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UF / IFAS Palm Beach County Cooperative Extension

> Florida-Friendly Landscaping[™] prepared for Palm Beach County Master Gardeners



Florida-Friendly[™] Landscaping



Florida-Friendly Landscaping[™] emphasizes nine major principles that can help you create beautiful lawns and gardens and ultimately:

Preserve natural resources, conserve water, reduce water pollution, save money

IFAS Extension

UF FLORIDA

Landscaping PROGRAM

Florida-Friendly

Florida-Friendly™ Principles

- 1. Right Plant, Right Place
- 2. Water Efficiently
- 3. Fertilize Appropriately
- 4. Mulch
- 5. Attract Wildlife
- 6. Manage Yard Pests Responsibly
- 7. Recycle Yard Waste
- 8. Reduce Stormwater Runoff
- 9. Protect the Waterfront



Florida Statutes section 373.185: "quality landscapes that conserve water, protect the environment, are adaptable to local conditions and are drought tolerant."



Lake Worth Lagoon Watershed

Lake Worth Lagoon Watershed Major South Florida Water Management District Structure <u>C-16</u> Hydrography



Watershed

- 550 square miles
- Three major canals
 - Earman River (C-17)
 - West Palm Beach (C-51)
 - Boynton (C-16)



Indian River Lagoon

LOCAL WATERSHEDS

Saint Lucie Estuary

Loxahatchee River

Water Movement in the Landscape



Human Impacts Over 100 Years



BLACK & WHITE

1. Right Plant, Right Place

Choose plants to suit existing site conditions to minimize fertilizer, pesticide, and water use

Use knowledge about the site to make sure that appropriate plants are being planted.



How is the property



Right Plant, Right Place – Plants Serving Function in Urban Landscape



Rain Garden

Littoral Zone





Right Plant, Right Place **Tree Planting:** Plan for MATURE canopy rooting space or.....





Broken and lifted sidewalks

Overhead utility wire conflicts

Right Plant, Right Place



Trees shown at mature height

Note: These setback guidelines may not be suitable around transmission lines and equipment.

Right Plant, Right Place

Plant Adapted, not Non-Adapted Species!!!



Foxtail with early-stage Foxtail with severe stunting Queen palm showing signs of frizzletop

Palm Species Prone to Nutrient Deficiencies on High pH Soils

RIGHT PLANT, RIGHT PLACE-FUNCTION

- Canopy trees
- Small trees
- Shrubs
- Perennials
- Grasses
- Groundcovers
- Pond plants



By using the right plant, right place principle, we:

- Avoid future problems
- Reduce time, energy, money spent
- Preserve and
 protect our ground
 and surface water
 resources



Right Plant, Right Place



Plant, Right Place Right



Right Place Right Plant,

Right Plant, Right Place



Choose native plants to:

- Take advantage of dry spots in your yard
- Enjoy some pest and disease resistance
- Support habitat
- Preserve species



Diverse plantings resist failure, pest, and disease problems!

Invasive / prohibited plants



Air potato Dioscoreo bulbifera

Identifying Characteristics: Vine with stems up to 60 feel or more in length. Heart-shaped leaves. Aerial tubers ("potatoes") are round, brown and range in size from golf ball to tennis ball size. Growth Characteristics: Found in residential areas, growing on fence lines and trees, especially in shady areas. Is dormant in winter, dropping the tubers which sprout in the spring. Did You Know? Introduced in 1905 from tropical Asia for commercial use to provide food for livestock.



Carrolwood Cupaniopsis anacardioides

Identifying Characteristics: Tree to 35 teet tall. Leaves are evergreen, shiny and leathery. Fruits are formed in 1 inch capsules and are yellow to orange when ripe - split to reveal 3 seeds. Growth Characteristics: Grows in wet and dry areas, in any soil type, in full sun or full shade. invades coastal sites including mangroves, cypress swamps, and marshes. Seeds dispersed by birds. Did You Know? introduced as a landscape plant in the 1960s. Dropped fruits can stain sidewalks and cars





Will grow in shady or sunny areas. Form mats up to 4 feet thick on trees and shrubs, smothering native vegetation. Reproduce by millions of spores spread by wind. Did You Know? Facilitates the spread of fire into the Iree canopy which can fuel destructive wildfires.

Melaleuca guinguenervia

Tree to 100 feet tall. White, many-

lavered peeling bark. Leaves smell

like camphor when crushed. Fruits

that can hold up to 300 seeds.

from stumps and roots. Spreads

May cause headaches, rashes,

asthma attacks and respiratory

Growth Characteristics:

seeds when stressed.

Did You Know?

are small, brown, cone-like clusters

Prefers wet sites such as lake shores.

swamps and wetlands. Sprouts easily

rapidly, creating thickets. Releases

Identifying Characteristics:

Melaleuca

Australian pine Casuarina spp.

Identifying Characteristics: Evergreen free to 150 feel tall. Although the tree resembles a pine, It does not have needles. Seeds form in woody, cone-like clusters about % inch long. Growth Characteristics: Found on sandy shores, pinelands and road shoulders. Grows very fast 5 to 10 feet per year. Trees blow over easily in storms due to shallow root systems. DId You Know? Introduced in the early 1900s and planted as windbreaks and shade trops



Earleaf acacia Acacia auriculiformis

Identifying Characteristics: Tree to 50 feet Iall. Leaves are blade-like and slightly curved, up to 8 inches long. Fruits produced in flat, brown, oblong pods which are twisted at maturity. Growth Characteristics:

Invodes pinelonds, scrub, and hammocks. A fast-growing, brittle tree that breaks easily in storms. Displaces native vegetation and threatens to shade out rare plants. Did You Know?

Originally from Australia and Indonesia. Introduced during the early 1930s as a landscape plant.



irritation in some people. Queensland umbrella tree Schefflera actinophylla

Identifying Characteristics: Evergreen tree to 40 feet tall. Leaves up to 2 feet long, shiny, paim-like shape. Red flowers appear in dense clusters above foliane.

Growth Characteristics: Found In a variety of habitats, from cypress swamps to sand pine scrub. Can be lound growing as seedlings in the boots of cabboae pairns (similar to strangler tigs).

