



Dr. John M. DeGrove Webinar Series

Reducing the Footprint of Irrigated Landscapes in Florida's Residential Developments

IMPORTANT!

Due to constraints on staff time,
we only apply for professional certification credits
and provide confirmation of attendance
for participants who attend the **live webinar**,
NOT those who view the recorded broadcast at a later date.

1000 Friends of Florida

Building Better Communities & Saving Special Places

Florida's leading nonprofit advocate for sustainable development

Work with citizens, community and state leaders,
conservation and business groups

Educate, advocate and negotiate
to protect Florida's high quality of life

Please support us at www.1000friendsofflorida.org/donate-now/

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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/



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This webinar has been approved for:

1.5 AICP CM for planners (#9212157)

1 CEC for Certified Floodplain Managers

1 contact hour for Florida Environmental Health Professionals

1.5 credits for Florida landscape architects (DBPR Course #0012316, PVD #151)

CE's for Florida Water Star AP's and Inspector

2.0 CLE (#2101971N) for Florida attorneys



Follow up survey, certificate and credits:

In the follow up email for the LIVE WEBINAR you will receive:

- A link to a **brief survey** to help us improve future webinars
- A certificate of attendance (use Google Chrome to download)

*Credits for past webinars are available at
1000fof.org/upcoming-webinars/credits*



For Landscape Architects

1000 Friends only provides certificates of attendance for those who attend the live webinar

Add this to your certificate for today's webinar:
(DBPR Course #0012316, PVD #151, Your DBPR #)

1. In the follow up email sent an hour after the live webinar you will receive a certificate of attendance
2. Use Google Chrome to download the certificate
3. Add the course number, provider number (PVD 151) and your number to the certificate
4. When the course number is available it will be posted at 1000fof.org/upcoming-webinars/credits
5. Submit the certificate yourself to DBPR

Florida Landscape Architects – 1000 Friends of Florida Provider #PVD151



Upcoming Webinars

Register at www.1000fof.org/upcoming-webinars

- May 12 – 2021 Florida Legislative Wrap Up

Support 1000 Friends!

Donate on-line at www.1000fof.org/donate

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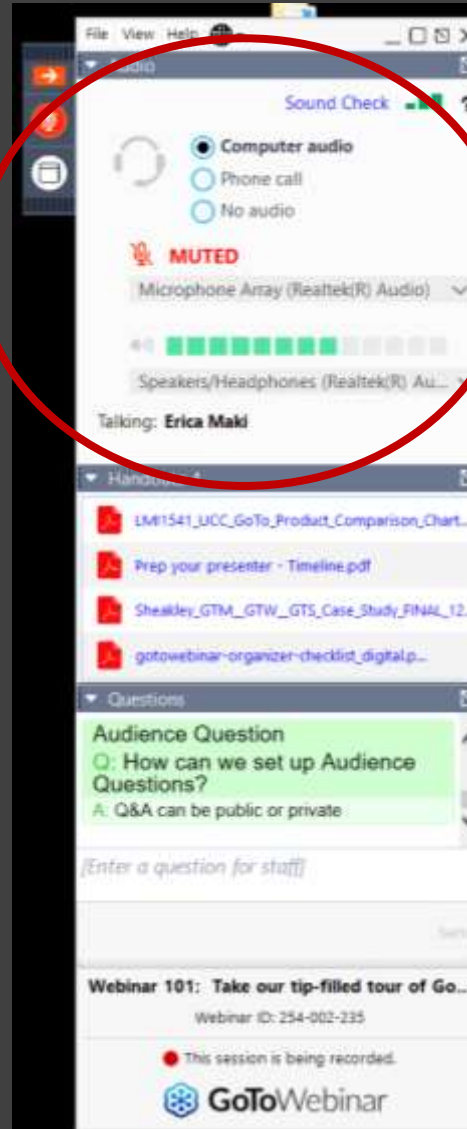
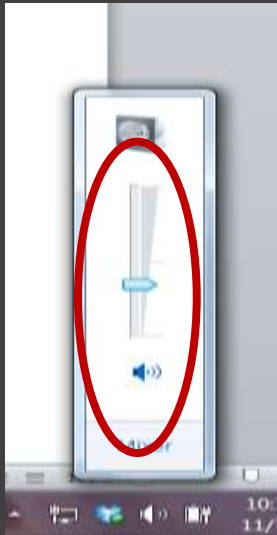
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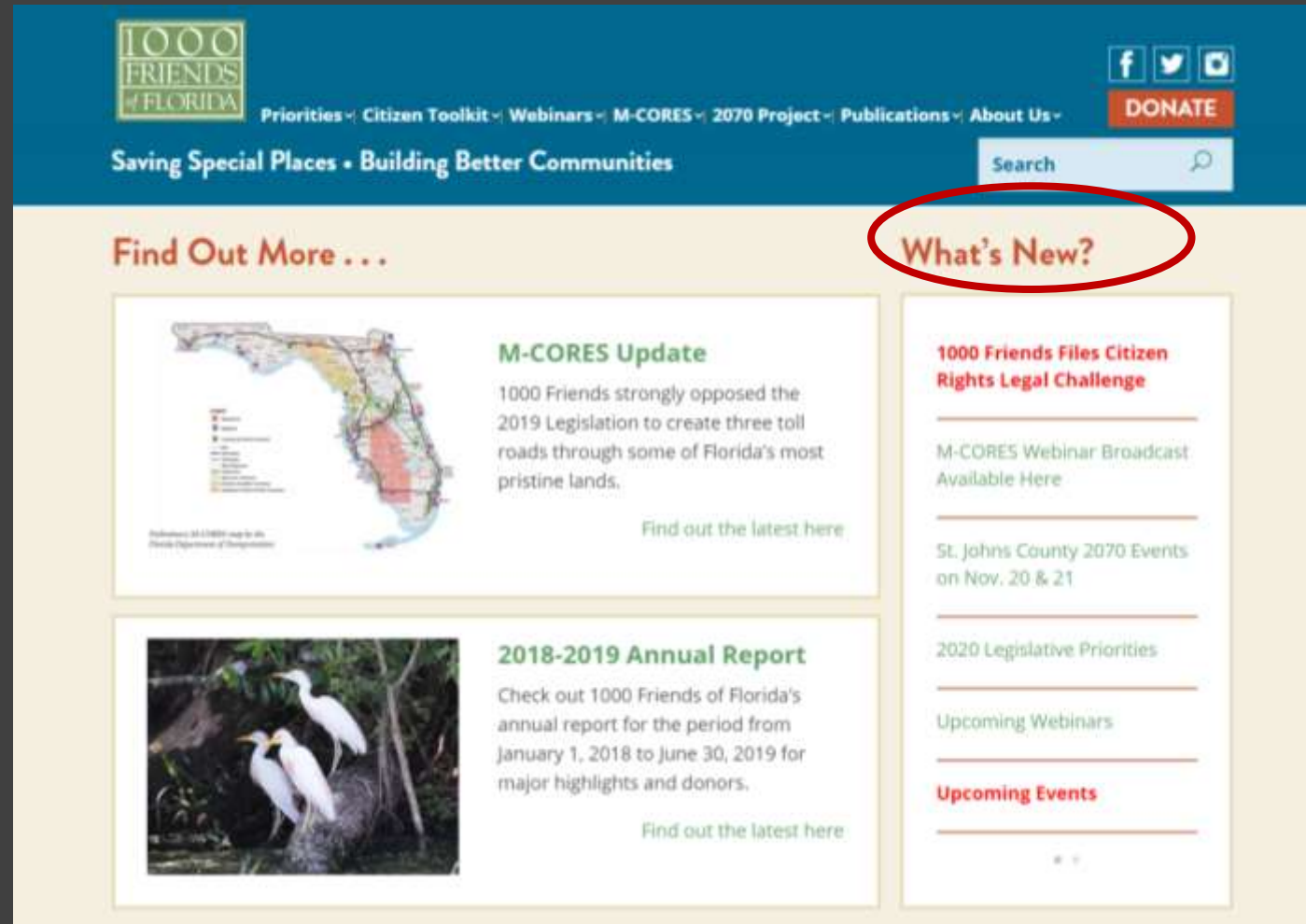


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1. Make sure the speaker on your computer is turned on
 - a. Adjust the volume on your computer
2. On Go-to-Webinar control panel click arrow to maximize control box
 - a. Click on arrow by Audio box to maximize it
 - b. Do Sound Check OR
 - c. Switch to Phone call and it will provide you with a number and pin

The PowerPoint is posted under “What’s New”
at www.1000fof.org



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Save Special Places • Building Better Communities

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M-CORES Update

1000 Friends strongly opposed the 2019 Legislation to create three toll roads through some of Florida's most pristine lands.

[Find out the latest here](#)

2018-2019 Annual Report

Check out 1000 Friends of Florida's annual report for the period from January 1, 2018 to June 30, 2019 for major highlights and donors.

[Find out the latest here](#)

What's New?

1000 Friends Files Citizen Rights Legal Challenge

[M-CORES Webinar Broadcast Available Here](#)

[St. Johns County 2070 Events on Nov. 20 & 21](#)

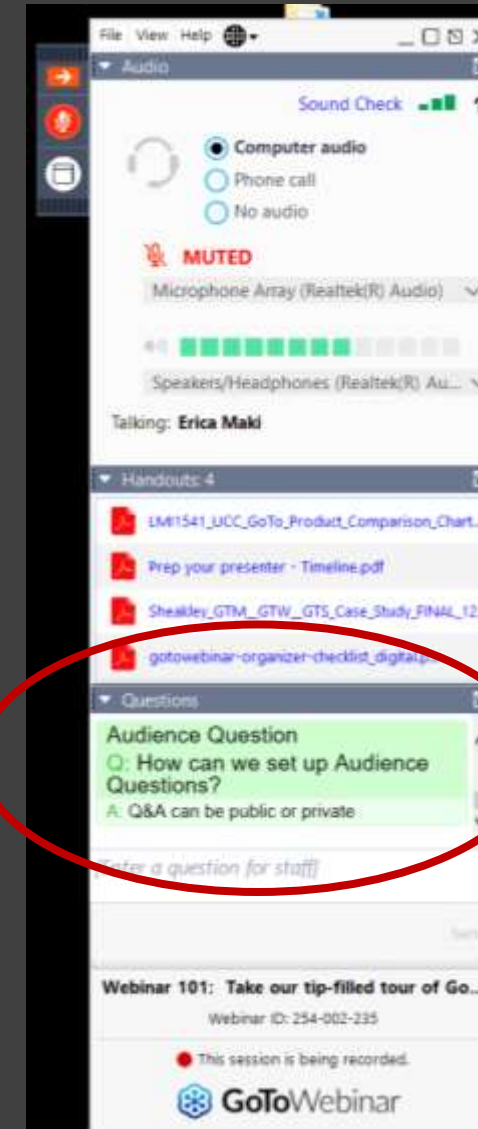
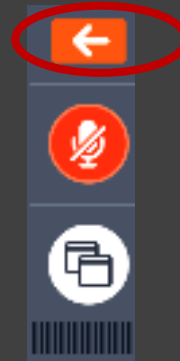
[2020 Legislative Priorities](#)

[Upcoming Webinars](#)

Upcoming Events

Please ask questions!

- Click on arrow at top right of your screen to maximize control panel
- Click arrow next to “Questions” to maximize the questions box
- Please 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



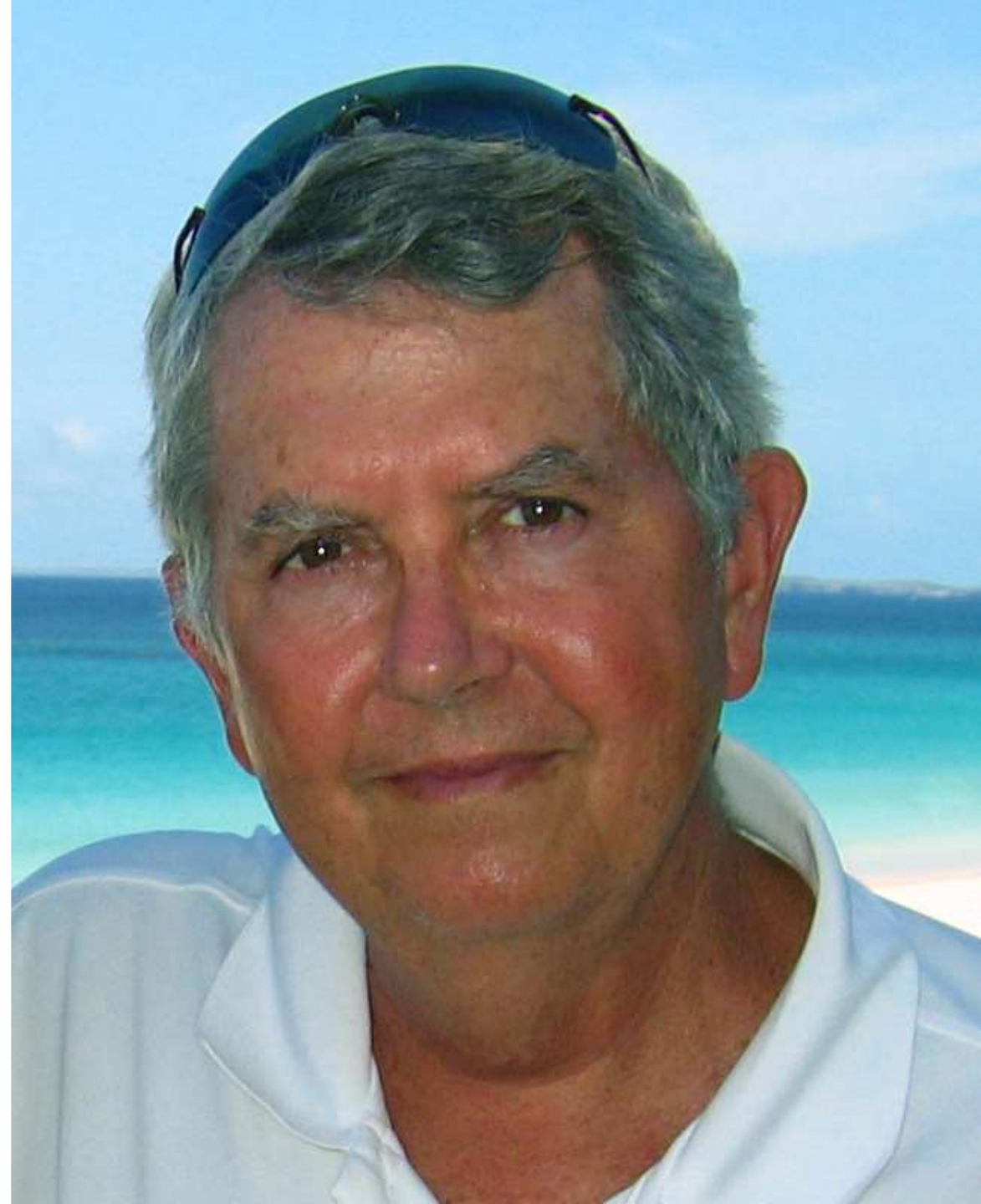
Pierce Jones, PhD

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





Nick Taylor, PhD

Works with the 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.

