

Lawn & Palm BMPs

Amanda Marek





Common FL Turfgrasses

- St. Augustine #1 most common
- Zoysia
- Bahia



Why We Love St. Augustine Grass

- The #1 most popular lawn grass in FL
- Dense, carpet-like look
- Dark green blades
- Relatively good shade tolerance (dwarf cultivars do best)
- Does well in a wide range of soil types
- Establishes quickly by sod or plugs
- Usually maintains some green color in winter dormancy



Why We Love Zoysia

- Dense, carpet-like look
- Finer blades than St. Augustine
- Few weeds (when healthy)
- Tolerant of multiple herbicides
- Does well in a wide variety of soil types
- Needs less nitrogen fertilizer than St. Augustine



Why We Love Bahia

- The lowest maintenance grass
- Not prone to thatch build up
- Few major pest and disease issues
- Extremely drought tolerant no irrigation
- Requires little fertilization
- Soft leaf blades
- Readily available by seed less expensive, self-seeding



Why We Hate St. Augustine Grass

- Does require irrigation in drought (new cultivars more drought-tolerant Ex. CitraBlue)
- Prone to thatch
- Has aggressive runners and coarse blades
- Herbicides should be used with caution
 *Floratam
- Susceptible to serious pests and fungal diseases
 - Chinch bugs (Captiva is resistant)
 - Large patch (aka Brown Patch)
 - Root rots
 - Dollar Spot
 - Gray Leaf Spot
 - Nematodes



Why We Hate Zoysia

- Needs more mowing to stay short
- Prone to thatch
- Does poorly in shade
- Needs just as much water as St. Augustine to stay green
- Quick to brown in winter and slow to green up in spring
- Slow growth sod or plugs only
- Susceptible to serious pests and fungal diseases
 - Large patch (aka Brown Patch)
 - Root rots
 - Dollar spot
 - Hunting billbug, chinch bugs, nematodes, etc.



Why We Hate Bahia

- The "pasture grass"
- Tall, scratchy seed heads difficult to mow
 - 'Argentine' has fewer, smaller seed heads
- Patchy growth = more weeds
- Turns brown in winter and during drought (greens up quickly after rain)
- Does poorly in shade and alkaline soils



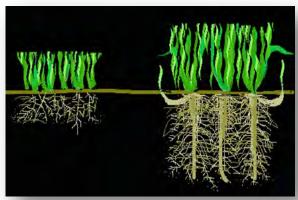
What Your Lawn Wants From You

- Don't overfeed it
- Don't overwater it
- Proper mowing, thatching and soil amendments
- Patience & understanding

Watering Your Lawn

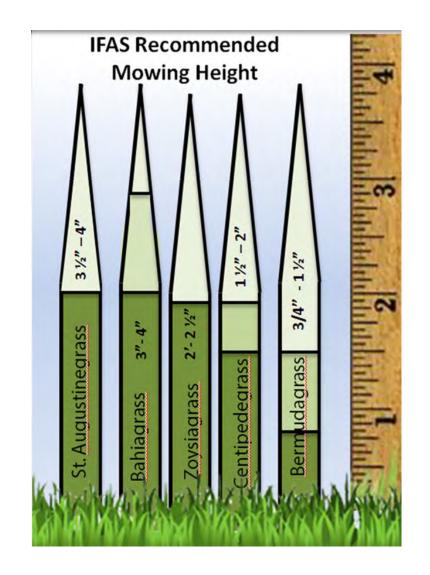
- #1 issue with lawn care is overwatering
- Water ½" − ¾" each time you irrigate
- Irrigate between 4am 8am is best
- Never water more than 2x a week
- Water less in winter once every 10-14 days
- Turn system off during rainy season summer!
- Only water <u>as needed</u>
 - Leaf blades fold in half
 - Grass sounds dry and crunchy
 - Looks off color
 - Footprints remain





Mowing

- St. Augustine and Bahia performs best when mowed high 3.5"-4" (unless dwarf cultivar)
- Zoysia needs it short: 2" –
 2.5"
- Keep grass clippings on lawn
 - Light layers do not contribute to thatch
 - Do not remove more than
 1/3 of the blade at a time



Dethatching St. Augustine & Zoysia

- Dethatch about every 2 years or when thatch is ½"-1" thick
- Avoid overwatering and over fertilizing
- Avoid routine spraying of broadspectrum pesticides that kill beneficial organisms
- Aerate every 1-2 years



Amending the Soil

- Topdress 2x a year with ¼" layer of compost
- During growing season (April September)
- Best results when combined with aeration
- Adds organic matter and breaks up compacted clay soils
- Do not add lime (unless a soil test recommends)! No beer, no baking soda, no laundry detergent, no Epsom salts!



