UGA Extension Forage Agronomist





Most Common Establishment Mistakes

2. Poor seedbed preparations

• "Prepared" seedbed (conv. tillage)

• Sod destruction (no till; minimum till)



Most Common Establishment Mistakes

4. Poor pest control

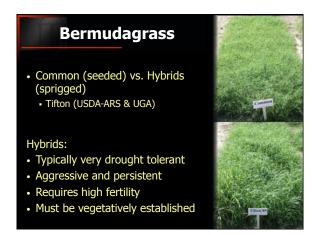




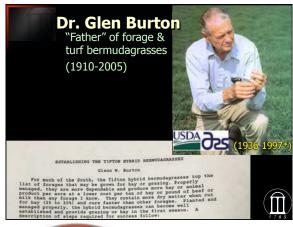
















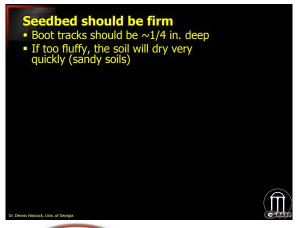




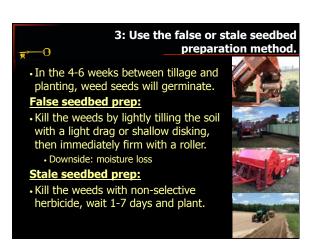














Minimum Till ("No-till") Options

- Acceptable for vegetative establishment (sprigging), but will leave the field very rough.
- Weed control?



4: Choose an establishment method and timing.

Three primary methods

- 1) Dormant sprigs 40-70 bu of LS/acre

 - Jan. to early Mar. Less desirable for Tifton 85
 - Cover with at least 2" of soil to protect sprigs from freezing
 - 50%+ of dormant sprigs fail to emerge
 - Fall prior: do not allow the nursery area to be cut or grazed after Labor Day
 - Excessive winter rainfall limits dormant sprig survival
 - Estimate sprig survival by grow-out and adjust sprigging rate accordingly



4: Choose an establishment method and timing.

Three primary methods

- 2) Spring sprigs 40-70 bu of LS/acre
- Spring (after last freeze) to early Aug.
 - Early sprigging increases likelihood of establishment by end of the first year
 - Avoid planting before early April
 - Sprigs should be vigorously growing before digging.
 - Stand development is directly proportional to sprigging rate



4: Choose an establishment method and timing.

Three primary methods

- 3) Tops/green stems 60-100 bu/A
 - · June until early Aug.
 - Tops need 6+ nodes on the stolons
 - Fine-textured varieties: 10-12"
 - Coarse-textured varieties: 18-24"
 - Nursery area should receive: 100 lbs N, 25 lbs P_2O_5 , and 100 lbs of K_2O /acre in late March to produce tops by June
 - Not recommended for Tifton 44
 - Usually not planted with sprig planter.



5: Plant ONLY in moist soil.

- Sprigs will die if they drop below isture or if they heat ~50-55% moisture or if they he above 120°F for extended period.
- If soil is dry, especially if hot, it will draw moisture out of the sprigs even after they have been planted.
- · Ideal: planting on cool, cloudy day, preferably with a misty rain or imminent rainfall.
- Irrigation before and after can add flexibility, but do not over irrigate.
 - \sim 1"/wk (0.5" x 2x/wk) for first 4 wks





Heat Damage to Sprigs: Lessons from the Turfgrass World

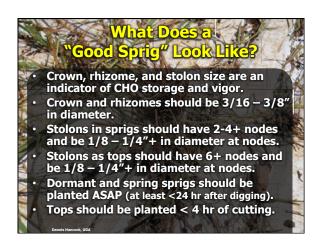
- Temp. of sprigs inc. 1.0-2.5°F/hour of storage, depending on ${\rm O}_2$ intrusion and density of pack.
- Sprigs can survive 110°F for extended period and 120°F for up to 6 hrs with minimal damage.
- If exposed to 130°F for 4 hrs, sprig survival is 30-60%. If 140°F for 1 hr, 100% sprig death.
- No difference in sprig survival among turf varieties.

Source: Elsner and McWhorter, 1999. USGA Green Sec. Rec.







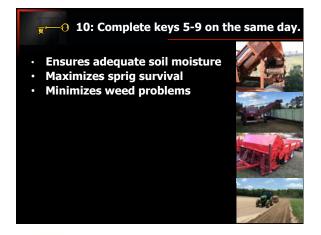








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What is a Good Stand of Sprigged

Bermudagrass at 1 MAP?

• At 1 month after planting:
• Healthy plant (4" diameter of growth) w/in a natural stride from one another (< 2.5'), &
• Stolons extending 6-12"+ from most plants
• This equates to roughly 20% stand
• If this is the case, apply 50-60 lbs N/a every 4-6 wk & 100 lbs K₂O/a in late July.
• Stimulate stolon growth by mowing regularly (7" -> 3") until early Sept.

