

Dr. John M. DeGrove Webinar Series:

Outside: Sustainable Landscape Collaborative

Due to constraints on staff time, we only apply for professional certification credits for participants who attend the live webinar, not those who view the broadcast at a later date.





Dr. John M. DeGrove

May 4, 1924 – April 13, 2012

Icon of comprehensive planning
both in Florida and across the nation

Co-founder of 1000 Friends of
Florida

To find out more, please visit:

www.1000friendsofflorida.org/dr-degrove/



Dr. John M. DeGrove Webinar Sponsors

FLORIDA STEWARD

The Archibald Foundation, Inc.

NATHANIEL REED SOCIETY

Mosaic

FRIEND

Ms. Kimberly A. DeGrove and Dr. Clyde Partin

Dickman Law Firm

William Howard Flowers, Jr. Foundation, Inc.

KEITH

Kitson & Partners

The Perkins Charitable Foundation

Mr. Robert M. Rhodes

Susan Trevarthen



Dr. John M. DeGrove Webinar Sponsors

Sponsor

Mr. Thomas J. Baird

Mr. Ronald Book, PA

Mr. William M. DeGrove

Diamond Club

Ms. Sara Fotopulos

Synovus

Supporter

American Planning Association, Florida Chapter

Charlotte Harbor Estuary Program

Treasure Coast Regional Planning Council

Mr. David M. Orshefsky

Ms. Nancy Ellen Stroud



This webinar has been approved for:

Planners (1.5 AICP CM #9183918)

Certified Floodplain Managers

Certified Environmental Health Professionals

1000 Friends has also applied for credits from the Florida Bar (CLE) and Florida DBPR Landscape Architects but cannot guarantee they will be approved.

In the follow up email you will receive:

A certificate of attendance (use Google Chrome to download)

A link to a **brief survey** to help us improve future webinars



Dr. John M. DeGrove Webinar Series

- November 13 – Covering All the Bases: Effective Engagement in the M-CORES Process
- December 11 – 2020 Florida Legislative Preview

All webinars are from noon – 1:30 Eastern Time unless otherwise noted

www.1000friendsofflorida.org/webinar/



Support 1000 Friends!

Donate on-line at www.1000friendsofflorida.org/donate-now/
(you may designate it for DeGrove Education Fund if you wish)

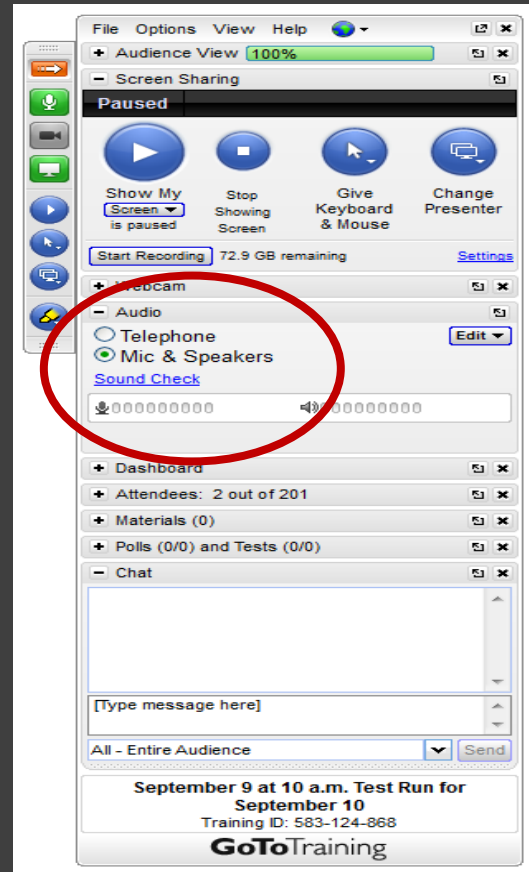
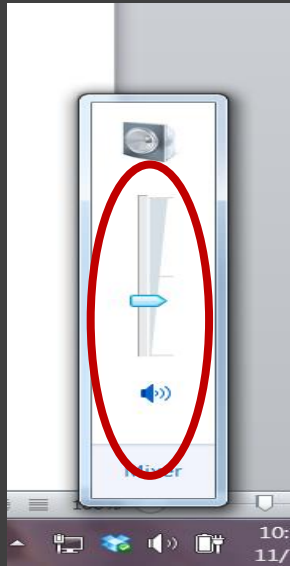
Email vyoung@1000fof.org to find out about becoming a
DeGrove Webinar Series sponsor

AMAZON SMILE

Amazon will make a donation to 1000 Friends every time you purchase
through their site at <http://smile.amazon.com/ch/59-2761163>



If you have sound issues:



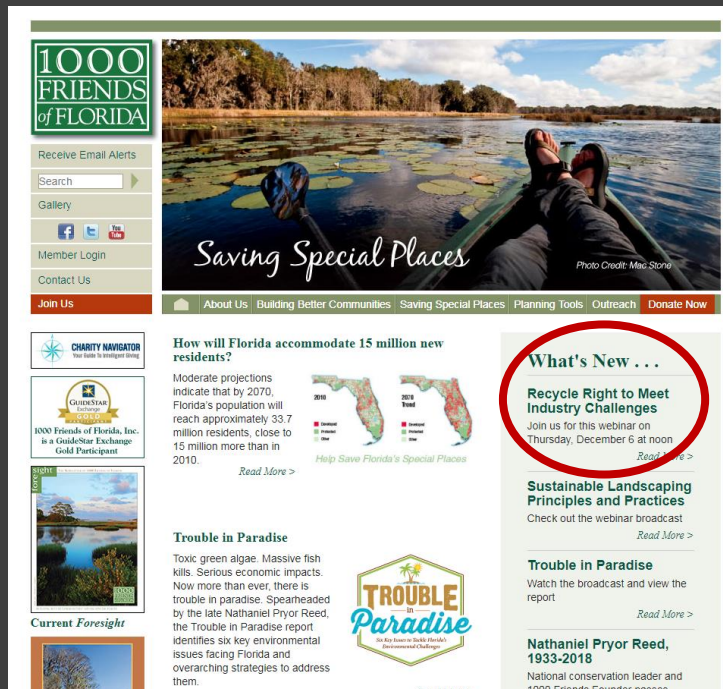
- Make sure the speaker on your computer is turned on
- Adjust the volume on your computer
- On Go-to-Webinar control panel click on Audio box and do sound check and adjust accordingly

OR

- On Go-to-Webinar control panel click on Audio box and then Telephone and follow directions to call in

The PowerPoint is available at

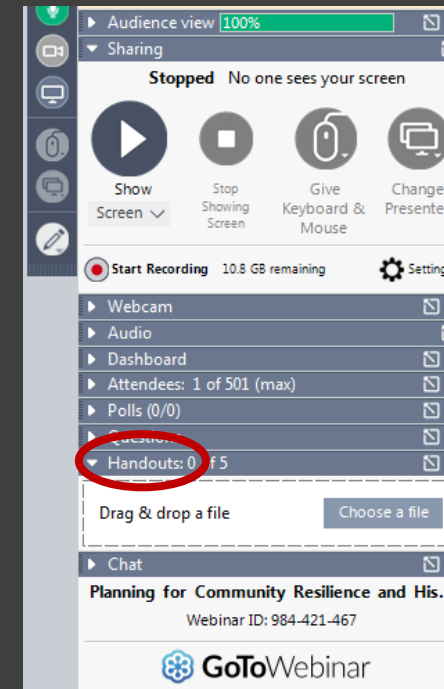
www.1000friendsofflorida.org



The screenshot shows the homepage of 1000 Friends of Florida. The header features the organization's logo and navigation links: About Us, Building Better Communities, Saving Special Places, Planning Tools, Outreach, and Donate Now. A large banner image shows a person in a kayak on a lake with lily pads, with the text "Saving Special Places" and "Photo Credit: Mac Stone". Below the banner, there are several featured articles and sections:

- How will Florida accommodate 15 million new residents?**: A section discussing population projections and the impact on Florida's special places. It includes a map of Florida showing population density and a link to "Read More >".
- Recycle Right to Meet Industry Challenges**: A section about recycling and its importance for the environment. It includes a link to "Read More >".
- Sustainable Landscaping Principles and Practices**: A section about sustainable landscaping and its benefits. It includes a link to "Read More >".
- Trouble in Paradise**: A section about the impact of toxic green algae on Florida's environment. It includes a link to "Read More >".
- Current Foresight**: A section about the future of Florida and the challenges it faces. It includes a link to "Read More >".

On the left side of the page, there are links to "Receive Email Alerts", "Search", "Gallery", "Member Login", "Contact Us", and "Join Us".



The screenshot shows the GoToWebinar interface. The top bar indicates "Audience view 100%" and "Sharing". Below this, there are controls for "Show Screen", "Stop Showing Screen", "Give Keyboard & Mouse", and "Change Presenter". A "Start Recording" button is also visible, along with a "Settings" icon. The main area displays a list of participants and their status:

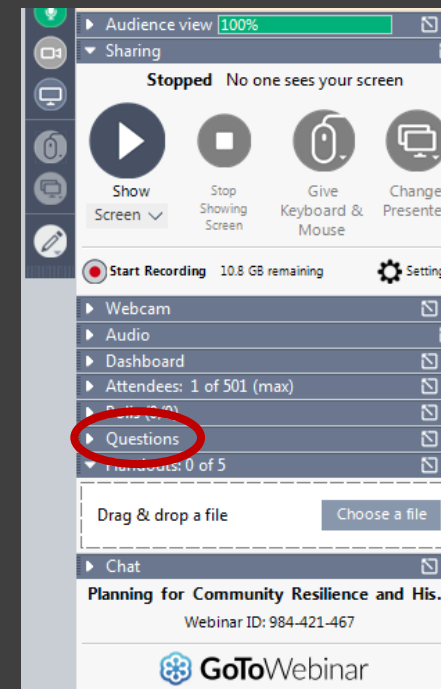
- Webcam
- Audio
- Dashboard
- Attendees: 1 of 501 (max)
- Polls (0/0)
- Handouts: 0 of 5

The "Handouts" section is highlighted with a red circle. Below the list, there is a "Drag & drop a file" button and a "Choose a file" button. The bottom of the interface shows the "Chat" section with the text "Planning for Community Resilience and His..." and the Webinar ID: 984-421-467. The GoToWebinar logo is at the bottom right.