Leads the H2OSAV extension program, providing data analysis tools and data-driven insights that help regional utility providers, governmental agencies and extension agents optimize water conservation efforts.

Received his MS and PhD degrees in the College of Design, Construction and Planning 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

Promotes environmental best practices across diverse industries through collaboration with industry associations

Graduate of New College in Sarasota Florida earning a degree in Economics and International Studies

Secretary for 1000 Friends of Florida Board of Directors



Pierce Jones, PhD & Nick Jones, PhD

Program for Resource Efficient Communities
University of Florida



Reducing the Footprint of Irrigated Landscapes in Florida's Residential Developments

Pierce Jones, Nick Taylor & Jennison Kipp
UF Program for Resource Efficient Communities
and
Timothee Sallin
Cherrylake



Water-worried Vegas wants useless grass a thing of the past

By Sam Metz and Ken Ritter April 12, 2021

LAS VEGAS (AP) — A desert city built on a reputation for excess and indulgence wants to become a model for restraint and conservation with a first-in-the-nation policy banning grass that nobody walks on.



(AP Photo/Ken Ritter)

Las Vegas-area water officials have spent two decades trying to get people to replace thirsty greenery with desert plants, and now they're asking the Nevada Legislature to outlaw roughly 40% of the turf that's left.



County calls watering restrictions a success

By Michael D. Bates Chronicle reporter
Mar 29, 2021 Updated Mar 30, 2021

The county enacted restrictions in June 2020 in response to increased irrigation demands that resulted in groundwater withdrawals exceeding SWFWMD permitted amounts. March 2021 withdrawal figures are significantly less than they were in March 2020.



Jupiterimages

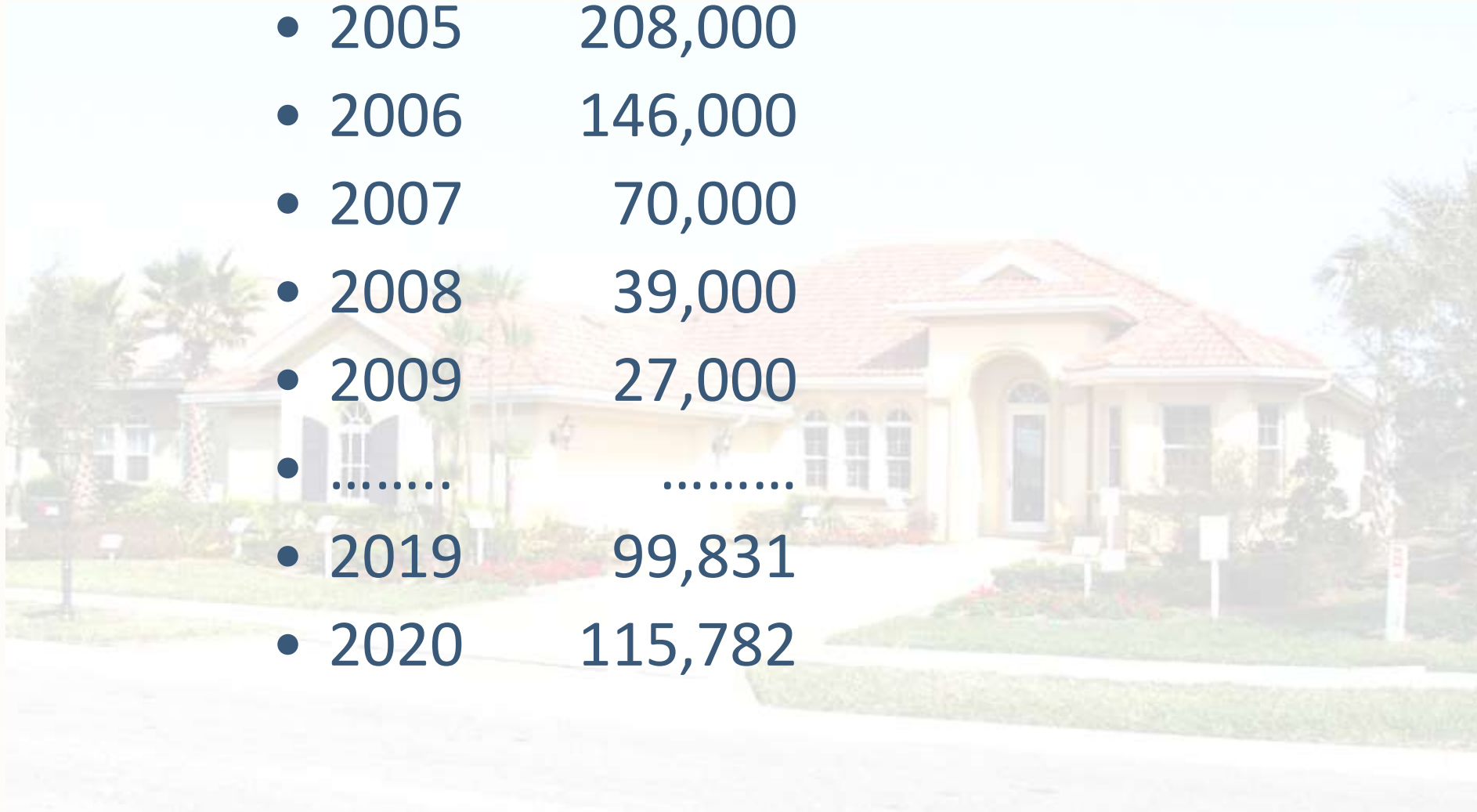
“Our Water Conservation and Florida Yards and Neighborhoods staff will continue to assist our customers to adjust their irrigation and landscaping practices to accommodate the one-day-per-week watering schedule,” Citrus County Water Resources Director Ken Cheek said.

Florida Land Development

Florida Land Development

Building Permits: Single-Family Detached

- 2005 208,000
- 2006 146,000
- 2007 70,000
- 2008 39,000
- 2009 27,000
-
- 2019 99,831
- 2020 115,782



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.

St. Petersburg Times

Tampa Bay Water makes last withdrawal from tapped out reservoir

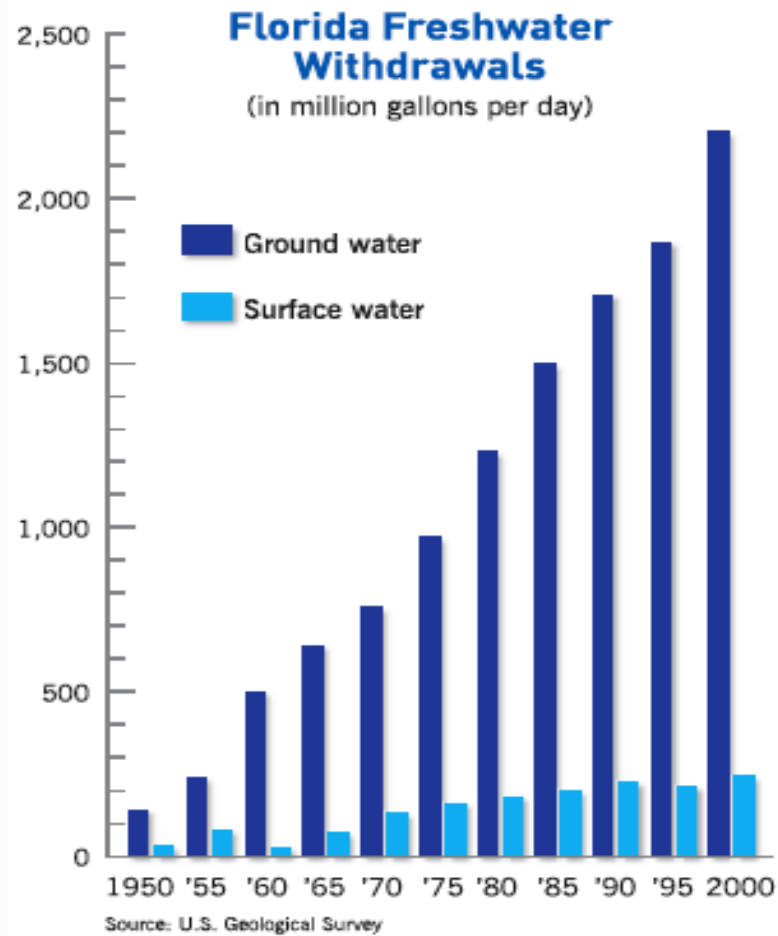
*By Craig Pittman, Times Staff Writer
In Print: Saturday, March 14, 2009*

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.

Florida Land Development Water Supply



Tampa Bay Water Desalinization Facility



Residential Landscape Irrigation
Central Florida

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H₂OSAV - Water Savings, Analytics & Verification

H₂OSAV is an archive of multi-year, utility territory datasets that merge water meter, conservation program and property appraiser data coupled to analytical tools for evaluating water consumption patterns and the effectiveness of individual water conservation programs.

H₂OSAV also serves as a repository of measured and verified (M&V) conservation program water savings that extend over multi-year timeframes, allowing for more tangible, direct comparisons of retrofit programs, construction practices and land development policies focused on water conservation.

H₂OSAV is pronounced "H-2-oh save."

[5-min video overview](#)

Use Cases

What can I do with H₂OSAV? Evaluate the effectiveness of your conservation programs. Understand premise.

Partners

H₂OSAV is sponsored by the Florida Legislature in coordination with the Florida Department of Environmental Protection

14 utilities across several regions



Announcements

January 28, 2021: FSAWWA Webinar



How much **POTABLE** water do
Florida homes use for landscape irrigation?

How much **POTABLE** water do
Florida homes use for landscape irrigation?

1 gallon
per day



How much **POTABLE** water do
Florida homes use for landscape irrigation?

??????



How much POTABLE water do Florida homes use for landscape irrigation?

- All Homes
(931,132 homes)
- Indoor:
126 gpd (57%)
- Outdoor:
94 gpd (43%)



How much **POTABLE** water do **NEW** Florida homes use for landscape irrigation?

- **New Homes**
built since 2015
(38,811 homes)
- **Indoor:**
118 gpd (45%)
- **Outdoor:**
133 gpd (55%)



How much RECLAIMED water do Florida homes use for landscape irrigation?

- Reclaimed Use
(27,788 homes)
- Indoor:
119 gpd
- Outdoor:
274 gpd





Utility

Toho Water Authority

2020

Area	Subdivisions	Parcels
1,148 sq. mi	1,493	99,499

Characteristics Range Average

Year built 1894 - 2020 2001

Lot size 495.7 - 3,100.2k 8.1k

Home size 210 - 175.6k 1.8k

Landscape 1.3 - 3,088.5k 5.7k



Avg. total usage

215

gal/day/HH

Potable 99,466
Irrigation 14,653
Reclaimed 20,307

List all subdivisions

Legend

gal/day/HH

- Quartile 1 (16 - 131)
- Quartile 2 (131 - 175)
- Quartile 3 (175 - 232)
- Quartile 4 (232 - 202.1k)

Subdivisions distribution





Utility

Toho Water Authority

2020

Subdivision

ASHLEY COVE UNIT 1



Area

513.5k sq.ft.

Subdivisions

-

Parcels

28

Characteristics

Range

Average

Year built

1999 - 2004

2001

Lot size

sq. ft.

15.0k - 26.8k

18.3k

Home size

sq. ft.

2.1k - 4.4k

3.2k

Landscape

sq. ft.

