















To supply nutrients to achieve a defined objective or response such as:

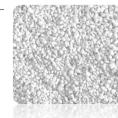
- Increasing growth
 Enhancing appearance
- 3. Correcting or preventing nutrient deficiencies



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FERTILIZER DEFINED

- Any substance that:
- Contains one or more recognized plant nutrients
- Promotes plant growth
- Controls soil acidity or alkalinity
- Provides other soil enrichment
- Provides other corrective measures to the soil

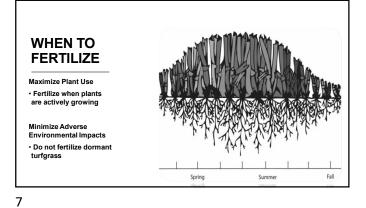




RECOGNIZE NUTRIENT DEFICIENCIES

- Plants that have chronic deficiencies may not be suitable for the site
- Test soil pH
- Select plants better adapted to the site conditions







NEWLY PLANTED SOD AND SPRIGS

WHEN TO FERTILIZE?

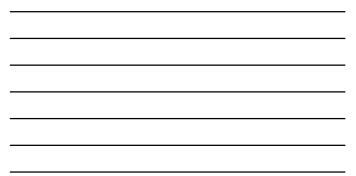
- After the turf has established a root system
 Typically, 30-60 days
- Applying fertilizer too early will result in high leaching potential, meaning the plants do not uptake the nutrients. This wastes money and damages our water.

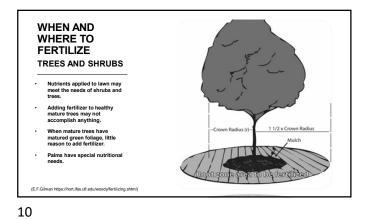


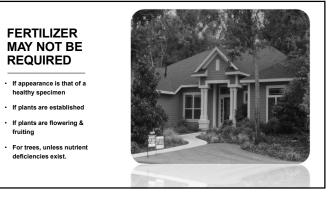
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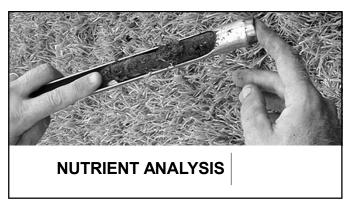
Schedule is different from Time Frequency Duration

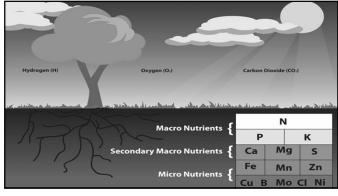
 Schedule is different from 	Time	Frequency	Duration
established grass	First 7-10 days	2-3 times daily	Short (5-10
 Establishment irrigation is typically achieved in 30 days 			mins)-try to keep plant material from drying out
 After 30 days, follow recommendations for established grass 	7-10 days after planting	Once a day	Apply ~¼" water- more will be wasted due to short roots
 Assist your clients with programming irrigation controllers 	Next 7-10 days	Every other day	Apply ~1/4" to 1/2" of water
	3-4 weeks after planting	1-2 times weekly	Apply ~1/2" water





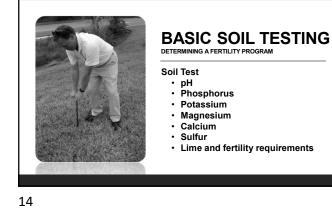






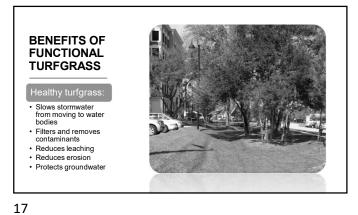
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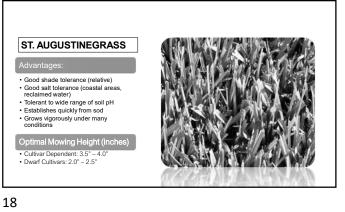
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ST. AUGUSTINEGRASS

Disadvantages:

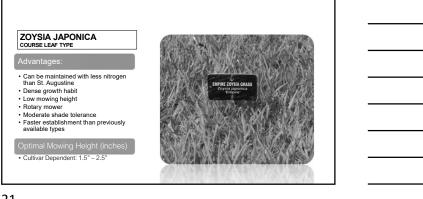
- May require supplemental water
 Poor wear tolerance
- Forms excessive thatch
- Forms excessive thatch
 For most cultivars, chinch bugs are difficult to control
 Lack of herbicides for grassy weed control

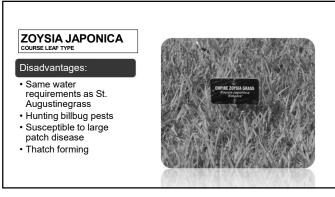


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St. Augustinegrass Varieties

Variety	Year	Attributes
Bitter Blue	1930s	Old cultivar; Good cold and shade tolerance
Floratam	1973	Most widely produced; Poor cold tolerance
Palmetto	1980s	Semi dwarf; Will grow in partial shade
Seville	1990s	Dwarf; Good shade tolerance
ProVista	2010s	Slow growing; Glyphosate tolerance
Citra Blue	2018	Blue-green color; Good shade and disease tolerance
Cobalt	2023	Drought Resistant; Good shade and disease tolerance

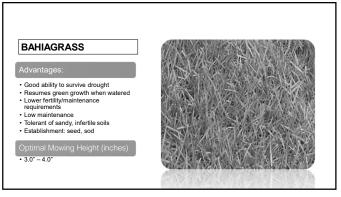


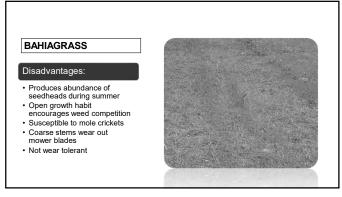




Zoysia Japonica Varieties

Variety	Texture	Attributes
Empire	Coarse	Most widely available; Susceptible to large patch disease
JaMur	Medium- Coarse	Good shade tolerance; Susceptible to large patch disease
Palisades	Coarse	Good shade tolerance
El Toro	Coarse	Good cool season; Color and drought tolerance, Susceptible to large patch disease
CitraZoy (Hybrid)	Medium-fine	Best winter color retention; Good shade tolerance

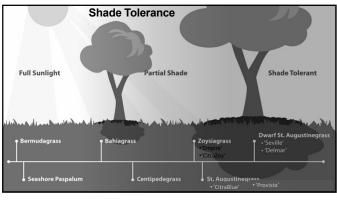


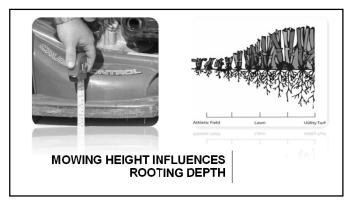




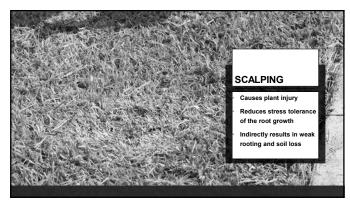














MOWING CULTURAL PRACTICES . Pick up stones, sticks, and othe debris before mowing to avoid damaging the mower or injuries Mow at highest recommended height for species. .

Don't remove more than 1/3 of the leaf blade at any one time. . Leave clippings. .

IFAS	Recommended M	lowing Height
Bermude 🇯	3/4	1 1/2
Centipede	1 1/2	2
od Zoysla	2	21/2
B S S S S S S S S S S S S S S S S S S S	3	4
≓ St. Augustine	31/2	4
Dwarf St. Augustine 🇯	2	21/2
	Helg	ht (inches)

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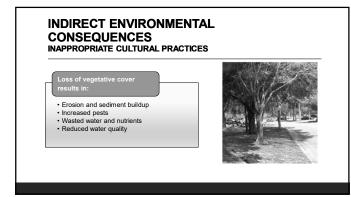
MOWING CULTURAL PRACTICES

