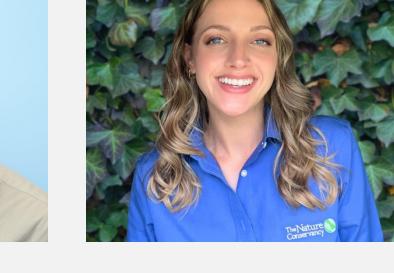
SHIFTING THE NARRATIVE: TOOLS AND APPLIED APPROACHES TO MAINSTREAM GREEN INFRASTRUCTURE









Eban Bean, Ph.D., P.E.
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Extension Specialist
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The Nature Conservancy

Corridor Compatible Communities Guidelines **Connecting Landscapes** for People and Nature

Christianah Oyenuga, Ph.D. The Nature Conservancy





Corridor Compatible Communities (CCC) Guidelines

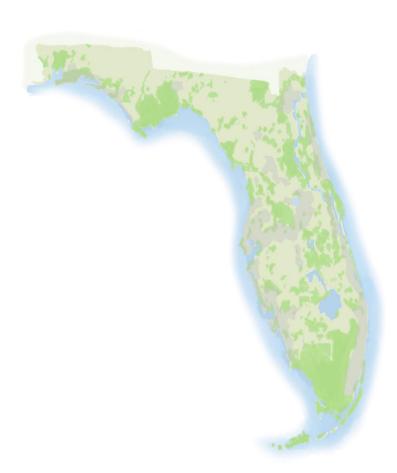
CCC Guidelines are a design tool that focuses on biodiversity, resilience and connection as the three pillars of excellent land development strategies to help inform how and where development can occur



Corridor Compatible Communities Guidelines

Intent of the CCC Design Guidelines

- 1. To establish a new standard of practices for wildlife-friendly development
- 2. To provide educational guidance for decision-makers, professionals, and communities interested in wildlife-friendly design strategies
- 3. To offer a resource for advocates seeking to incorporate wildlife-friendly development practices into local ordinances





CCC Design Guidelines

Building on Best Practices

- 1. Florida's history of conservation practices as a Springboard for the Future
- 2. Landscape Ecology as a guide for Development
- 3. Right Location, Right Team





Planning and Design Qualities









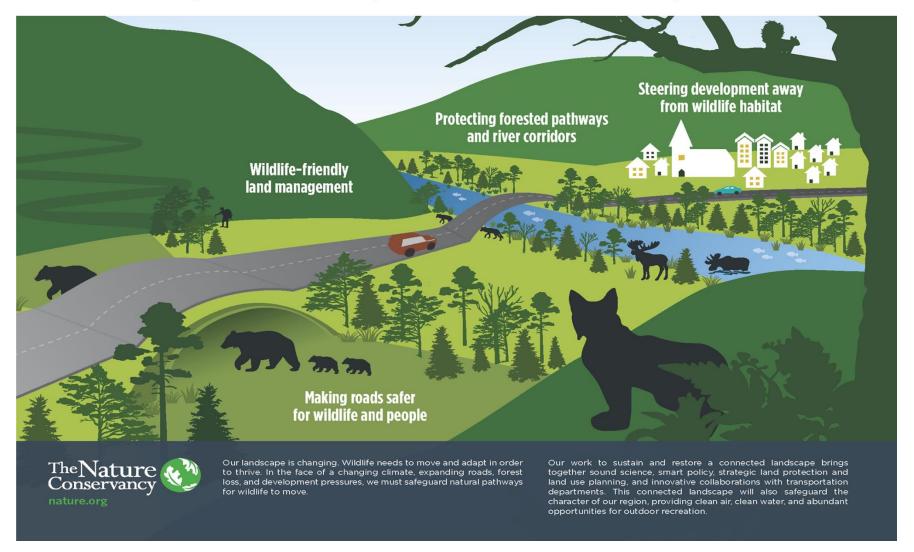


Corridor Compatible Communities Guidelines Key Takeaways

- Useful tool to assist landowners, county planners, regional planning councils, developers, private consulting firms, elected officials and others make decisions about where and how we grow
- Not Overly Technical
- Flexible, rather than prescriptive, and can be adopted based on the local context, surrounding environment and project needs/constraints
- Collaborative effort, developed with input from a broad range of stakeholders representing various public and private sectors and interests

Connecting the Landscape So Wildlife and People Can Thrive





Thank you!

Learn More about Corridor Compatible Communities





Intro to GSI & Code Audits

FOR THE #GATORGOOD

Eban Z. Bean, PhD, PE
Assoc. Professor & Ext. Specialist
Urban Water Resources Engineering
Agricultural & Biological Engineering, UF | IFAS

LID vs. GSI/NBS: Regulations & Incentives



Avoidance (LID)

- Map natural infrastructure
- Preserve open spaces, natural areas, trees and native soils
- Retain natural hydrologic and topographic features in site plan



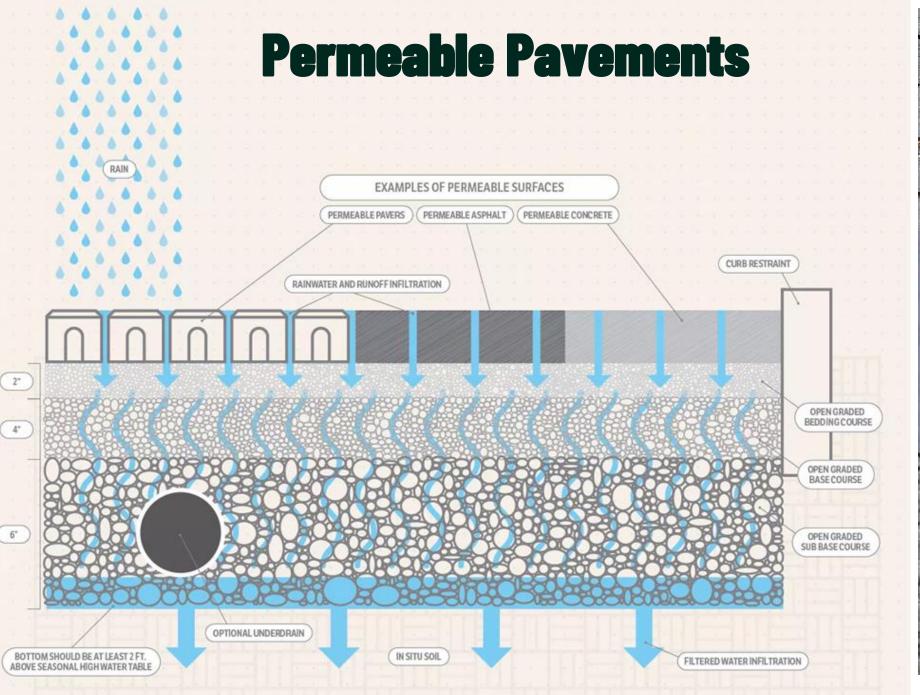
Minimization (LID)

