This Is Not Your Father's Oldsmobile, I Mean Turfgrass

Brian Schwartz Crop & Soil Sciences University Of Georgia

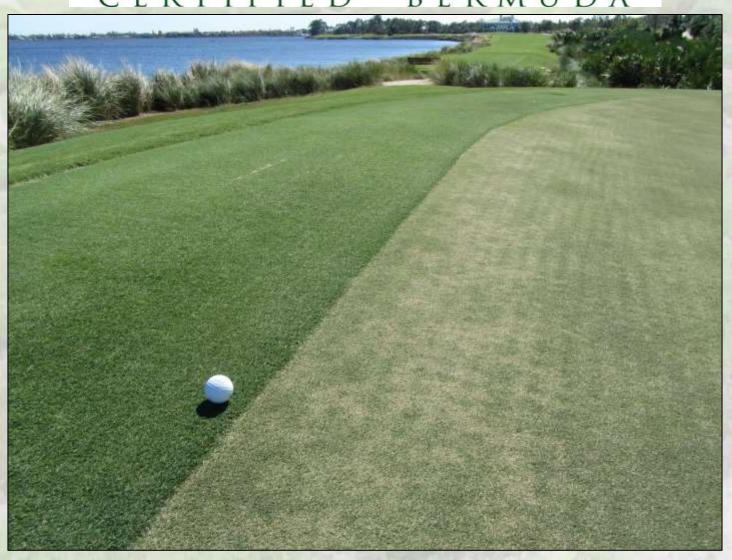
67th Annual Southeastern Turfgrass Conference April 30th, 2013