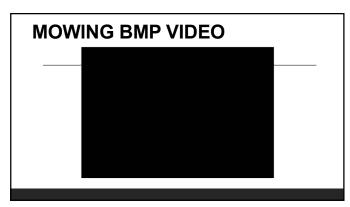
- Keep mower blades sharp!
- Don't mow grass when wet Blow/remove clippings and weed
- seeds from mowers between properties
- Use Protective Safety Equipment





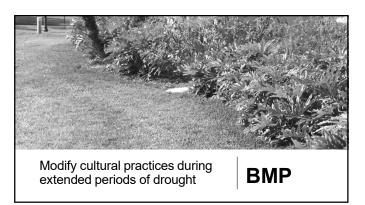
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OVERCOMING SHADE

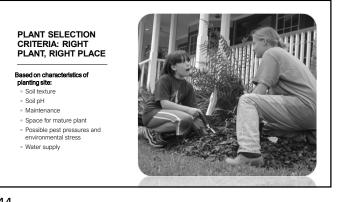
- Allow more light
 Use shade-tolerant groundcover or mulch bed
- Reduce traffic
- Reduce irrigation
- Reduce nitrogen

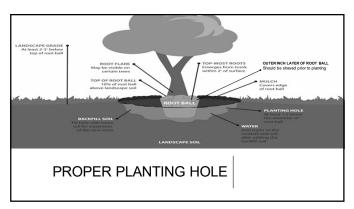
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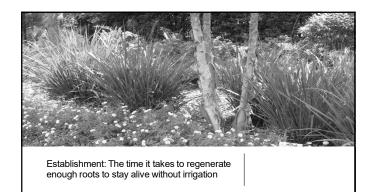
THIS CONCLUDES THE TURFGRASS CULTURE AND SPECIES SECTION HTTPS://EDIS.IFAS.UFL.EDU/TOPICS/LAWNS







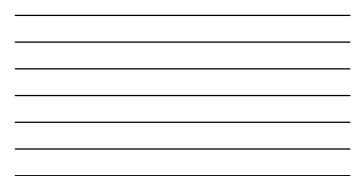






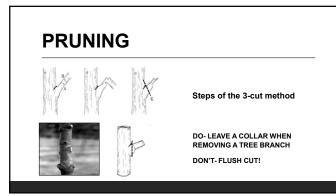


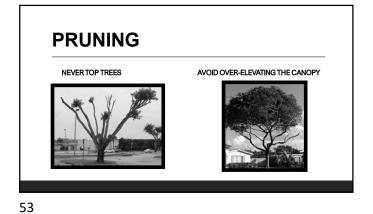








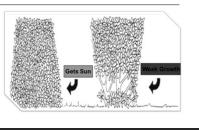




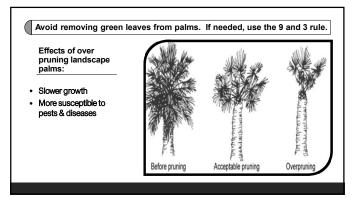
Fruning For A Strong Single Trunk

Pruning Landscape Shrubs:

Trim wider at the bottom than the top
Clipped while new growth is green



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MORE INFORMATION

EDIS CIR. 853 PRUNING LANDSCAPE TREES AND SHRUBS HTTPS://HORT.IFAS.UFL.EDU/WOODY/PRUNING.SHTML

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MANGROVES

The 1996 Mangrove Trimming and Preservation Act states that:

- There is a difference between trimming & alteration
- Height must be above 6 feet from substrate
- A professional mangrove trimmer must be employed (under certain conditions)





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information

REVIEW TRAINING OBJECTIVES

- 1. Describe the components of a Fertilizer Management Plan.
- 2. Describe how turfgrass reduces effects of urban nonpoint source pollution.
- Describe how environmental stresses affect turfgrass health and how it can be managed.
 Describe four common lawn grasses used in
- Describe four common lawn grasses used in Florida.
 Describe four landscape best management practices to protect water resources.
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