6.8k - 21.2k

13.4k



Avg. irrigation

317

gal/day/HH

Potable

28

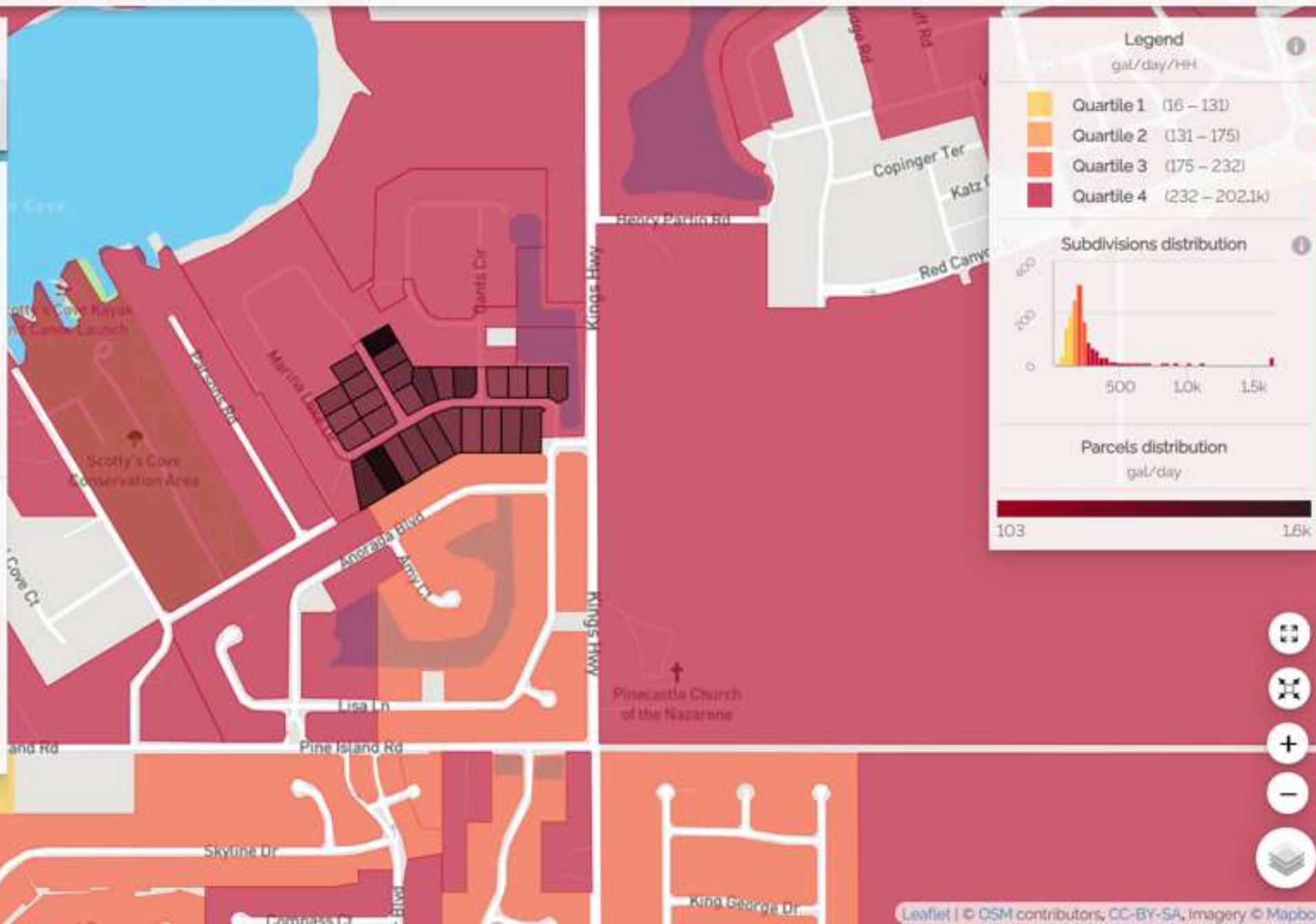
Irrigation

28

Reclaimed

0

List all parcels





Utility

Toho Water Authority

2020

Subdivision

ASHLEY COVE UNIT 2



Area

Subdivisions

Parcels

706.3k sq.ft.

-

39

Characteristics

Range

Average

Year built

1999 - 2005

2002

Lot size

sq. ft.

15.0k - 33.1k

18.1k

Home size

sq. ft.

2.3k - 5.7k

3.3k

Landscape

sq. ft.

7.3k - 29.4k

12.9k



Avg. irrigation

413

gal/day/HH

Potable

39

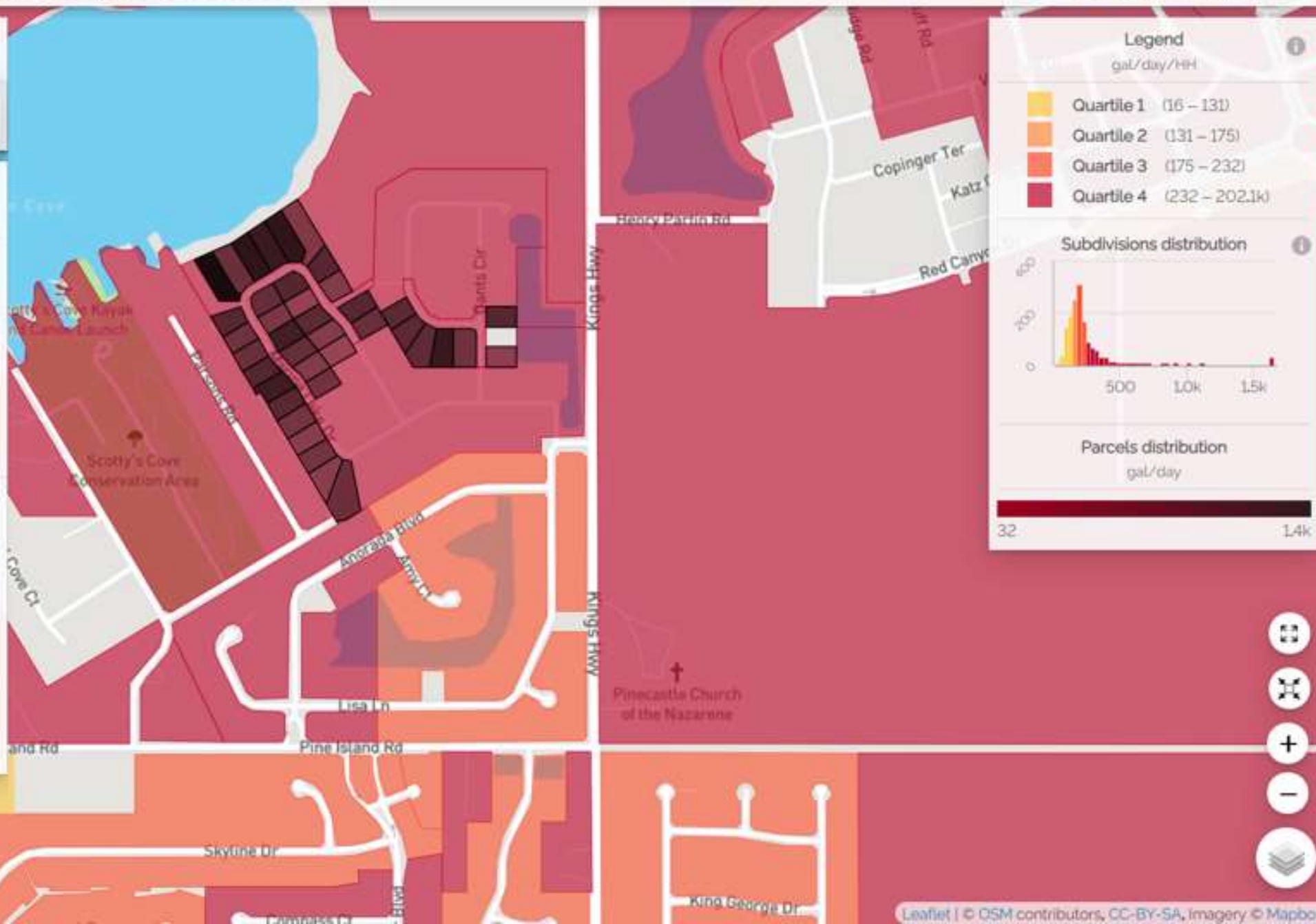
Irrigation

39

Reclaimed

0

List all parcels





Utility

Toho Water Authority

2020

Subdivision

ASHLEY COVE UNIT 3



Area

432.3k sq.ft.

Subdivisions

-

Parcels

27

Characteristics

Range

Average

Year built

2002 - 2004

2003

Lot size

sq. ft.

15.0k - 20.2k

16.0k

Home size

sq. ft.

2.0k - 3.1k

2.6k

Landscape

sq. ft.

8.3k - 16.9k

11.2k



Avg. irrigation

202

gal/day/HH

Potable

27

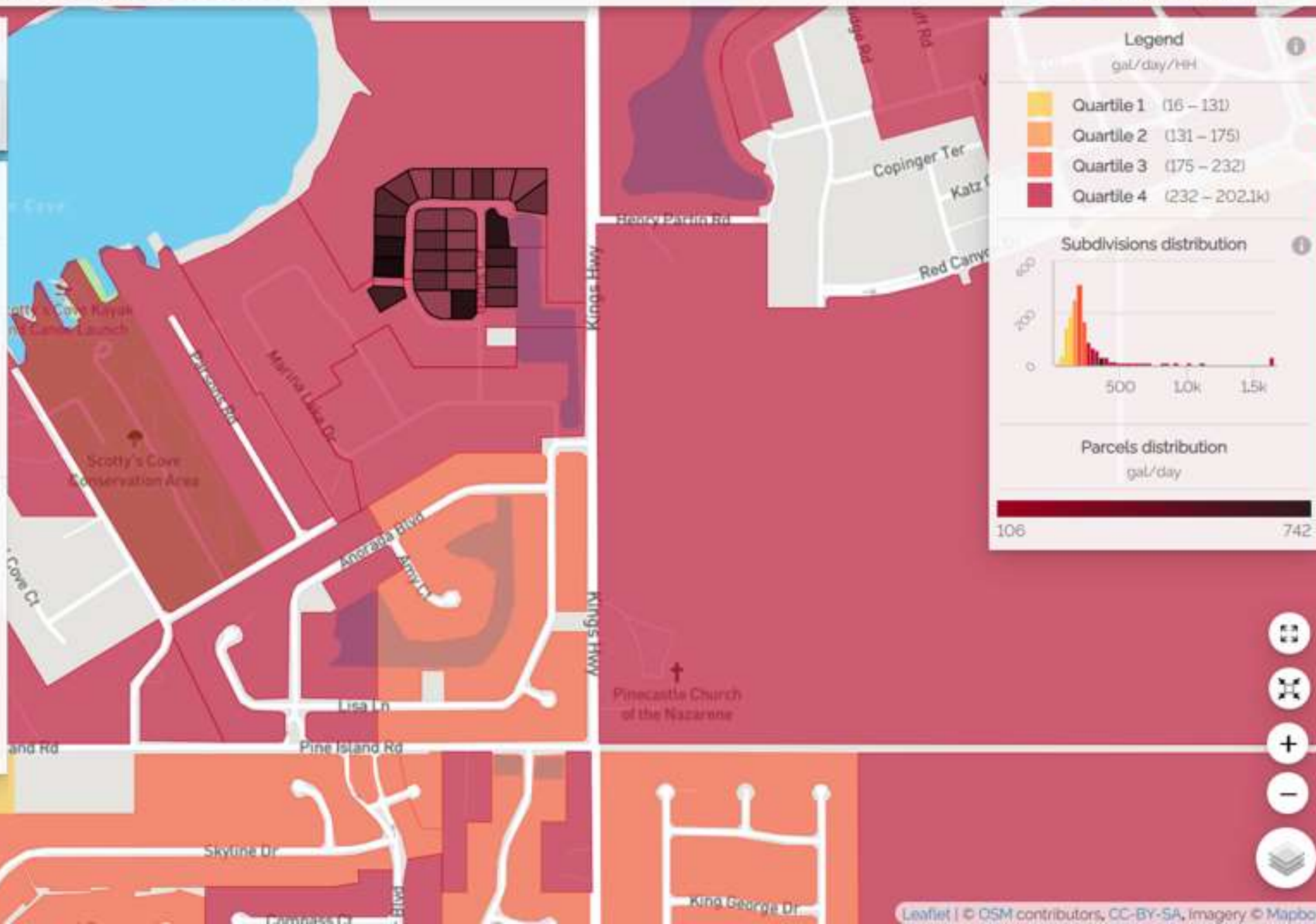
Irrigation

27

Reclaimed

0

List all parcels





Utility

Toho Water Authority

2020



Parcel address



Kissimmee, FL 34744

Bed/Bath

4/3

Pool

No

Characteristics

Value

N/A

Year built

2003

-

Lot size

sq. ft.

15.4k

-

Home size

sq. ft.

3.5k

-

Landscape

sq. ft.