- Limit and disconnect impervious surfaces
- Mimic and maximize predevelopment hydrologic processes
- Integrate practices that provide co-benefits and multifunctional areas



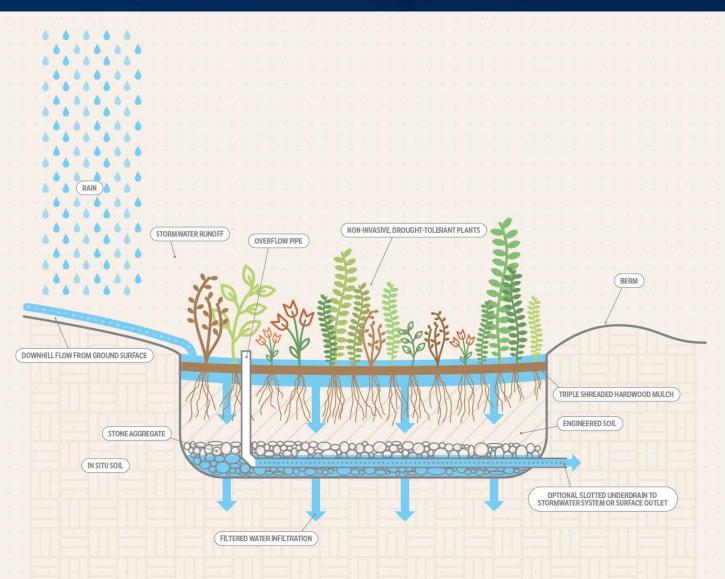
Mitigation (GSI/NBS)

- Implement runoff source control measures
- Employ natural processes to treat and retain stormwater
- Provide treatment and attenuation in multiple areas across the site

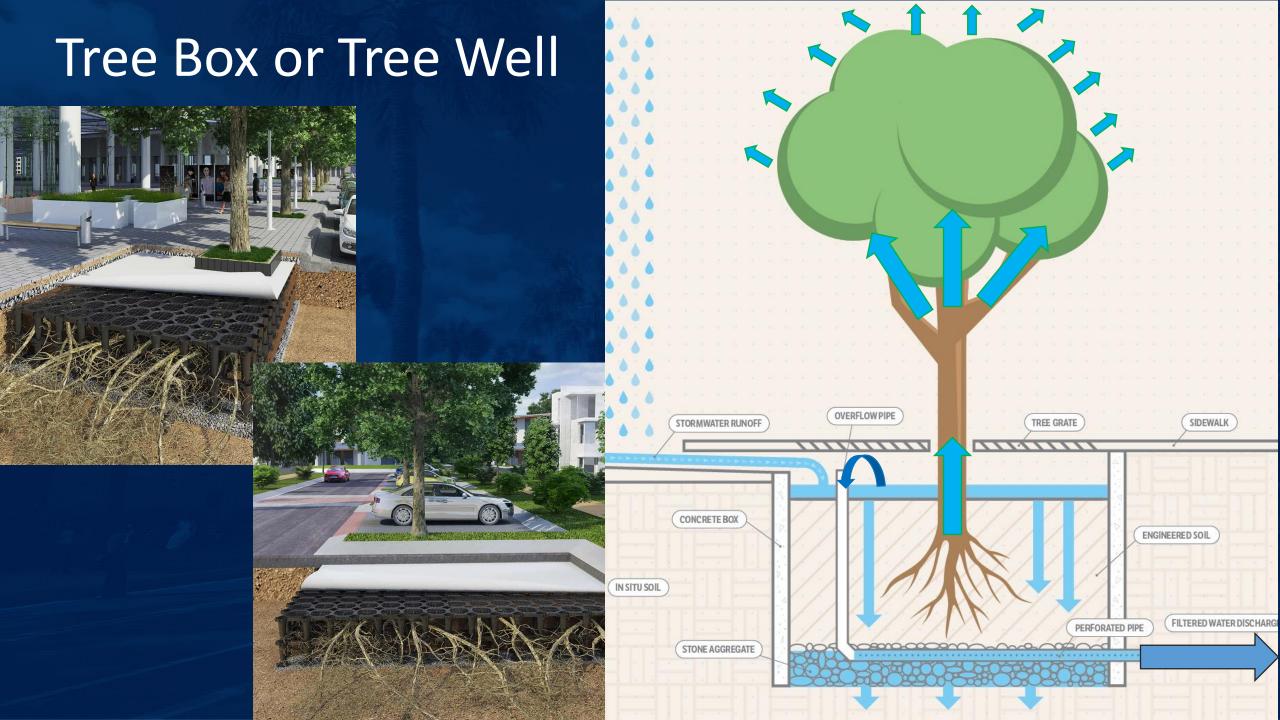




Bioretention & Rain Gardens







LID vs. GSI/NBS: Regulations & Incentives



Codes & Ordinances, Comprehensive Plans, & Zoning

Avoidance (LID)

- Map natural infrastructure
- Preserve open spaces, natural areas, trees and native soils
- Retain natural hydrologic and topographic features in site plan

Minimization (LID)

- Limit and disconnect impervious surfaces
- Mimic and maximize predevelopment hydrologic processes
- Integrate practices that provide co-benefits and multifunctional areas

FDEP & WMDs:

TMDL/BMAP, MS4, ERP Programs

Mitigation (GSI/NBS)

- Implement runoff source control measures
- Employ natural processes to treat and retain stormwater
- Provide treatment and attenuation in multiple areas across the site

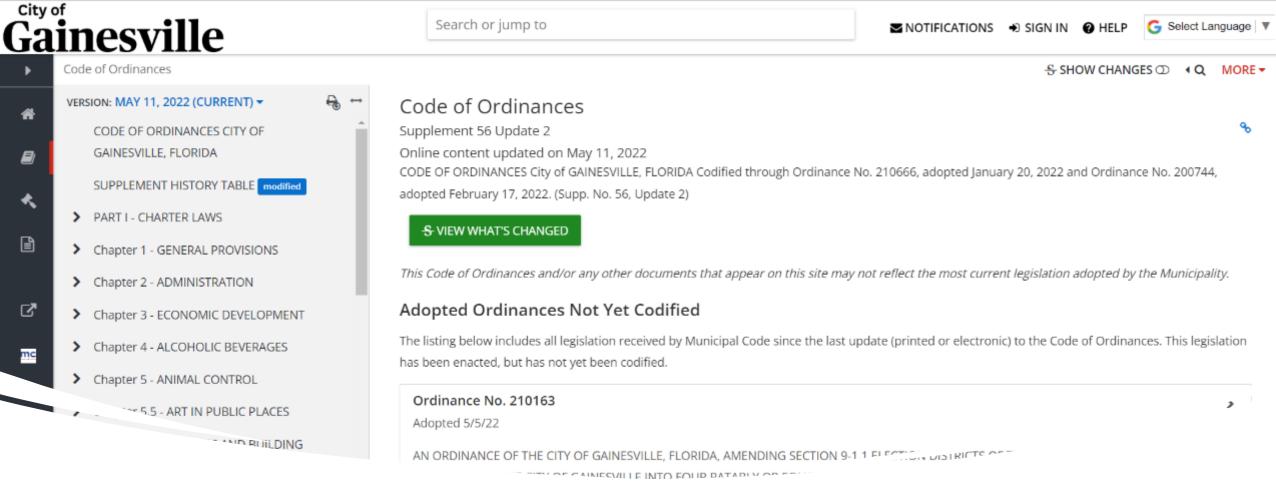


Curb & Gutter Requirements

Minimum Parking Requirements







Code Audit

- Coordinated & objective review of codes to identify unintended, unnecessary, or no longer necessary restrictions or prohibitions
- Identify weak areas of code that can be addressed currently or when opportunity arises
- www.municode.com