Please ask 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



Presenters



Pierce Jones

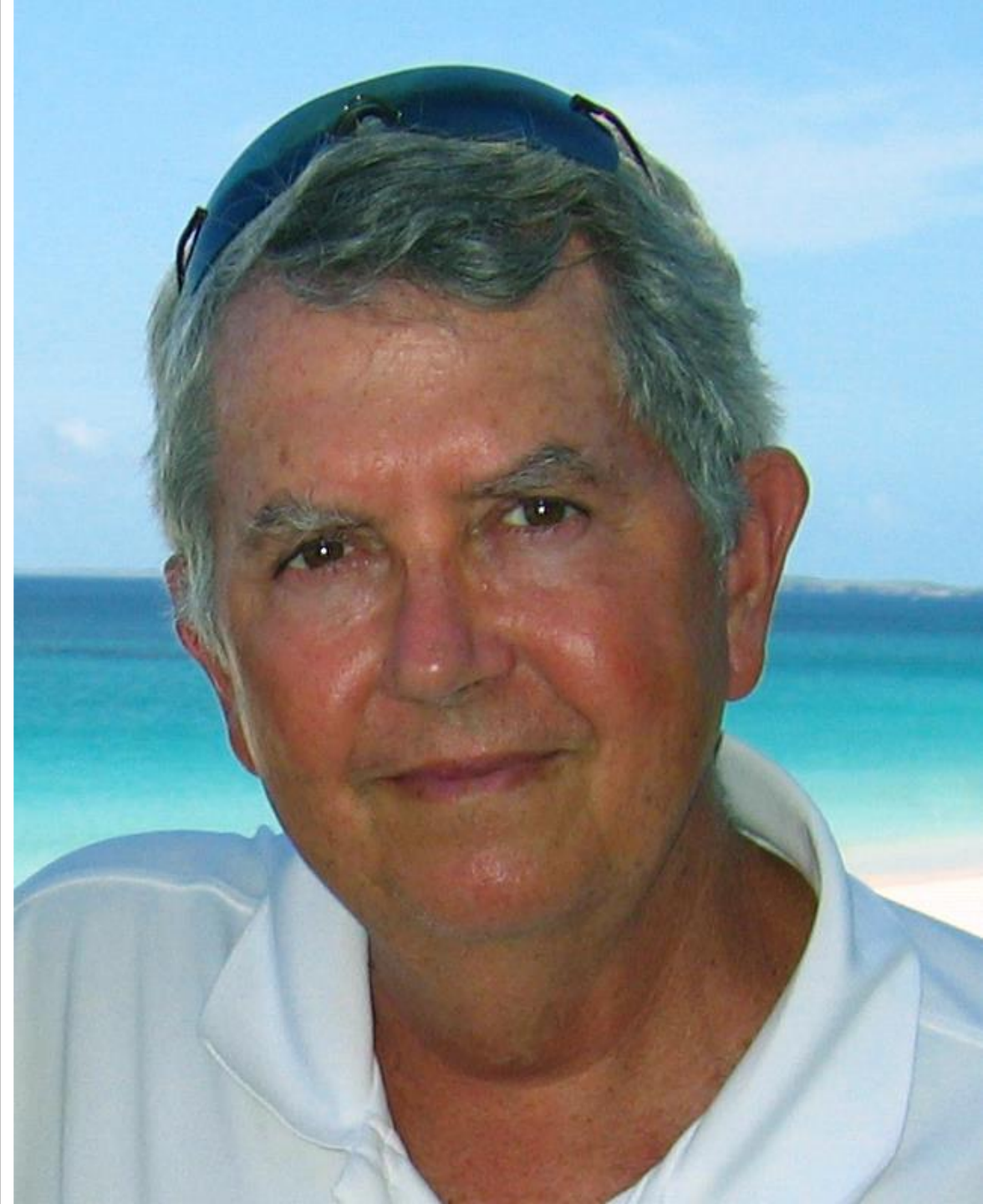
Professor at the University of Florida

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





Christina Hite

A Professional Landscape Architect who leads Dix.Hite + Partners, a Central Florida based design firm she founded with fellow landscape architect Jeff Dix in 1996.

As president, provides visionary leadership to a growing practice with more than 30 employees in Florida, Alabama and Georgia.

Passion for artful design, environmental sustainability and healthy lifestyles is evident in a portfolio that spans nearly three decades of residential landscape design, public parks, open space and ecologically friendly infrastructure projects built in the state of Florida and throughout the United States.

Chairs the Dean's Advisory Council for the University of Georgia's College of Environment and Design and serves on an advisory council for the Department of Landscape Architecture at the University of Florida.

Timothee Sallin

Actively involved in water conservation, sustainable landscaping and responsible agriculture in Florida over the past 15 years through role as President of Cherrylake.

Cherrylake is a vertically integrated landscape company providing commercial landscape and irrigation construction and maintenance services and is the largest grower of ornamental trees, palms and shrubs in the State of Florida.

Cherrylake and sister company IMG Citrus manage over 6,000 acres of land in Florida and have a long track record of sustainable land management and stewardship.

Passionate about connecting people to plants and promoting healthy ecosystems within our urban environments.

Actively involved in promoting environmental best practices across diverse industries through collaboration with industry associations such as ULI, ASLA and FNGLA as well as through research and development partnerships with UF IFAS and the SJRWMD.

A graduate of New College in Sarasota Florida earning a degree in Economics and International Studies.

Lives in Clermont with wife Ellen and daughter Aria; son Tristan is an undergraduate student at Georgia Institute of Technology.



Timothee Sallin





OUT SIDE

SUSTAINABLE LANDSCAPE COLLABORATIVE

outsidcollab.com

APRIL 23-24, 2020 | CLERMONT, FL

Pierce Jones



Sustainable Landscapes?

Sustainable Landscapes?
Quantifying Landscaping Impacts

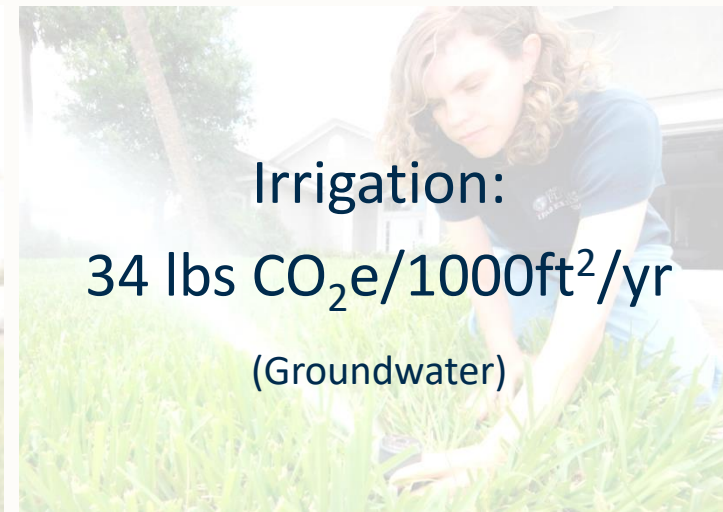
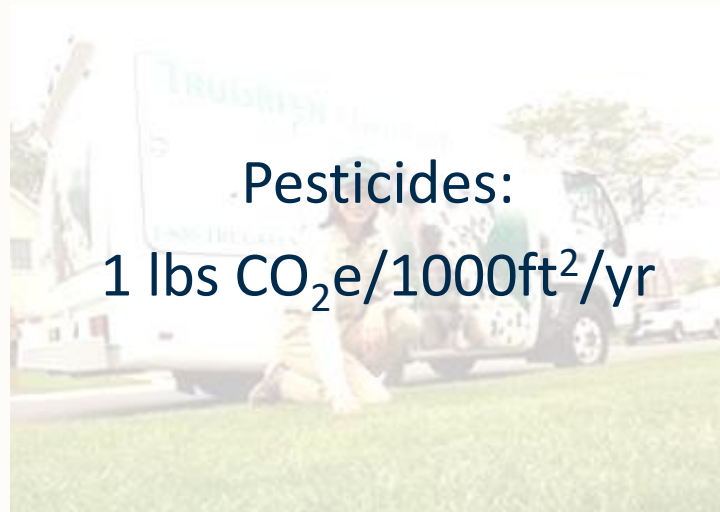
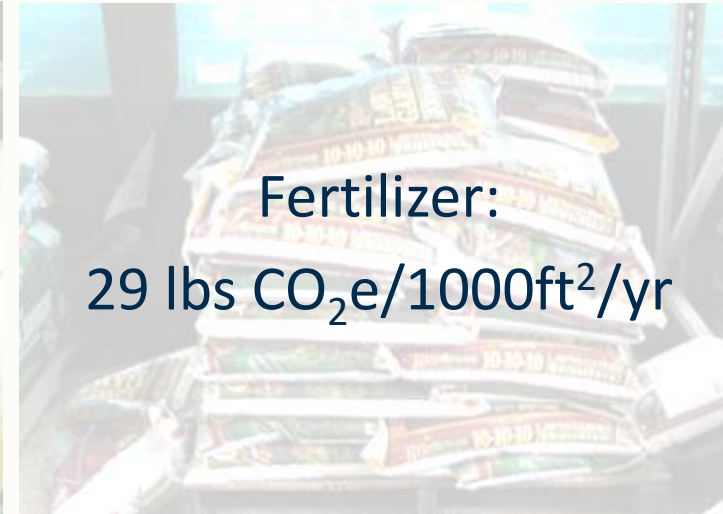
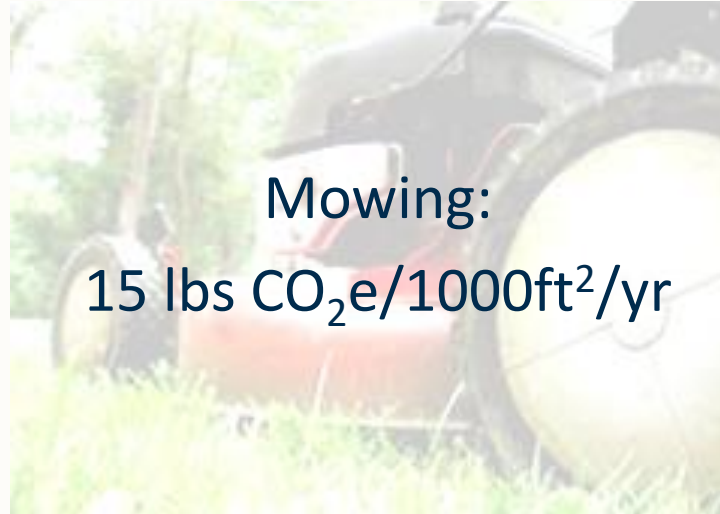
Quantifying Landscaping Impacts