12.5k

-



Potable

Irrigation

Reclaimed

Avg. irrigation

1,417

gal/day/HH

Consumption history

Legend

gal/day/HH



Quartile 1 (16 - 131)



Quartile 2 (131 - 175)

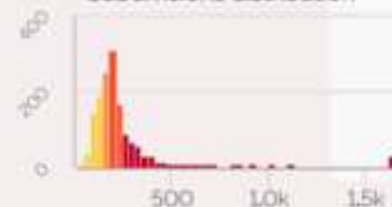


Quartile 3 (175 - 232)



Quartile 4 (232 - 202.1k)

Subdivisions distribution



Parcels distribution

gal/day

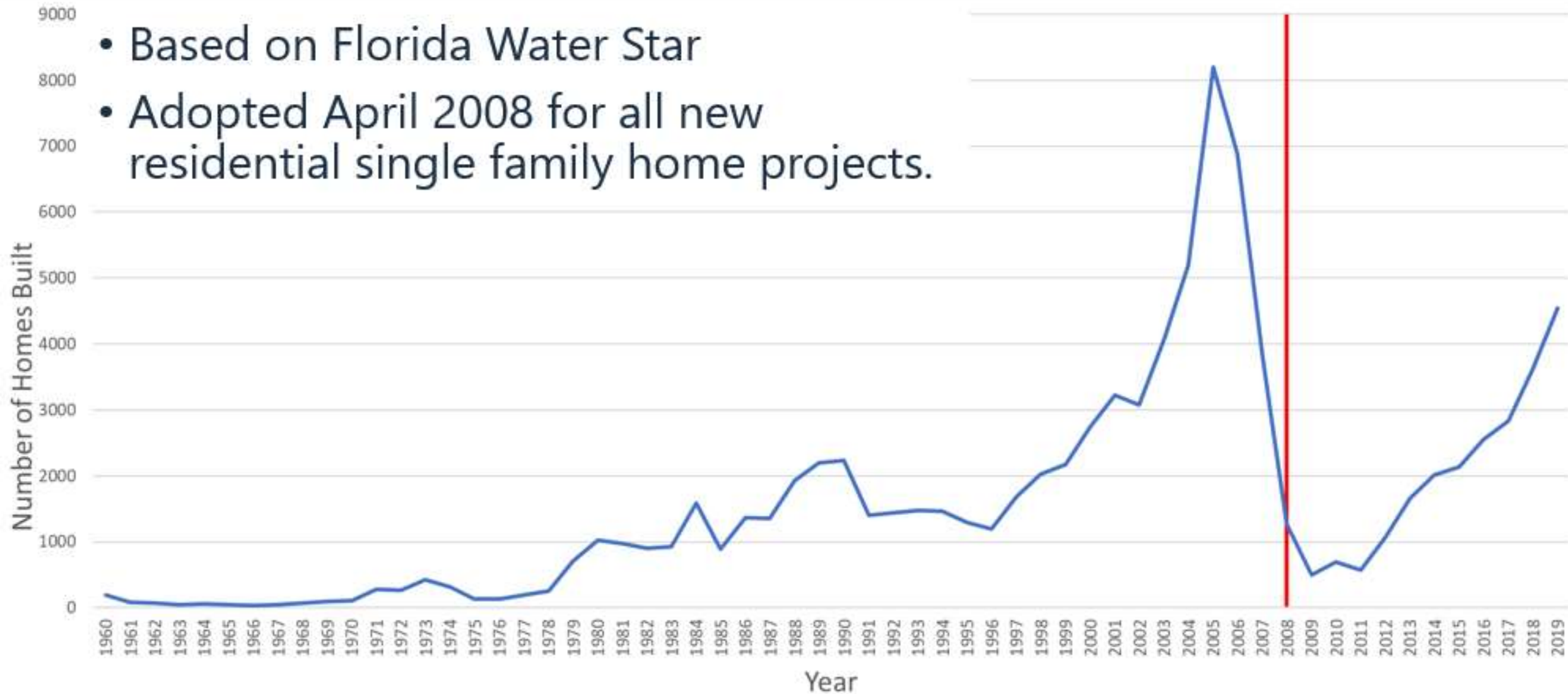
103

16k



Toho Efficiency Program

- Based on Florida Water Star
- Adopted April 2008 for all new residential single family home projects.





Utility

Toho Water Authority

2020

Area	Subdivisions	Parcels
1,148 sq. mi	1,493	99,499

Characteristics	Range	Average
Year built	1894 - 2020	2001
Lot size sq. ft.	495.7 - 3,100.2k	8.1k
Home size sq. ft.	210 - 175.6k	1.8k
Landscape sq. ft.	1.3 - 3,088.5k	5.7k



Avg. total usage

215

gal/day/HH

Potable	Irrigation	Reclaimed
99,466	14,653	20,307

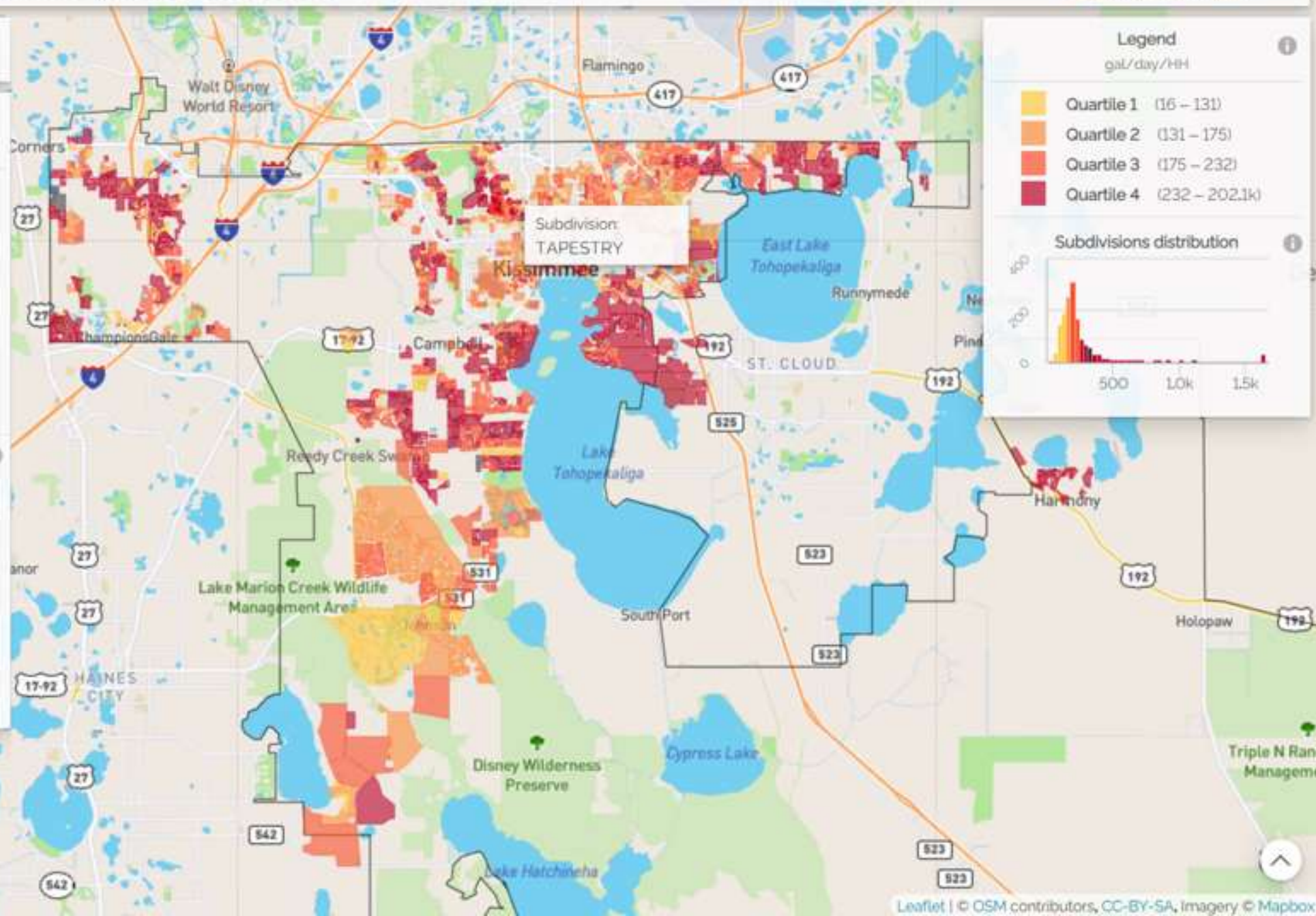
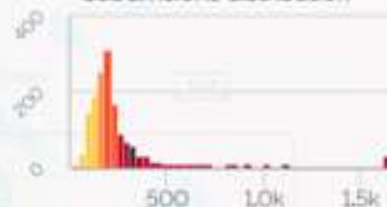
List all subdivisions

Legend

gal/day/HH

Quartile 1	(16 - 131)
Quartile 2	(131 - 175)
Quartile 3	(175 - 232)
Quartile 4	(232 - 202.1k)

Subdivisions distribution





Utility

Toho Water Authority

2020

Subdivision

TAPESTRY



Area

Subdivisions

Parcels

849.0k sq.ft.

-

177

Characteristics

Range

Average

Year built

2016 - 2017

2017

Lot size

sq. ft.

1.7k - 13.2k

4.8k

Home size

sq. ft.

1.5k - 3.4k

2.1k

Landscape

sq. ft.

617.2 - 10.5k

3.1k



Avg. reclaimed

175

gal/day/HH

Potable

175

Irrigation

0

Reclaimed

127

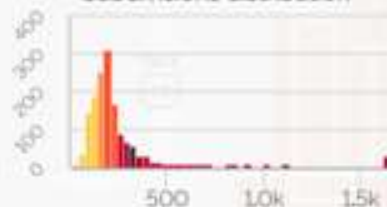
List all parcels

Legend

gal/day/HH

- Quartile 1 (16 - 131)
- Quartile 2 (131 - 175)
- Quartile 3 (175 - 232)
- Quartile 4 (232 - 202.1k)

Subdivisions distribution



Parcels distribution

gal/day

14

7.5k

Shingle Creek Regional Park

Carroll St

Carroll St

Donegan Ave

Kissimmee Middle School

Fox Squirrel Dr

San Galle Dr

Corsair Ave

Carroll

Thacker Ave

Highlands Elementary School



Utility

Toho Water Authority

2020

Subdivision

TAPESTRY PH 2



Area

Subdivisions

Parcels

1,043.6k sq.ft.

-

245

Characteristics

Range

Average

Year built

2017 - 2018

2017

Lot size

sq. ft.

1.7k - 11.6k

4.3k

Home size

sq. ft.

1.5k - 3.2k

2.0k

Landscape

sq. ft.

610.7 - 10.0k

2.7k



Avg. reclaimed

73

gal/day/HH

Potable

245

Irrigation

0

Reclaimed

152

List all parcels

Shingle Creek Regional Park

Donegan Ave

Kissimmee Middle School

Fox Squirrel Dr

San Galle Dr

Corsair Ave

Carroll St

Carroll St

Carroll

Flora Blvd

Flora Blvd

Thacker Ave

Thacker Ave

TRUCK 17

531A

Highlands Elementary School



Utility

Toho Water Authority

2020

Subdivision

TAPESTRY PH 3



Area

695.4k sq.ft.

Subdivisions

-

Parcels

102

Characteristics

Range

Average

Year built

2018 - 2019

2018

Lot size

sq. ft.

4.4k - 20.1k

6.8k

Home size

sq. ft.

1.7k - 3.2k

2.5k

Landscape

sq. ft.

2.1k - 18.0k

4.5k



Avg. reclaimed

84

gal/day/HH

Potable

101

Irrigation

0

Reclaimed

102

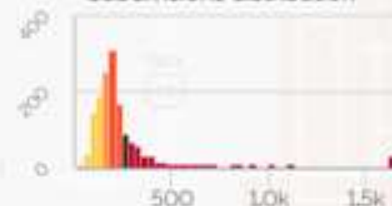
List all parcels

Legend

gal/day/HH

- Quartile 1 (16 - 131)
- Quartile 2 (131 - 175)
- Quartile 3 (175 - 232)
- Quartile 4 (232 - 202.1k)

Subdivisions distribution



Parcels distribution

gal/day



Shingle Creek Regional Park

Carroll St

Carroll St

Donegan Ave

Kissimmee Middle School

Fox Squirrel Dr

San Galle Dr

Corsair Ave

Cello Ln

Folio Way

Sagittarian Ln

Trellis Ave

Novelty Way

Canopy Ave

Thacker Ave

Carroll

Highlands Elementary School



Utility

Toho Water Authority

2020

Subdivision

TAPESTRY PH 4



Area

Subdivisions

Parcels

908.3k sq.ft.

-

194

Characteristics

Range

Average

Year built

2018 - 2019

2019

Lot size

sq. ft.

1.7k - 13.4k

4.7k

Home size

sq. ft.

1.5k - 3.2k

2.1k

Landscape

sq. ft.

617.2 - 11.2k

2.9k



Avg. reclaimed

91

gal/day/HH

Potable

194

Irrigation

0

Reclaimed

136

List all parcels

Shingle Creek Regional Park

Carroll St

Carroll St

Donegan Ave

Kissimmee Middle School

Fox Squirrel Dr

San Galle Dr

Corsair Ave

Flora Blvd

Flora Blvd

Thacker Ave

Carroll

Cello Ln

Novelty Way

Folio Way

Chammy Ave

Trellis Ave

Thacker Ave

531A

531A

Highlands Elementary School

TRUCK 17

TRUCK 17

Legend

gal/day/HH

Quartile 1

(16 - 131)

Quartile 2

(131 - 175)

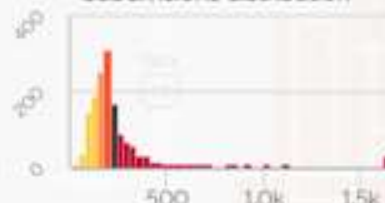
Quartile 3

(175 - 232)

Quartile 4

(232 - 202.1k)

Subdivisions distribution



Parcels distribution

gal/day





Utility

Toho Water Authority

2020

Subdivision

TAPESTRY PH 5



Area

Subdivisions

Parcels

1,055.7k sq.ft.

-

220

Characteristics

Range

Average

Year built

2019 - 2019

2019

Lot size

sq. ft.

1.8k - 13.8k

4.8k

Home size

sq. ft.

1.5k - 3.0k

214

Landscape

sq. ft.

670.4 - 13.8k

4.6k



Avg. reclaimed

93

gal/day/HH

Potable

220

Irrigation

0

Reclaimed

160

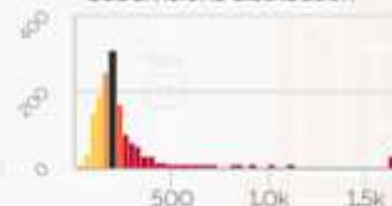
List all parcels

Legend

gal/day/HH

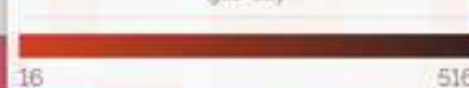
- Quartile 1 (16 - 131)
- Quartile 2 (131 - 175)
- Quartile 3 (175 - 232)
- Quartile 4 (232 - 202.1k)

Subdivisions distribution



Parcels distribution

gal/day





Utility

Toho Water Authority

2020

Subdivision

PRESERVE AT TAPESTRY ...



Area

Subdivisions

Parcels

634.1k sq.ft.

-

84

Characteristics

Range

Average

Year built

2013 - 2016

2014

Lot size

sq. ft.

4.9k - 15.7k

7.5k

Home size

sq. ft.

2.0k - 3.5k

2.6k

Landscape

sq. ft.