Code Audit Spreadsheet Tool (CAST)

Enabling Low Impact Development and Green Stormwater Infrastructure

A CODE AUDIT TOOL FOR FLORIDA COUNTIES AND MUNICIPALITIES

Points	Criteria	Example Code Requirement
4	Required	The practices are specifically required by the code for appropriate situations.
3.5	Incentivized	The practice is incentivized, either monetarily or through accelerated review or other benefits, but not required and no penalties if the practice is not used.
3	Encouraged	The practice is encouraged in the code, but no incentives are available.
2	Allowed	The practice is allowed in the code, but no incentives are available.
1	Not Mentioned	The practice is not mentioned in the code.
0	Prohibited	The practice is restricted or prohibited in the code.

Administrative

- About
- Definitions
- Codes Review Log
- Contact Information
- Scoring Instructions
- Score Summary

Local Government Planning and Policy

- Comprehensive Plan
- Zoning

Protecting Nature

- Natural Resources Protection and Management
- Coastal Areas
- Trees
- Sensitive Groundwater Areas

Stormwater and Water Quality

- Stormwater Management
- Pollutant Reduction

The Built Environment

- Site Plan Review
- Buildings & Landscape
- Streets
- Parking
- Permeable
- Construction
- Subdivisions & Greenfield
- Education and Demonstration

Code Audit: Scoring Examples

M6. How does code address shared parking agreements for adjacent businesses to minimize total onsite parking spaces?

Tips	Florida Community Examples	Code References	Notes, Ideas and Strategies	Score
Businesses and other establishments with different peak usage times (e.g. stores, restaurants, churches, and recreation areas) may not need dedicated parking due peak times offset from adjacent properties.	Tampa Code of Ordinances: Chapter 27 Article III Division 2 Subdivision 3 Section 27-184 sets forth that any parking structure or surface lot can be considered for use as shared parking and county toward meeting parking ration for multiple buildings if buildings and parking structure are under common ownership Winter Haven ULDC: Chapter 21 Article III Division 3 Section 21.142(c) allows for shared parking and details the requirements of and approval process for shared parking.	Chapter 21 Article III Division 3 Sec. 21.142(c) allows for shared parking and details the requirements of and approval process for shared parking.		2

B1. How does code address protections for natural infrastructure?

Tips	Florida Community Examples	Code References	Notes, Ideas and Strategies	Score
Preserve existing ecosystem services and benefits of natural infrastructure. E.g., code can require conservation or restoration strategies that protect natural areas	natural hydrology of the site and have stormwater	Chapter 21 Article II Division 2 Zoning Districts Sec. 21-51 Conservation (b) The purpose of the CN, Conservation zoning district is to preserve the proper functioning of natural resources, such as wetlands, floodplains, and groundwater/aquifer recharge areas. Article III Division 7 Sec. 21-181 The purpose of this division is to protect Winter Haven's urban forest resource, encourage tree species diversity, expand tree canopy cover, grow a sustainable and resilient urban forest, promote the use of street trees, and achieve buffering between incompatible land uses. Article V includes divisions for floodplain management, potable water wellhead protection areas, lakeshore protection, wetlands protection, erosion control, and conservation easements	The code protects natural infrastructure in a variety of ways. There is a whole zoning district dedicated to conservation (Sec. 21-51). Tree protection requirements are in 21-181 and Chapter 21 Article V Resource Protection covers protections for different types of resources.	4

			Complete Total Points	d Questions Possible Points	Percentage of I	Points Credited
Section Topic	Section	Questions	Total Points	Possible Points	Section	Topic
Comprehensive Plan	Future Land Use Element	6	16	24	67%	
Comprehensive Plan	Conservation Element	6	20	20	100%	
Comprehensive Plan	Coastal Zone Management Element	3	0	0		
Comprehensive Plan	Utilities/Infrastructure Element	4	16	16	100%	
Comprehensive Plan	Capital Improvement Element	2	5	8	63%	
Comprehensive Plan	Housing Element	2	5	8	63%	
Comprehensive Plan	Transportation Element	3	3	12	25%	
	Cumulative for Comprehensive Plan	26	65	88		74%
Protecting Nature	Natural Infrastructure	6	23.5	24	98%	
Protecting Nature	Coastal Areas	7	0	0		
Protecting Nature	Trees	8	21	27	78%	
Protecting Nature	Sensitive Groundwater Areas	5	11	20	55%	
3	Cumulative for Protecting Nature	26	55.5	71		78%
Stormwater and Water Quality	Stormwater Management	17	60	76	79%	
Stormwater and Water Quality	Pollutant Reduction	11	15	36	42%	
	Cumulative for Stormwater and Water Quality	28	75	112		67%
The Built Environment	Site Plan Review	10	28	44	64%	
The Built Environment	Zoning	15	34	60	57%	
The Built Environment	Buildings	5	7	20	35%	
The Built Environment	Landscaping	16	34	63.5	54%	
The Built Environment	Streets	5	4	20	20%	
The Built Environment	Parking	13	31	52	60%	
The Built Environment	Permeable Hardscapes	6	8	24	33%	
The Built Environment	Construction	5	14	32	44%	
The Built Environment	Education and Demonstration	10	0	0		
	Cumulative for The Built Environment	85	160	315.5		51%
Cumulative for full audit		165	355.5	586.5		61%