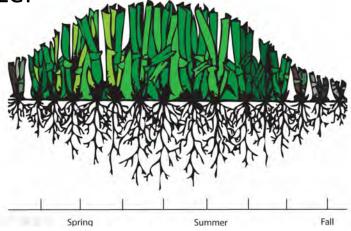


Feeding Your Grass

- Fertilize only when grass is actively growing
 - April 15 October 1
- Extra potassium in the fall feeding
- Do <u>not</u> fertilize with nitrogen (N) or phosphorous (P) past Oct. 1
- Do <u>not</u> use Weed and Feed products (0-0-7 exception)
- Do not guess. Get a soil test!

• <u>Do</u> use slow-release granular fertilizer





Patience & Understanding

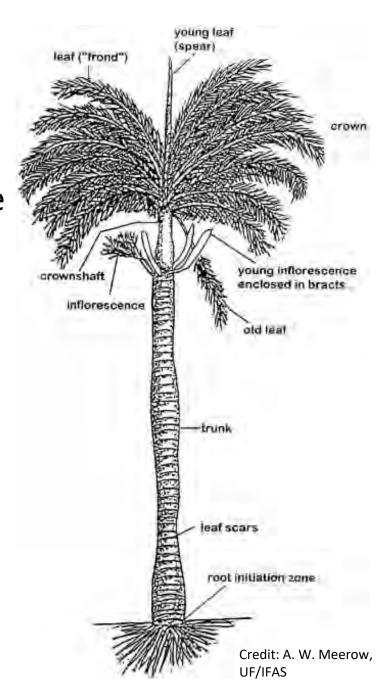
- Fungal diseases take time and repeated treatment <u>always follow</u> the <u>label!</u>
- Apply preventative fungicides the following year if disease occurred
- Insecticides may also require repeated treatment
 - Spray only if a pest problem exists!
 - Scout regularly to catch reoccurrence early
- Allow it time to rest in winter and green up in the spring
 - Have tolerance for brown grass in winter
 - Don't apply fertilizers too early or late.
 - Never overwater
 - Be cautious with chemicals during green-up and high temperatures

(Always read the label!)

Palm Best Management Practices

Palm Tree Basics

- Palms grow from one bud the "heart" of the palm
- Generally grow one frond at a time – the "spear" leaf
- Do not have true bark can't heal wounds
- Produce many roots that do not grow wider with age – good for tight spaces
- Roots may grow 50ft out from trunk and above the surface



Weird But Totally Normal

- Roots sometimes grow above ground – "adventitious roots"
- Old fronds and "boots" can fall off – sometimes a lot at once, sometimes none at all
 - Ex. Mexican fan palms
- Trunks may erode with age
- Fronds may get "scurf"
- Old fronds at bottom turn brown









Weird But <u>NOT</u> Normal



Weird But <u>NOT</u> Normal

- Majority of fronds are brown / dead
- Dead or absent spear leaf
- Soft or collapsed trunk
- Severe yellowing of fronds
 - Nutrient deficiency usually starts in old fronds
- Nutrient deficiencies manifest in different ways



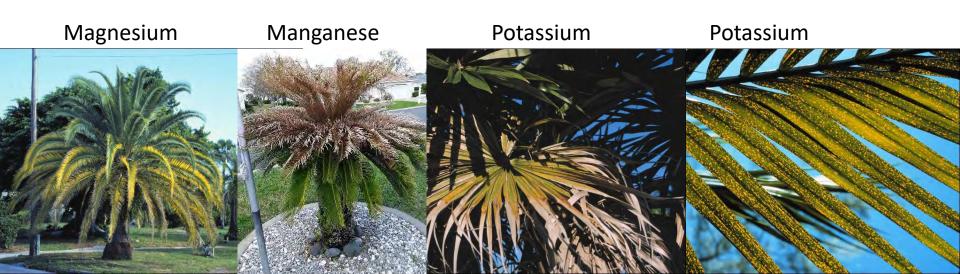
Palm Problems

- Pests
 - Not usually major issue
 - Cycad scale on sago is an exception Dinotefuran
- Diseases the biggest concern
 - Lethal bronzing / Lethal Yellowing (aka Lethal decline)
 - Bud rot
 - Fusarium wilt
 - Ganoderma butt rot
 - Leaf spots and blights
 - Trunk rot



A Fed Palm is a Happy Palm

- Nutrient deficiencies are very common esp. potassium and magnesium
- Show up in different ways depending on the palm and the nutrient
- Not usually fatal unless severe and prolonged
- May take 2-3 years for a palm to fully recover
- Sagos (cycads not palms) are very similar



Palm Care 101

- Avoid over pruning
 - Maintain a 360° full canopy
 - Only remove dead fronds
 - Disinfect pruning tools
 - Do not prune in winter
- Feed Me, Seymore!
 - Use a complete palm fertilizer (8-2-12 + micronutrients, slow-release)
 - Feed every 3 months between March September
- Right Plant, Right Place
 - Select palms hardy in your climate zone