Did You Know? Infroduced in 1927 for use as an Indoor house plant and outdoor landscaping.

Brazilian pepper Schinus terebinthitolius

Identifying Characteristics: Multi-trunked shrub or tree; can arow to 40 feel tall, forming Ihickets. Crushed leaves smell. peppery or like turpentine. Produces clusters of red berries. Growth Characteristics: Salt-tolerant, able to withstand flooding, fire and drought. Sprouts easily from trunk and roots. Seeds spread by wildlife fbirds and small mammals). Did You Know?

Relative of poison ivy. Sap may inflate skin and pollen may cause respiratory initation.



Kudzu Puerarla montana var. lobata

Identifying Characteristics: Vine with rope-like brown woody stems up to 100 feet long. Lovender flowers bloom June io September, Fruits are clustered. dry, flattened, bean pods. Growth Characteristics: Occurs along streams and roadsides. Forms dense mats over the ground, debris, shrubs and trees. Can kill a free by blocking out all sunlight. Did You Know? Found throughout the southeast. More common in northern Florida than southern Florida.





2. Water Efficiently

Water only when needed. Efficient watering conserves water and reduces runoff.

Decisions can ensure that a minimum amount of water is used and that waste is reduced.



Water Efficiently- Micro irrigation





Standard Spray Heads-Higher Water Usage

Lower Water Usage with Micro irrigation FFL Demo Plot- Manatee County

Planting for different irrigation zones High, medium and low water usage

Water efficientlyfollow water restrictions



WWW.SFWMD.GOV/2DAYS

...sfwmd.gov/.../year round irrigation r...

Water Efficiently-Plant Selection Tool

The Florida-Friendly Landscaping[®] Guide to Plant Selection & Landscape Design

	P. W. A.S.			の語れ			
Scientific Common	Quercus shumardii Shumard Oak			Quercus virginiana Live Oak			Simara Paradi
Reg/Native	N	8-90	a Yes	NC	S 8b-	10b Yes	
G, H, S		55-80 企	40-50⇔		40-80	û 60-120⇔	
Soil pH, Txt	••	• 0	Any		• • •	Any	• •
Soil Mst, Drgt	0	5	High	\bigcirc	٠	High	\Diamond
Light/Best Salt	*	524	м		Ś.	Н	
Wildlife	X		*	X		*	
	provides food for wildlife; tolerates occasionally wet soil; medium to high wind resistance		provides food for wildlife; not for small lots; susceptible to caterpillars, root rot and insect galls; tolerates occasionally wet soil; high wind resistance			yellow, mediun resistan sidewa (surface	

cus virginiana Dak	Simarou Paradise
S 8b-10b Yes 40-80û 60-120⇔	
Any	

36





Yes

Any

High

H



A FLORIDA-FRIENDLY LANDSCAPING" PUBLICATION

Water Efficiently



Residential property showing different irrigation zones based upon plant type and need. *courtesy of St. Johns Water Management District*

Water Efficiently - Tool



Rain shut-off valves



Water plants only – at the right time

•Not:

- Side of the house
- Street
- Driveway
- Sidewalk
- •Not:
 - In the middle of the day
 - In the rain





Good Timing

Poor Timing



Good Coverage

Poor Coverage

Water efficiently-Calibrate irrigation

- Set out flat-bottomed cans (5-10) of equal diameter (3-6")
- In-ground: zone-byzone
- OHOSE: line away from sprinkler
- Drip: Under drip heads
- Run 15 minutes
- Calibrate for ½" ¾" for lawns



CATCH CAN METHOD

Water efficientlyshut-off devices








3. Fertilize Appropriately

Fertilize Appropriately More isn't always better. Fertilizer overuse can be harmful to a property and the environment

Ensure that the right fertilizer products are selected and applied appropriately to reduce their impact on the environment and discourage pests and diseases



Fertilizer - More is better, right?



Fertilize Appropriately

Think before you plant....

- (i.e. planting palms that we cannot properly fertilize and maintain.)
- Why create "temporary" landscapes?
- What would a landscape look like without maintenance and fertilizer?
- Design with minimal maintenance in mind
- Know the 2% phosphorus "rule" don't exceed 2% P!

• Fertilization: Recognizing and treating deficiencies





Queen palms in decline due to nutritional deficiencies resulting in "frizzle top"

Fertilizer Runoff

- Creates algal
 blooms →
 eutrophication
- Depletes the oxygen for fish and other species
- Effectively suffocates them
- Never fertilize within 10' of a water body



Fertilize appropriately

- Are fertilizers needed?
 - Using reclaimed water?
 - Soil tests
 - Visual signs
 - Stage of plant's life
 - Plant's specific nutritional tendencies



Fertilize appropriately

The use of too much or improper fertilizer can:

- Create nutritional deficiencies
- Affect fruiting & flowering
- Stimulate excessive growth
- Encourage development of pest & disease problems
- Increase watering needs
- Increase plant stress
- Runoff properties and pollute waterways
- Waste money



Nitrogen forces root & shoot growth!

Fertilize appropriately:

Keep products on site:

- Clean up spills
- Avoid applying to hard surfaces
- Don't fertilize before a heavy rain
- Apply when lawn is actively growing
- Avoid weed & feed
- Use broadcast spreader with deflector shield
- Use iron to "green-up" lawn in summer



Fertilize Appropriately

Fertilizer Guideline for Established Turfgrass Lawns in Florida

Nitrogen Recommendations (lbs N / 1000 sq. ft. / year)

Species	North	Central	South
Bahia	2-3	2-4	2-4
Bermuda	3-5	4-6	5-7
Centipede	1-2	2-3	2-3
St. Augustine	2-4	2-5	4-6
Zoysia	3-5	3-6	4-6

Adapted from Florida-Friendly™ Best Management Practices for Protection of Water Resources by the Green Industries

Fertilize Appropriately- Reclaimed Water

 $\frac{\text{lb N}}{1000 \text{ ft}^2} = \text{depth of irrigation water (inches)} \times \text{N concentration (mg/L or ppm)} \times 0.0052$