Completed Code Audits



Volusia

Orange

Highlands

Glades

Collier

Monroe

Indian River

St Lucie

Martin

Palm Beach

Broward

Miami-Dade

Pasco

borough

Manatee

Sarasota

Hardee

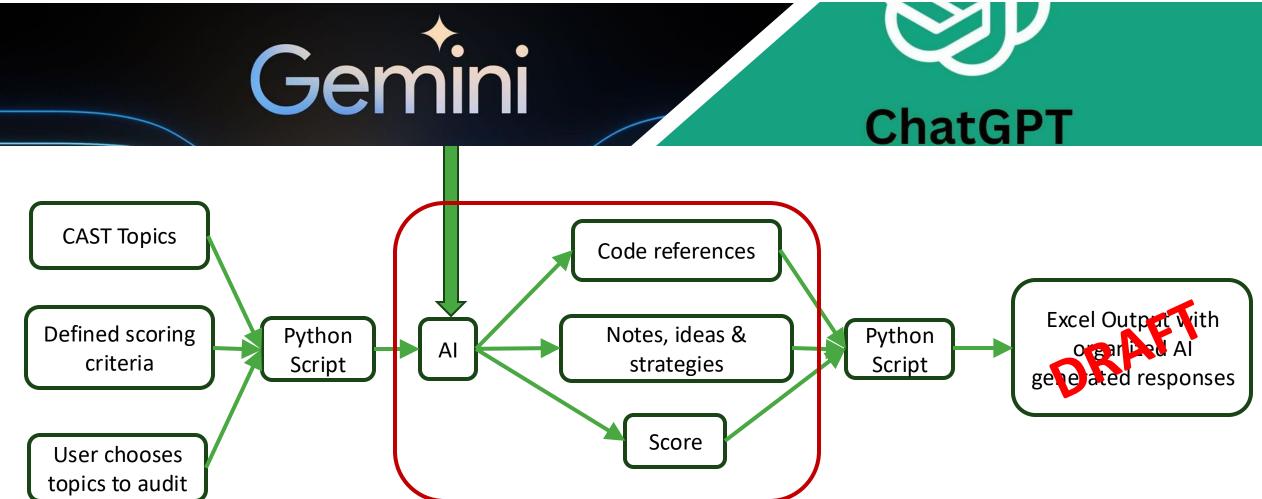
DeSoto

Charlotte

			Dixie
Community	Highest	Lowest	Overall
Groveland	Buildings: 81%	Pollutant Reduction: 36%	60%
Kissimmee	Site Plan Review: 93%	Streets: 35%	64%
Longwood	Trees and Pollutant Reduction: 78%	Streets: 20%	61%
Winter Haven	Natural Infrastructure: 100%	Streets: 20%	58%



ClaudeAl



Topic Extraction
Iterative Prompt Engineering

Questions?

Eban Z. Bean, Ph.D., P.E.
Associate Professor & Extension Specialist
Urban Water Resources Engineering
ezbean@ufl.edu
@EbanBean











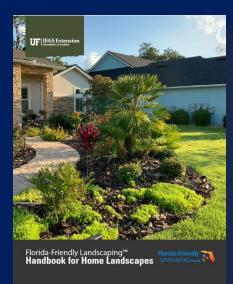
9 Principles of Florida-Friendly Landscaping™

- Right plant, right place
- Water efficiently
- Fertilize appropriately
- Mulch
- Attract wildlife
- Manage yard pests responsibly
- Recycle yard waste
- Reduce stormwater runoff
- Protect the waterfront



FFL Resources

- Online education & CEUs
- Free monthly webinars
- Free web applications
- Manuals







Webinars





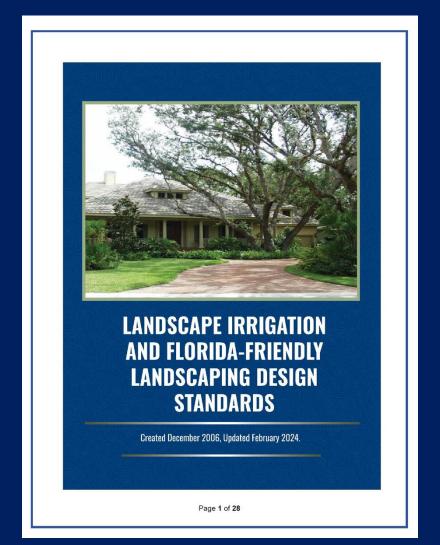


The Florida-Friendly Landscaping™ Program Professional Webinar

DATE	WEBINAR TOPIC	FFLCP, FNGLA	LA, CAM (DBPR)	ISA	LIAF	FDACS LF, LCLM, LLO, CLO	AICP
Jan 14	The UF/IFAS H ₂ O SAV Program: Optimizing Water Conservation - Dr. Nick Taylor	✓	✓		✓	✓	
Feb 11	Florida-Friendly "Sea"scapes: Living Shorelines for a Sustainable and Resilient Coastal Florida - Dr. Vincent Encomio	✓	✓		✓	✓	
Feb 19	SPECIAL WEBINAR - SoilKit Update: An Innovative UF/IFAS Soil Testing Tool - Christina McInnis						
Mar 11	The New Era of Ornamental Perennial Peanut - Dr. Leynar Leyton	✓	✓		✓	✓	
Apr 8	New Turfgrass and Mixed Species Update - Kevin Kenworthy	✓	✓		✓	✓	
May 13	Invasive Plants: Explaining the Predictive and Assessment Tools - Dr. Seokmin Kim	✓	✓		✓	✓	
Jun 10	High Performing Landscapes and the Metrics and Standards to Create Sustainable Landscapes - Dr. Gail Hansen	√	✓		✓	✓	✓
Jul 8	Microclimates: Mitigating the Heat in Florida's Cities - Dr. Yi Luo	✓	✓		√	✓	✓
Aug 12	Wildflowers and Weeds: Exploring Nativeness - Marc Frank	✓	✓		√	✓	
Sep 9	What's New in Tree Selection and Care - Dr. Andrew Koeser	✓	✓	✓	✓	✓	
Oct 14	Public Perception of Sustainable Landscaping Practices - Dr. Jaiyang Li	✓	✓		✓	✓	✓
Nov 4	Creating Habitat Connectivity in the Urban Landscape - Isabella Guttuso Browne	✓	✓		✓	✓	✓
Dec 9	The UF Coleus Breeding Program - Dave Clark	√	✓		✓	✓	

Landscape Irrigation and Florida-Friendly Landscaping Design Standards

Manual



Model Irrigation Ordinance

MODEL FLORIDA-FRIENDLY LANDSCAPINGTM IRRIGATION ORDINANCE

PREPARED FOR: 1

BY: 1

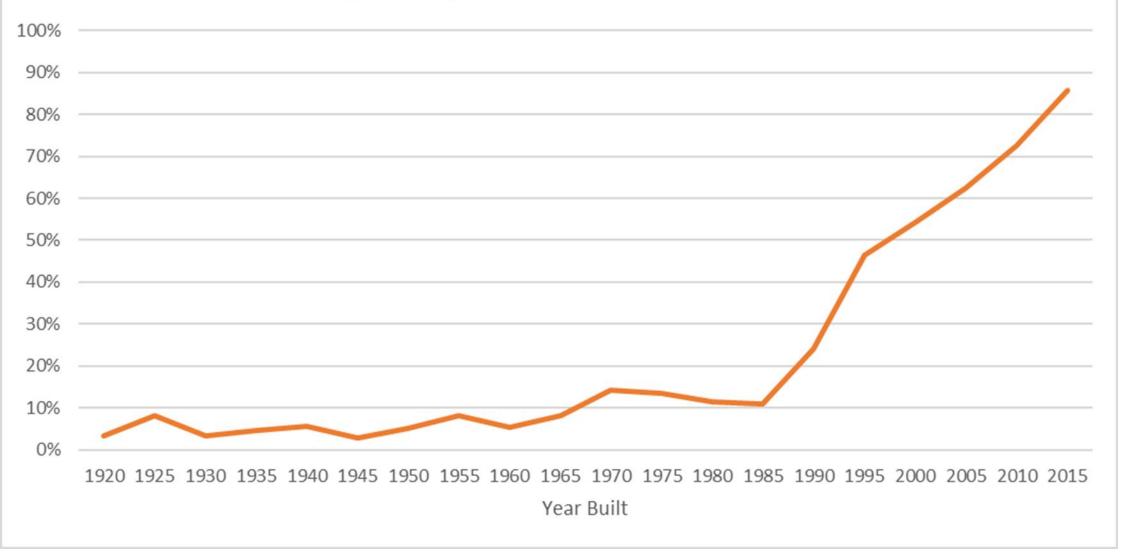
The Model Irrigation Ordinance for Florida Friendly Landscaping is provided as a template to assist local governments and municipalities in developing landscape and irrigation codes that incorporate best management practices and recommendations. This document is intended for guidance only.