Outline

- Practical Research
- "Mad" Science
- Preparing for the Future







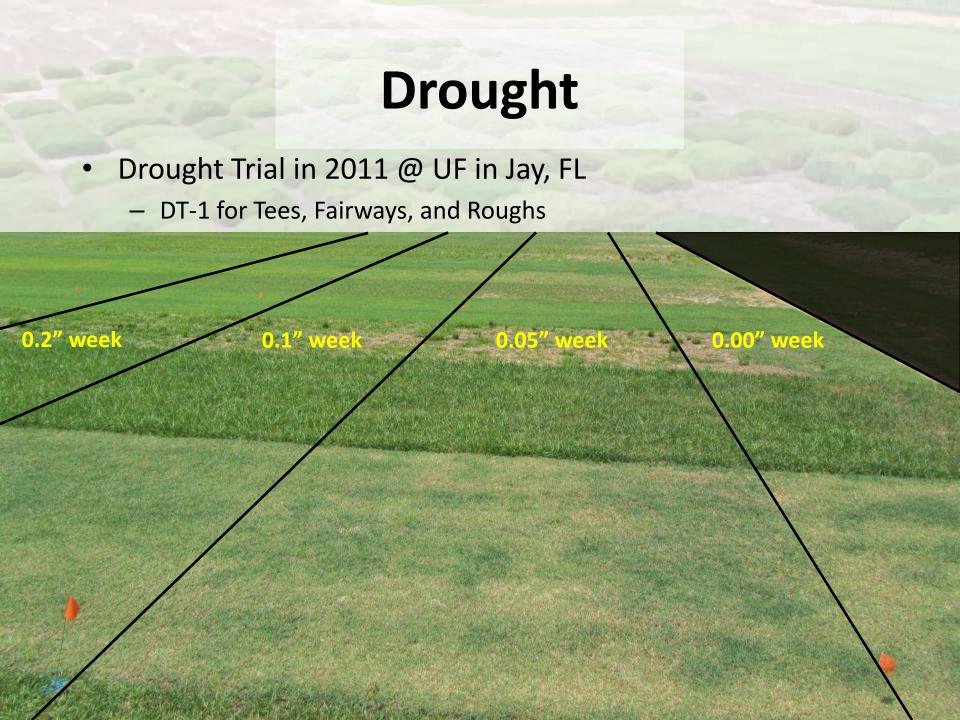


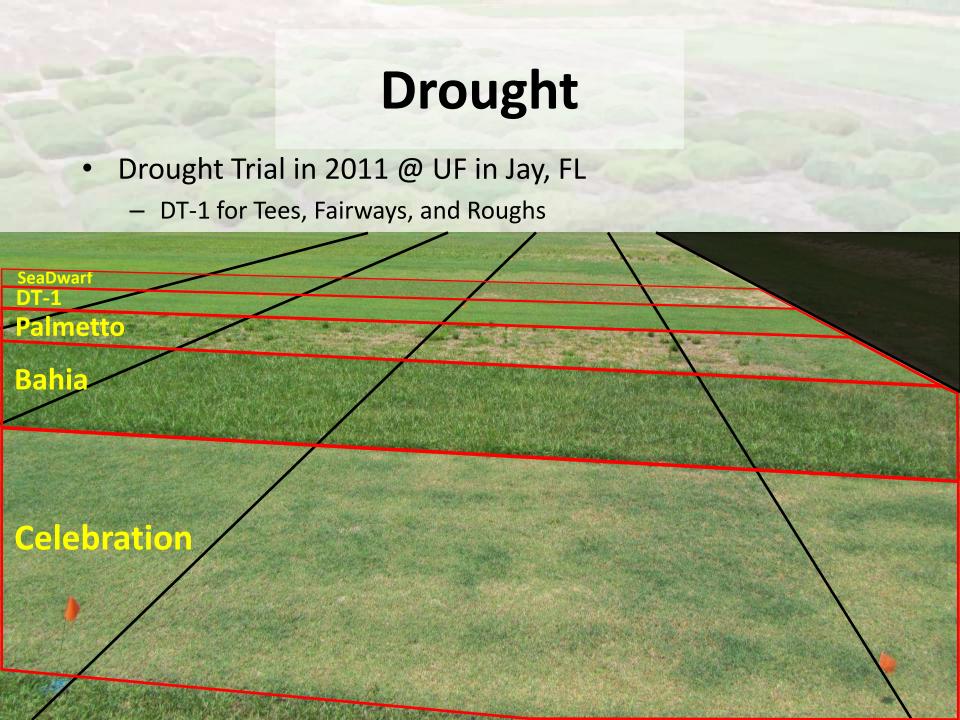


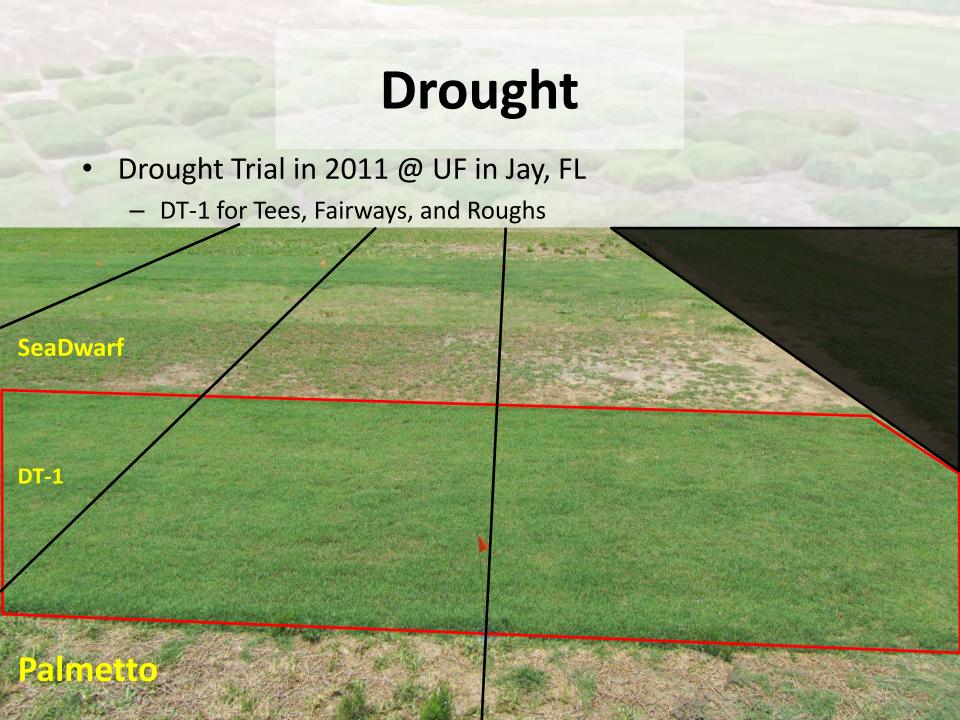
Drought

LGIS (Linear Gradient Irrigation System)

