Proper Pruning

- Only prune fronds that are completely brown
 - Reduce nutrient deficiencies
 - Skirts provide habitat for wildlife
- Avoid cutting into trunk or pulling off fronds
 - Wounds can welcome fungal trunk rot
 - Disinfect tools with alcohol or bleach between trees
- Over pruning increases risk of wind or freeze damage to the heart











Feeding Your Palm

- Complete palm fertilizer
 - Micronutrients
 - Slow-release N P K ("polymer coated" or "sulfur coated")
 - Slow-release Mg (Kieserite)
- Avoid "oxides" or "sucrates"
- Fertilize every 3 months during growing season
 - ex. March, June, September
- Spread evenly under canopy, including grass
- Do not use Epsom salts
- Always follow label instructions

8-2-12

GUARANTEED ANALYSIS

	TOTAL NITROGEN (N)*	8.00%
	0.79% Ammoniacal Nitrogen	
	7.21% Urea Nitrogen	
	AVAILABLE PHOSPHATE (P2O5**	2.00%
	SOLUBLE POTASH (K2O)***	12.00%
	MAGNESIUM (Mg) TOTAL	4.00%
	4.00% Water Soluble Magnesium (Mg)	
	SULFUR (S) Total	6.28%
	6.28% Combined Sulfur (S)	
	BORON (B)	0.15%
	0.15% Water Soluble Boron	
	COPPER (Cu) Total	0.05%
5	0.05% Water Soluble Copper (Cu)	
	IRON (Fe)	0.15%
	0.15% Chelated Iron (Fe)	
	MANGANESE (Mn)	2:00%
	2.00% Water Soluble Manganese (Mn)	
	ZINC (Zn) Total	0.15%
	0.15% Water Soluble Zinc (Zn)	
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DERIVED FROM: Polymer Coated Urea, Polymer Coated Solfate of Potash, Magnesium Sulfate (Kieserite), Copper Sulfate, Manganese Sulfate, Zinc Sulfate, Polymer Coated Ammonium Phosphate, Iron EDTA, Sodium Borate.

1 *7.20% Slowly Available Urea Nitrogen from Polymer Coated Urea.
**1.80% Slowly Available Phosphate from Polymer Coated Ammonium Phosphate

10.80% Slowly Available Potassium from Polymer Coated Sulfate of Potas







Dos and Don'ts to Winterize Your Florida Landscape

Amanda Marek, Florida-Friendly Landscaping Agent UF/IFAS Marion County Extension Service

First things first...



Preparing for Winter ... What NOT to do

- Don't prune
 - There are exceptions (ex. Crepe myrtles)
- Don't water as often
 - Water lawn once every 10 14 days
- Do not fertilize
 - After Oct. 1 or before April 15
 - Exception: roses and citrus fertilize in Feb.
- Do not scalp your lawn

Let your Lawn Sleep!



Preparing for Winter ... What to do

- Add or refresh mulch
- Check and repair irrigation
- Know what you can plant
- Know how to protect cold sensitive plants



Mulch

- Organic mulches are preferred
 - Add organic material to soil
 - Refresh annually
- Mulch buffers soil temperature
- Mulch 2-3 inches deep after settling
- Keep mulch away from plant bases
 - Do not "volcano" mulch except during hard freezes



Check Irrigation System

- Run system to check for
 - Leaks
 - Blockages
 - Broken sprinkler heads
- Set system to manual
- Check rain sensor
- Reduce water usage
 - Capping unneeded heads
 - Convert beds to micro irrigation
- During hard freeze, keep facet furthest from well or main trickling



Yes, You Can Still Plant!

- Bulbs
 - Amaryllis
 - Crinum lilies
 - Lily of the Nile (Agapanthus)
- Trees, Shrubs and Perennials
 - Fall is an ideal time for cold-hardy trees, shrubs and perennials
 - Do not plant palms
- Sodding is best left for late March
- Cool-season annuals & vegetables
 - Snapdragons, petunias, pansies, violets
 - Greens collards, kale, turnips, spinach, cabbage



Protection from Freezes

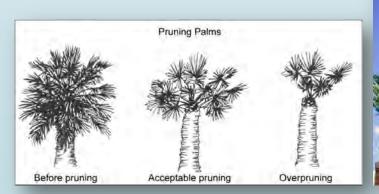
- Use freeze cloth or sheets to the ground
 - Don't use plastic
 - Don't lollipop
 - Don't use gas heaters
 - Wrap trunks with layers of cloth or newspaper





Protection from Freezes

- Do not run water on woody plants for freeze protection
 - May suffer breakage from ice
- Do not prune burned vegetation!
- Bring in sensitive plants if possible
- Fertilize palms routinely throughout the growing season for better freeze tolerance
 - Avoid over pruning!





Recovering from Freeze

- Water the soil after a freeze
- Prune dead branches in spring (mid-end March)
- Fertilize in spring (April 15 is the earliest)

Remove dead plants in spring

Be patient!

Florida-Friendly Landscaping PROGRAM M

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