Local governments are strongly encouraged to review, modify, and adapt this template to align with local conditions, legal requirements, and community needs.

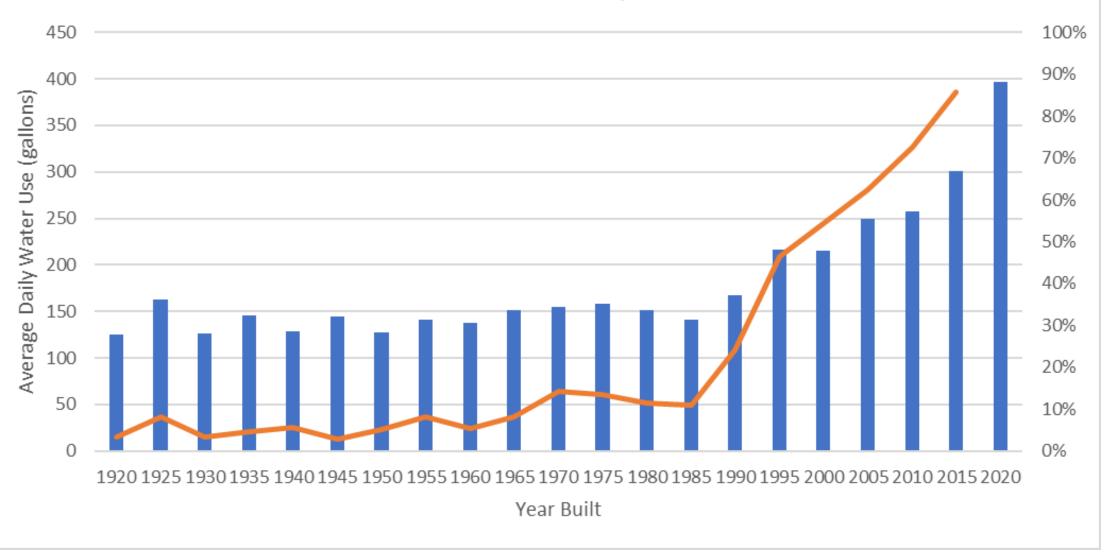
Prior to adoption, municipalities should consult with legal counsel and local water management professionals to ensure compliance with applicable state, and local laws. The University of Florida and the Florida Friendly Landscaping™ program make no warranties, express or implied, regarding the applicability, enforceability, or suitability of this model ordinance for any specific jurisdiction and assume no liability for the use of this model ordinance.

This model contract does not convey legal advice, does not purport to include all of the provisions that may be required to create a binding agreement to the satisfaction of the parties in any given circumstance, and does not create an attorney-client relationship between the user and the University of Florida. This model contract is based upon the laws of Florida and the United States at the time it was posted. These laws may change from time to time. In addition, local government law may apply. Users of this model contract should seek advice from an attorney before using this contract.

Percentage of Single-Family, Detached Homes with In-Ground Irrigation Systems in Gainesville, Florida



APP21age Daily Water Use by Year Built for Single-Family, Detached Homes in Gainesville, Florida







How much water am I using to irrigate my yard?

In Florida, an irrigation system uses at least **991 gallons** each time the average yard is watered. That amount of water is equal to...







Taking a WaterSense shower for **8.25 hours**

Using your HE washing machine for **37 loads** of laundry

Running the bathroom faucet for **8.25 hours**







Flushing a WaterSense toilet
774 times





To learn more, visit edis.ifas.ufl.edu/AE585

An Equal Opportunity Institution.





How much water am I using to irrigate my yard?¹

By Nicholas Taylor, Kaitlin Robb Price, and Bradley Spatz²

Florida is known for its abundant springs, rivers, and lakes, but the state is facing a water crisis. By 2070, development-elated water demand is projected to more than double to 6.5 billion gallons per day from the 2010 baseline of 3.1 billion gallons per day (UF Geoplan Center 2016). While the EPA estimates that outdoor water use accounts for 30% of household use nationally (Environmental Protection Agency 2022), research shows that some homes in Florida are using significantly more than this. In some counties, the highest water users spend 60–70% of their total water use for irrigation (Taylor et al. 2021; Taylor et al. 2022).

UF/IFAS research shows that common issues with irrigation systems include timers being set to water too frequently and/or for too long (Olmstead and Dukes 2020). Florida homeowners with high water use who are looking to save water and save money on their water bill should first look to see if they can reduce their outdoor water use. The goal of this publication is to help readers understand the magnitude of water used for a single irrigation event and encourage them to evaluate their outdoor water use. First, we calculated the estimated gallons of water used per irrigation cycle in Florida. Then, to help readers visualize the magnitude of that water use, we compared the water use of irrigation to other indoor behaviors.



Figure 1. In-ground irrigation at a single-family, detached home in Florida. Credits: UF/IFAS Photo by Tyler Jones

How much water is used per irrigation cycle?

This study used county property appraisal data for 1,162,401 homes in Florida to estimate the typical irrigated landscape area. This data represents 22% of the 5,231,740 single-family, detached homes in Florida (as estimated by the United States Census Bureau).

It takes 0.62337 gallons of water to cover one square foot with one inch of water. With this constant, the following formula was used to calculate water use per irrigation cycle:

0.62337 × Irrigated area × Irrigation depth = water use per Irrigation cycle

- This document is AE585, one of a series of the Department of Agricultural and Biological Engineering, UF/IFAS Extension. Original publication date March 2023. Visit the EDIS website at https://edis.ifas.ufl.edu for the currently supported version of this publication.
- Nicholas Taylor, state specialized agent, Program for Resource Efficient Communities; Kaitlin Robb Price, H_OSAV project manager, Program for Resource Efficient Communities, Department of Agricultural and Biological Engineering; and Bradley Spatz, data scientist, H_OSAV, Program for Resource Efficient Communities: UPI/AFS Extension. Gainesville. Florida 32611.