Conventional Practice



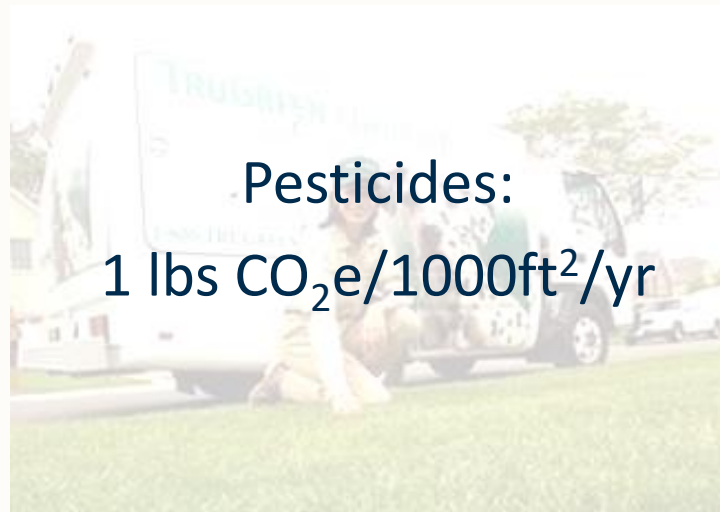
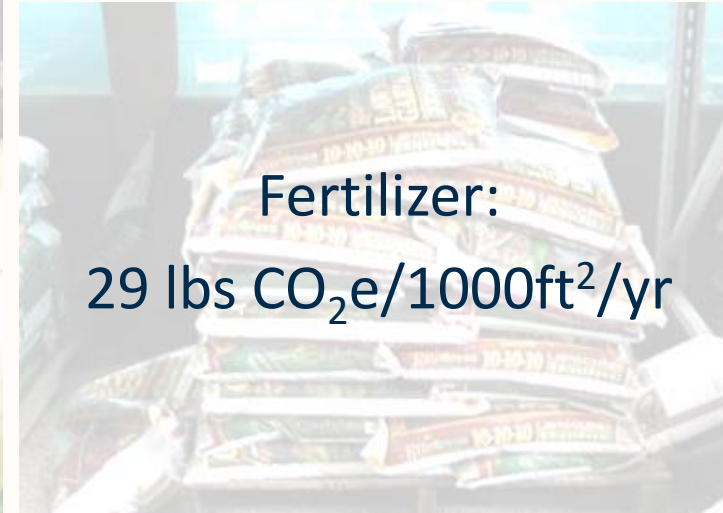
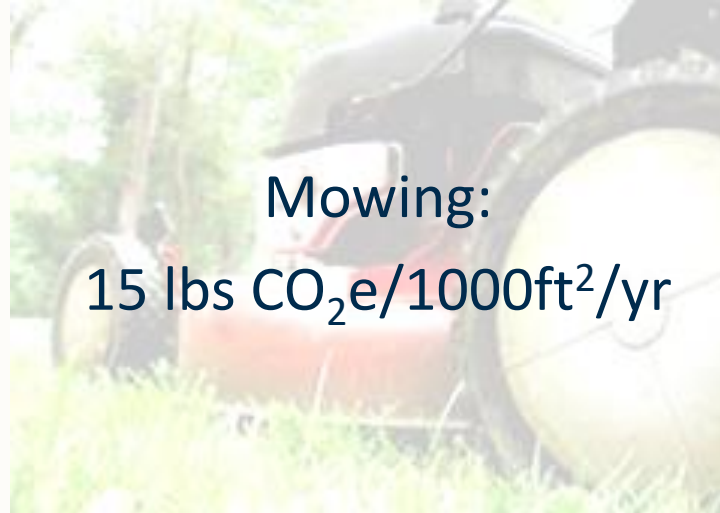
Quantifying Landscaping Impacts

Greenhouse Gas Accounting (Groundwater)



Quantifying Landscaping Impacts

Greenhouse Gas Accounting (Desal)



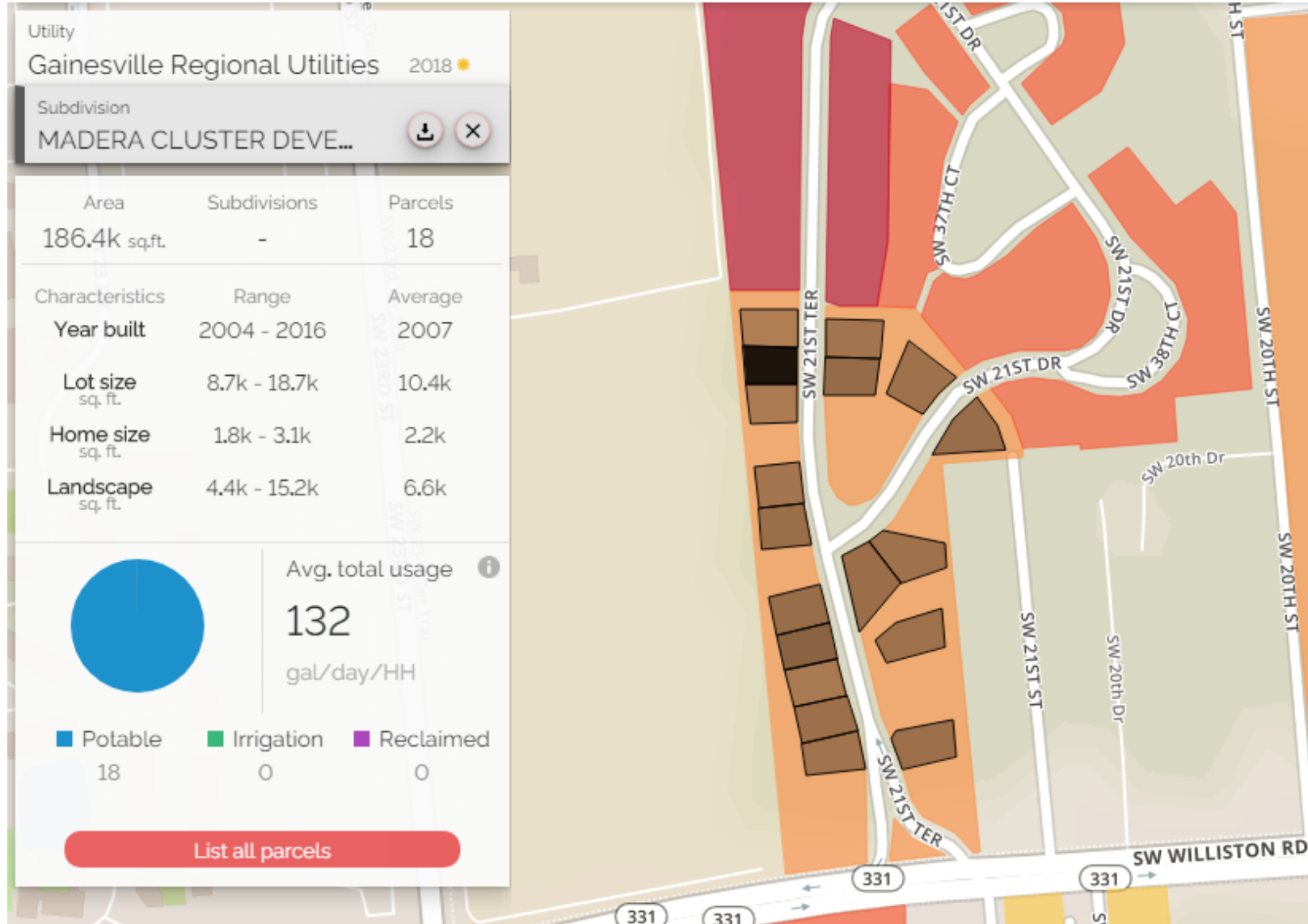
Madera

Sustainable Landscaping Successes:
Madera (2007) - Gainesville, Florida



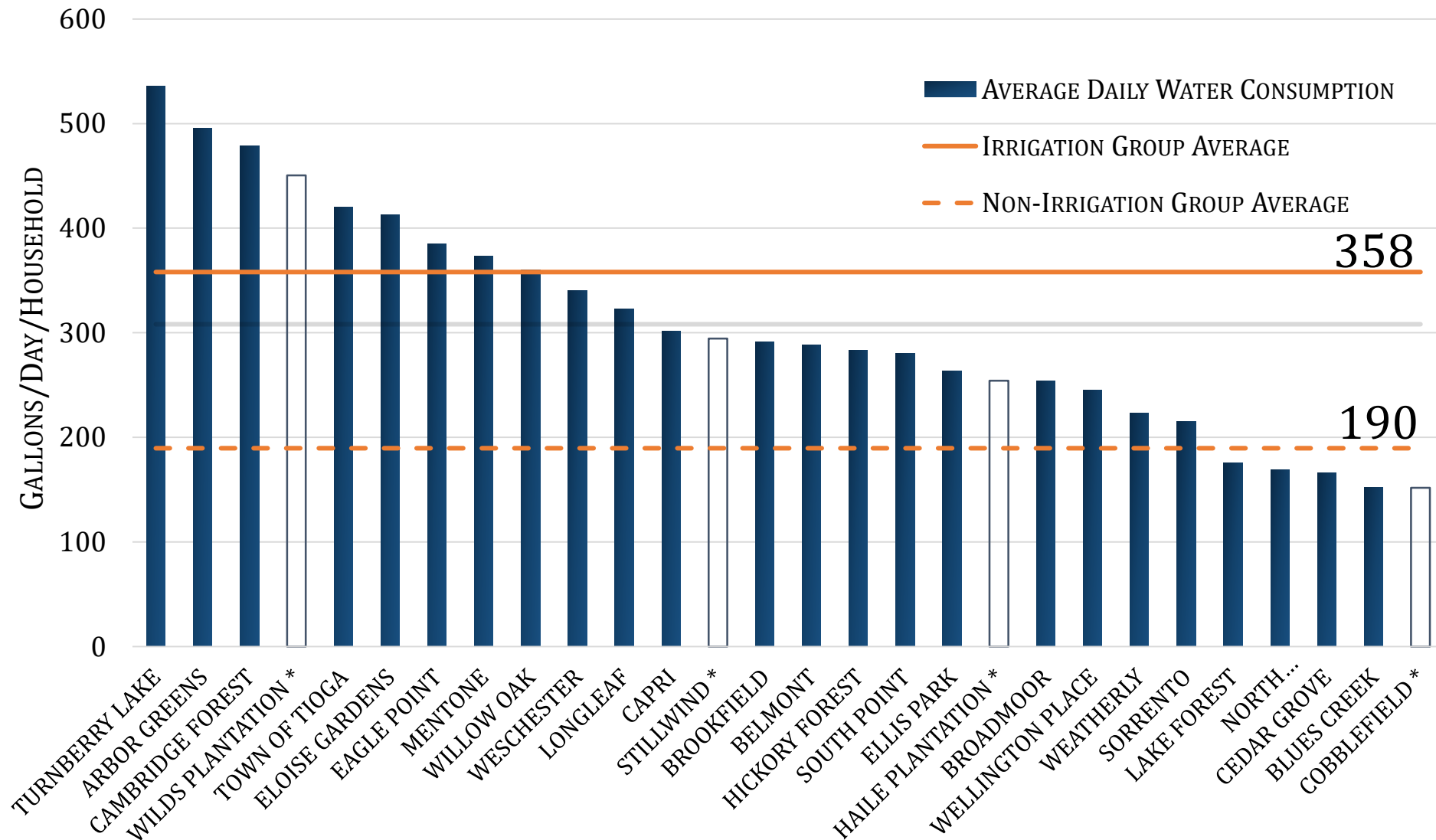
Sustainable Landscaping Successes:

Madera (2018) Water Consumption - Phase I



Sustainable Landscaping Successes:

Alachua County SFD Residential Baselines (3,035)



Sustainable Landscaping Successes: Madera (2007) - Gainesville, Florida



© 2019 GACAR

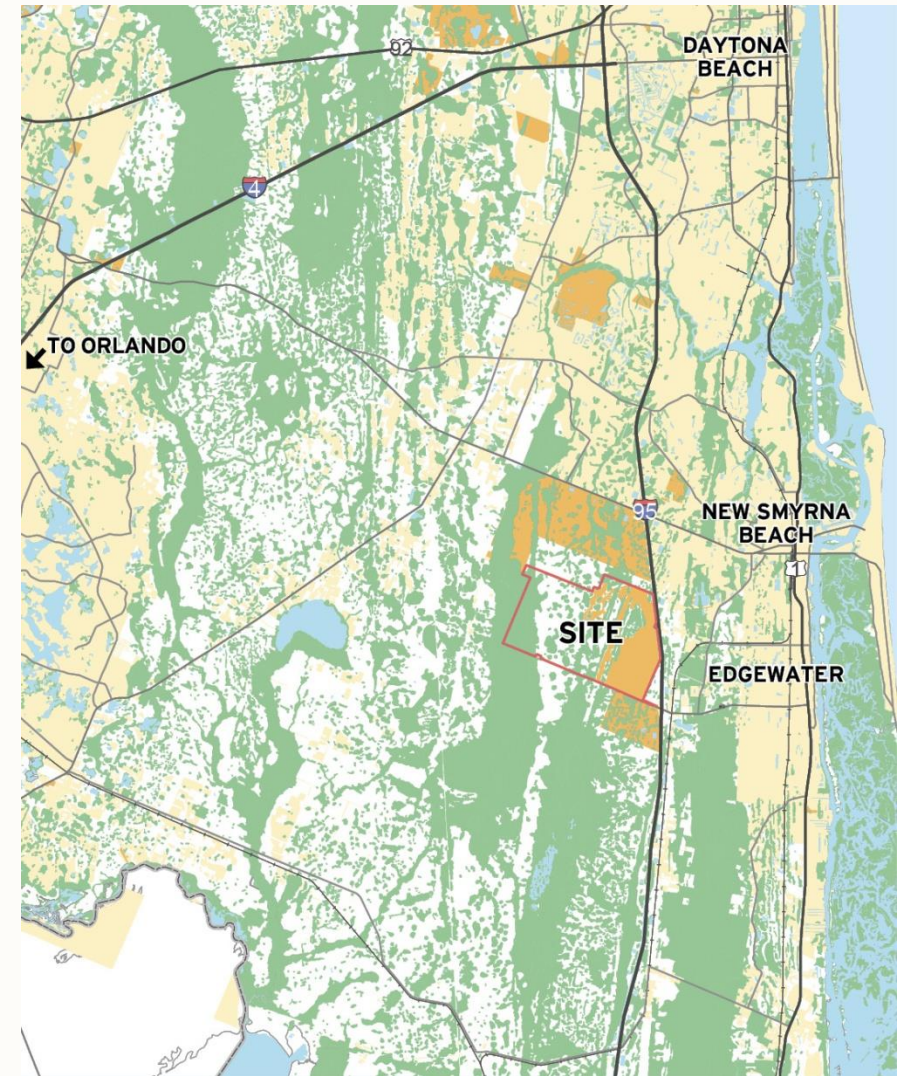
For Sale: \$435,000 (4 beds, 3 baths, 2,931 sqft)

Restoration

Restoration

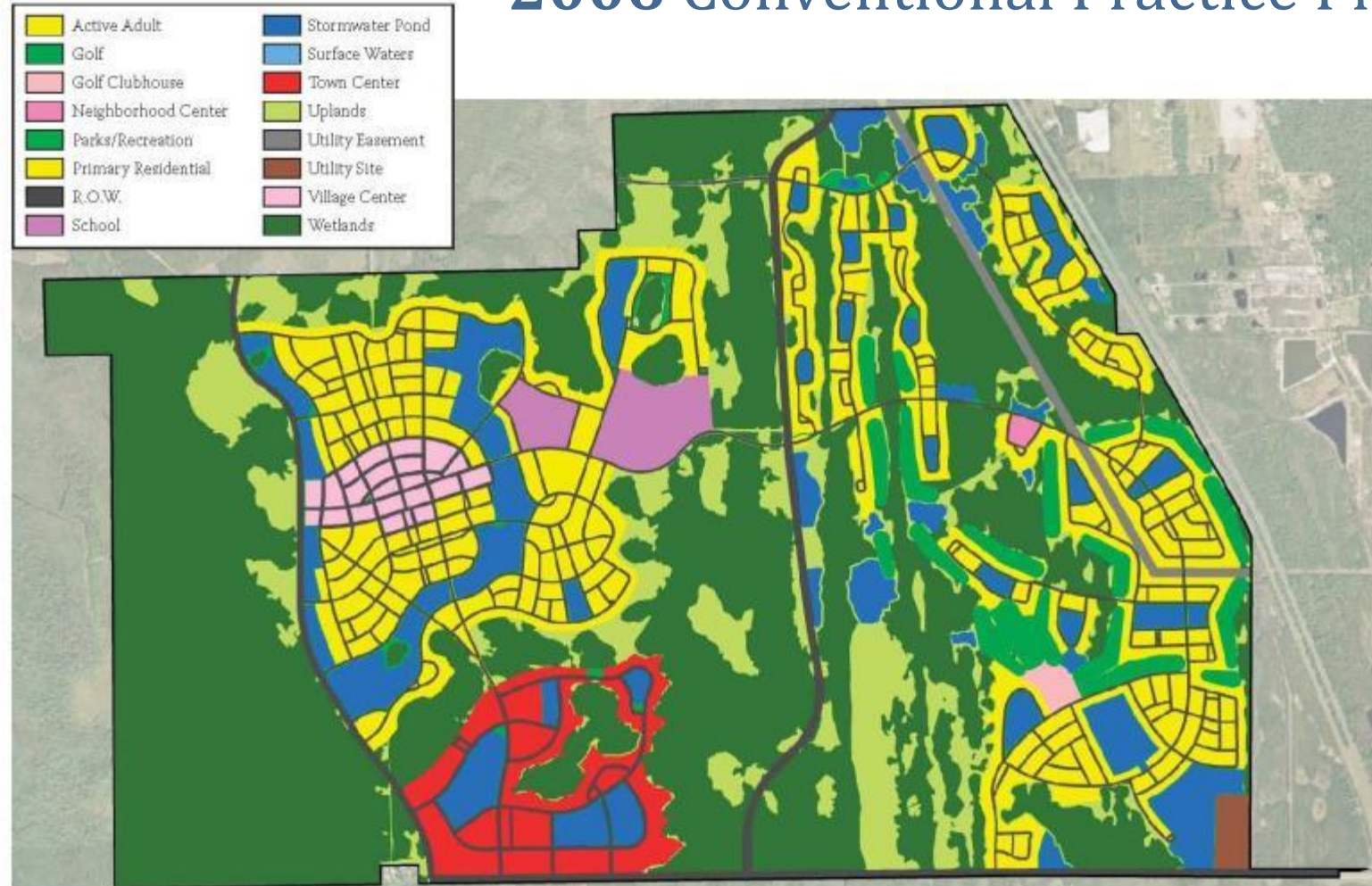
Edgewater, Florida

- This 5,187-acre master plan evolved significantly over its 4-year permitting process.
- Designs were all for 8,500 dwelling units.
- It was fully entitled based on the 2009 design.
- The entitled project created a mixed-use, transit oriented community with 3.5 million ft² of commercial space.



Restoration

2006 Conventional Practice Plan



0' 1,500' 3,000'



Master Plan - August 2006

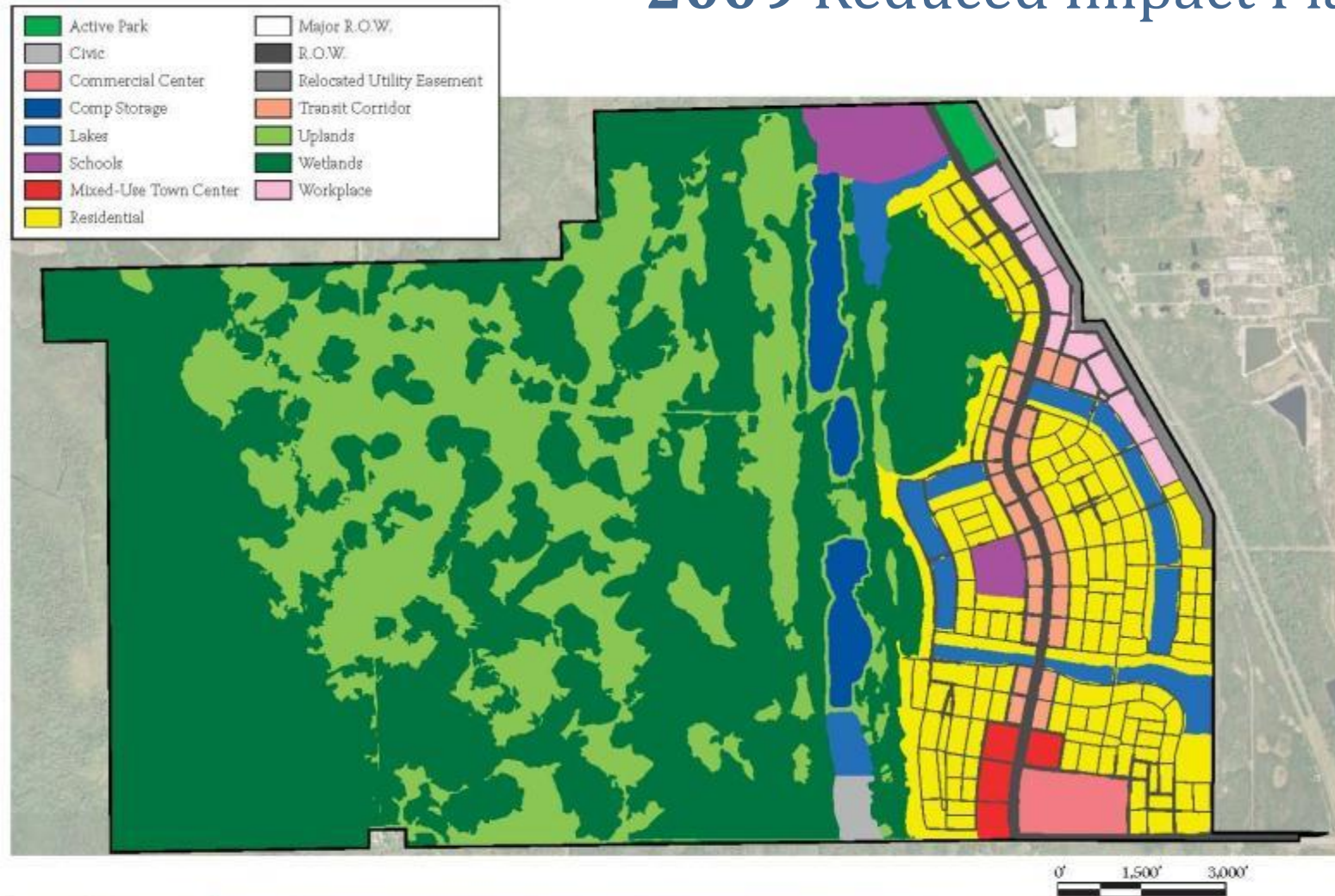
Edgewater, Florida



cmh associates
urban planning • landscape architecture • architectural design
500 delaney avenue orlando, florida 32801 407.422.4040
February 16, 2010 CA Job No: 206115