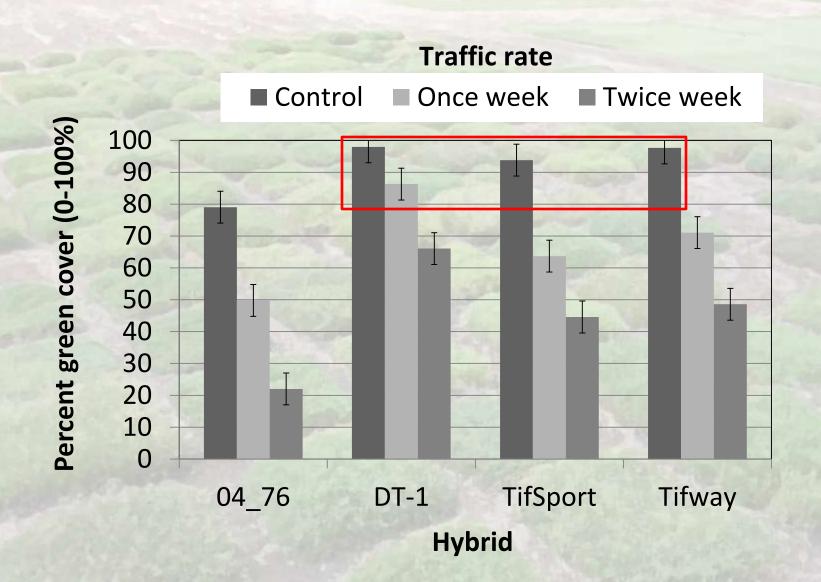






Wear Trials GA 30





Effects of bermudagrass hybrid by traffic rate on percent green cover observed after 6 weeks of traffic in Tifton, GA, 2012. Columns with overlapping error bars are not significantly different according to LSD (0.05).









































