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https://edis.ifas.ufl.edu/publication/AE585

623 gallons per 1000 sqft 3,179 sq feet landscape 991 gallons per ½" irrigation cycle

Florida-Friendly Landscape vs. Traditional Landscape





Sustainable Residential Landscapes in Florida: Controlled Comparison of Traditional versus Florida-Friendly Landscaping

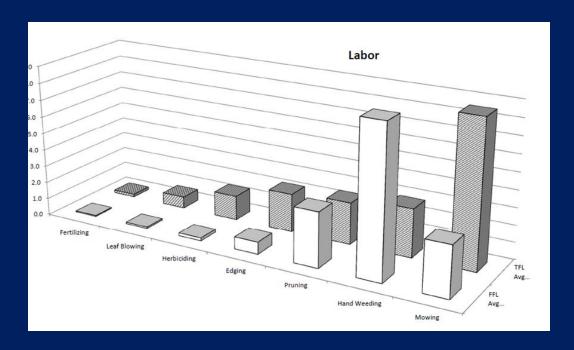
Taylor B. Clem, Ph.D.¹; Gail M. Hansen, Ph.D.²; Michael D. Dukes, Ph.D., P.E., F.ASCE³; Esengul Momol, Ph.D.⁴; Jason Kruse, Ph.D.⁵; Christopher Harchick⁶; and John Bossart, Ph.D.⁷

Abstract: A comparison of water use and maintenance effort was made between traditional and Horids-Priendly Landscaping (FFL).

Traditional Florida landscapes are generally turf dominated with minimal shrubbery, all indiscriminately irrigated using single-zone, large-rotor sprinklers. Conversely, FFL landscapes feature reduced turf cover, substantial areas with mulched omamental beds, and zoned irrigation that includes microtingation and smart controllers. This study used three identically sized landscape replicates (each 455 m²₁, 49.00 ft²), with half of each landscaped in a traditional Florida manner using 75% turf, and the other half using an FFL landscape that reduced turf extent to 25% but incorporated groundcovers and mulched beds. During a 12-month establishment period, the FFL landscape used 69.7% less irrigation water than the traditional landscape, and 83.9% less water in a 34-month postestablishment period. Substantial sous-stablishment water savines were realized by simply turning of the microtirisation to the ornamental beds and visual resources for the stable of the microtirisation to the ornamental beds and visual resources for the stable of the properties of the microtirisation to the ornamental beds and visual resources for the stable of the properties of the microtirisation to the ornamental beds and visual resources for the stable of the properties of the microtirisation to the ornamental beds and visual resources and the stable of the properties of the microtirisation to the ornamental beds and visual resources.



Saved up to 83% water







Tamarind Village

Broward County (HOA)

Annual Maintenance Savings

- saved \$16,000 on water bill
- saves \$13,000 a year on fertilizer
- saves \$5,000 a year on pesticides

\$33,000 annual savings

FFL - Impacts



UF/IFAS Extension's Florida-Friendly Landscaping™ (FFL) program and the Center for Land Use **Efficiency (CLUE)** partner with state agencies, local governments, and nonprofit organizations to safeguard our water for future generations.

SAVING FLORIDA'S WATER SUPPLY,

DROP BY DROP

WATER DEMAND

Water demand already exceeds supply in some parts of Florida, and projections show the state could double its current water usage by 2070 if population growth, water-use habits, and irrigation practices do not change.1



50%

of Florida household water usage is for landscape irrigation.



The average U.S. household

WATER CONSERVATION

120,700

MAKING AN IMPACT



27E EA2 A4E



375,503,045

gallons of water saved...

IFAS Extension



Since 1993 the Florida-Friendly

Landscaping™ (FFL) program

Protection (FDEP) to reduce

Polluted runoff from rainfall

pollution in Florida waters.

or overwatering is a major

source of excess nitrogen

and a major contributor to

Basin Management Action

Plans (BMAPs) and helps

poor water quality.1 FFL is an

integral component of many

REDUCING Nitrogen Pollution in Florida Waters

WATER OUALITY BENEFITS OF FLORIDA-FRIENDLY LANDSCAPING™

has partnered with the Florida → FFL efforts prevented an estimated Department of Environmental 119,564 pounds of nitrogen from entering Florida waters in 2021.2 → 5.000 landscape professionals adopted one or more green industry best

management practices (GI-BMP).3 → 14.600 adult participants in FFL Extension programs adopted one or more best management practices

for residential landscapes.3

- -> Participants shared what they learned through FFL with 3 other people, on average.4
- → 95% of landscape professionals reported using UF/IFAS green industry best management practices for fertilizer use, compared to just 65% before attending the FFL training.4
- → 72% of residential participants said they adopted one or more FFL water conservation practices.4

Estimated statewide annual savings of \$59.8 million

FFL Professional Certification Programs

- Green Industries Best Management Practices (GI-BMP)
- FFL Certified Professional
- Florida-Friendly Ponds Certification
- Qualified Stormwater Inspector Certification



Stormwater Qualified Inspector Certification



- Online certification
- 10 recorded modules with interactive activities and field videos
- Cost –\$100
- Certified individuals have the option to be listed on our website
- Valid for 5 years

Fundamentals of Stormwater Management

Module 1

Stormwater Qualified Inspector Training



Groundcover

June 28, 2023



Scientific Name	Stachytarpheta		
	jamaicensis		
Common Name	Blue Porterweed		
Native	Native		
Planting Zone	Bank Top		
Plant spacing	4-5 ft. apart		
Hardiness Zone	9A-11		
Growth Form	Groundcover		
GSI Type	Bioretention,		
	Stormwater Pond,		
	Tree Box, Infiltration		
	Basin, Swale, Green		
	Roof, Wetlands		

Light Requirement	Full Sun/Part Shade	Native Habitat	Coastal Strand, Open areas in dry mesic hardwood forests, Nestled under trees along sandy roadsides
Evergreen/Deciduous	Evergreen	Growth Rate	High
Height	4' - 8'	Spread	4' - 8'
Flood Tolerance	None	Drought Tolerance	Moderate
Soil pH	Tolerates Any Soil pH (4.5-8.0)	Salt Tolerance	High
Soil Moisture	Well Drained	Soil Texture	Any Texture
Color	Green with Blue or Purple (Flower)	Longevity	Short-Lived Perennial/Annual

e.	
Bank Stabilization/	
Erosion Control	
Wildlife Benefit	Butterflies
Notes	
Planting Guidelines	Locate porterweed in a Sunny location in any soil. Provide irrigation during establishment and then in extended drought in the summer. Fertilize about twice each year to maintain foliage color and provide for continuous growth. Tolerant of soil compaction.
Maintenance	Provide irrigation during establishment and in periods of extended drought during summer. Plants that survive the winter but die back to the ground should be cut back just before new spring growth resumes. Plants that become leggy can be pruned back any time. Deadheading of flowers is not necessary. Lifespan is about 5 years, but it readily self-seeds.