N Conc. in R.W.(mg	<u>Nitrogen Applied (lb N per 1000 square feet)</u>							
/L N or	Inches of Reclaimed Water Applied for Irrigation							
ppm N)	1	5	10	20	30	50	100	150
1.0	<0.1	<0.1	0.1	0.1	0.2	0.3	0.5	0.8
2.0	<0.1	0.1	0.1	0.2	0.3	0.5	1.0	1.6
3.0	<0.1	0.1	0.2	0.3	0.5	0.8	1.6	2.3
5.0	<0.1	0.2	0.3	0.5	0.8	1.3	2.6	3.9
10.0	0.1	0.3	0.5	1.0	1.6	2.6	5.2	7.8
20.0	0.1	0.5	1.0	2.1	3.1	5.2	10.4	15.6
30.0	0.2	0.8	1.6	3.1	4.7	7.8	15.6	23.4

*0.0052 is used to convert from units of inches and mg/L or ppm to units of pounds per 1000 square feet

4. Mulch

Mulching reduces weeds, helps soil retain moisture and builds soil organic matter

Ensure that mulch is used and applied appropriately and that sustainable mulch products like melaleuca mulch are selected



Mulch – Protecting Trees



No Volcanoes!!

Mulch – Self Mulching



Mulch – Protecting Trees

Maintain Tree Circles: Avoid mechanical damage from mowers and weed eaters



Mulch – Protecting Trees



Repeatedly hitting a tree with a lawn mower or weed whacker may cause irreversible damage

Weed whackers and lawnmowers that hit tree trunks week after week cause irreversible damage

Mulch benefits

- Buffers soil temperature
- Prevent water loss from evaporation
- Controls weeds
- Protects plants
- Can improve soil
- May reduce erosion
- Aesthetics





Types of mulch

Recycled **OEucalyptus** OMelalueca Recycled yard waste • Pebbles / stones Ocypress OPine Bark* Pine Straw* •Non-organic



Mulch application



Avoid volcano mulch Use 2-3" & mulch to the dripline or further



5. Attract Wildlife

Plants that provide food, water, and shelter can attract and conserve Florida's diverse wildlife

Encourage the use of vegetation to attract wildlife to enhance the enjoyment of residents and increase the community's connection with nature



Tips for Creating Wildlife Habitat

- Limit the amount of lawn
- Increase vertical layering
- Reduce pesticide use
- Expand the scale of habitat



Tips for Creating Wildlife Habitat

- Provide snags and brush piles
- Provide water
- Plant native vegetation
- Provide bird/bat houses and bird feeders



Bats

Can eat thousands of pest insects in one night-provide well over \$3 billior in value to agriculture in the US annually
 In Palm Beach County: \$29,752,928.00
 Pollinate flowering plants and fruit trees
 In the wild, important agricultural plants such as

agricultural plants such as bananas, mangos, cashews, and dates, rely on bats for pollination and seed dispersal



Bat houses

- 14" wide x 24" tall
- Watertight but not airtight
- Rough landing surface (grooves / mesh)
- Plywood or cedar (no pressure-treated wood)
- Light-colored in full sun
- Mounted 12' above ground



Adapt@Mr@OSteOrveOBail@iseg for Florida [EDIS Publication #WEC246]: http://edis.ifas.ufl.edu/uw290

birds

• Attracted to tree canopy combined with shrubs and understory plantings OUse plants with berries, seeds, and fruits



Beautyberry	Callicarpa americana
Oaks	Quercus spp.
Seagrape	Coccoloba uvifera
Paradise Tree	Simarouba glauca
Necklace Pod	Sophora tomentosa
Cocoplum	Chrysobalanus icaco
Hollys	llex spp.

Butterflieshost plants



	Common Name	Scientific Name	Butterfly
	Sennas	Senna spp.	Sulfers
YAY	Passionflower	Passiflora spp.	Gulf Fritillary, Zebra Heliconian, Variegated Fritillary
	Wild Coffee	Psychotria nervosa	
S IN	Parley, Dill, and Fennel		Black Swallowtail
	Coontie	Zamia floridana	Atala Hairstreak
	Jamaica Dogwood	Piscidia erythrina	Fulvous hairstreak, Hammock skipper

Butterfliesnectar plants



Common name	Scientific name	Flower time
Geiger Tree	Cordia sebestena	Summer-winter
Firebush	Hamelia patens	Year round
Wild Coffee	Psychotria nervosa	Spring
Necklace pod	Sophora tomentosa	Summer-winter
		Year round
Blue porterweed		Spring

6. Manage Yard Pests Responsibly

Implement an Integrated Pest Management (IPM) Program to safely manage pests in the landscape

Effective IPM will allow property owners and managers to reduce pest control costs and maintain healthier landscapes



How many of the United State's insects are considered pests?

0.6 %

Manage yard pests responsibly

• Right Plant, Right Place- think about it first! • Avoid fertilizing and watering in excess • Start early Onduct regular scouting • Keep plants healthy • Use the least toxic method that will do the job – cultural, biological, physical, chemical • Encourage beneficial insects



MANAGE YARD PESTS RESPONSIBLY

1. Observe the landscape Identify insects correctly 2. 3. Select the most sustainable control method 4. Prevent future problems Use integrated methods 5. and monitor

Manage yard pests responsiblyidentify insects correctly

Proper identification of the problem is critical to successfully managing it!





7. Reduce Yard Waste

Leaving grass clippings, leaves, and compost onsite returns nutrients to plants and reduces waste "Leaf litter is free fertilizer"

Encourage the use of landscape waste to save money and increase the health of plants



Reduce Yard Waste

- Planting plants that are slow growing and can reach their right size when planted in right place
 - Less pruning means less yard waste
 - Chose species that do not have heavy leaf litter
 - Wild Tamarind, Stoppers, Bridalveil vs. Calophyllum, Seagrape, Magnolia, Black Olive
- Placement site to hold or store landscape waste to be converted to composting

Reduce Yard Waste



Recycle yard waste: reduce pruning needs

- Slow-growing plants
- Natural look
- Right plant, right placeplants reach full size



Recycle yard waste: pruning

• Keep plants healthy

- Keep tools clean: alcohol or bleach solution
- Prune properly to keep pruning minimal

•Remove:

- Dead, diseased & injured branches
- Crossing/rubbing branches
- Hire arborist if necessary




Recycle yard waste: mowing

- Grass clippings are made of nutrients and water
- Free fertilizer!