1.7k - 13.0k

5.2k



Avg. reclaimed

66

gal/day/HH

Potable

84

Irrigation

0

Reclaimed

84

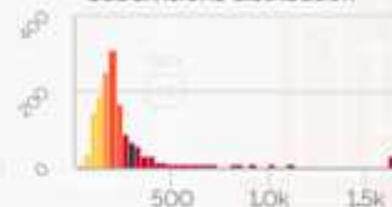
List all parcels

Legend

gal/day/HH

- Quartile 1 (16 - 131)
- Quartile 2 (131 - 175)
- Quartile 3 (175 - 232)
- Quartile 4 (232 - 202.1k)

Subdivisions distribution



Parcels distribution

gal/day





Utility

Toho Water Authority

2020

Subdivision

PRESERVE AT TAPESTRY ...



Area

474.1k sqft.

Subdivisions

-

Parcels

66

Characteristics

Range

Average

Year built

2014 - 2015

2014

Lot size

sq. ft.

5.5k - 19.0k

7.2k

Home size

sq. ft.

2.0k - 3.5k

2.6k

Landscape

sq. ft.

1.2k - 17.3k

4.7k



Avg. reclaimed

67

gal/day/HH

Potable

66

Irrigation

0

Reclaimed

66

List all parcels

Shingle Creek Regional Park

Carroll St

Carroll St

Donegan Ave

Kissimmee Middle School

Fox Squirrel Dr

San Galle Dr

Corsair Ave

Flora Blvd

Flora Blvd

Thacker Ave

Carroll

Cello Ln

Novelty Way

Folio Way

Chammy Ave

Sagittarian Ln

Trellis Ave

Thacker Ave

Highlands Elementary School



17



17

Legend

gal/day/HH



Quartile 1 (16 - 131)



Quartile 2 (131 - 175)

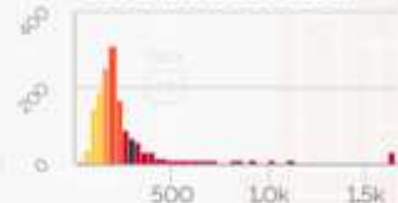


Quartile 3 (175 - 232)



Quartile 4 (232 - 202.1k)

Subdivisions distribution



Parcels distribution

gal/day

41

927



Utility

Toho Water Authority

2020

Subdivision

PRESERVE AT TAPESTRY ...



Area

Subdivisions

Parcels

956.0k sq.ft.

-

144

Characteristics

Range

Average

Year built

2014 - 2016

2015

Lot size

sq. ft.

4.9k - 15.7k

6.6k

Home size

sq. ft.

1.6k - 3.5k

2.5k

Landscape

sq. ft.

920 - 12.0k

4.6k



Avg. reclaimed

88

gal/day/HH

Potable

144

Irrigation

0

Reclaimed

143

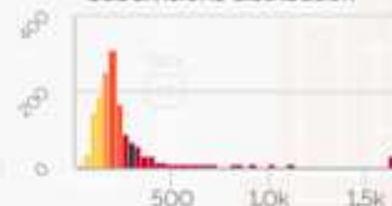
List all parcels

Legend

gal/day/HH

- Quartile 1 (16 - 131)
- Quartile 2 (131 - 175)
- Quartile 3 (175 - 232)
- Quartile 4 (232 - 202.1k)

Subdivisions distribution



Parcels distribution

gal/day

48

765

Shingle Creek Regional Park

Carroll St

Carroll St

Carroll

Donegan Ave

Kissimmee Middle School

Fox Squirrel Dr

San Galle Dr

Corsair Ave

Cello Ln

Folio Way

Chammy Ave

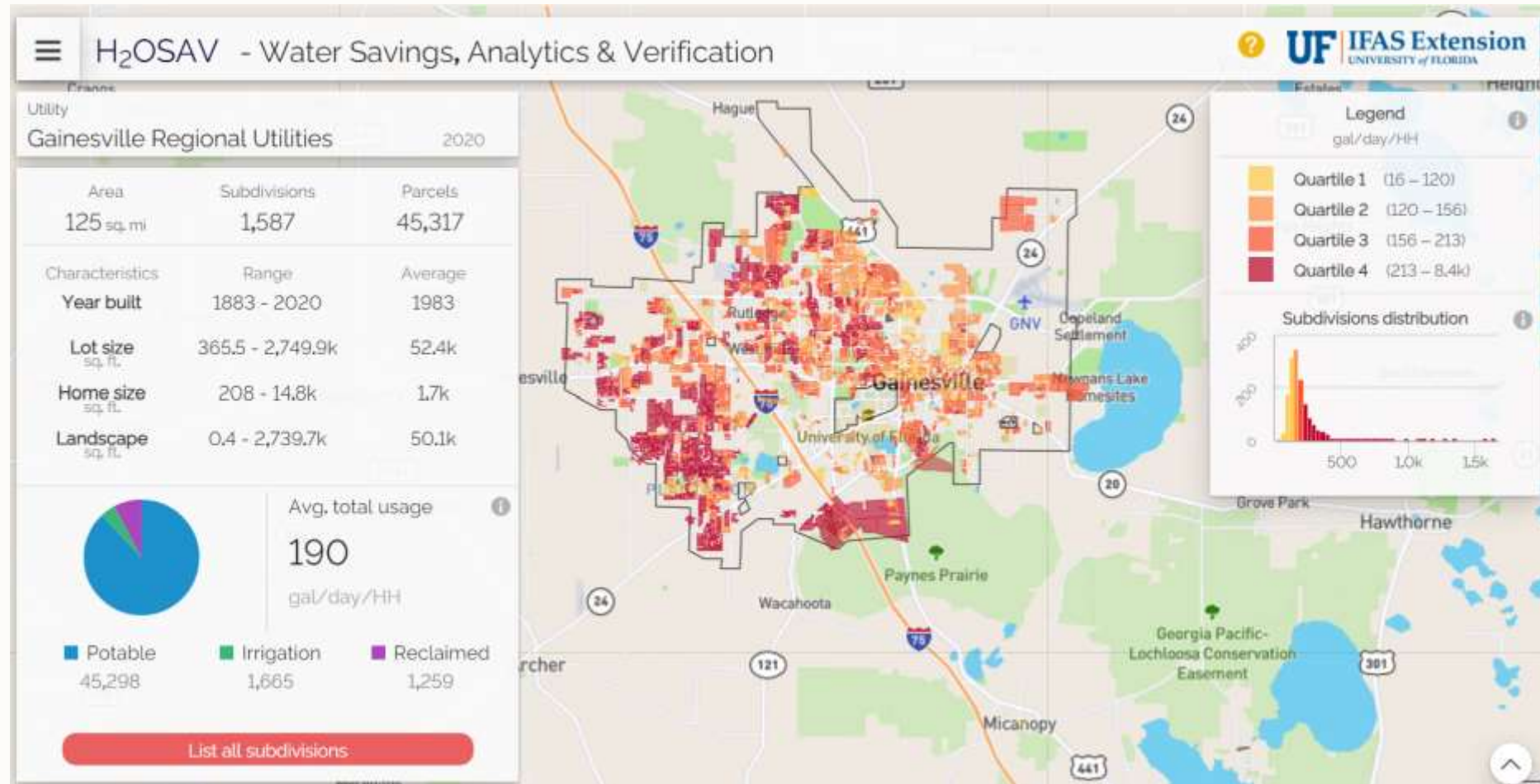
Thacker Ave

Highlands Elementary School

*Residential Landscape Irrigation
Alachua County*

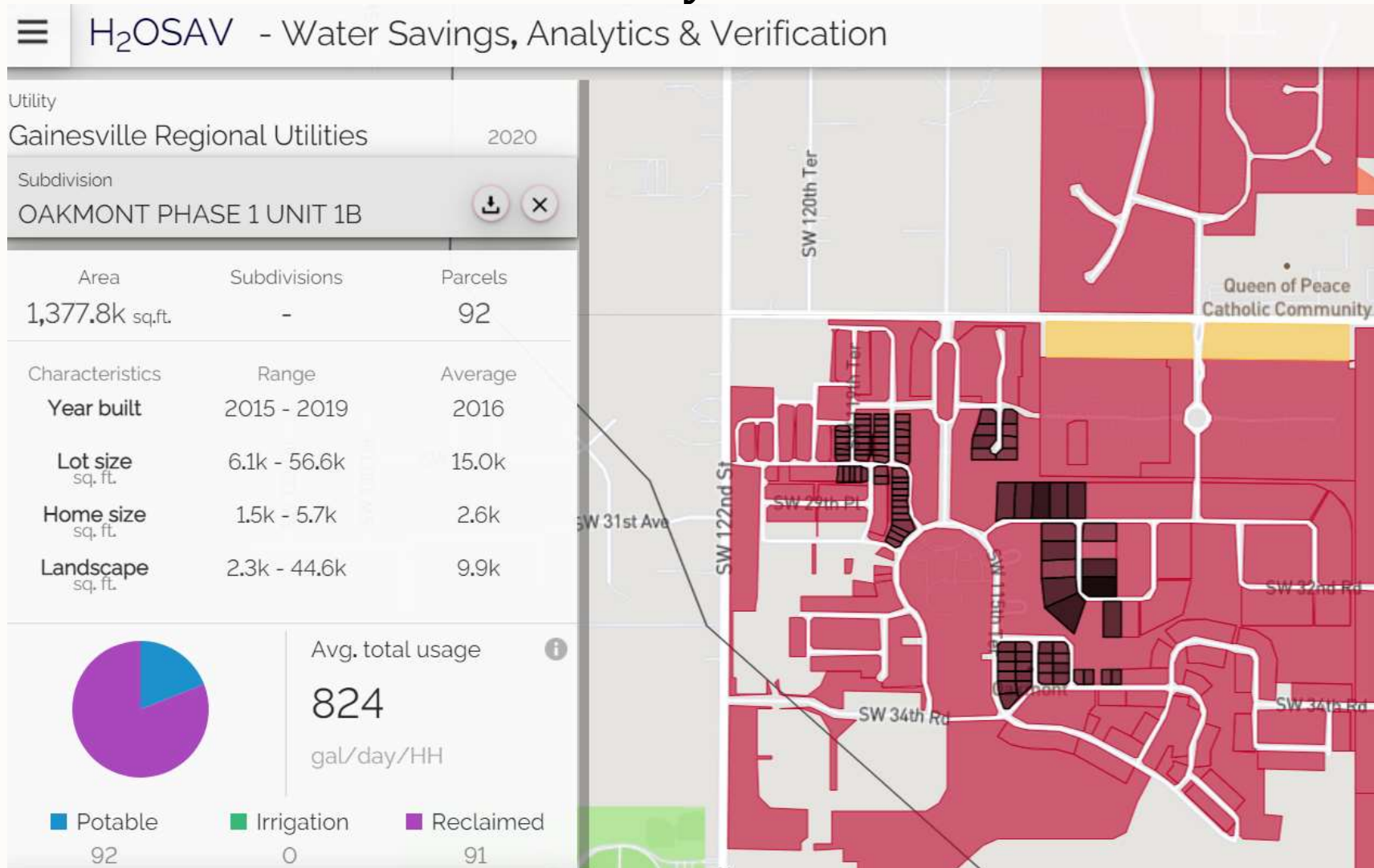
Residential Landscape Irrigation

Gainesville Regional Utilities, Alachua County



Residential Landscape Irrigation

Oakmont, Alachua County



Residential Landscape Irrigation

Alachua County

Evaluation of Irrigation-Free Residential Landscapes in Florida's Springs Region

- The Nature Conservancy (TNC)
- Fish & Wildlife Foundation of Florida (FWFF)
- Sustainable Floridians (UF/PREC)

Case studies in developments that are not installing in-ground irrigation:

- Madera
- Hidden Lake
- 88th Street Cottages



Residential Landscape Irrigation

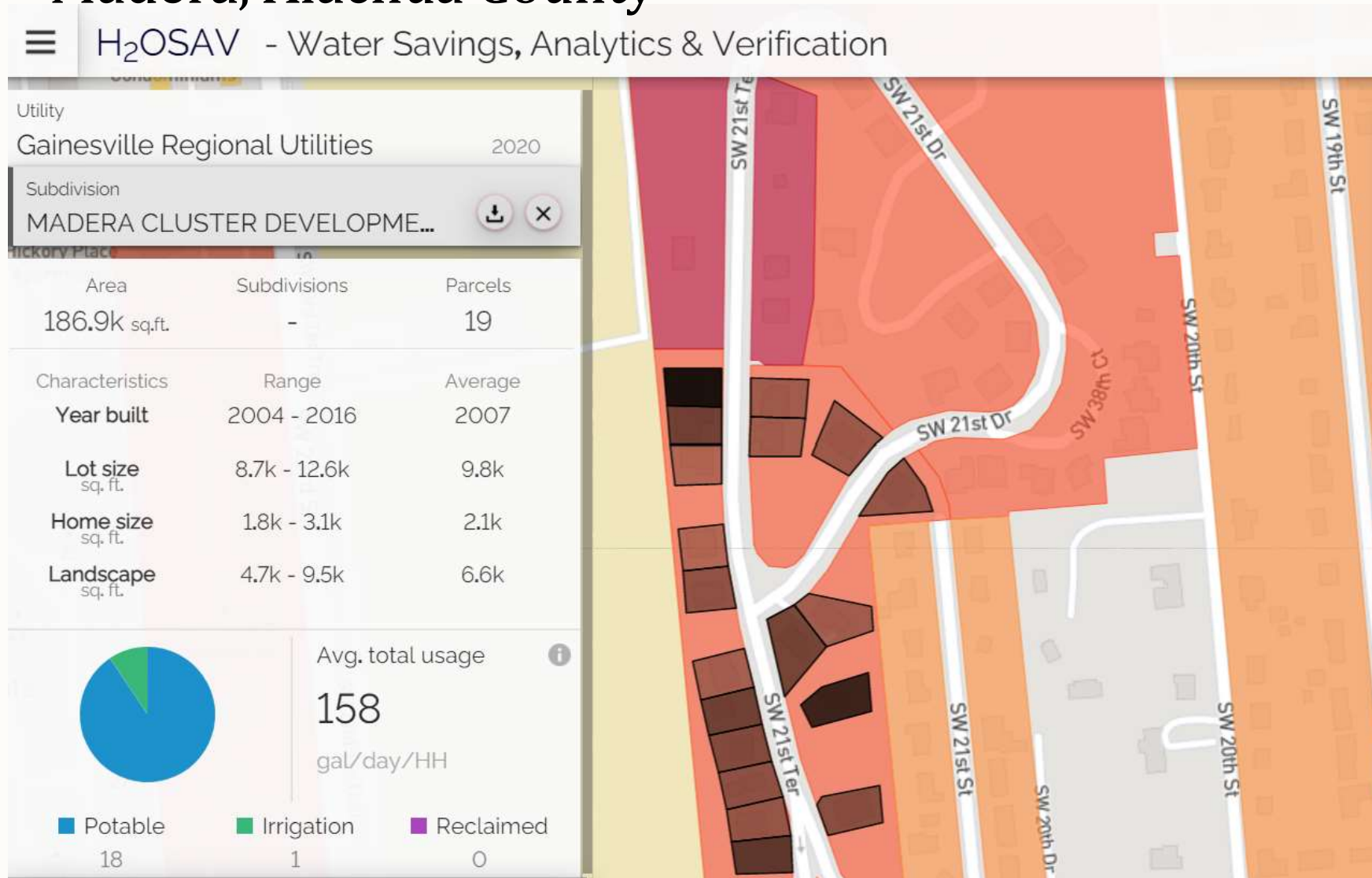
Madera 2004-2016

- 44 acres w/ 89 lots
- Single-family, detached
- No mass grading
- Irrigation systems discouraged



