



Turfgrass Breeding at the University of Georgia

Brian Schwartz – Tifton, GA





TIF GRAND™

CERTIFIED BERMUDA

- **TifGrand (Shade Tolerant Bermudagrass)**
- Superior hybrid cross from (4x) by (2x) parents which has been tested for over 15 years
- Tolerates 60% continuous shade
- Tawny mole cricket resistance
- Dark green color with leaf texture that is intermediate between TifSport and TifDwarf.
- Flexible response to mowing heights between 0.250” to 1.5”
- Only “Certified” triploid (3x) material is available for distribution



TIF GRAND™

CERTIFIED BERMUDA





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Pinehurst #3 Teebox



TIF GRAND™

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TIF GRAND™

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**The BEAR'S CLUB –
45 days later**



TIF GRAND™

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After first frost in Tifton 2009

Tifdwarf

TifGrand



TIF GRAND™

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TifGrand

Limited dew accumulation



TifEagle



www.tifgrand.com

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TifGrand™

is the world's first seed and pollen sterile (triploid hybrid) Bermudagrass scientifically developed to thrive in 60-70% continuous shade.

- ★ thrives in 60-70% continuous shade
- ★ superior quality in full sun
- ★ attractive, dense turf
- ★ naturally dark green blade
- ★ will be grown only as a certified sod
- ★ significantly reduced fertilizer (N) requirement
- ★ reduced water requirement
- ★ spreads by stolons and rhizomes
- ★ excellent tawny-mole cricket non-preference

★ developed By Dr. Wayne Hanna and Dr. Kris Braman and the University of Georgia's world renowned turfgrass breeding program

exclusive production licensing agent



(770) 207-1500 or (866) 967-2652

This site is still being developed, but the interest in TifGrand™ is so high and the demand for information so strong, we've reorganized it for your convenience.

Translate this page:

[|The Turf](#) [|The Science](#) [|TifGrand patent application](#) [|NTEP Trials \(2005\)](#) [|Clemson Shade Study\(2008\)](#) [|U. Tennessee Traffic Trials \(2008\)](#) [|The Press](#) [|Articles by Dr. Hanna](#) [|Other articles](#) [|The Growers](#) [|The Maintenance](#) [|The Marketing](#)
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New Concept Turf (GA)

- **Appes Sod Farm**
- **NG Turf, Inc.**
- **Patten Seed/Super Sod**
- **Pike Creek Turf, Inc.**
- **Sod Atlanta, Inc.**



New Concept Turf (NC)

- **Buy Sod, Inc. North Carolina**
- **Patten Seed/Super Sod**
- **Sandhill Turf, Inc.**
- **TriState Turf, Inc.**



New Concept Turf (SC)

- **Buy Sod, Inc. South Carolina**
- **New Life Turf, Inc.**
- **Patten Seed/Super Sod**



New Concept Turf (TX)

- **Holland Gardens, Inc.**
- **King Ranch Turfgrass**
- **Quality Turf Farms**



New Concept Turf (AL, AZ, FL)

- **Coosa Valley Turf Farms (AL)**
- **Evergreen Turf (AZ)**
- **Master Turf Farm (FL)**



Turfgrass Breeding “Pipeline”

- (3) Potential Future Releases
 - DT-1, Tifton 11, and SB-1
- (17) Elite Hybrid Test
- (113) Advanced Clone Test
- (1340) Preliminary Clone Observations
- (10) Unique crossing blocks
 - Salt tolerance, Shade tolerance, Turf Quality