Recycle yard waste: Composting

- Provides nutrients and organic matter to plants
- Improves your soil
- Recycles yard and food wastes naturally
- Reduces what goes into your garbage (20%)



Recycle yard waste: Composting

Food + Oxygen + Moisture + Temperature



122-131° F IDEAL 131-140 ° F KILLS WEEDS & PATHOGENS ABOVE 140 ° F DETRIMENTAL TO COMPOSTING ORGANISMS

Recycle yard waste: Composting

- Leaves
- Twigs and branches
- Shredded newspaper and cardboard
- Shredded junk mail (!)
- Coffee grounds and filters
- Wood chips
- Pine needles
- Dryer lint
- Paper towels



• Grass clippings • Plant trimmings Eggshells • Weeds (!) • Fruit and vegetable scraps OPlant trimmings

No animal products or toxic chemicals!

Brown material (Carbon)

Green material (Nitrogen)

8. Reduce Stormwater Runoff

Water that runs off lawn and pavement carries pesticides, fertilizers, and harmful substances that contribute to nonpoint source pollution

Use pervious surfaces, rain barrels, swales, and berms to reduce erosion, reduce pollution and keep water onsite



Reduce stormwater runoff

- Pervious surfaces
 - Filter pollutants, slows runoff
- Swales & Berms
 - Divert water & slow runoff
- Raingardens
 - Plants filter water and slow entrance into ground
 - Locate near paved surfaces or below drain spouts
- Stormwater Harvesting Rair Barrels



Reduce Stormwater RunoffStormwater Harvesting



Reduce stormwater runoff

- Pervious surfaces
- Swales & Berms
 - Divert water & slow runoff



keep the water!- raingardens

• "An occasional pond" OPlants filter water and slow entrance into ground • Can be placed near paved surfaces or below drainspouts Ochoose plants that can adapt to changing moisture levels



Reduce Stormwater Runoff



keep the water!- swales & berms

- Divert water & slow runoff
- Buy time before water soaks into ground



keep the water!- rain barrels & downspouts

- Use downspouts to divert water to porous surfaces or rain barrels
- Use rainbarrels to store water for drier times



keep the water!- porous surfaces

- Mulch
- Bricks
- Gravel
- Porous concrete
- Filter pollutants from water before it enters ground
 Slows runoff



9. Protect the Waterfront

Waterfront property is fragile and should be protected from pollution

Ensure that waterfronts are protected for the enjoyment of all



Protect the waterfront

●10-foot wide maintenancefree zone

Don't mow or apply fertilizer or pesticides

Shoreline vegetation / buffer zone

Sea walls, large stones

Contain grass clippings and pet waste



Protect the waterfront

The land we live on is directly connected to water Surface water eventually ends up here



Protect the Waterfront



Protect the Waterfront–Littoral





Protect the waterfront

- Stormwater ponds and canals
 - Improve water quality
 - Manage stormwater
 - Prevent flooding
 - Serve as habitat for wildlife



Florida Statutes section 373.185: "quality landscapes that conserve water, protect the environment, are adaptable to local conditions and are drought tolerant."

Scenario #1

A concern somewhere in Palm Beach County

A Home in Shady Swamp HOA

It's April in unincorporated Palm Beach County. Spring is definitely in the air. The birds are singing and residents have been working hard to beautify their landscapes.

Two calls come in: there is a dispute about a landscape. A resident and an HOA Board are extremely upset. You go out to see if you can help.

Resident #1

I received a citation from these idiots after I ripped out my lawn and installed natives. Natives are so much better for the environment than sod is. I'm just trying to do the right thing to be "green". My natives attract butterflies and don't require any irrigation. Since I've installed my Florida-Friendly landscape, I've saved hundreds of gallons of water and lots of money on my water bill.



The additional shade the house receives has even decreased my utility bill. This is really important to me as summer gets closer. The Florida Friendly Statutes allow me as a homeowner to remove sod and install Florida-Friendly plants regardless of HOA approval, right? Can you help me to get them off my back?

Volunteer HOA board for Shady Swamp HOA



We're the volunteer HOA board for Shady Swamp HOA. We'd like to think we have a certain look that makes our community special. That lady is always causing trouble. She's using the Florida-Friendly legislation to justify a landscape that is inconsistent with the neighborhood norm. Is she right? Is there anything we can do to prevent this in the future?

What would you do? Is there any more information that you need? What do you tell the resident? Who is right? Is there anything the HOA can do to prevent this in the future?

Under Florida-Friendly Statutes:

- HOA documents are really important in making the call!
- Communities can still require compliance with community aesthetics
- HOA approval may still be required for homeowners to remove sod and install Florida-Friendly plants if HOA documents state an approval process
- No minimum landscape plant vs. turf amounts



A concern somewhere in Palm Beach County

A Property in St. Augustine Hills HOA



It's early December, 2015 in Palm Beach County, FL. The weather has been cold and dry and water restrictions are in effect. The day is cloudy and gloomy, and a call comes in to the Master Gardener help desk.

St. Augustine Hills Resident

I'm sorry to bother you, but I really need some help. My HOA president has sent me a warning that if I don't green up my grass within 10 days, he is going to increase my irrigation frequency to daily watering and send the community's landscape company out to fertilize at my expense. I water my lawn two days per week, as specified by our water restrictions. My husband &I fertilize our lawn according to the University of Florida recommendations, and we apply six pounds of nitrogen per every 1000 square feet, which is the maximum amount recommended. I'm concerned about the HOA applying even more than that and I'm not sure that their landscape company is even properly certified to do the job.



Small business landscaper in Palm Beach County



I'm the manager of a small landscape company, and St. Augustine Hills is my biggest account. In my business, the customer is always right. Our industry isn't really regulated, so we just do what we should and stay out of the way. I understand that I may need to go adjust the irrigation and fertilize that property over there if they don't do anything about it.

