

### Warm- Vs. Cool-Season Grasses

Warm-season Characteristics* (C4 Plants)	Cool-season Characteristics (C3 Plants)	
High water-use efficiency	Low water-use efficiency	
High nitrogen-use efficiency	Low nitrogen-use efficiency	
Ideal temperature range of 80-95 F	Ideal temperature range of 60-75 F	
Drought hardiness	High disease incidence	
Good stress recovery (rhizomatous/stoloniferous growth habit)	Poor stress recovery (rhizomatous/stoloniferous growth habit)	

<sup>\*</sup>Warm-season species are typically better suited for most regions of Texas

# Warm- vs. Cool-season Species

Warm-season Species	Cool-season Species
Bahiagrass	Annual ryegrass
Bermudagrass	Creeping bentgrass
Buffalograss	Fine fescue
Centipedegrass	Kentucky bluegrass
Seashore Paspalum	Perennial ryegrass
St. Augustinegrass	Tall fescue
Zoysiagrass	Texas Bluegrass

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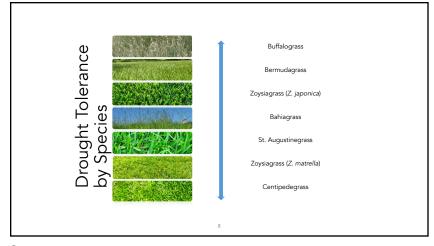
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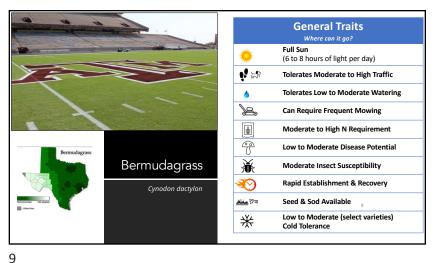
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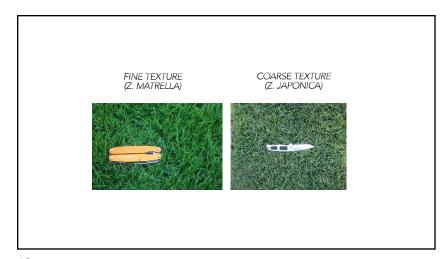


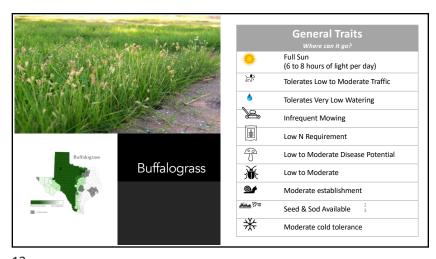
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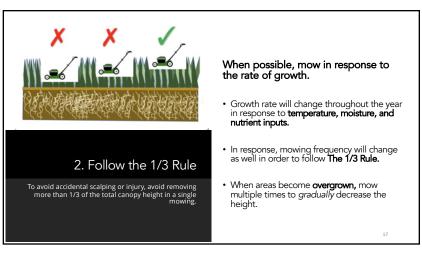






Warm-season turfgrass species		Recommended height of cut	
Common name	Scientific name	Rotary mower	Minimum height with reel mover*
Bermudagrass (Common)	Cymodon dactylon	1.5" to 4"	0.75"
Bermudagrass (Hybrid)	Greation dectylon (L.) Pers and Greation dectylon (L.) Pers x Gynodon tronovoolenois Burst Davy	1.5° to 2.5°	0.75*
Buffalograss	Boutelous disctyloides (Nutt.) J.T. Columbus	2" to unmowed	2*
Centipedegrass	Eremochioe ophiuroides (Munro) Hack.	1.5° to 2°	1*
Seashore Paspalum	Paspalum voginatum Sw.	1.5° to 2°	0.75"
St. Augustinegrass	Stenotophnum secundatum (Walt.) Kuntze	2.5" to 5"	2.5"
Zoysiagrass (Coarse-textured)	Zaysie japonice	1.5" to 4"	1*
Zoysiagrass (Fine-textured)	Zoysia matrella	1.5° to 2°	0.75"
height (-1.5 inched) when a reel mower	ight of cut 040C) than a rotary mower. In some cases, it may be in a svallable, depending on desired aesthetics and functionality into maintain a lower height of cut, more frequent mowing—sor	of a particular site. Ho	wever, it should

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Clippings are a significant source of nutrients.
 Mulch clippings to reduce nitrogen requirements by as much as 50%!
 Avoid leaving behind piles - rake clippings out for better coverage.