Drought and Stress Work

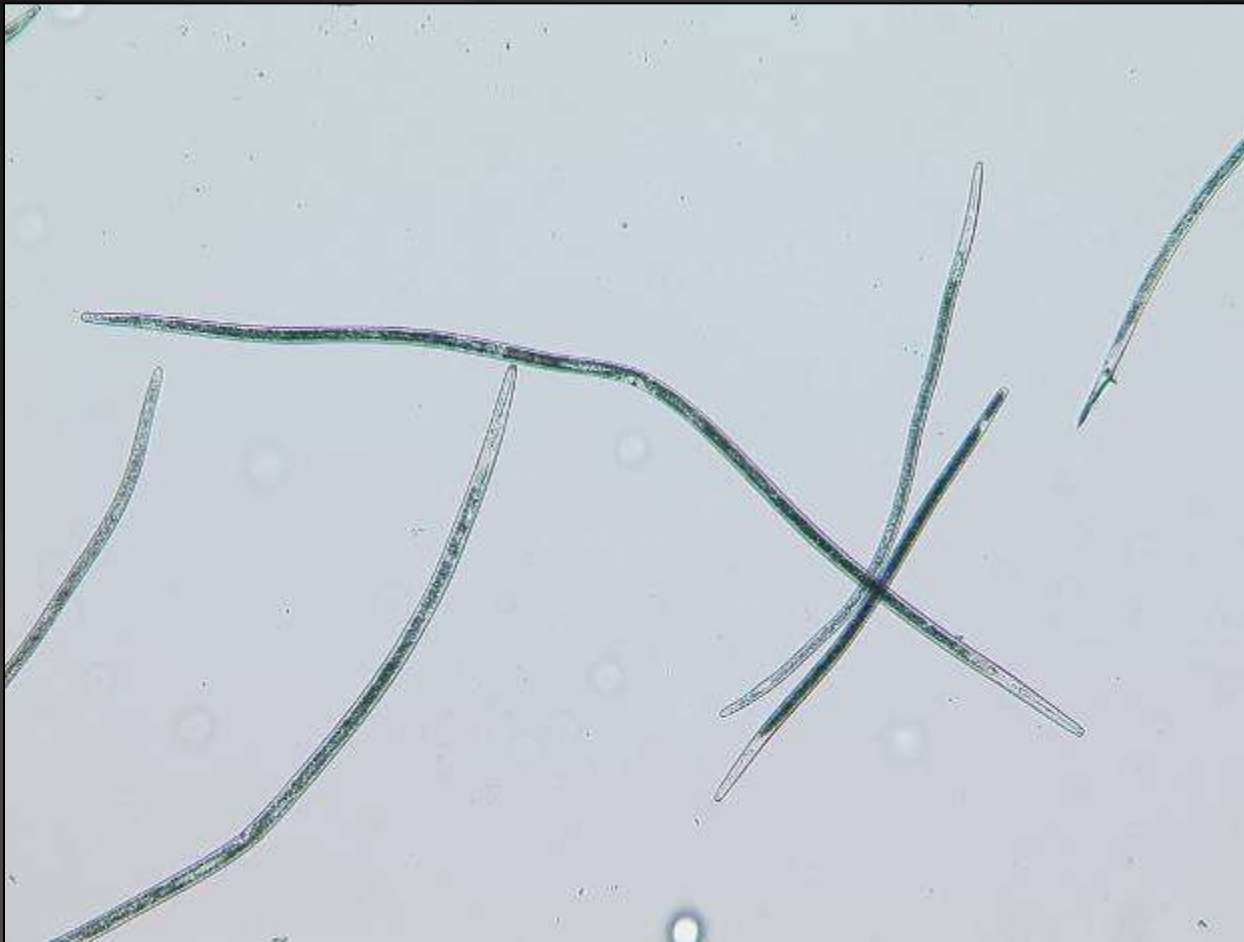
- DT-1: Has maintained turf quality without water 12 to 14 days longer than other cultivars
- TifGrand: Was selected under 70% to 90% shade





The Sting Nematode

- *Belonolaimus longicaudatus*





The Sting Nematode

- There were no significant differences for TRL (total root length) in the uninoculated controls between UGA 31 and SeaIsle1 or TifGrand and TifSport
- But promisingly, both UGA31 and TifGrand did maintain significantly greater TRL as compared to their respective species standards when subjected to sting nematode feeding.
- Additionally, there was no difference ($P \leq 0.05$) between the inoculated TRL of TifGrand and T89, a hardy “common” bermudagrass which has exhibited persistent growth under harsh environmental conditions in Tifton, GA for many years.



Centipedegrass

- Objectives
 - Spittlebug resistance
 - Dr. Kris Braman
 - Shade tolerance
 - Sting nematode resistance
 - Dr. Patty Timper
 - Dr. Karen Harris
 - High pH and High salinity
 - Dr. Gerald Henry
 - Cold tolerance
 - Dr. John Sorochan
 - Seed yield





Centipedegrass

High pH and High salinity and Cold tolerance

- Dr. Gerald Henry





Zoysiagrass

- Objectives
 - Evaluate the feasibility of “ultradwarf” zoysiagrasses
 - Breed for large patch resistance
 - Improve growth and recover rates
 - Select for water use efficiency





Zoysiagrass

- (62) Advanced Clone Test
- (3800) Preliminary Clone Observations
- (1133) Unique Breeding “Families”



Questions