HOA president

I'm the Homeowners' Association President for St. Augustine Hills HOA. We want to be the greenest community around. If we let residents like this get away with letting their yards go in the winter, our property values drop, and I have to answer to that. We inspect our residents' landscapes on the first day of every month. Anyone who fails to have a green manicured lawn gets a 10-day warning. If they don't correct it, our landscape guy gets sent in at the expense of the homeowner. That's our policy.

What would you do? Is there any more information that you need? What does the landscaper need to have to be qualified to apply fertilizer? Who is in the right here? The resident or the HOA president?

Under Florida-Friendly Statutes:

- HOAs cannot require residents to keep turf green year-round.
- Dormant turfgrass slows or stops growing & will turn a lighter shade of green to brown. Dormant turfgrass cannot utilize fertilizer, meaning that any applied product will likely end up in water bodies

Under Florida-Friendly Statutes:

- By 2014: Limited Certification for Urban Landscape Commercial Fertilizer Application from the Florida Department of Agriculture and Consumer Services (FDACS)
- To address residents who use legislation to justify landscapes that don't fit the norm, HOAs can adopt guideline to address these issues & define aesthetics
| Florida-Frie
Landscaping | endly
g™ | | | | | |
|-------------------------------------------------------------|------------------|----------------------|---------------------------|------------------------|------------------------|--------------------|
| Home About FFL Contac | tUs Local(| Offices Par | tners Florida | aYards.org | Search | GO |
| FYN Homeowner
Program
9 FFL Principles
Your County | GI-BMP | Certificat
GI-BMI | ION LIST
P Training Sn | apshot | | |
| Official Yard Recognitions | Certif | ied Profession | als | Certified Instructo | rs | |
| Florida-Friendly Living | | 13,466 | | 230 | | |
| Publications & Training
Remove Invasives | Alachua
Baker | Desoto
Dixie | Hendry
Hernando | Levy
Liberty | Osceola
Palm Beach | Suwannee
Taylor |
| FYN Builder & | Bay | Duval | Highlands | Madison | Pasco | Union |
| Developer Program | Bradford | Escambia | Hillsborough | Manatee | Pinellas | Volusia |
| Landscape Architect CEU
Classes | Brevard | Flagler | Holmes | Marion | Polk | Wakulla |
| Educational Services | Broward | Franklin | Indian River | Martin | Putnam | Walton |
| Designations & Awards | Calhoun | Gadsden | Jackson | Miami-Dade | Santa Rosa | Washington |
| Success Stories | Charlotte | Gilchrist | Jefferson | Monroe | Sarasota | Outside FL |
| Low-Impact Development | Citrus | Glades | Lafayette | Nassau | Seminole | |
| UF/IFAS Partnership at
Hastings | Clay
Collier | Gulf
Hamilton | Lake
Lee | Okaloosa
Okeechobee | St. Johns
St. Lucie | |
| Community Association
Kit | Columbia | Hardee | Leon | Orange | Sumter | |

Resources

Individuals who have successfully completed the GI-BMP training class are listed below by county, based on the work address provided, or other mailing address if work address was

Additional Florida-Friendly Recommendations

- The GI-BMP program and mandatory certification of every employee by 2014 is enforced by FDACS
- 10' waterfront maintenance-free zone
- Irrigate with ½" ¾" of water
- Communities cannot require:
 - Excessive use of fertilizers and pesticides, wrong plant or wrong place, violation of water restrictions,





250 N. Orange Avenue, Ste. 1220 Orlando, FL 32801



Home

MOREY LAW FIRM

PRACTICE AREAS

A Professional Association

- Contract Law
- Corporate Law
- Estate Planning
- Family Law
- Landlord / Tenant Law
- Personal Injury
- Real Estate Law

FREE CASE REVIEW

First Name *

Last Name *

Phone *

Email *

How can we help? *

FLORIDA-FRIENDLY LANDSCAPING & THE NOT SO FRIENDLY HOMEOWNERS' ASSOCIATION

Published on Fri, 10/12/2012 - 09:23

Florida-friendly landscaping and the not so Friendly Homeowner's <u>Association</u>

The Florida legislature passed a law in the early 2000s and in 2009 with the goal of encouraging homeowners and community associations to cultivate landscapes that don't require pampering with sprinklers and chemicals. These lawns are referred to as "Florida-friendly" lawns or landscaping.

Florida-friendly landscaping is defined by Florida law as: quality landscapes that conserve water, protect the environment, are adaptable to local conditions, and are drought tolerant. The principles of such landscaping include planting the right plants in the right place, efficient watering, appropriate fertilization, mulching, attraction of wildlife, responsible management of yard pests, recycling yard waste, reduction of storm-water runoff, and waterfront protection. Additional components include practices such as landscape planning and design, soil analysis, the appropriate use of solid waste compost, minimizing the use of irrigation, and proper maintenance.

St. Augustine grass is usually the grass of choice for most homeowners



Living with Rules

Homeowner sued by HOA for using artificial turf

What to do when your board accuses you of violating a rule?

Dest July 27, 2010 | Daniel Vasquez on condos, Sun Sentinel Columnist

Lesia DeFelice spent seven years landscaping her Deerfield Beach <u>home</u> I with lush trees, plants and small patches of fake grass to make it environmentally-friendly and allergy-free - a popular waterconserving process called "xeriscaping" that is encouraged by the state of Florida.

The effort, however, has landed her in court facing a lawsuit from her <u>homeowners association</u> \mathbb{Z} , which is demanding the artificial grass be removed.



HOA Files Lawsuit For Florida Friendly Landscaping!

Posted on August 5, 2012 | 8 Comments



This picture is app. 4 months old. The landscaping looks even better now!

I have written several <u>articles</u> over the past year about this beautifully landscaped home in Duval County, but had my "fingers tied" for several months while negotiations and mediation was going on. I'm sorry to have to report that after months of quiet the couple in Jacksonville, FL has been served a lawsuit for their <u>Florida Friendly Landscaping (FFL</u>). Residing in the <u>Marsh Sound</u> community, this couple submitted their intentions to convert their yard to FFL landscaping in January, 2011, and, after not receiving a response within 30 days, as stated in the covenants and restrictions, they began installing new droughttolerant plants after removing the dead St. Augustine grass.