Florida-Friendly Landscaping™ Program

Green Stormwater Infrastructure (GSI)

Managing stormwater runoff at a community level can require an engineered solution. Green stormwater infrastructure (GSI), also known as Low Impact Development (LID), is a cost-effective, resilient approach to managing wet weather impacts that provides many community benefits.

GSI includes the range of structural and non-structural, retention and detention measures that infiltrate, evaporate, detain, filter, or store stormwater runoff closer to the source. The goal of GSI is to mitigate the runoff produced from site development.

The Florida Department of Environmental Protection has an extensive **Green Infrastructure Website**, including how to get started, technical guidance and funding opportunities.

The Florida-Friendly Landscaping™ Program has developed a **plant guide specifically for GSI use**, and offers online certification training in GSI maintenance. The new **Stormwater Qualified Inspector Training (SQuInT)** meets the certification requirements to perform stormwater system inspection under the 2024 Florida stormwater regulations that took effect 6/28/2025.

Training & Certification

Stormwater Qualified Inspector Training

GSI Maintenance Materials

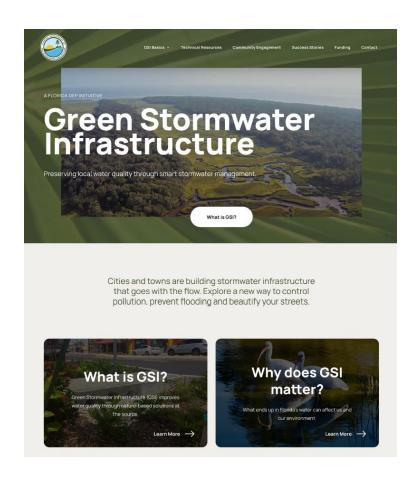
- GSI Maintenance Resources
- GSI Maintenance & Planting Manual
- GSI Plant Guide

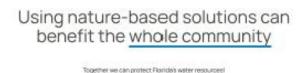
More GSI Resources

- Florida DEP Green Stormwater
 Infrastructure website
- Green Infrastructure in Florida Video Series
- GSI Webinar Series
- The Nature Conservancy & UF/IFAS GSI Photo Library

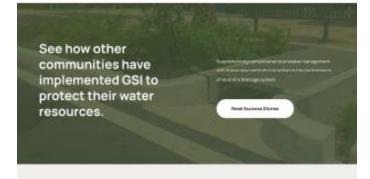
Florida Green Stormwater Infrastructure Website

- Community Engagement
 - GSI Brochure
 - GSI Presentation
- GSI Technical Manual
- GSI Plant Guide
- Case Studies





Engage tour Community





GSI Photo Library

DONALD WISHART

DIRECTOR, COMMUNITY SOLUTIONS GROUP

Biofiltration, Birds, City Streets, Downtown, Landscaping, Park, Pond, Stormwater, Wetland, Wildlife



Contact Information

COMMUNITY SOLUTIONS GROUP

https://gaiconsultants.com/industry/community-solutions/

Donald Wishart

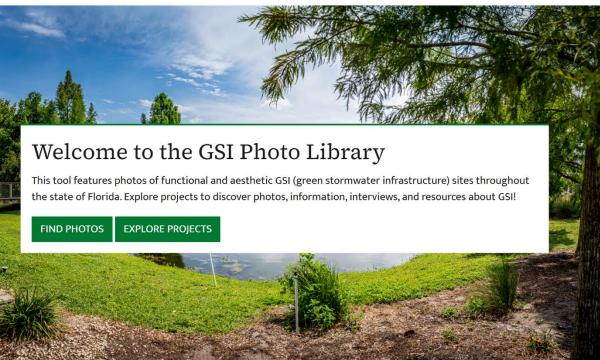
Director

Victory Pointe Park Interview with Donald Wishart, PLA, GAI Consultants, Community Solutions Group

First, let's talk about your experience with stormwater management projects. What benefits do these projects provide?

I've been practicing Landscape architecture for about 32 years, but it is within the last 8-10 years that we've started to take more innovative approach with stormwater management.







Featured Interview: Cascades Park

AUTUMN CALDER

DIRECTOR, BLUEPRINT AGENCY

Autumn Calder shares how Blueprint created a stormwater facility diguised as a world class park

READ INTERVIEW

EXPLORE ALL INTERVIEWS



UF/IFAS CENTER FOR LAND USE EFFICIENCY

2026 URBAN LANDSCAPE SUMMIT

APRIL 21-22



PRACTICAL SOLUTIONS FOR CHANGING URBAN LANDSCAPES





Greenprints

Planning for Biodiverse, Resilient and Healthy Communities

Kierstyn Cox, The Nature Conservancy





What is a Greenprint?

Greenprints are **strategic conservation plans** that can make communities stronger, healthier and more resilient



Many different landscapes and scales





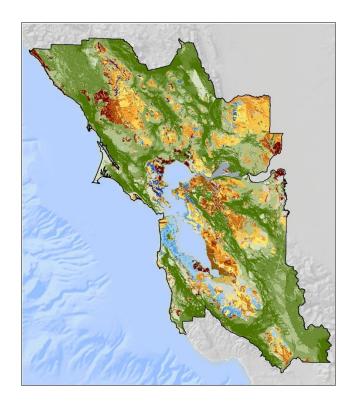








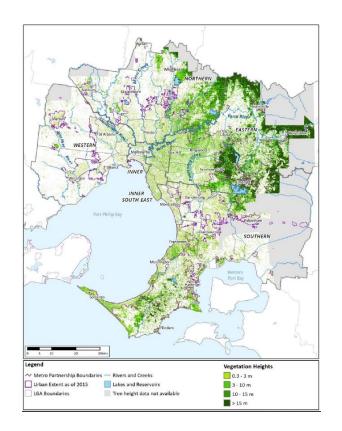
Regional



Bay Area Greenprint

California

Metro

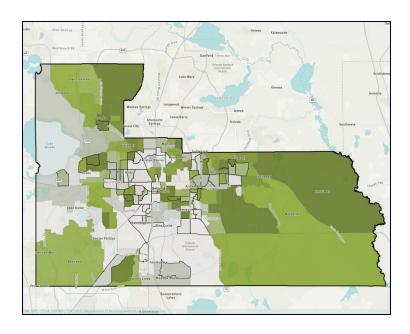


Living Melbourne

Australia

Urban





EcoResource of Orange County

Florida



EcoResource of Orange County



EcoResource of Orange County





EcoUrban Assessment Resource

EcoUrban Assessment Resource

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Flood Risk Freshwater Heat and Tree Canopy