Residential Landscape Irrigation

Madera, Alachua County



Residential Landscape Irrigation

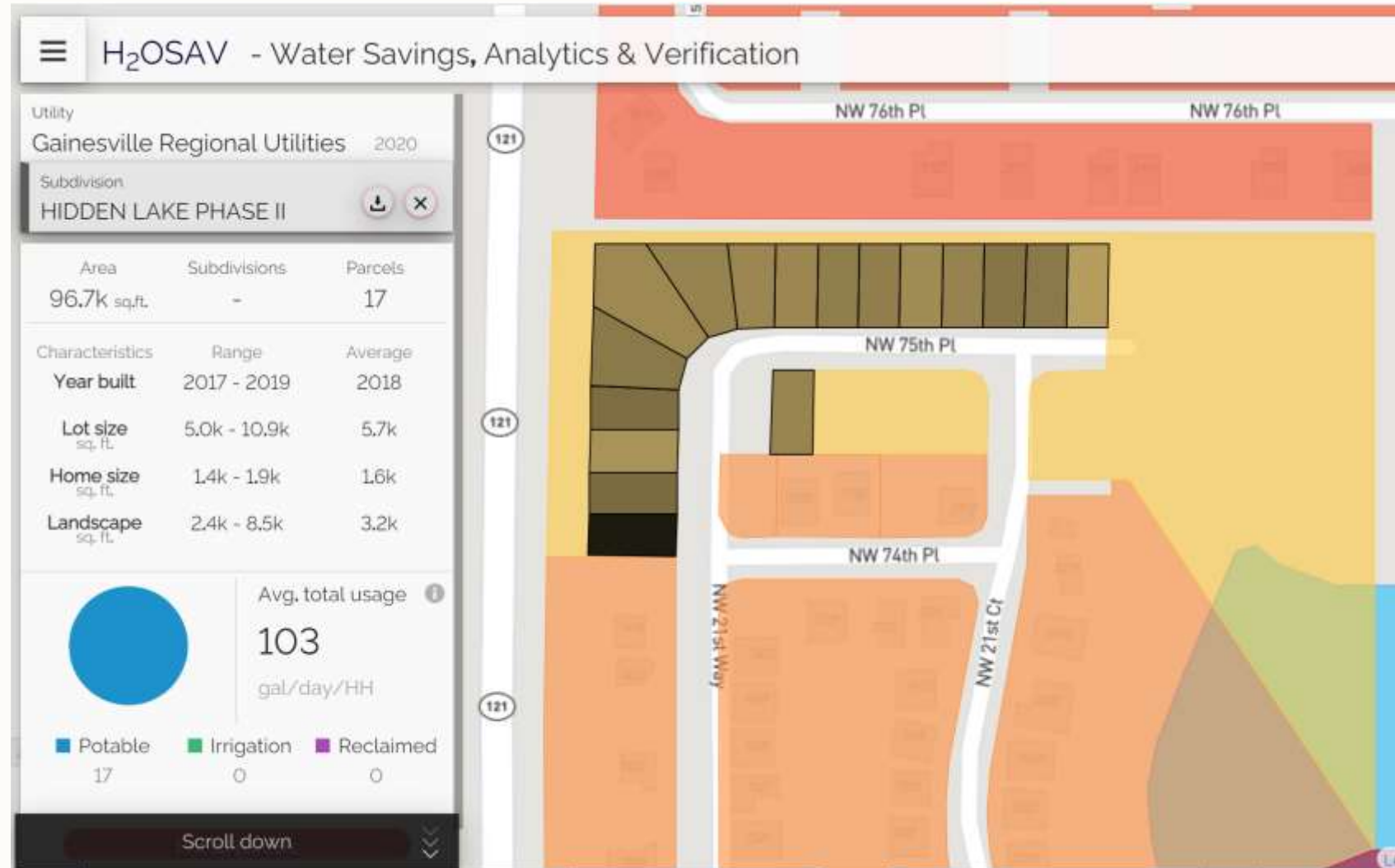
Hidden Lake 2017-2019

- Robinshore Homes
- 17 lots
- Bahia lawns
- No installed irrigation systems



Residential Landscape Irrigation

Hidden Lake 2017-2019



Residential Landscape Irrigation

88th Street Cottages 2019-2020

- Robinshore Homes
- 3.8 acres w/ 27 rental units
- No individual irrigation systems
- Composted amended landscapes
- Well irrigated common “greens”



Residential Landscape Irrigation

88th Street Cottages 2019-2020



Residential Landscape Irrigation

88th Street Cottages 2019-2020

Bolton Construction Services

- Cottages on the Avenue (13)
- SW Gainesville project (172)
- Third project in the works (>200)
- No individual irrigation systems
- Well irrigated common “greens”



Residential Landscape Irrigation
Compost Amending Soils

Compost Amending Soils

Oakmont, Alachua County



Compost Amending Soils

Lifesoils Processing Facility, Sumter County

Comand - EPA Class A EQ Unrestricted Use



Compost Amending Soils

The Villages, Sumter County



Compost Amending Soils

On Top of the World, Marion County

Evaluation of Water Use & Water Quality Effects of Amending Soils & Lawns

Dr. Eban Z. Bean & Jovana Radovanovic

- Prior to landscaping - lots were tilled, were compost amended and tilled or were left intact (control).
- At the start of the study, irrigation run times on all lots were reduced by 25% from standard practice.
- Homeowners were free to change irrigation run times.
- During 2020 homeowners on amended lots irrigated the least and were more likely to further reduce irrigation run times (up to a 55% reduction from conventional).
- Measurements of available water in the root zone suggests that irrigation could be reduced by 50% on amended lots.

Compost – Topdressing On Top of the World, Marion County



Compost Amending Soils

Soils Management Publications

- GUIDANCE FOR AMENDING URBAN SOILS WITH ORGANIC AMENDMENTS (10/2020) - Dr. E. Z. Bean, L. Jarrett, B. Haldeman, J. Searcy & P. Jones

<https://floridadep.gov/dear/water-quality-restoration/content/statewide-best-management-practice-bmp-efficiencies>

- EXAMPLE ORDINANCE FOR AMENDING POST CONSTRUCTION SOILS WITH COMPOST IN URBAN LANDSCAPING - Dr. E. Z. Bean & UF Conservation Law Clinic

ezbean@ufl.edu

Compost Amending Soils

Massey Soils Conditioning Program



Relax! Our INNOVATIVE & NEW Soil Conditioning Service is Earth-Smart!

- 100% CHEMICAL FREE** – Our organic, composted soil conditioning service is safe for people, pets and wildlife.
- ENHANCES WATER EFFICIENCY** – Helps soil retain water in the root zone and reduce run-off.
- REDUCES DROUGHT STRESS** – You may find that you water less frequently and your lawn shows less drought stress, even during hot and dry conditions.
- NATURAL SUSTAINABILITY** – Retains minerals and nutrients in the root zone to nourish turf plants.

Healthy Soil Makes a Naturally Healthy Lawn.
When added to Massey's GreenUP lawn program, our soil conditioning service restores the natural microbial ecosystem in your soil. As soil condition improves, the roots of your lawn will be better able to utilize the nutrients it needs to thrive. You'll see your landscape become greener, thicker and stronger in as little as three weeks!

MasseyServices.com/HealthySoil2020

MASSEY GreenUP Landscape Services

LIFE SOILS **COMAND**

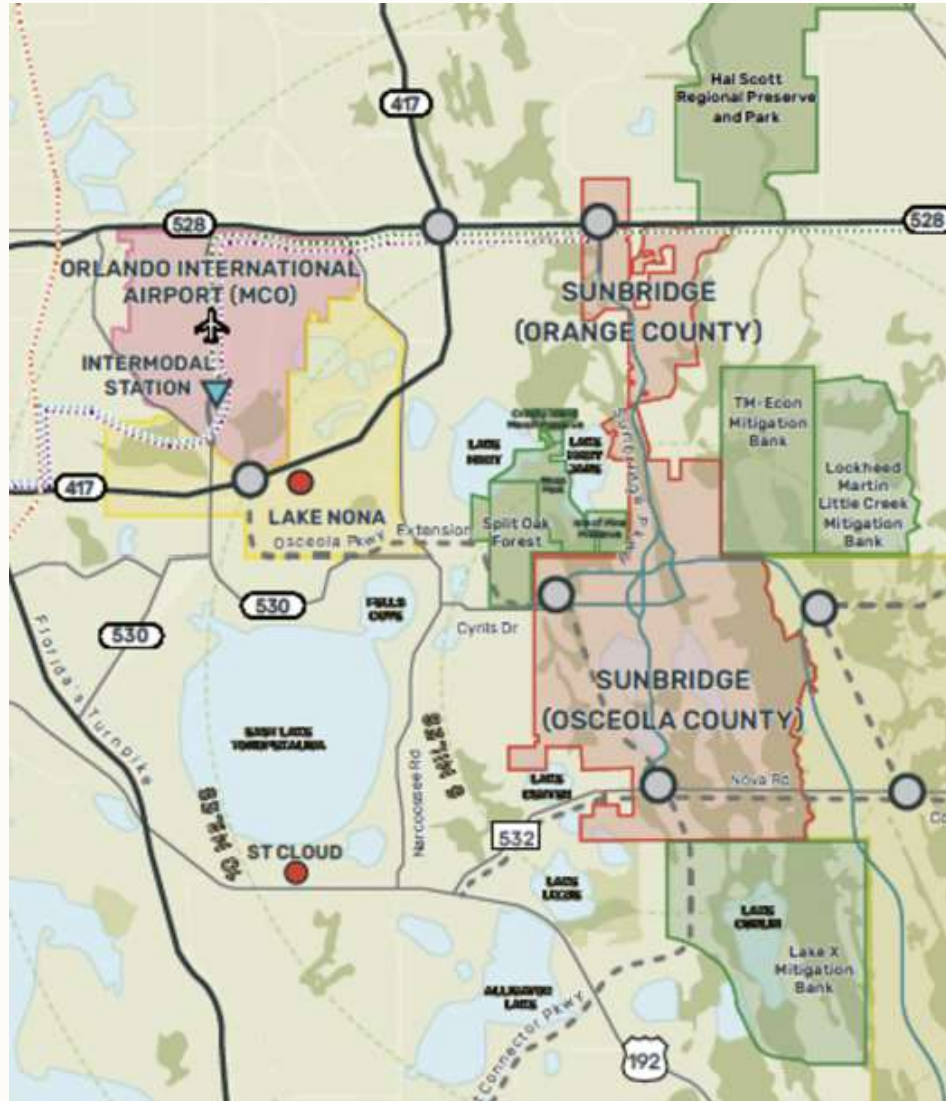
Massey Services, Inc. is the exclusive licensed residential provider of COMAND®. Licensed by LifeSoils, LLC.

* Offer valid for new customers only. Discount will be applied to initial service only and may not exceed the value of the initial service. Valid only for the purchase of any new annual landscape care program. May not be combined with other offers.