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REAL ESTATE NEWS VIA GREEN FLORIDA PROPERTIES

- Are Short Sales Coming To An End?
- 2012 Housing Market Saw Biggest Ga in 7 Years!
- CNN Money Votes St. Augustine, FL
 Out Of Top 25 Places to Retire
- Study Shows Green Homes Sell For 9 More!
- Mortgage Rates Hit A New Record Lo - 3.53%!
- Zillow: Home Values See Highest Monthly Increase Since 2006
- HERS Ratings Are Gaining Ground A New Building Standard
- Fed Renews Vow to Keep Interest Rat Low

JUST LABEL IT

Home → Collections → Bahia Grass

Neighborhood association sues homeowner who has water-conserving yard

8:19 p.m. EST, October 5, 2012 | By Kevin Spear, Orlando Sentinel

A homeowner near Windermere who happens to work for Orange County's environmental department has been sued by her neighborhood association for replacing her thirsty grass with a water-conserving landscape.

Renee Parker's plants attract butterflies, blossom regularly in multiple colors and have an assortment of shapes and heights. For a meandering border, she planted Argentine bahia, a grass that's hardier than the water-craving, fertilizer -loving St. Augustine variety commonly growing in Florida yards.

Recommend

19

Tweet

141

Submit

a 🗇 🛨

+1

"We are putting the right plants in the right place,"... (Stephen M. Dowell, Orlando...)

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creating a safer environment for everyone.

To: Marsh Sound HOA, Marsh Sound Board of Directors

I just signed the following petition addressed to: Marsh Sound HOA.

Dismiss the lawsuit against the homeowners with a Gold certified FFL yard.

Florida Statutes #373.185 gives homeowners the right to install drought tolerant landscaping using the 9 principles of Florida Friendly Landscaping. When the Board of Directors of a Homeowners' Association ignores or thinks they can pick and choose parts of the Statute they are not only doing a disservice to the community residents by wasting money on a lawsuit, they are ignoring the need to conserve water and reduce the amount of toxic chemicals from fertilizers and pesticides from entering into waterways that affect everyone. This is not just about homeowners' rights, it's about creating a safer environment for everyone.

Sincerely,

Sincerely, [Your name]

Less 🔺

Sign this petition with 113 supporters **87 NEEDED** First Name Last Name Email Street Address Citv Outside U.S.? ▼ State Zip Code Why is this important to you? (Optional) Sign 🔸 Display my signature on Change.org By signing, you accept Change.org's terms of service and privacy policy.

Recent signatures

barbara witzel	JACKSONVILLE, FL	23h
Laura Saxon	MORRISTON, FL	9d

Supporters

How can someone get their landscape certified... whether it be a single family residence, commercial property, or multifamily community ?



Volunteer yard advisors conduct evaluations for UF/IFAS Palm Beach County and determine if a landscape meets the criteria. This is a great learning opportunity and source of pride for your customer!



Required Practices for Standard Level

- No code violations
- No prohibited plants
- At least 5 species of plants
- Grass clippings left on lawn



Required Practices for Standard Level

- Automatic rainfall shutoff device installed
- Weed and feed is no used
- No fertilization 24 hours before rain
- Fertilization at or below UF / IFAS rate:
- Volcano mulching is avoided



Required Practices for Standard Level

- Irrigation calibrated to ½" – ¾"
- Spray and rotor head on separate zones
- 10-foot maintenance free zone around water body



Required Practices for Standard Level – Aesthetics (4 out of 5)

- Landscape appears to be actively managed
- Appropriate pruning practices
- Defined landscape beds
- Matches aesthetics of community
- Landscape and household debris properly disposed of



How do I get started on converting to Florida-Friendly™?

- A little bit at a time
 - Track rainwater
 - Add layers
 - Reduce turf areas
 - Install compost bin, rain sensor, microirrigation
 - Find places you can reduce zones or cap irrigation
 - Create habitat areas



Phase 1: Master Plan

- Step 1 Conduct a site inventory and analysis
 - Select plants
 - Draw plant beds and plants

Phase 2: Hardscape and Trees

- Step 2 Remove sod for new hardscape and new plant beds for trees
 - Correct any drainage problems
 - Install new irrigation or re-fit existing system
- Step 3 Install new hardscape (patios, decks, walkways, etc.)
- Step 4 Install trees and mulch
- Phase 3: Plant Beds
 - Step 5 Install Bed #1
 - Step 6 Install Bed #2
 - Step 7 Install Bed #3

Florida-Friendly[™] Landscaping

resources

- Palm Beach County Cooperative Extension: http://www.pbcgov.com/coextension/
- FYN Website: FYN.IFAS.UFL.EDU
- Florida-Friendly Landscaping™ Guide to Plant Selection & Landscape Design: fyn.ifas.ufl.edu/pdf/FYN_Plant_Selection_Guide_v090110.pdf
- Florida Yards & Neighborhoods Handbook: fyn.ifas.ufl.edu/materials/FYN_Handbook_vSept09.pdf
- Professionals certified in Best Management Practices of the Green Industries: http://fyn.ifas.ufl.edu/professionals/certification_lists/cert_cou nty_name.shtml
- South Florida Water Management District: www.sfwmd.gov/waterwatch

Florida-Friendly[™] landscaping

resources

- Adopting a Florida-Friendly Landscape: Steps for Converting a Traditional Development Landscape to a Florida-Friendly Landscape (EDIS Publication #ENH1135) : http://edis.ifas.ufl.edu/pdffiles/EP/EP39600.pdf
- The Community Landscape: An environmental Approach: http://sarasota.ifas.ufl.edu/fyn/Pubs/FYNCommunityGuidelines-Broc.pdf
- Florida-Friendly Landscaping[™] Pattern Book: Sample plant lists and designs for four Florida regions: USDA Hardiness Zones 10A, 10B, And 11, South Florida (EDIS Publication#ENH1178): http://edis.ifas.ufl.edu/pdffiles/EP/EP43900.pdf

Florida-Friendly[™] landscaping resources





Home • Center for Aquatic & Invasive Plants • IFAS Extension

Status Assessment - PDF (277 KB)

Detailed Data

Infraspecific Taxon Protocol

The Predictive Tool - PDF (194 KB)

Conclusions Page

Results Table - PDF (562 kb)

Approved Specified and Limited Uses - XLS (33 KB)

Assessment Zones - PDF (10 kb)

Instructions for Use - DOC (75 KB)

Citation Examples - DOC (117 KB)

Invasive Plants Working

Conclusions are updated several times a year and should be referenced. Please che Conclusions Tables each time you cite the IF seessment to be sure that you are the most up-to-date information.