Restoration

2009 Reduced Impact Plan



Master Plan - December 2009

Edgewater, Florida



cmn associates
urban planning • landscape architecture • architectural design
500 delaney avenue • orlando, florida 32801 407.422.4040
February 16, 2010 CA Job No. 205115

Restoration

Road Infrastructure Analysis (50 year life)

Inputs

	2006 Plan	2009 Plan
• Miles:	72	39
• Lane miles:	186	103
• Impervious area, ft ²	17,000,000	10,000,000
• Landscaped area, ft ²	6,000,000	3,000,000
• Cost	\$383,623,680	\$238,180,800

GHG Emissions

• Mtons CO ₂ e/yr:	13,031	7,176
-------------------------------	--------	-------

Metric tons CO₂e/yr avoided: **5,855**

Initial costs avoided: **\$145,442,880**

Restoration

Reduced Impact Design

- The largest lots are 60' wide
- Compact homes (45'x 70' lot) 375 ft² landscaped area
- Less than 25% of residences with lots designed for any turf

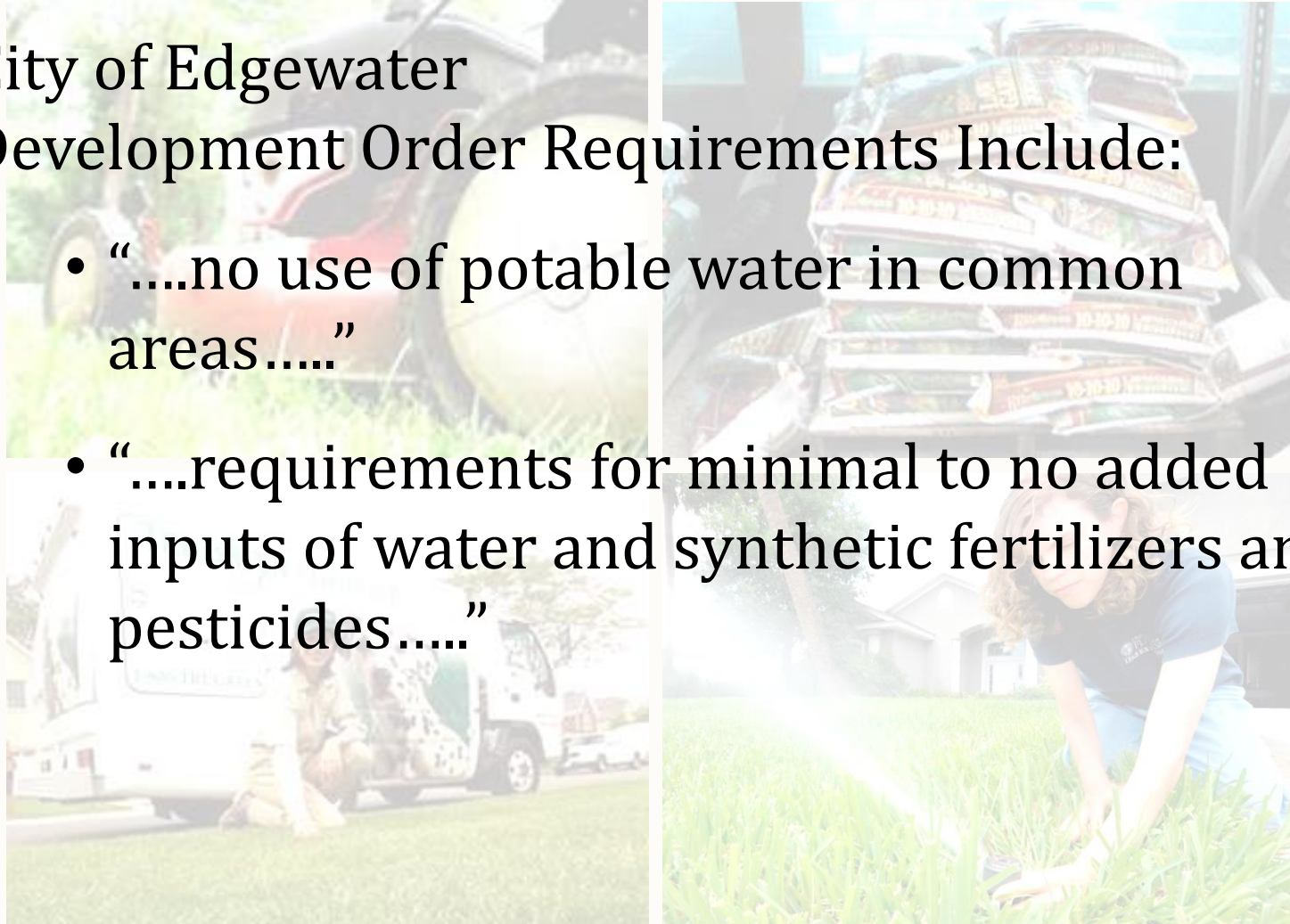


Restoration

Low Impact Practices

City of Edgewater
Development Order Requirements Include:

- “....no use of potable water in common areas.....”
- “....requirements for minimal to no added inputs of water and synthetic fertilizers and pesticides.....”



Restoration

Landscaping Resources Accounting

Inputs

- Landscaped Area - acres
- Pesticides - lbs
- Fertilizer - lbs N
- Mowing - gal gas
- Irrigation - mgal

2006 Plan

2009 Plan

988

428

2,240

345

135,000

18,400

33,000

4,460

988

63

GHG Emissions

- Mtons CO₂e/yr:

11,685

798

Metric tons CO₂e/yr avoided: **10,900**

*Barriers to Adopting Sustainable
Landscapes at Scale?*

Florida Land Development Conventional Practice



Florida Land Development Conventional Practice



*Why Florida Governments Should Focus on
Adoption of Sustainable Landscapes?*

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*

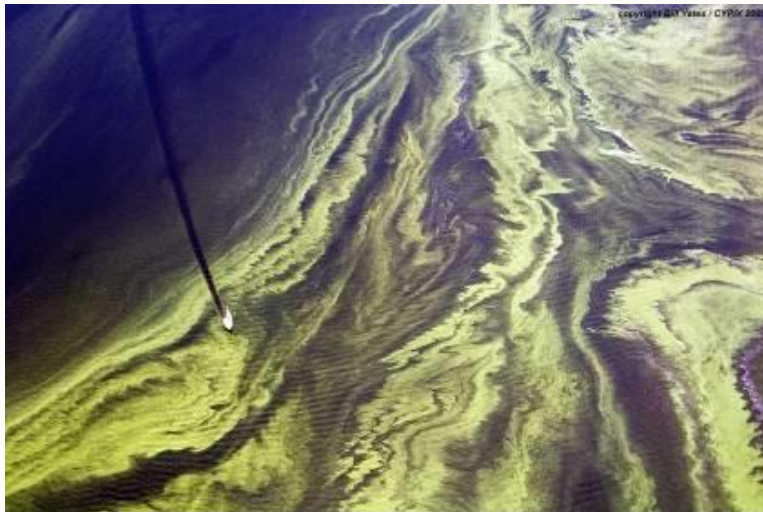
Get used to having a brown lawn for a while. As of this week, Tampa Bay Water has virtually drained its 15 billion-gallon reservoir.



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 Quality

St Johns River



Microcystis Bloom - St. Johns River mid-channel south of the Buckman Bridge - 08.19.05 - 2:04pm
copyright BAY YAKS / CYPRIX 2005 all rights reserved



Microcystis Bloom - East bank of the St. Johns River - Mandarin - 08.19.05 - 2:42pm
copyright BAY YAKS / CYPRIX 2005 all rights reserved

*Steps toward Adopting Sustainable
Landscape Policies?*

Fertilizer ban is step in right direction

By The Gainesville Sun editorial board

Posted Apr 14, 2019 at 2:01 AM

If state government won't protect our springs, local officials are right to prevent further pollution.

Last week, Alachua County commissioners approved [an ordinance banning fertilizer applications lawns from July to February](#). It also requires slow-release fertilizer to be used on lawns from March to June.