Park Access and Green Spaces

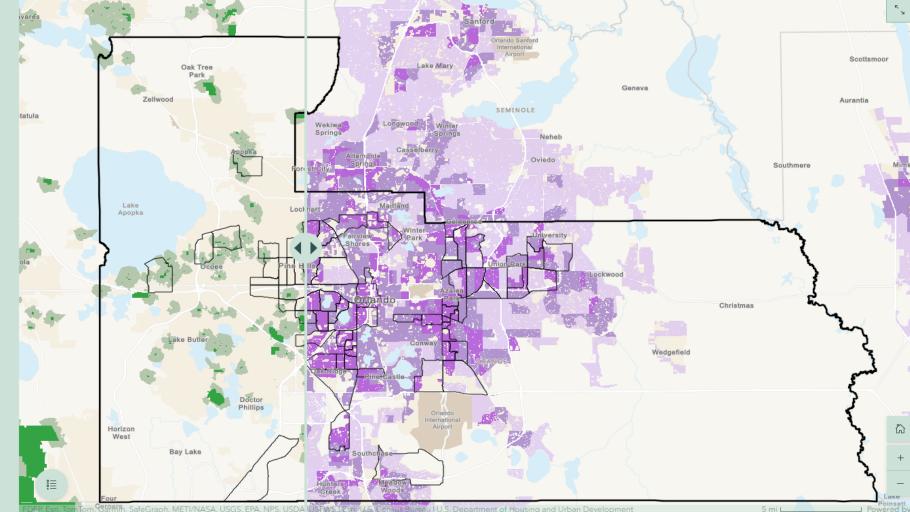
Conservation

Credits

Trust for Public Land™ ParkServe®

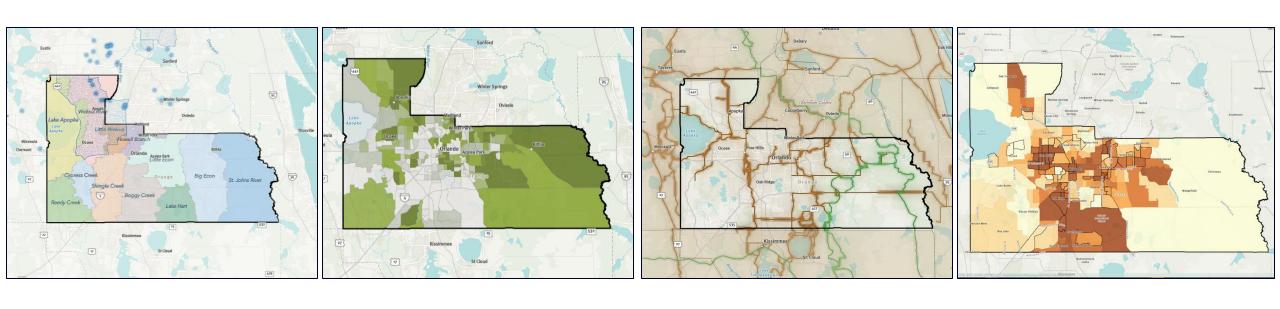
The Trust for Public Land™ (TPL) has compiled and maintains a national database of publicly accessible parks and uses this data to calculate statistics about the population that lives within a 10 minute walk of a park in a city or town. It shares this data through its ParkServe® platform.

Moving the slider to the right reveals a map that shows which areas are within a 10 minute walk to a public park. Dark green indicates public parks. The light green surrounding the parks indicates the area within a 10-minute walking distance. Moving the slider left reveals prioritized urban areas that would benefit from more parks, as determined by the TPL's multi-variable demographic analysis. In both maps, low and moderate income tracts are outlined in black. This map slider was produced using data, in whole or in part, provided by The Trust for Public Land™.





EcoResource of Orange County



Watersheds

Tree Canopy

Recreational Trails

Urban Heat

Engagement

Engaged residents at community and neighborhood events

Surveys offered in 5 languages:

- Brazilian Portuguese
- English
- Haitian Creole
- Spanish
- Vietnamese





Osceola Greenprint

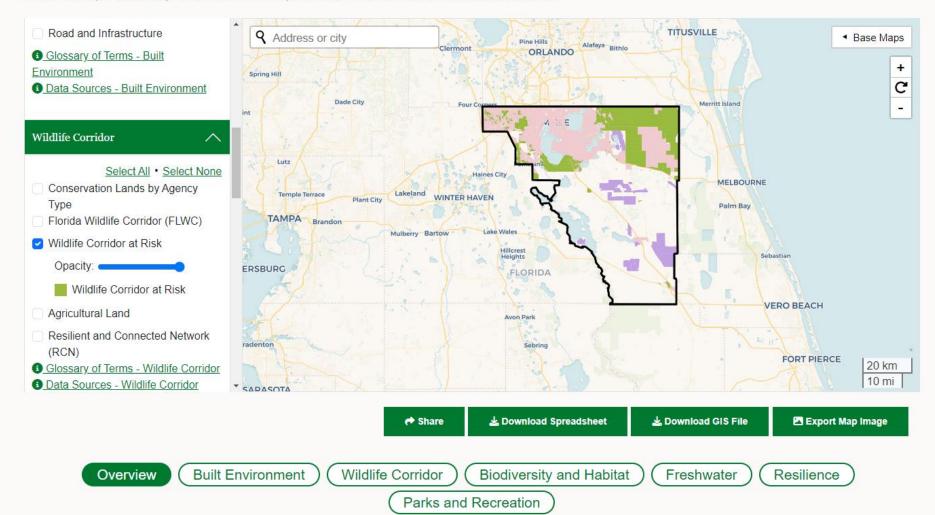


Osceola Greenprint



View Map or Navigate to Report

Review the map or the text report to understand the importance of nature and its benefits under several themes.





Osceola Greenprint



→ ¡Comparta esta información!

🛓 Exportación de datos

Exportar imagen del mapa

Presentación

Paisaje y agricultura

Diversidad biológica y hábitat

Agua dulce)

Resiliencia y equidad

Parques y recreación

Con el impacto que el crecimiento rápido y las presiones del desarrollo imponen sobre los ecosistemas y las áreas silvestres de Florida, es imperativo que la protección y la conservación de nuestros menguantes ursos vayan de la mano con decisiones sobre el uso del suelo para promover el

recursos vayan de la mano con decisiones sobre el uso del suelo para promover el crecimiento inteligente y el desarrollo sostenible. Usa este reporte para contribuir a reforzar la preservación de las tierras que son recursos naturales, agrícolas y de agua para apoyar a las economías rurales, mejorar la conectividad del hábitat y proteger el agua dulce y la vida silvestre en el condado de Osceola.

Hechos clave

14,208 acres

área total

Lagos y cuencas hidrográficas

Cuencas

- · Big Sand Lake
- · East Lake Tohopekaliga
- Lake Tohopekaliga

Lagos

Lake Tohopekaliga

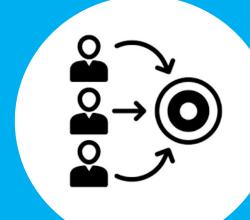
Capa de mapa

- ☐ Límites de la cuenca hidrográfica (HUC10)
- ☐ Lagos y humedales



Engagement





Strategic Outreach



Technical Assessment & Tool Development



Greenprint
Decision-Support
Tool

Protecting Nature and People through Nature Based Solutions

Thank you!

Learn More:

greenprinthub.org nature.org/Florida