All Species & Zones	North Zone	Central	South Zone
Conclusions by Genus Updated Oct 2011 - PDF (294 KB)	Prohibited Updated Feb 2011 - XLS (30 KB)	Prohibited Updated Feb 2011 - XL KB)	Prohibited ed Feb 2011 - XLS (30 KB)
Conclusions by Common Name Updated Oct 2011 - PDF (437 KB)	Invasive - Not Recommended Updated Oct 2011 - XLS (45 KB)	Invasive - Not Recommended Updated Oct 2011 - XLS (46 KB)	Invasive - Not Recommended Updated Oct 2011 - XLS (47 KB)
	Caution Updated Oct 2011 - XLS (37 KB)	Caution Updated Oct 2011 - XLS (42 KB)	Caution Updated Oct 2011 - XLS (43 KB)
	Can Be Recommended Updated Oct 2011 - XLS	Can Be Recommended Updated Oct 2011 - XLS	Can Be Recommended



REAL Florida Professionals

- 💐 Wholesale Growers/Nurseries
- 💐 Landscape Associates
- Environmental Consulting Associates
- Allied Nursery / Landscape
 Products
- 🖣 Allied Trade Services

REAL Florida Landscapes

Starting a design? Consider what grows naturally, then find the plants.

Select Your County



					E @FANN	online on Twitte	er
	planting and promotin ative plants for sustain		s.			Homeowners alFlorida.org	
Plants	Plant Communities	Professionals	About Us	News	Learn More	Membership	
					CAR!	A State Re	
and the second			A CONTRACTOR				
	ANA	Mar N			California California		
E.		The All				N. A.	A CAL

Enjoy Florida Wildflowers. Get the wildflower tag.

Learn More



FEATURED NATIVE PLANT <u>Two-winged</u> <u>Silverbell</u> Halesia diptera

Small, pretty deciduous tree for Zone 9A and northward. Reaches 30 feet in height and perhaps 20 feet in width. Flowers profusely in

Q Find a specific plant

Enter the first few letters of the common or botanical name, then select a plant from the list.

beach sunflower

Beach sunflower (Helianthus debilis spp.) Or, choose a planc type below.





Туре:	Groundcover, Wildflower	Bloom Color:	yellow
Light:	Full sun	Salt:	No
Soil Moisture:	Dry	Wildlife Support:	æ

Find this plant for your yard!

Show results for Zip Cod	e Enter Zip Coo	Go		
Show 10 💟 entries		Sea	irch:	
Name	Phone \$	City \$	Size ≎	Other inf
Alexander Landscaping	(954) 472-5039	Davie	g	
Bayside Tree Farms, Inc.	(305) 245-9544	Homestead	g	
Brantley Nurseries	(407) 869-6545	Longwood	6"	
Deluxe Trees & Shrubs	(863) 494-1488	Arcadia	g	
<u>Doug Ingram & Sons</u> <u>Nursery</u>	(305) 247-3680	Homestead	g	
EarthBalance	(888) 536-2855	North Port	g	
Erhardt Nursery	(561) 967-7181	Lake Worth	LN	
Erhardt Nursery	(561) 967-7181	Lake Worth	g	
Sandy Lane Nursery	(239) 285-0561	Naples	g	



Hardiness Zones:

9b, 10a, 10b

Plant Communities:

🖹 Beach Dunes Zone 9



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FYN Builder & Developer Program

Landscape Architect CEU Classes Educational Services **Designations & Awards** Success Stories Low-Impact Development UF/IFAS Partnership at Hastings Community Association Kit

Resources

FYN Educators: Log In

Florida-Friendly Landscaping"PROGRAM

Florida-Friendly Landscaping™ (FFL) means using low-maintenance plants and environmentally sustainable practices. Learn how you can have a beautiful landscape that could save you time, energy and money while protecting our future. Find out more from your county's FYN program or from this web site and the FloridaYards.org companion web site of the FDEP Springs Initiative, Read more about the program...

For Homeowners



Community Associations and Property Managers



The Nine FFL Principles See the new E-learning Articulate presentation.

- 1. Right Plant, Right Place (933KB pdf)
- 2. Water Efficiently
 - (688KB pdf)
- 3. Fertilize Appropriately (965KB pdf)
- Mulch
 - (515KB pdf)
- 5. Attract Wildlife
 - (401KB pdf)
- 6. Manage Yard Pests Responsibly



Extension Publications

Contacts

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🗲 🔶 C 🕓 fyn.ifas.ufl.edu



- FYN Homeowner Program
 9 FFL Principles
 Your County
 Official Yard Recognitions
 Florida-Friendly Living
 - Publications & Training Remove Invasives

Remove invasives

FYN Builder & Developer Program

Landscape Architect CEU Classes Educational Services Designations & Awards Success Stories Low-Impact Development UF/IFAS Partnership at Hastings Community Association Kit

esources I Educators: Log In

GI-BMP Program Program Overview Training Schedule Instructor Program GI-BMP Manual

Florida-Friendly Landscaping" PROGRAM

Florida-Friendly Landscaping[™] (FFL) means using low-maintenance plants and environmentally sustainable practices. Learn how you can have a beautiful landscape that could save you time, energy and money while protecting our future. Find out more from your county's FYN program or from this web site and the FloridaYards.org companion web site of the FDEP Springs Initiative. Read more about the program...



