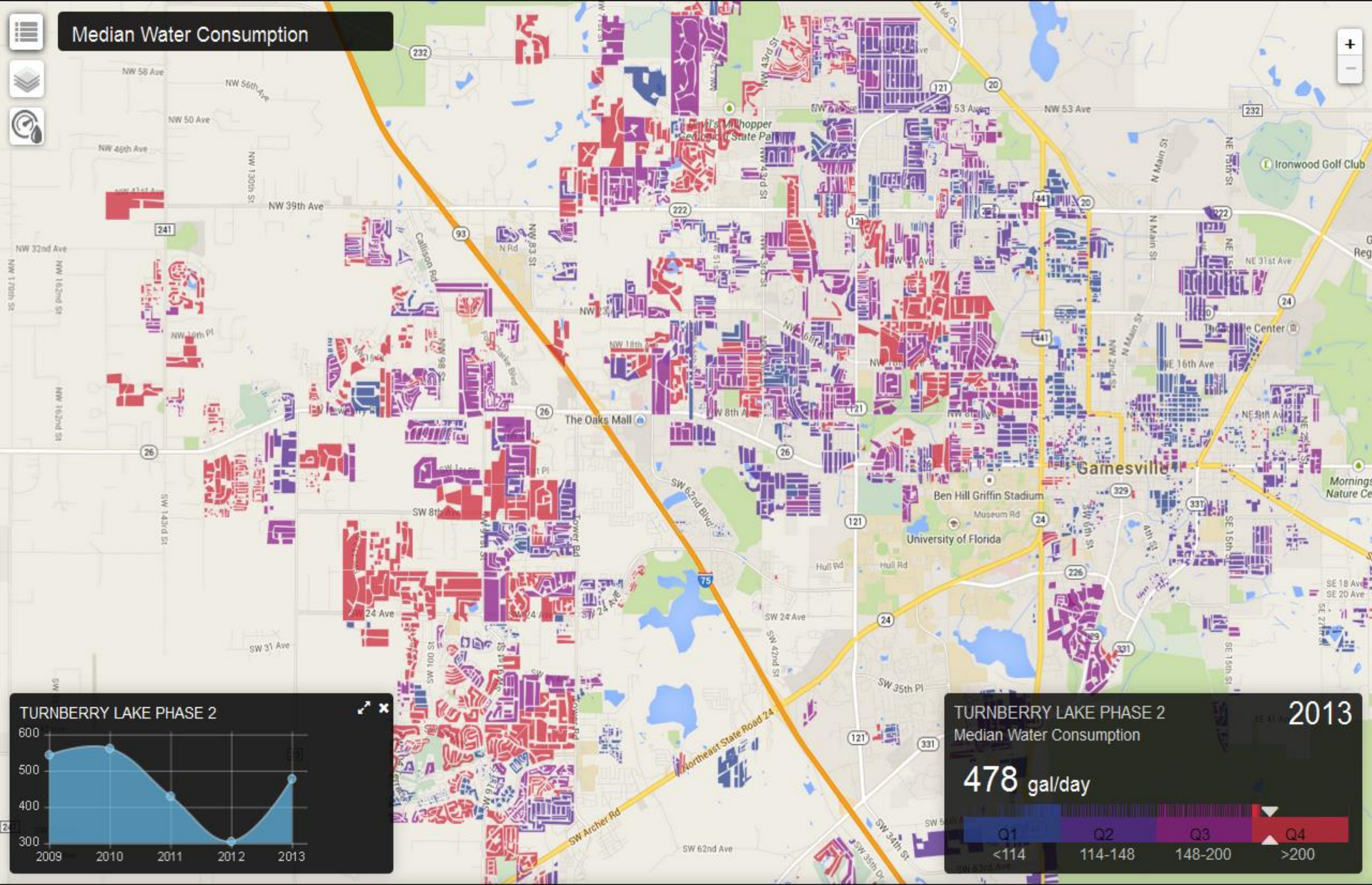
Iterative Analysis

Analysis Timeline



Water Consumption Patterns:
Geo-visualizing Data

Median Water Consumption



TURNBERRY LAKE PHASE 2
Median Water Consumption
2013

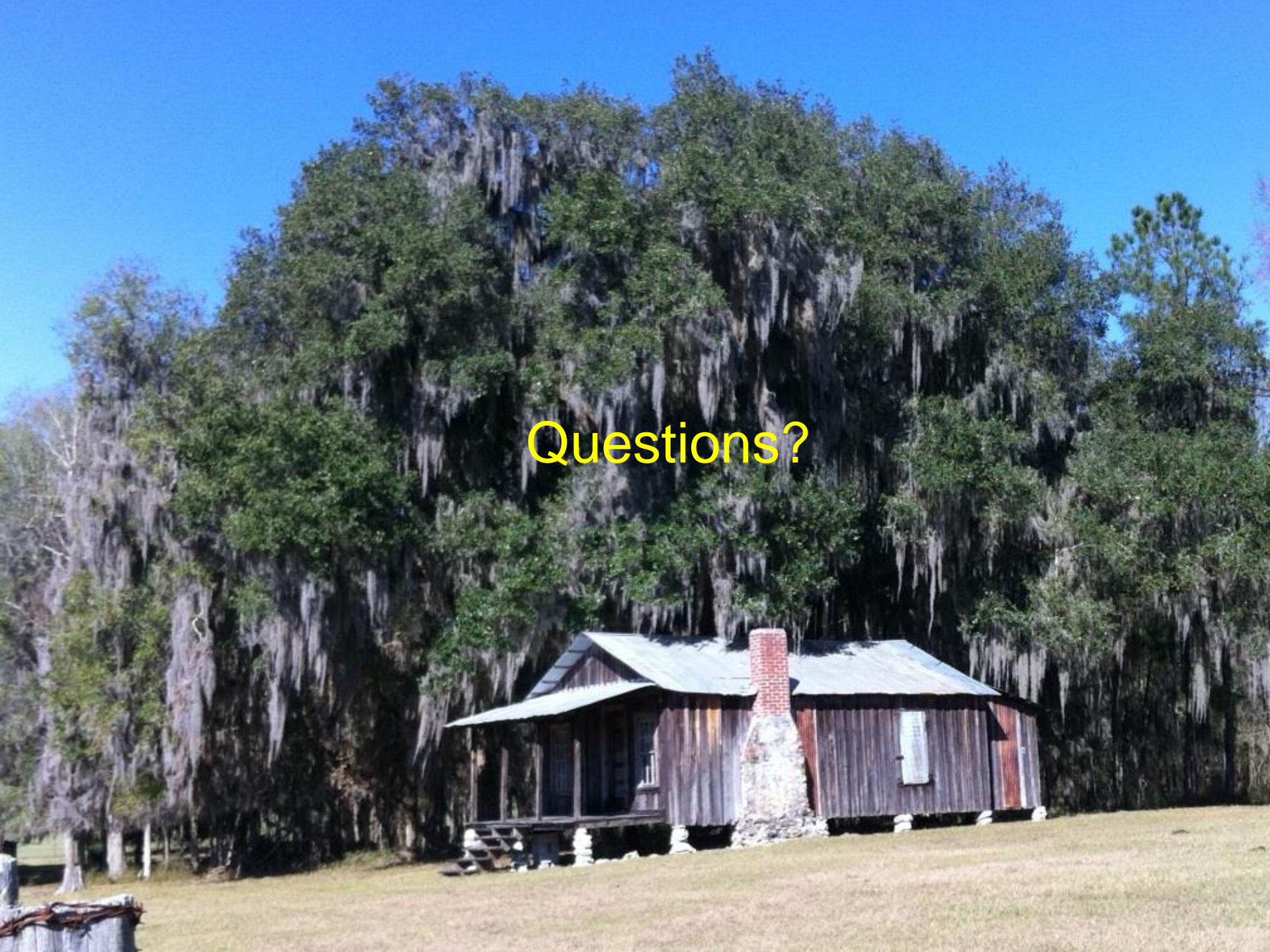
478 gal/day

Q1	Q2	Q3	Q4
<114	114-148	148-200	>200

select **median water consumption** reset map

Search by Subdiv Name

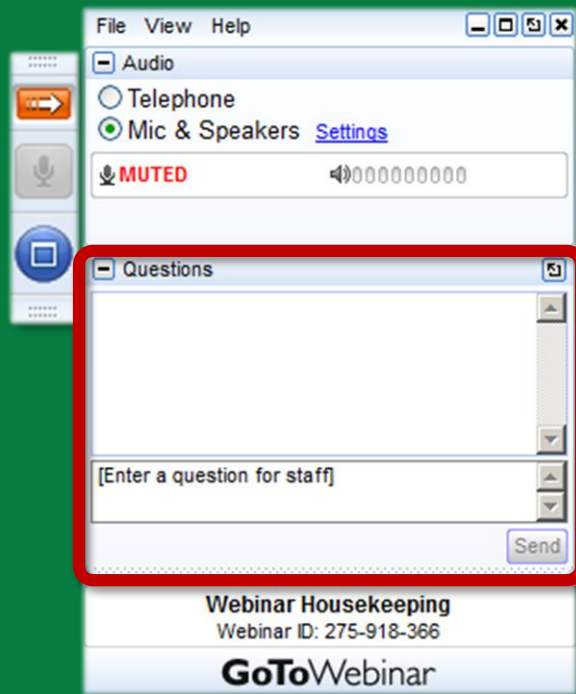
Questions?



Questions and Answers



If you have questions:



- Your webinar control panel includes a “Questions” box
- Please click on “+” sign and type any questions in this box
- Please refer to the slide number and/or speaker when you post your question
- Please keep your questions succinct!
- Staff will ask the presenters questions, as time permits

The PowerPoint is available at www.1000friendsofflorida.org

The screenshot shows the homepage of 1000 Friends of Florida. The header features the organization's logo and a navigation menu with items like 'About Us', 'Building Better Communities', 'Saving Special Places', 'Planning Tools', and 'Outreach'. A large banner image depicts a city street scene with a trolley and the text 'Building Better Communities'. Below the banner, there are several news items:

- Our Vision for Florida's Future...**: A section with a red circle around the title. The text describes a vision for vibrant cities and towns. A red circle highlights the title 'What's New' in the adjacent column.
- Planning for Sea Level Rise in Broward County Webinar on October 8**: A news item with a sub-headline 'The PowerPoint is now available' and a 'Read More >' link.
- Scale Back Minto West**: A news item about massive development in western Palm Beach County.
- Survey on Climate Change/Sea Level Rise**: A news item inviting the community to share their views.

Other elements include a 'Donate Now' button, a 'Current Foresight' section, and a 'Register Now for Fall Webinars' button.

The screenshot shows the GoToTraining software interface. At the top, there are menu options: 'File', 'Options', 'View', and 'Help'. The main area displays various controls for a presentation:

- Audience View**: Set to 100%.
- Screen Sharing**: A section with a 'Paused' status and buttons for 'Show My Screen', 'Stop Showing Screen', 'Give Keyboard & Mouse', and 'Change Presenter'.
- Start Recording**: A button indicating 72.9 GB remaining.
- Webcam**: A section with 'Audio' and 'Telephone' options, and a 'Mic & Speakers' selection.
- Dashboard**: A section with a 'Materials (0)' item circled in red.
- Chat**: A section with a '[Type message here]' input field and a 'Send' button.

At the bottom, there is a 'September 9 at 10 a.m. Test Run for September 10' announcement with training ID 583-124-868 and the GoToTraining logo.



This webinar has been approved for:

- 1.5 AICP CM CREDITS for planners (#9115194)
- 2 CLE credits for Florida attorneys (#1608561N)
- 1.5 Contact Hours for Florida Environmental Health Professionals
- No credits for Certified Floodplain Managers

There is a link to a **BRIEF SURVEY** in the follow-up email you will receive. Please take a few minutes to give us feedback!

<https://www.surveymonkey.com/r/waterplanning>



Please support 1000 Friends of Florida:

www.1000friendsofflorida.org/donate-now/

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