Sustainable Floridians
Benchmarking & Measurement Program
Built Environment Professionals

Compost Amending Soils

Sunbridge, Osceola County

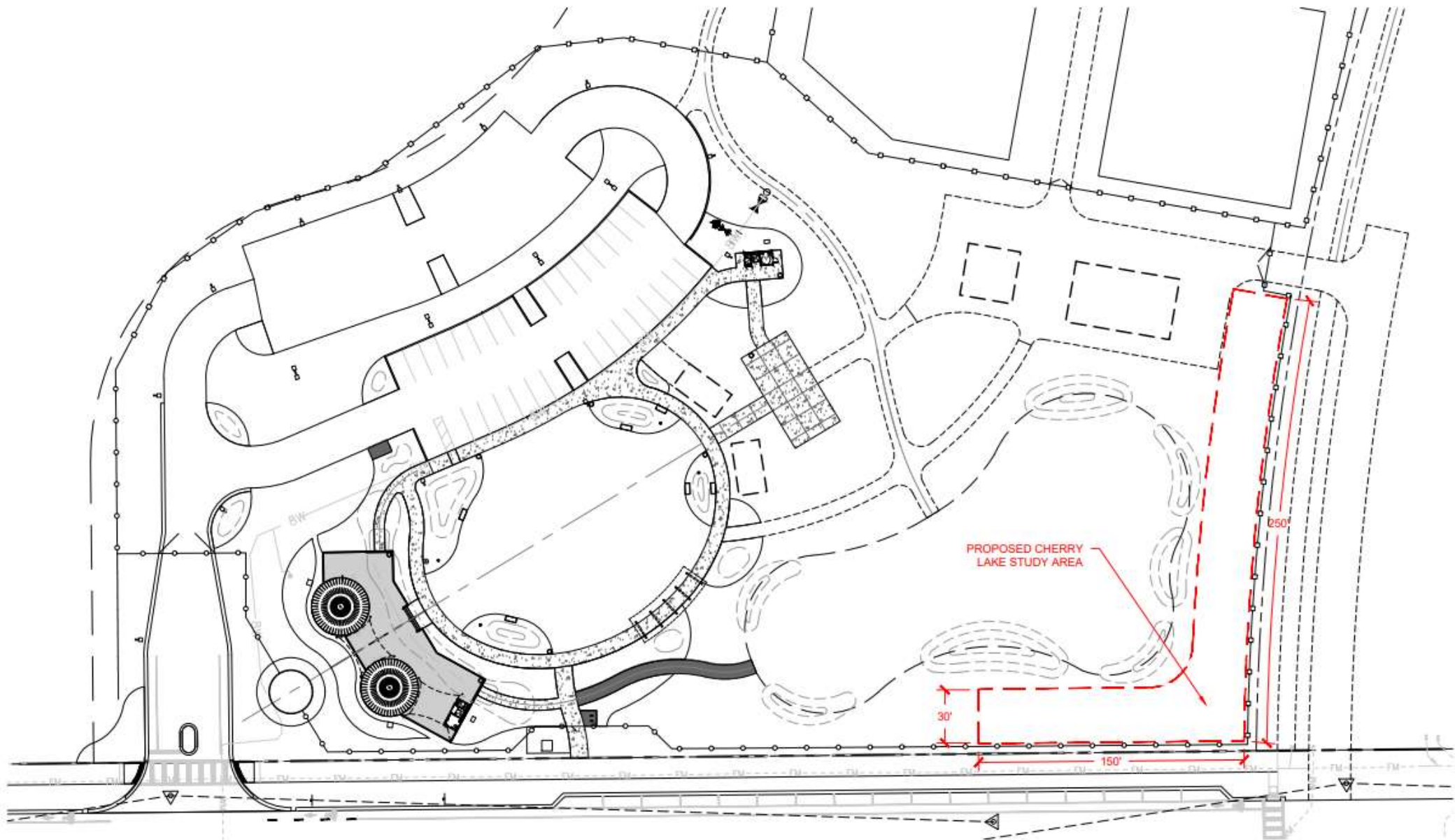


Timothee Sallin

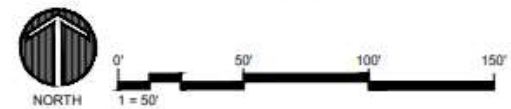
President, Cherrylake

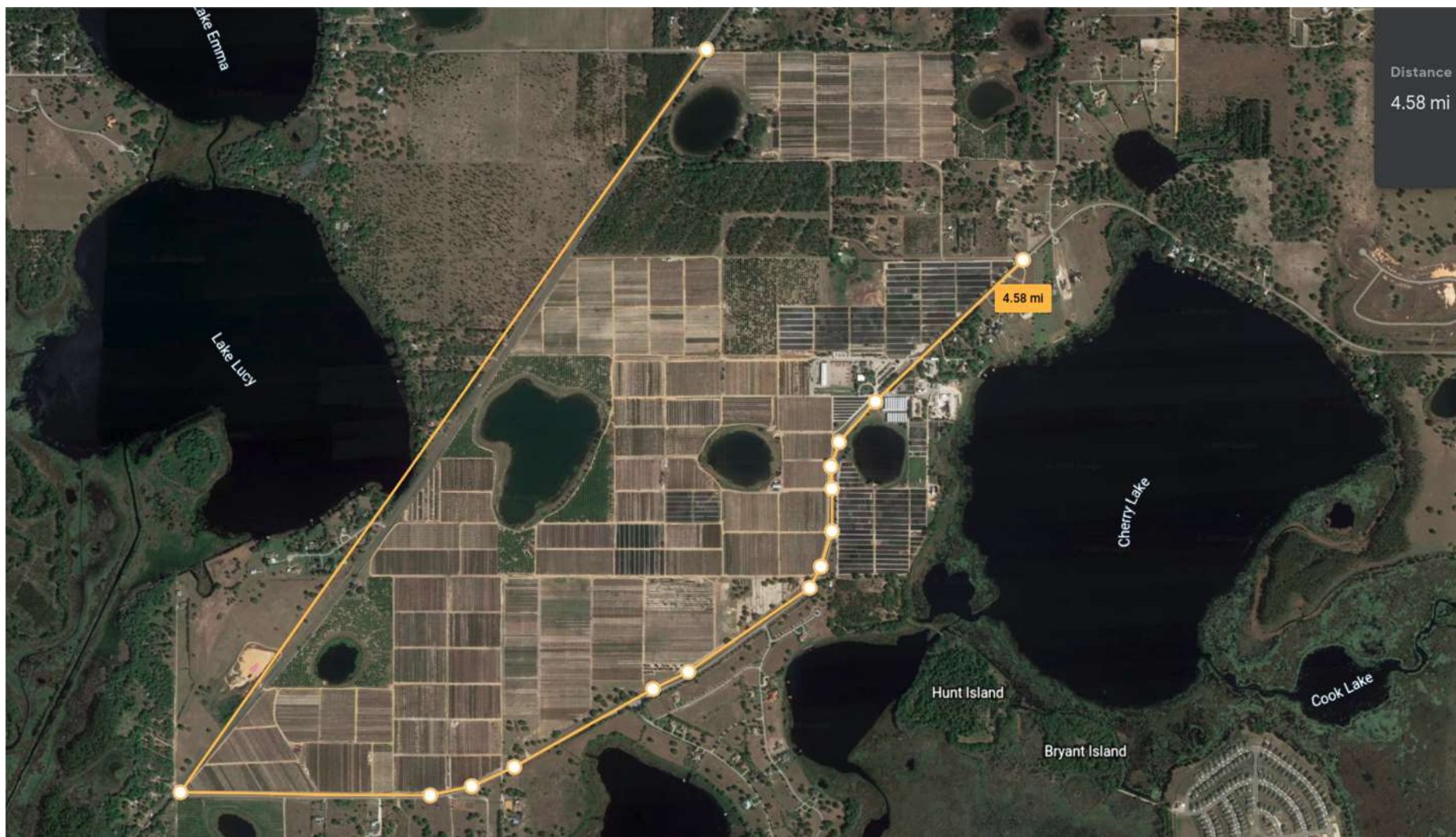
Secretary, 1000 Friends of Florida





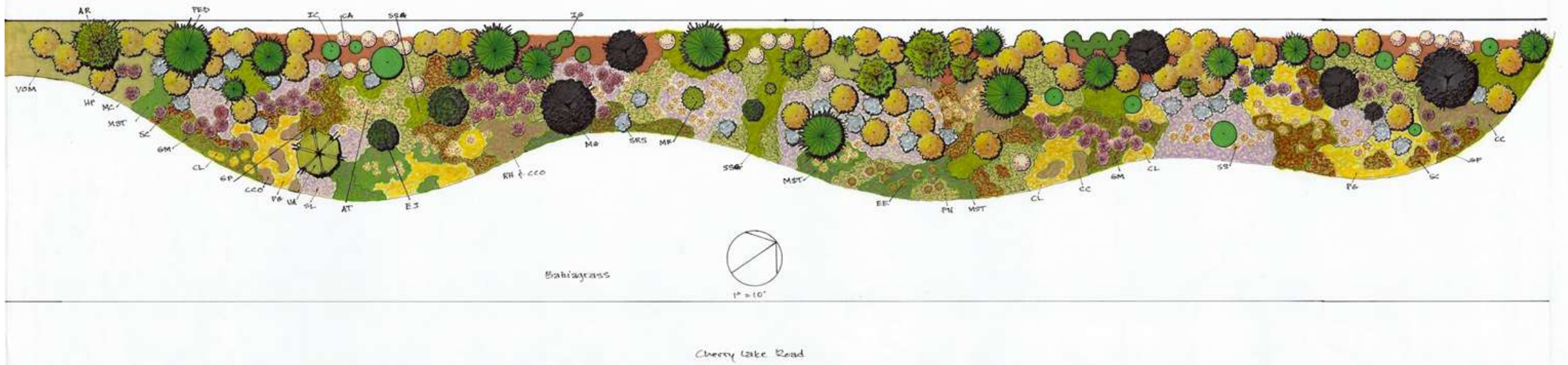
SUNBRIDGE BASECAMP
PROPOSED CHERRY LAKE STUDY AREA
04.12.2021





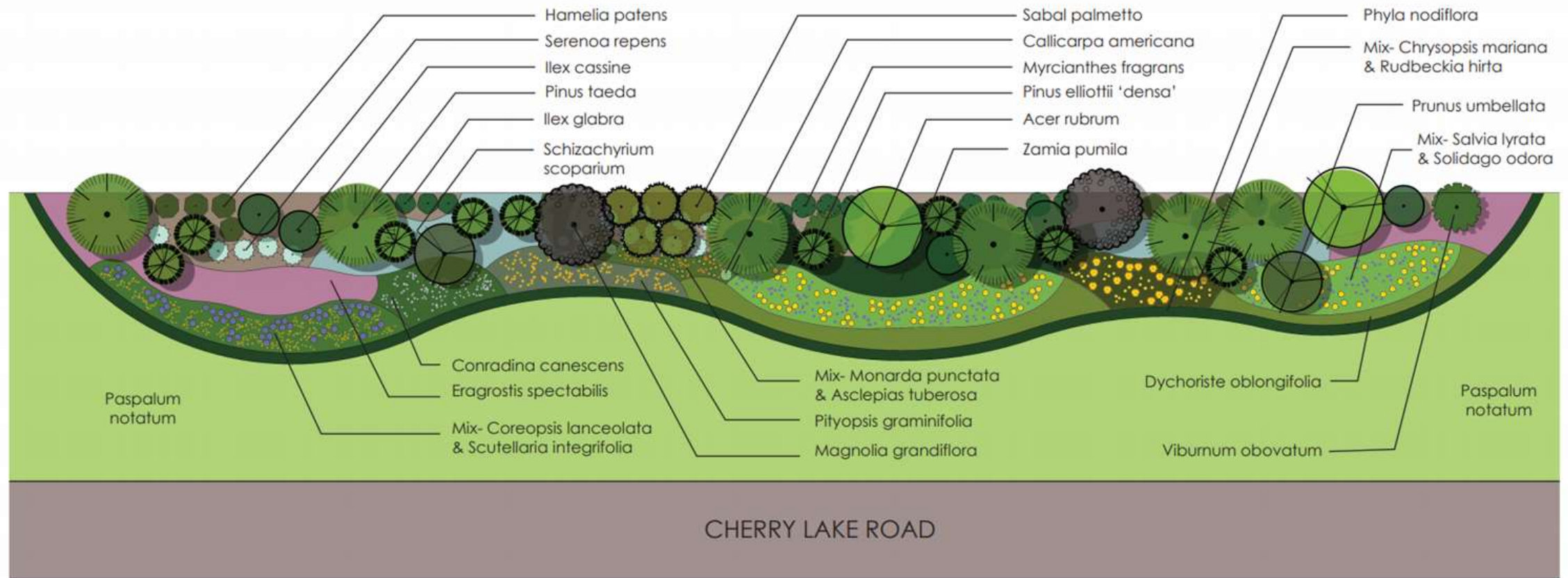
THE EDGE at CHERRYLAKE

NATURALISTIC



THE EDGE at CHERRYLAKE

FORMAL



TYPICAL 400' LENGTH OF ROADSIDE NATIVE PLANTINGS

THE EDGE at CHERRYLAKE

PLANT LIST

Acer rubrum 'Summer Red'		Garberia heterophylla		Dyschoriste humistrata 'Swamp Twinflower'
Acer rubrum 'Florida Flame'		Hamelia patens 'Calusa'		Dyschoriste oblongifolia 'Oblongleaf Snakeherb'
Eriobotrya japonica		Ilex glabra 'Galberry'		Gaillardia pulchella 'Blanket Flower'
Ilex cassine		Viburnum obovatum 'Walters'		Glandularia maritima
Magnolia grandiflora 'Miss Chloé®'		Viburnum obovatum 'Mrs. Schiller's Delight'		Lantana 'New Gold'
Pinus elliottii densa 'Slash Pine'		Zamia pumila		Monarda punctata
Pinus taeda		Andropogon ternarius		Mimosa strigilosa
Pinus elliottii 'Slash Pine'		Eragrostis spectabilis 'Purple Lovegrass'		Phyla nodiflora 'Turkey Tangle Frogfruit'
Sabal Palmetto		Muhlenbergia capillaris		Pityopsis graminifolia
Botanical Name		Schizachyrium scoparium		Rudbeckia hirta 'Black Eyed Susan'
Myrcianthes fragrans		Asclepias tuberosa		Salvia coccinea 'Sage'



Promote the adoption of sustainable landscape practices in Florida



LEARN MORE AT [OUTSIDECOLLAB.COM](https://www.outsidecollab.com)