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# 4. Choose efficient irrigation options

#### Fixed Spray



Output: Up to 3 GPM Small Droplets Generally Least Efficient, But Most Common

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### Multi-stream Rotary Nozzle



Output: Up to 1.5 GPM Low Precipitation Rate More efficient Good for smaller areas (~15 ft or less)

#### Rotor Head



Output: Up to 9 GPM Lower Precipitation Rate Can Cover 4x Area of Spray Large Turfgrass Areas (~30 ft or greater)

#### **Drip Irrigation**

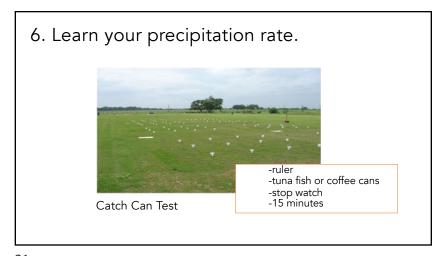


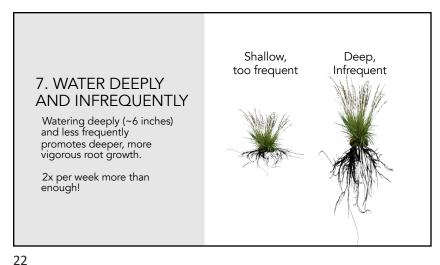
Much lower pressure 20 to 40 PSI Up to 90% Efficient

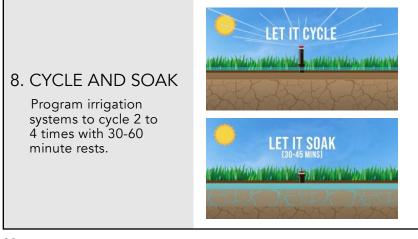
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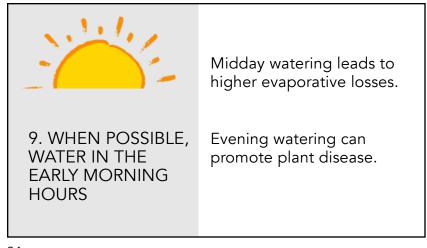


5. DON'T SET IT AND FORGET IT.

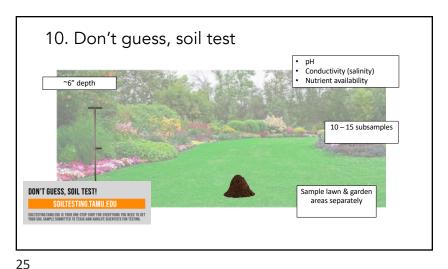








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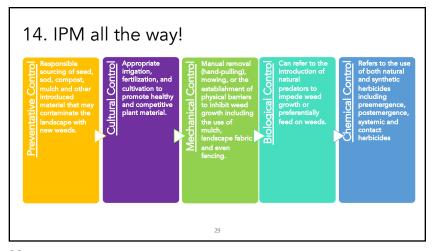


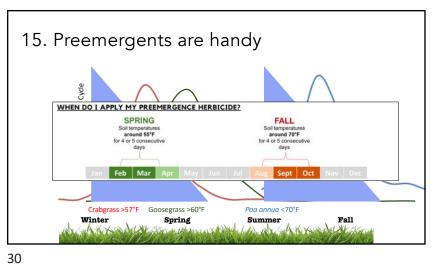
- Spring applications can be made after warm-season turfgrass has been mowed twice.
- Final N applications should be made no later than around 6 weeks before the historic first frost date
- For quick-release N, do not exceed 1lb N/1000 sq ft in a single application to avoid injury



13. Know your pests. Don't spray without proper identification and research.

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