AP Photo/Dean Fosdick

Steps Toward Sustainable Landscapes

On Top of the World – Marion County, FL



Florida Land Development Trends:
Plum Creek

[CALENDAR](#)[CONTACT US](#)[LIBRARY](#)[MEDIA INQUIRIES](#)

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



ECONOMY
and INNOVATION »



ENVIRONMENT
and SUSTAINABILITY »



COMMUNITY
and CULTURE »

sector plan application

The Envision Alachua
Sector Plan application
was shaped by the
community and has been
submitted to Alachua

news and features



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

The Plum Creek Timber
Company has spent 21½ years



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



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**

CALENDAR

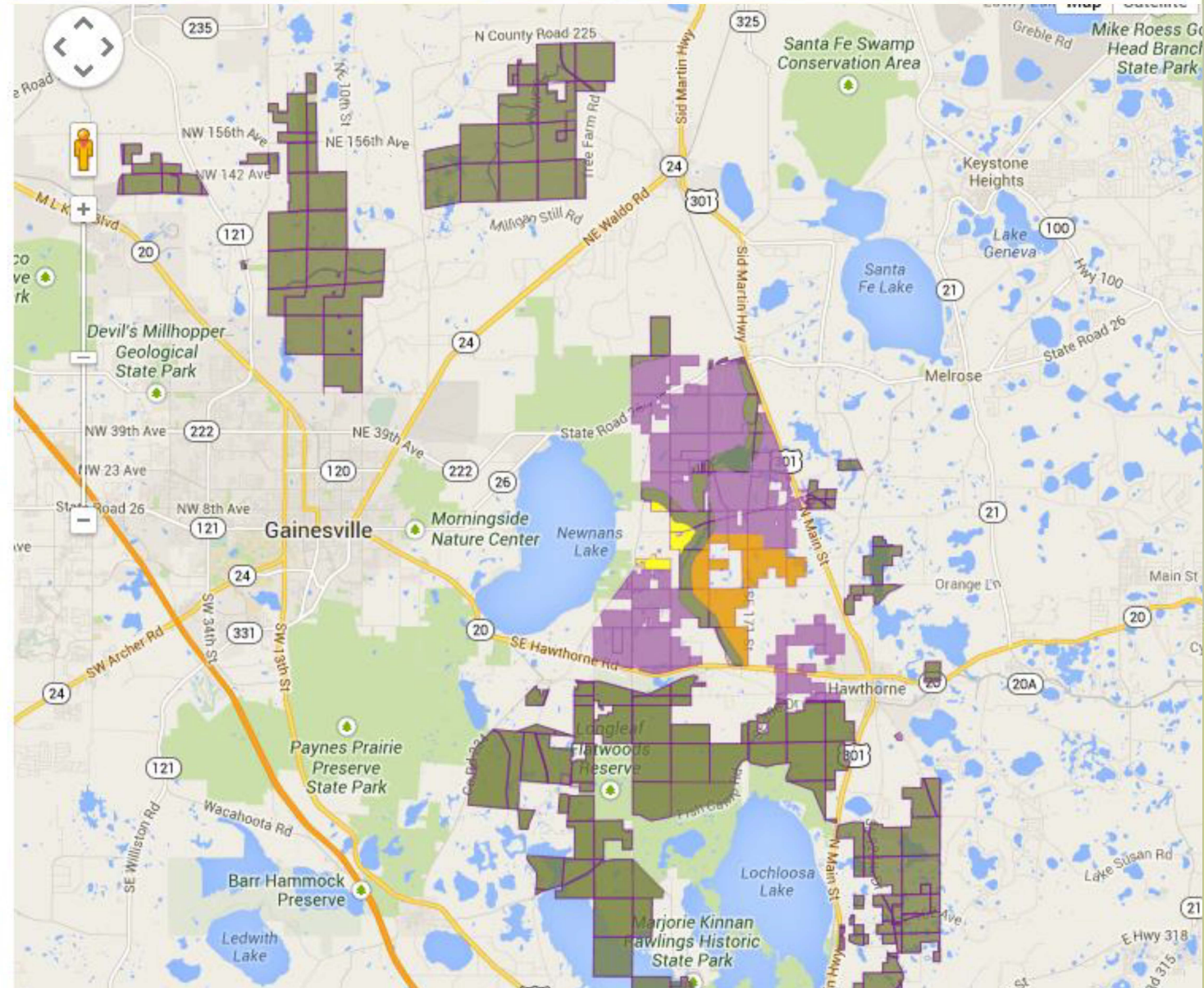
CONTACT US

LIBRARY

MEDIA INQUIRIES

A community discussion on the future of East County

CONVENED BY PLUM CREEK



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

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 Sector Plan shall use conservation-first strategies... 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.**

Christina Hite



Q.

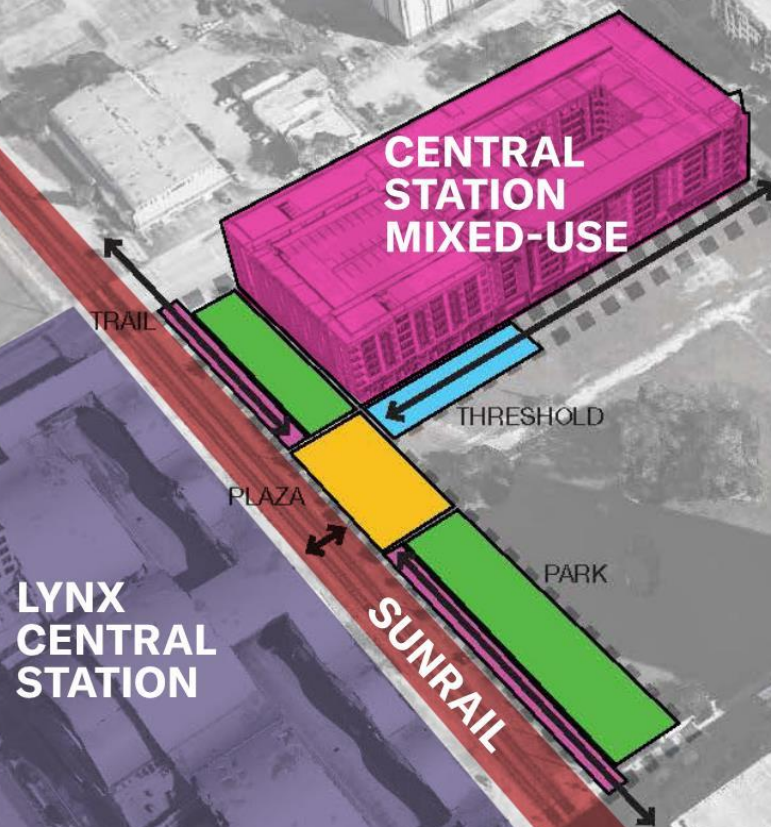
How do you define sustainable
landscapes and how are they
important?

SMART GROWTH AND COMMUNITY DESIGN



SMART GROWTH AND COMMUNITY DESIGN

**MANY MOVEMENTS,
ACTIVITIES AND BOUNDARIES
MERGING WITHIN SITE**



HUB

- THRESHOLD** - Provides boundary between residents and the public.
- PLAZA** - Draws users into and through space. Provides shade for waiting and watching.
- PARK** - Provides relief for residents, trail users and SunRail riders.
- TRAIL** - Dynamic portion of the regional bikeway connection through downtown, Gertrude's Walk.

SMART GROWTH AND COMMUNITY DESIGN



FLORIDA FRIENDLY



LOW IMPACT DEVELOPMENT IMPLEMENTATION



CONSERVATION & PRESERVATION



Q.

What are some of the successes
that you have experienced in this
field that you can share?