For Homeowners

Solutions for your yard: all you need to know about tending a Florida landscape.

Community Associations and Property Managers

A one-stop information kit on Florida-Friendly Landscaping[™] communities, maintenance, principles and legislation. More...

For Professionals



The Nine FFL Principles See the new E-learning Articulate presentation.

- 1. Right Plant, Right Place (933KB pdf)
- 2. Water Efficiently
 - (688KB pdf)
- Fertilize Appropriately (965KB pdf)
- Mulch (515KB pdf)
- 5. Attract Wildlife
 - (401KB pdf)
- 6. Manage Yard Pests Responsibly
 - (1.04MB pdf)
- 7. Recycle
 - (1.12MB pdf)
- 8. Reduce Storm



☆



urban and suburban sites

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Related Sites

Urban Design Nursery Growing Selection Planting Pruning Maintenance Palms Uncommon Trees zones 7-9 zones 9-11 Invasive Plants

FLORIDA IFAS



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ortant! This site requires Flash Player. Get the necessary <u>flash pluq-in here</u>. ow instructions on screen. It may take a few minutes to do this.

This web site is designed to help guide you through the process of tree selection, and provide a list of possible trees for your project in Florida and southeast US hardiness zones 8-11 (<u>Click here if you live in zones 2-7</u>). It is also designed to provide extensive cultural and maintenance information, and many photographs. This information was assembled through a grant from the USDA Forest Service Southern Region through the Florida Division of Forestry in cooperation with University of Florida and the Florida Yards and Neighborhood project. The principle authors of this system are Drs. Ed Gilman and Howard Beck, professors at University of Florida, and Alison Boydstun, assistant in horticulture.

Using the Tree Selector

The Tree Selector allows you to develop a list of trees. You develop the list by choosing soil, site, and plant attributes. You can mark more than one value of an attribute such as soil pH. This chooses trees that can grow in soils with either one of the values of soil pH. On the other hand, when you choose values for more than one attribute, such as acid soil pH and tree height 25-50 feet, only trees with both attributes will be listed. You may choose as many attributes as you like but remember the list of matching trees



diminishes as you pick more attributes. When your plant list becomes very short or has no trees on it at all, start over and choose fewer attributes. <u>Click here for more detail</u>.



🔇 lyra.ifas.ufl.edu/FloridaTrees/FloridaTreeSelector.swf

SEARCH CRITERIA

Recommended for Dry Climate: yes Light Requirements: full sun Soil Texture Tolerance: sand Drought Tolerance: high Satt Spray Tolerance: high USDA Hardiness Zone: 10B

	SEARCH RESULTS : 12 Trees found
	Celtis laevigata 'All Seasons'
	Celtis laevigata
	Chamaerops humilis
	Juniperus chinensis 'Torulosa'
	Parkinsonia aculeata
	Pinus pinea
	Quercus geminata
	Quercus virginiana 'QVTIA'
	Quercus virginiana
	Raphiolepis umbellata
	Sabal palmetto
	Washingtonia robusta
•	
L	Display scientific names
	Display common names
	New search Main
	Refine search

Florida Trees for urban and suburban sites

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> Urban Design Nursery Growing Selection Planting Pruning Maintenance Palms Uncommon Trees zones 7-9 zones 9-11 Invasive Plants

FLORIDA IFAS



Chamaerops humilis kuh-MEE-rops HEW-mih-liss Family Palmae European Fan Palm

USDA Hardiness Zone: 8B-11 Invasive Potential: not assessed or incomple Life Span: 25 to 50 years Soil Drainage Tolerance : well-drained

Images



Click photo to expand

Details	
Select a top	C Chamaerops humilis European Fan Palm, Mediterranean Fan Palm 🔺
Native Origin	
Use	This small, multi-stemmed, hardy palm is the only one native to Europe, and
Size	is hardier than most palms. The curved, clumping, short trunks and gray-
Crown/Canopy	green, fan-shaped leaves, borne thickly in a bushy head, make a stunning
Foliage	sculptural element in a garden or patio containers. The fine-textured fronds make the palm stand out from other plants in the landscape. Leaf color on
Flower	individual plants ranges from light green through silver. Although growth
Fruit	rate is slow, it is well worth the wait since even small paints will stand out
Trunk and Bra	ches nicely in almost any landscape.
Culture/Tolera	ces
Other	By removing suckers from the base of the main trunk, this slightly salt-
Descriptive Te	

Florida-Frie Landscaping	endly g™					
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Official Yard Recognitions	Certif	ied Profession	als	Certified Instructo	rs	
Florida-Friendly Living		13,466		230		
Publications & Training Remove Invasives	Alachua Baker	Desoto Dixie	Hendry Hernando	Levy Liberty	Osceola Palm Beach	Suwannee Taylor
FYN Builder &	Bay	Duval	Highlands	Madison	Pasco	Union
Developer Program	Bradford	Escambia	Hillsborough	Manatee	Pinellas	Volusia
Landscape Architect CEU Classes	Brevard	Flagler	Holmes	Marion	Polk	Wakulla
Educational Services	Broward	Franklin	Indian River	Martin	Putnam	Walton
Designations & Awards	Calhoun	Gadsden	Jackson	Miami-Dade	Santa Rosa	Washington
Success Stories	Charlotte	Gilchrist	Jefferson	Monroe	Sarasota	Outside FL
Low-Impact Development	Citrus	Glades	Lafayette	Nassau	Seminole	
UF/IFAS Partnership at Hastings	Clay Collier	Gulf Hamilton	Lake Lee	Okaloosa Okeechobee	St. Johns St. Lucie	
Community Association Kit	Columbia	Hardee	Leon	Orange	Sumter	

Resources

Individuals who have successfully completed the GI-BMP training class are listed below by county, based on the work address provided, or other mailing address if work address was





Laura A. Sanagorski Environmental Horticulture Extension Agent <u>Isanagorski@pbcgov.org</u> 561.233.1748

UF / IFAS Palm Beach County Cooperative Extension



Florida-Friendly Landscaping[™] prepared for Palm Beach County Master Gardeners