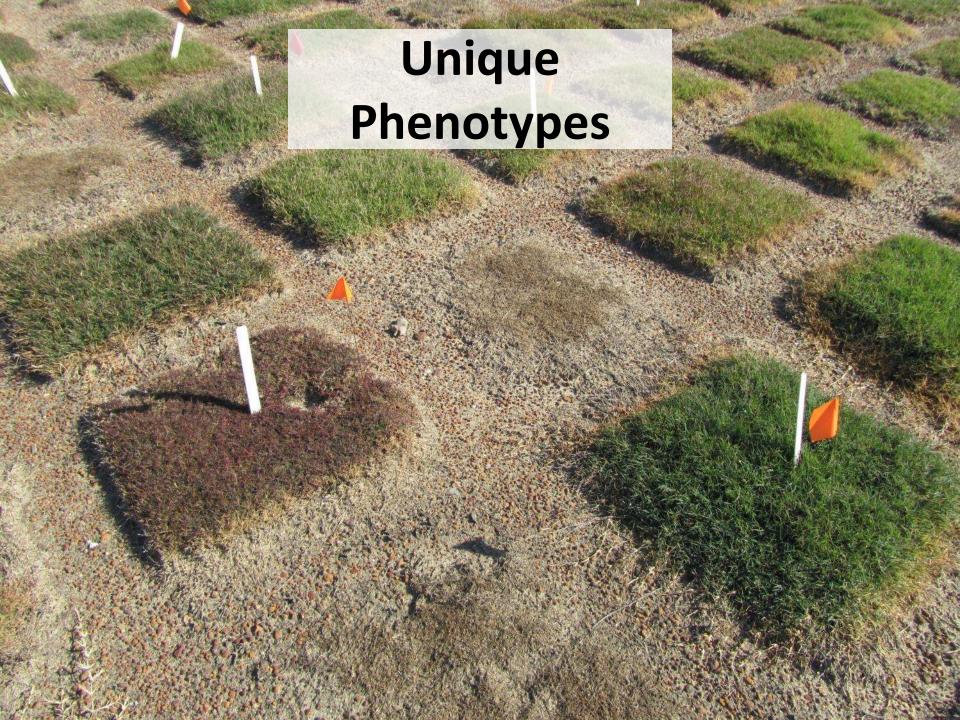












Hybrid Selection



Hybrid Screening



Hybrid Screening



Hybrid Selection



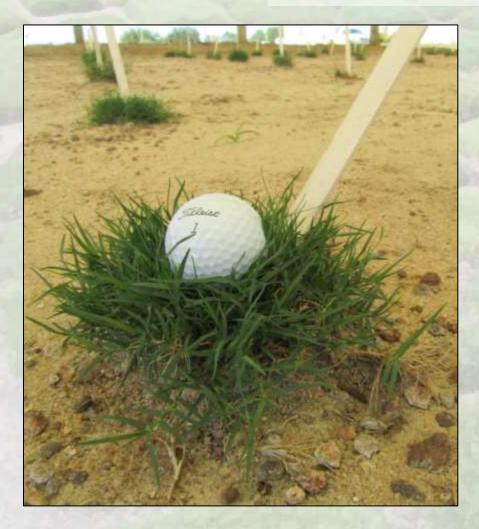
Hybrid Selection

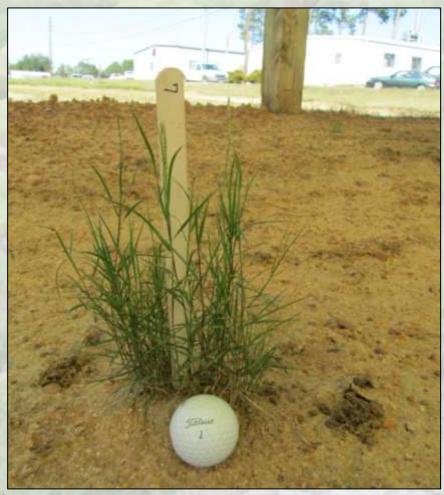


Shade



Shade









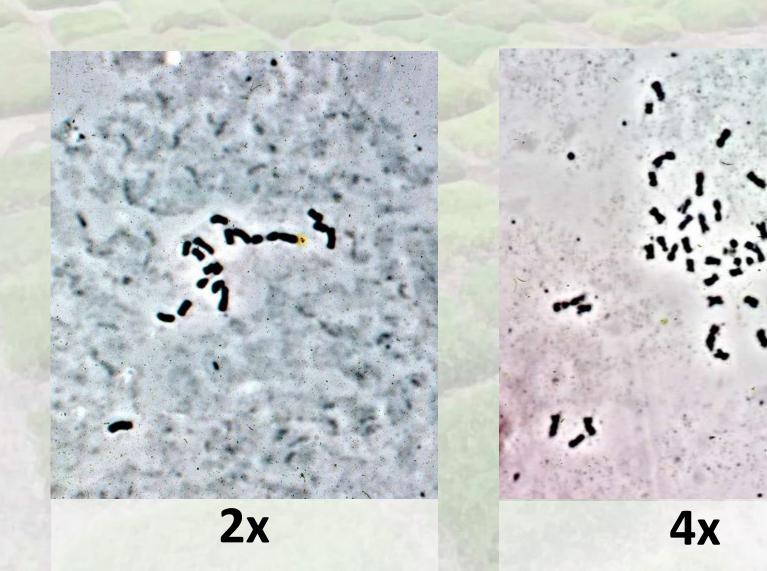
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Ploidy Manipulation in Warm Season Turfgrass Species

- Increase Genetic Variation
- Improve Vigor
- Array of Phenotypic Variation in Crosses
- Sterility
 - Uniformity
 - Genetic Purity for Sod Producers
 - Energy NOT Used for Seed Development

"Hybrid" Triploid Bermuda



"Hybrid" Triploid Bermuda



Tetraploid (4x) Zoysia

BA433

'Diamond'

'Emerald'

'Meyer'







<u> 5 µm</u>

Octaploid (8x) Zoysia



Hexaploid (6x) Zoysia



Septaploid (7x) Zoysia

Ploidy Manipulation in Zoysiagrass Species

- (4x) A lot
- (5x) -284
- (6x) 210
- (7x) 55
- (8x) 136







Super-Sod Tour







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