OVIEDO ON THE PARK

SMART GROWTH & COMMUNITY DESIGN

2002

2007

2015

2018

OVIEDO ON THE PARK

SMART GROWTH & COMMUNITY DESIGN



OVIEDO ON THE PARK

SMART GROWTH & COMMUNITY DESIGN



OVIEDO ON THE PARK

SMART GROWTH & COMMUNITY DESIGN



OVIEDO ON THE PARK

FLORIDA FRIENDLY



OVIEDO ON THE PARK

LOW IMPACT DEVELOPMENT IMPLEMENTATION



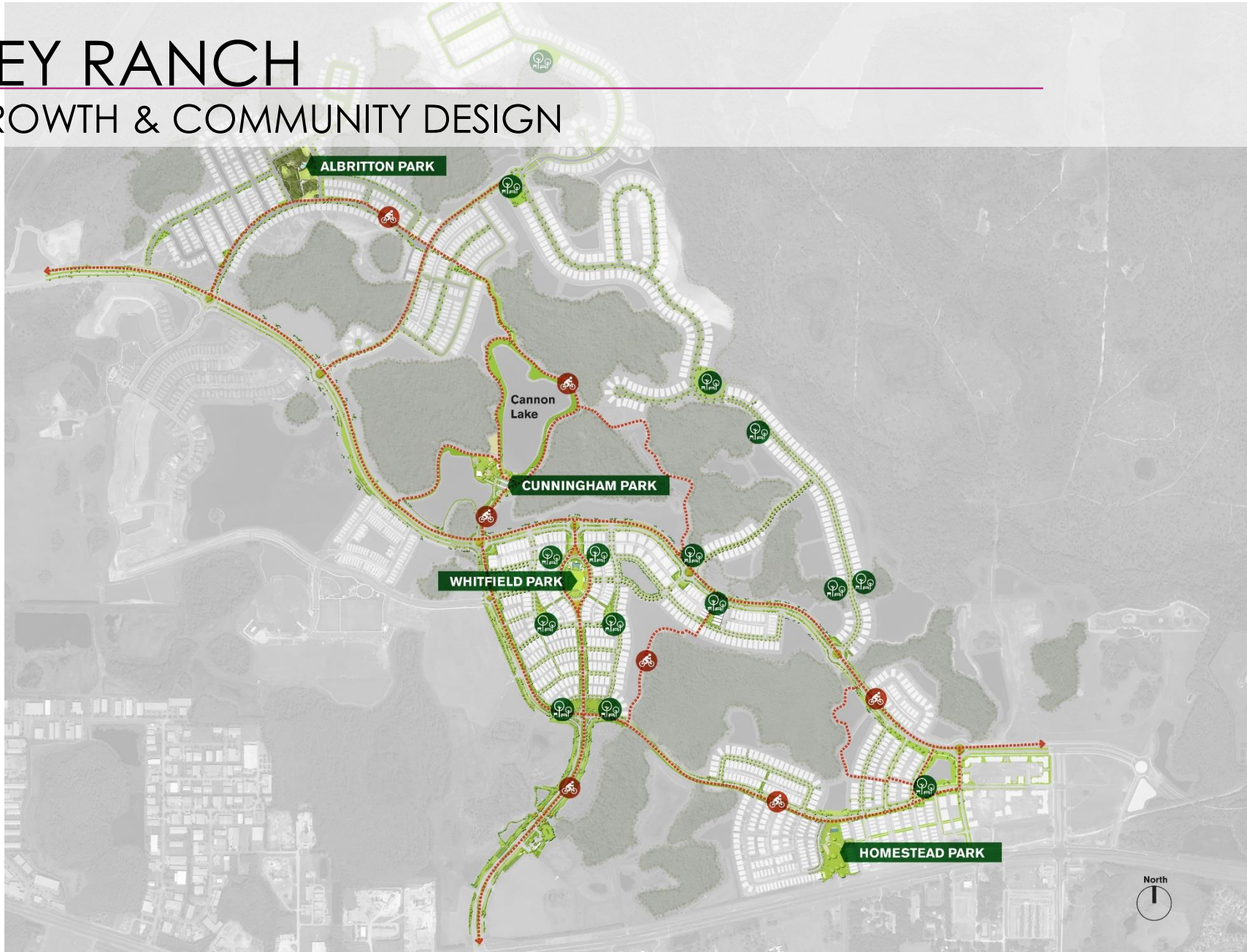
OVIEDO ON THE PARK

CONSERVATION & PRESERVATION



STARKEY RANCH

SMART GROWTH & COMMUNITY DESIGN



STARKEY RANCH

SMART GROWTH & COMMUNITY DESIGN



STARKEY RANCH

FLORIDA FRIENDLY



STARKEY RANCH

LOW IMPACT DEVELOPMENT IMPLEMENTATION



STARKEY RANCH

CONSERVATION & PRESERVATION

HAMLIN

SMART GROWTH & COMMUNITY DESIGN



HAMLIN

LOW IMPACT DEVELOPMENT IMPLEMENTATION



HAMLIN

FLORIDA FRIENDLY



HAMLIN

CONSERVATION & PRESERVATION

DENSITY & INTENSITY

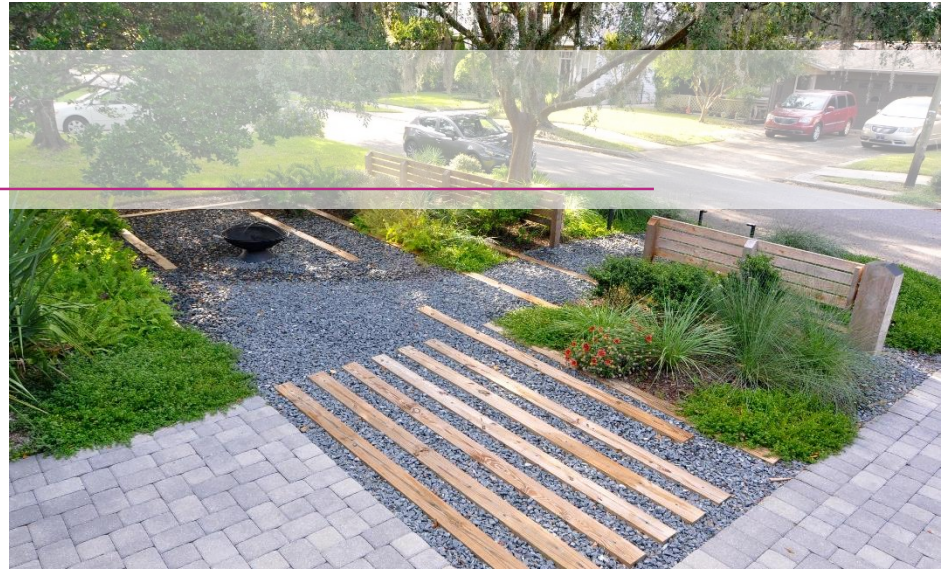
INFILL



PUBLIC REALM



HOMESTEAD



Q.

What are the main challenges and obstacles to the adoption of sustainable landscapes at a meaningful scale?

CHALLENGING THE NORM



CHALLENGING THE NORM



Q.

Why is it important for the State of Florida to focus resources on the adoption of sustainable landscapes?

PROTECT VITAL RESOURCES



Q.

What are some of the next steps for moving the State forward towards the adoption of sustainable landscape?

REDUCE NEW DEVELOPMENT WATER USE



REDUCE PERSONAL WATER USE



A DIVERSIFIED FLORIDA AGRIBUSINESS

 cherrylake



SUSTAINABILITY

Noun [suh-stey-nuh-bil-i-tee]

1. The ability to adapt to changes.

RESILIENCE

Noun [ri-zil-yuh ns]

1. An ability to recover from adversity and change.



LANDSCAPES

Noun [land-skeyp]

1. The natural and man-made geophysical features of our outside environment. These include our natural forests, urban forests, wetlands, rivers, streams, conservation areas, restoration areas, green infrastructure, green corridors, parks, trails, buffers, lawns, groundcovers and ornamental landscapes.



OUT
SIDE

LANDSCAPES

Noun [land-skeyp]

1. The natural and man-made geophysical features of our outside environment. These include our natural forests, urban forests, wetlands, rivers, streams, conservation areas, restoration areas, green infrastructure, green corridors, parks, trails, buffers, lawns, groundcovers and ornamental landscapes.



LANDSCAPES

Noun [land-skeyp]

2. Dynamic ecosystems that include plants, water, soil, microzoa, animals and humans.

LANDSCAPES

Landscapes provide many essential ecosystem services that support life, human health, social wellbeing, and economic growth. Among the most important functions of landscapes are clean air, clean water, biodiversity, carbon sequestration and beauty.

SUSTAINABLE LANDSCAPES

Landscapes that are able to maintain an ecological balance overtime with minimal human inputs and in ways that do not adversely affect surrounding natural systems. These are resilient landscapes that are designed and managed in such a way as to reliably provide essential ecosystem services and value to societies today and for future generations.

BEYOND SILOS



CHAIN OF CUSTODY

Integrity



Continuity

Accountability

NEXT STEPS...

What are some of the next steps for moving local governments and the State forward towards the adoption of sustainable landscape policies and principles?



Tickseed is a bright flower that's well known for its ability to spring up anywhere in Florida. The small blooms can be either yellow, white, purple, or pink and are easy to spot.



Also known as American Mulberry, the beautyberry is a Floridian native that offers stunning purple berries that attract a wide range of area birds.

THE #1 THING...

local governments can do is improve
their landscape codes and ordinances.

IMPROVING CODES & ORDINANCES

Codes can be reviewed and updated to address the following:

1. Encourage Native Plants
2. Encourage Species Diversity
3. Encourage Water Efficient Irrigation
4. Preservation of Mature Trees,
5. Protect Rare, Threatened and Endangered Species
6. Encourage Certification

https://www.fnps.org/assets/pdf/pubs/model_landscape_ord_final_022407.pdf

IMPROVING CODES & ORDINANCES

Codes can be reviewed and updated to address the following:

1. **Encourage Native Plants**
2. **Encourage Species Diversity**
3. **Encourage Water Efficient Irrigation**
4. Preservation of Mature Trees,
5. Protect Rare, Threatened and Endangered Species
6. Encourage Certification

https://www.fnps.org/assets/pdf/pubs/model_landscape_ord_final_022407.pdf

IMPROVING CODES & ORDINANCES

1. Encourage Native Plants

- Require Minimum Percentage of Native Plants for Private Development
- Provide a list of appropriate and recommend native plants by landscape category
- Provide incentives such as “Alternative Minimum Specifications” for selected targeted native plants

Model Native Plant Landscape Ordinance Handbook



© Shirley Danton

Florida Native Plant Society

Post Office Box 278
Melbourne FL 32902-0278
Email: info@fnps.org
Website: www.fnps.org

Prepared by:
Conservation Clinic
University of Florida Levin College of Law
Erika Zimmerman, J.D. Candidate
Thomas T. Ankersen, Director
Erick Smith, Advisor, FNPS Payne's Prairie Chapter

Florida Native Plant Society

[Who We Are](#)
[What We Do](#)
[Native Plants](#)
[Resources](#)
[Events](#)
[Chapters](#)
[Join / Support](#)

Image by Donna Bollenbach

[Join](#)
[Donate](#)

News

Saddened by the loss of a founding member of Sea Rocket Chapter

It is with great sadness that we share the news of Suzanne Meyer's passing, on April 22nd, from complications of Parkinson's Disease. Suzanne was one of the founding members of the Sea Rocket Chapter, and a long time FNPS member. We remember her for her tireless efforts on behalf of FNPS and the Sea...

[Read Full Story >>](#)

Posted September 12, 2018

FNPS Loses Another Friend

We are saddened by the sudden loss of Angela Loper. Angela and her husband James have been longtime supporters of our mission and our Ixia Chapter. Their native plant nursery and landscaping business "Reflections of Nature Nursery" is a shining star in north Florida. Angela was born on August...

[Read Full Story >>](#)

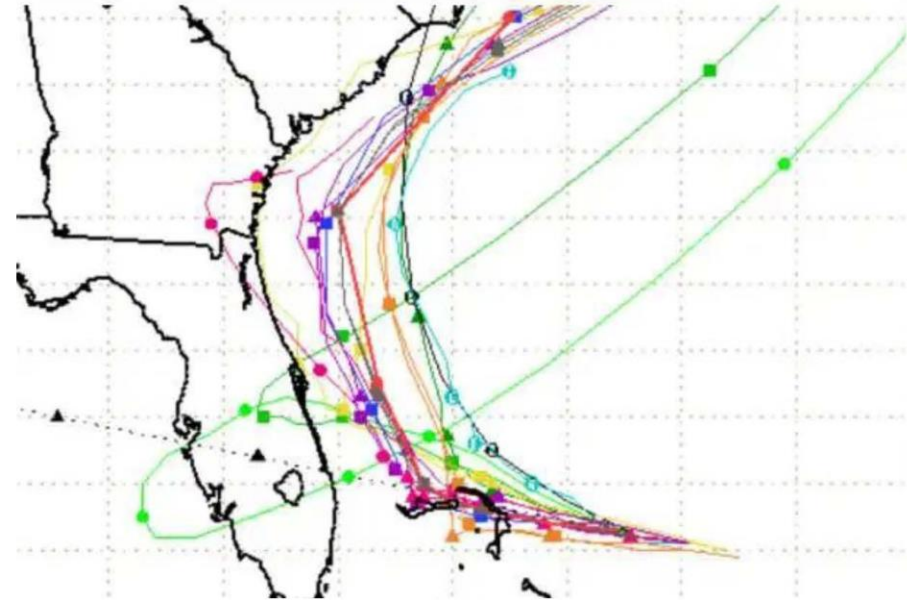
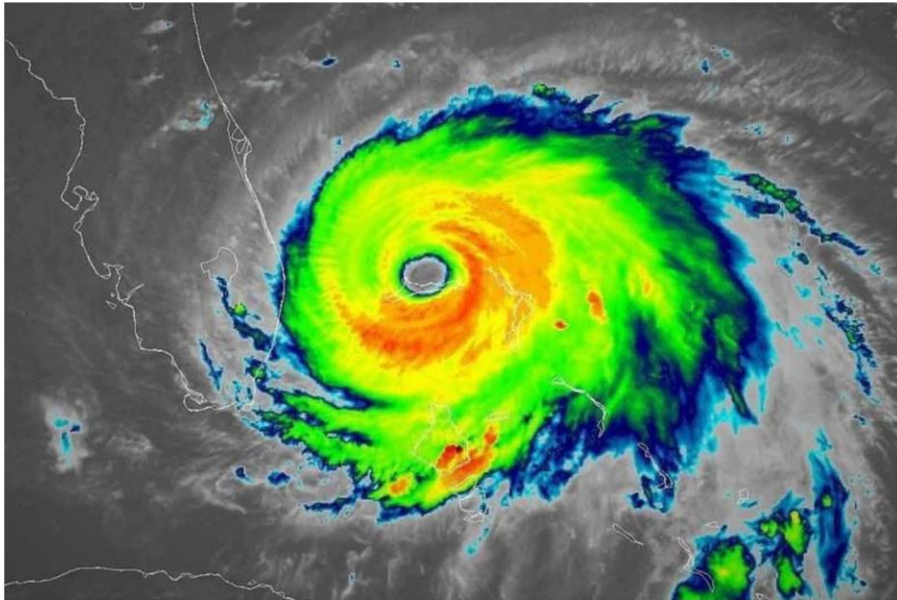
Follow along with us:

- [FNPS blog](#)
- [Facebook](#)
- [Twitter](#)
- [Flickr Photos](#)
- [Videos](#)
- [Instagram](#)
- [LinkedIn](#)
- [Follow](#) 247

[Frequently Asked Questions](#)

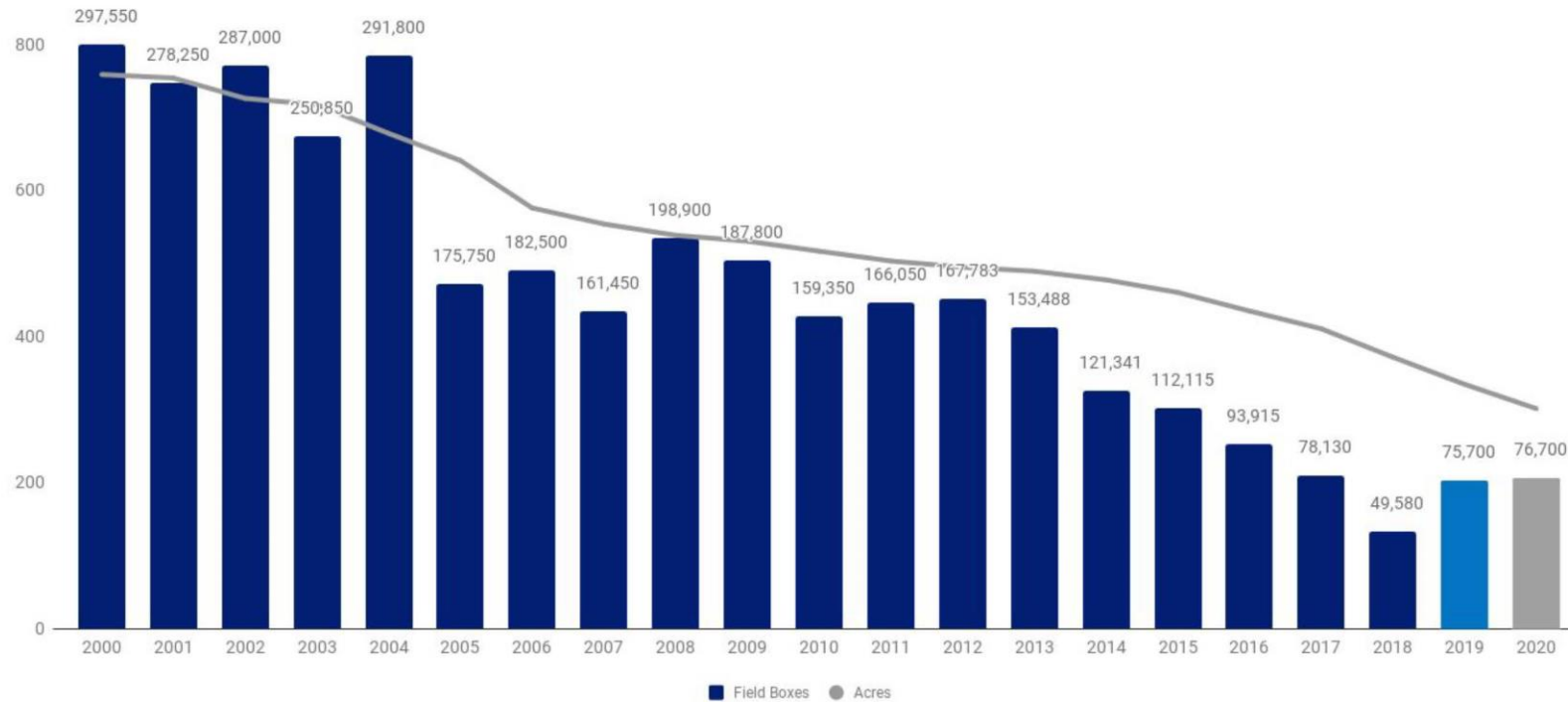
[Find Plants](#)
For your location and setting

HURRICANE DORIAN



FLORIDA CITRUS

Bearing acreage & field boxes produced (\$000's)



IMPROVING CODES & ORDINANCES

2. Encourage Species Diversity

- Requiring no more than a certain percentage of groundcovers, shrubs, or trees may be any one species.
- Require a minimum number of plant species for groundcovers, shrubs and trees
- Provide incentives such as “Alternative Minimum Specifications” for selected targeted species



OUT
SIDE

IMPROVING CODES & ORDINANCES

3. Encourage Water Efficient Irrigation

- Pressure regulated heads with check valves
- Rotary Nozzles
- Pressure regulated valves
- Require smart controllers with advanced features
- Soil Moisture Sensors
- Flow monitoring at the source

IMPROVING CODES & ORDINANCES

- Provide education and demonstration gardens on public lands and around public buildings.
- Recognize local businesses and developments for outstanding landscapes.
- Create a landscape committee with qualified professionals and engaged citizens who are informed on sustainable landscape principles and practices.
- Become a Tree City USA and/or BEE City USA.
- Celebrate Earth Day and Arbor Day.
- Engage Local Nurseries, Garden Clubs, Landscape and Environmental Professionals.

UPDATE THE STATE BUILDING CODE

- Water Efficient Irrigation Design and Technology
- Uniform minimum standard for entire State
- Eliminate deceptive bidding practices
- Promote industry professionalism
- Potential to reduce water usage by over 30%
- Require systems to be audited / inspected every 2-3 years



FOOD SAFETY AS A MODEL FOR LANDSCAPE CERTIFICATION

THIRD PARTY ENTITIES

Establish Standards

Audit

Certify



FOOD SAFETY PRINCIPLES

Hazard Analysis and Critical Control Points (HACCP) is a major set of principles followed in food and retail service to ensure food safety in preparation and service consumers.

Step 1:	Perform a Hazard Analysis
Step 2:	Identify Critical Control Points
Step 3:	Establish Critical Limits
Step 4:	Monitor the Critical Control Point
Step 5:	Establish Corrective Action
Step 6:	Verification
Step 7:	Keep a Record

Documenting critical control points and recording inputs applied to landscape maintenance

ACCOUNTABILITY

TRACEABILITY

STANDARDIZATION

TRANSPARENCY

Addressing Human Health and Safety

CRITICAL CONTROL POINTS FOR LANDSCAPE MAINTENANCE

Fertilizer application

Chemical application

Composting

Biological Releases

Water Management

Irrigation Inspection

Soil Testing

Plant Tissue Analysis

Employee Training

Certification & Licensing

Digital Record Keeping

Third Party Auditing



YOU IMPROVE WHAT YOU MEASURE

Cost Data

Quantitative tracking of input

Feedback Loop

Research and Development

Continuous Improvement

Quantitative Goals

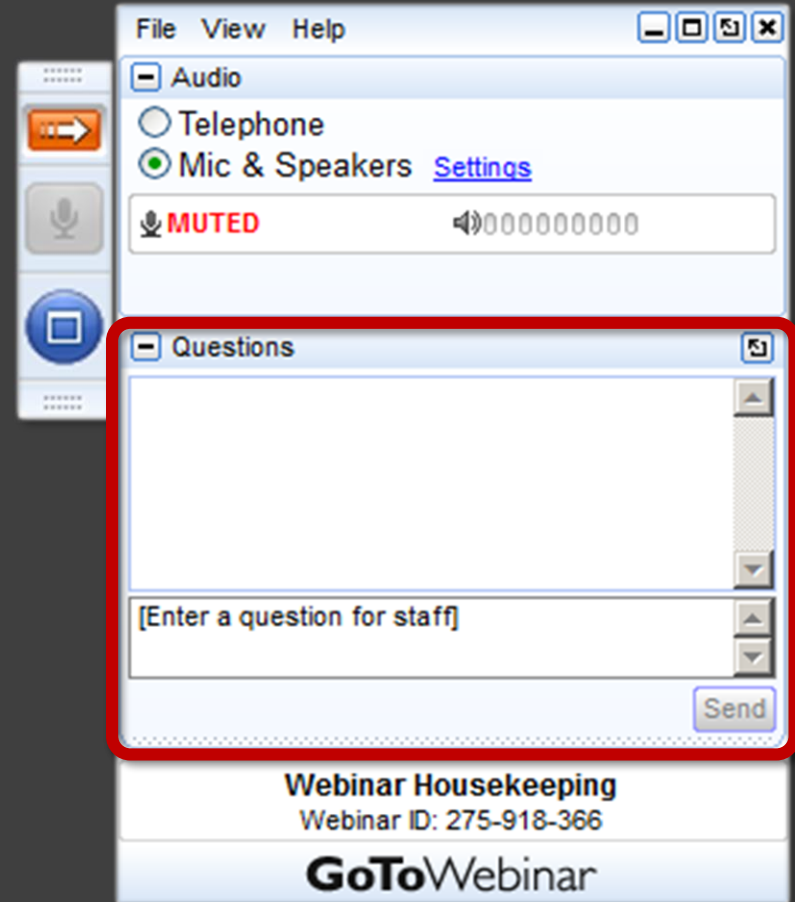
Outcome driven



Questions and answers

Please ask 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 the 1000 Friends of Florida website. The header features the organization's logo and navigation links: About Us, Building Better Communities, Saving Special Places, Planning Tools, Outreach, and Donate Now. A large banner image titled "Saving Special Places" shows a person in a kayak on a lake with lily pads. Below the banner, there are several featured articles and sections:

- How will Florida accommodate 15 million new residents?**: A section discussing population projections and the impact on Florida's environment, accompanied by a map of Florida showing population density.
- Recycle Right to Meet Industry Challenges**: A section about recycling and its importance, with a red circle highlighting the title.
- Sustainable Landscaping Principles and Practices**: A section about landscaping, with a red circle highlighting the title.
- Trouble in Paradise**: A section about environmental issues in Florida, with a red circle highlighting the title.
- Current Foresight**: A section about future planning, with a red circle highlighting the title.

On the left side of the page, there are links for "Receive Email Alerts", "Search", "Gallery", "Member Login", "Contact Us", and "Join Us".

The screenshot shows the GoToWebinar interface. The top bar indicates "Audience view 100%" and "Sharing" status. Below this, there are controls for "Show Screen", "Stop Showing Screen", "Give Keyboard & Mouse", and "Change Presenter". A "Start Recording" button is also visible, along with a "Settings" gear icon. The main content area lists various webinar features:

- Webcam
- Audio
- Dashboard
- Attendees: 1 of 501 (max)
- Polls (0/0)
- Handouts: 0 of 5 (highlighted with a red circle)

At the bottom, there is a "Chat" section with the title "Planning for Community Resilience and His..." and the Webinar ID: 984-421-467. The GoToWebinar logo is displayed at the bottom right.



Due to constraints on staff time, we have only applied for professional certification credits for participants who attend the live webinar, not those who view the broadcast.