2021 OUTSIDE COLLAB GOALS



1. **Promote** A Statewide Collaboration Around Sustainable Landscape Practices
2. **Increase** Nursery Supply and Market Demand of Florida Native And Florida Resilient Plants
3. **Grow** Industry Competencies In Sustainable Landscape Maintenance
4. **Support** Local Governments To Evaluate Landscape Codes For Effectiveness
5. **Collaborate** With State Agencies To Encourage Green Infrastructure Projects
6. **Quantify** Economic Impacts And Ecosystem Services
7. **Partner** With Development Community To Implement Sustainable Landscapes Holistically
8. **Partner** With Existing Developments (HOA's) To Retrofit Sustainable Landscapes Holistically
9. **Develop** A Holistic Sustainable Approach To The Landscape Transect From Design To Implementation To Maintenance.
10. **Educate** Communities To Expand Perceptions Of What Landscapes Can Provide

LEARN MORE AT OUTSIDECOLLAB.COM

UPCOMING EVENTS



Botanical Life, Natural Lands Management, + Sustainability at UNF Tour

May 7, 2021
Jacksonville, FL

Residential Native Place Landscapes Inside a Managed Community Tour

May 21, 2021
Villages, FL

OUTSIDE Collab 2021

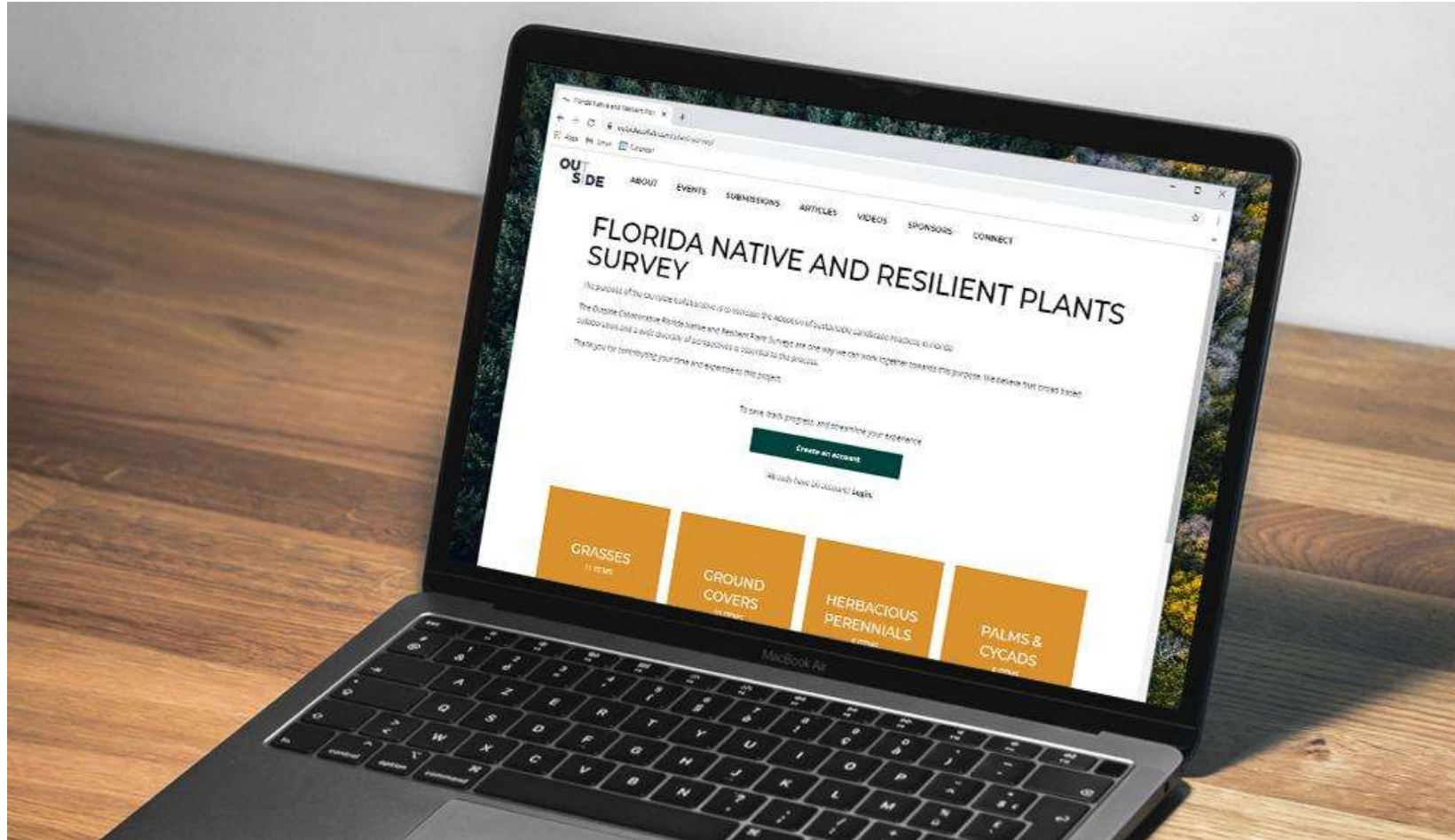
October 2021
Keynote Speaker: Doug Tallamy

OUTSIDE Collab 2022

Spring 2022
Keynote Speaker: Thomas Rainer

LEARN MORE AT
OUTSIDECOLLAB.COM

FLORIDA NATIVE AND RESILIENT PLANTS SURVEY



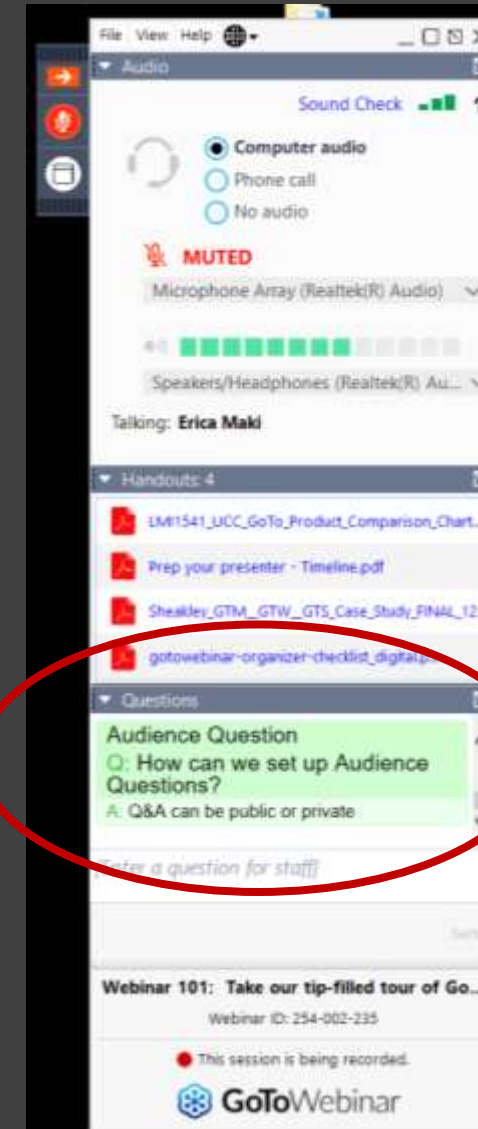
TAKE THE SURVEY NOW

outsidecollab.com/plant-survey

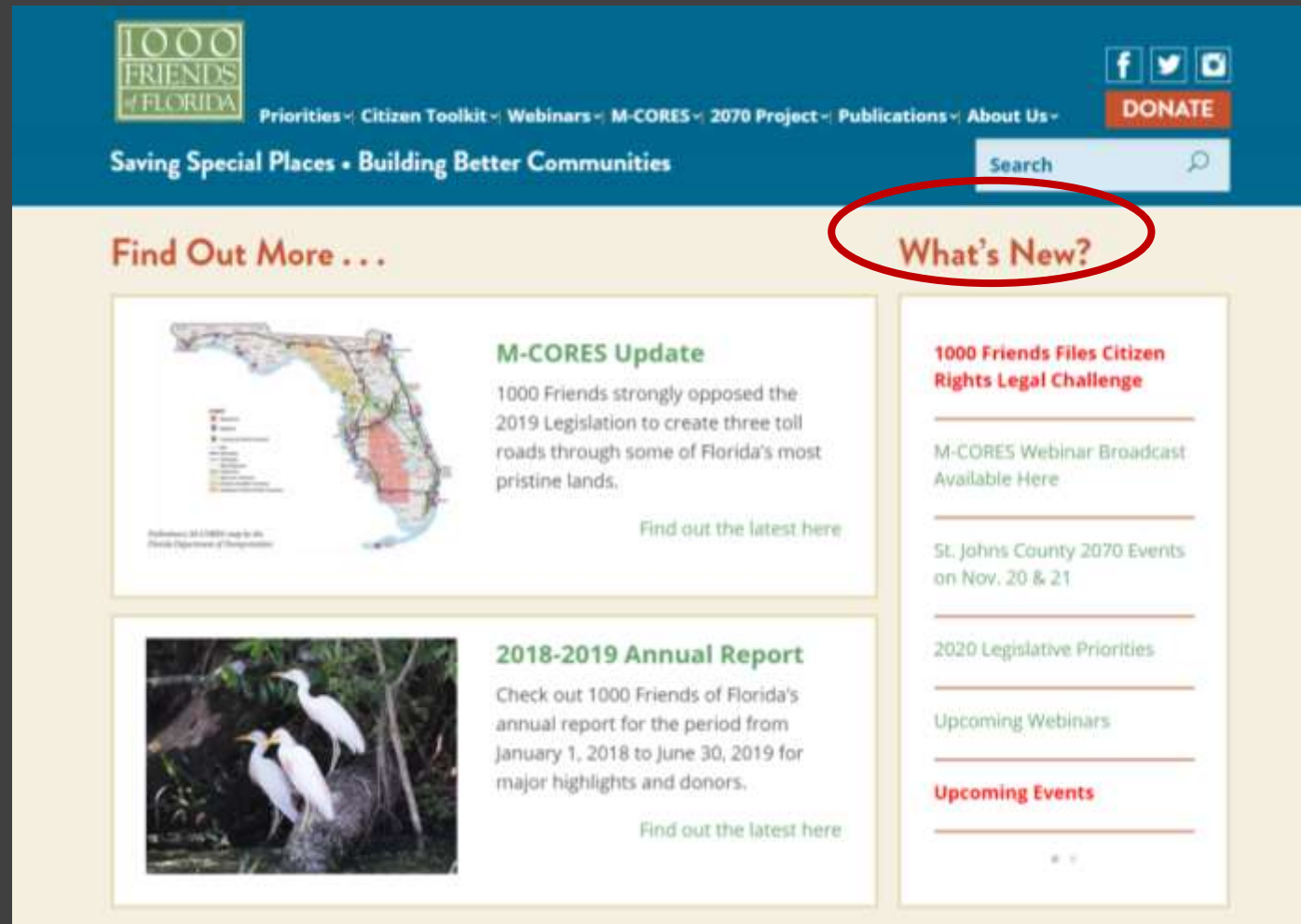
Questions and Answers

Please ask questions!

- Click on arrow at top right of your screen to maximize control panel
- Click arrow next to “Questions” to maximize the questions box
- Please 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 posted under “What’s New”
at www.1000fof.org



The screenshot shows the homepage of 1000 Friends of Florida. The header is blue with the organization's logo on the left, navigation links in the center, and social media icons and a 'DONATE' button on the right. Below the header, there's a search bar and two main sections: 'Find Out More...' and 'What's New?'. The 'What's New?' section is circled in red and contains several links to recent updates. The 'Find Out More...' section features three featured articles with images and brief descriptions.

1000 FRIENDS of FLORIDA

Priorities ▾ Citizen Toolkit ▾ Webinars ▾ M-CORES ▾ 2070 Project ▾ Publications ▾ About Us ▾

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Saving Special Places • Building Better Communities

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Find Out More . . .

What's New?

M-CORES Update

1000 Friends strongly opposed the 2019 Legislation to create three toll roads through some of Florida's most pristine lands.

Find out the latest here

1000 Friends Files Citizen Rights Legal Challenge

M-CORES Webinar Broadcast Available Here

St. Johns County 2070 Events on Nov. 20 & 21

2020 Legislative Priorities

Upcoming Webinars

Upcoming Events

2018-2019 Annual Report

Check out 1000 Friends of Florida's annual report for the period from January 1, 2018 to June 30, 2019 for major highlights and donors.

Find out the latest here

This webinar has been approved for:

1.5 AICP CM for planners (#9212157)

1 CEC for Certified Floodplain Managers

1 contact hour for Florida Environmental Health Professionals

1.5 credits for Florida landscape architects (DBPR Course #0012316, PVD #151)

CE's for Florida Water Star AP's and Inspector

2.0 CLE (#2101971N) for Florida attorneys



Follow up survey, certificate and credits:

In the follow up email for the LIVE WEBINAR you will receive:

- A link to a **brief survey** to help us improve future webinars
- A certificate of attendance (use Google Chrome to download)

*Credits for past webinars are available at
1000fof.org/upcoming-webinars/credits*



For Landscape Architects

1000 Friends only provides certificates of attendance for those who attend the live webinar

Add this to your certificate for today's webinar:
(DBPR Course #0012316, PVD #151, Your DBPR #)

1. In the follow up email sent an hour after the live webinar you will receive a certificate of attendance
2. Use Google Chrome to download the certificate
3. Add the course number, provider number (PVD 151) and your number to the certificate
4. When the course number is available it will be posted at 1000fof.org/upcoming-webinars/credits
5. Submit the certificate yourself to DBPR

Florida Landscape Architects – 1000 Friends of Florida Provider #PVD151



Upcoming Webinars

Register at www.1000fof.org/upcoming-webinars

- May 12 – 2021 Florida Legislative Wrap Up

Dr. John M. DeGrove Webinar Sponsors

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