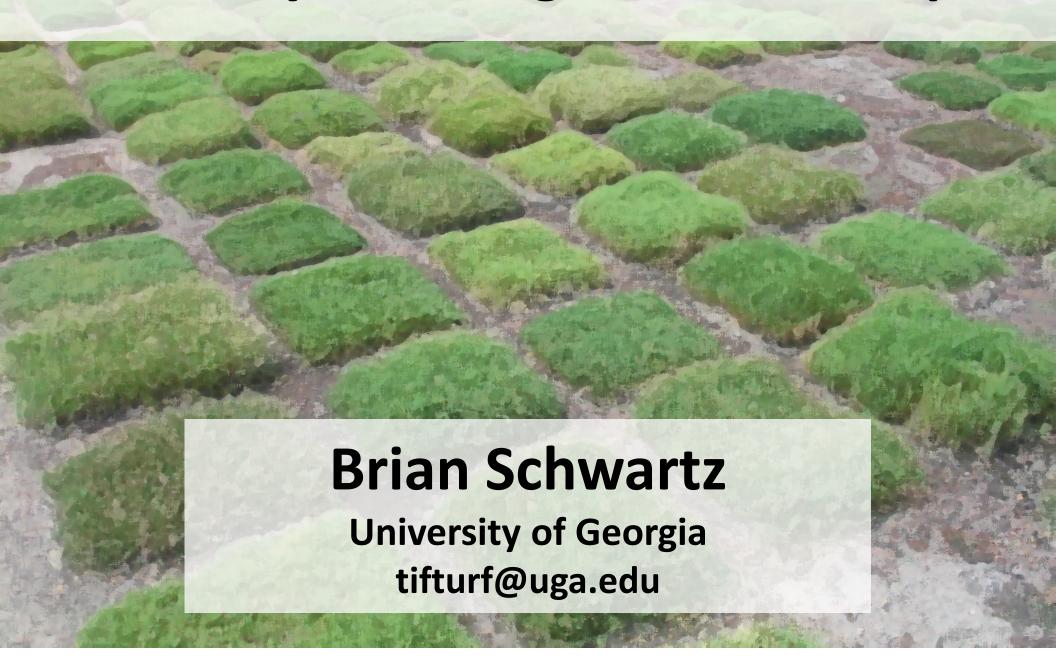
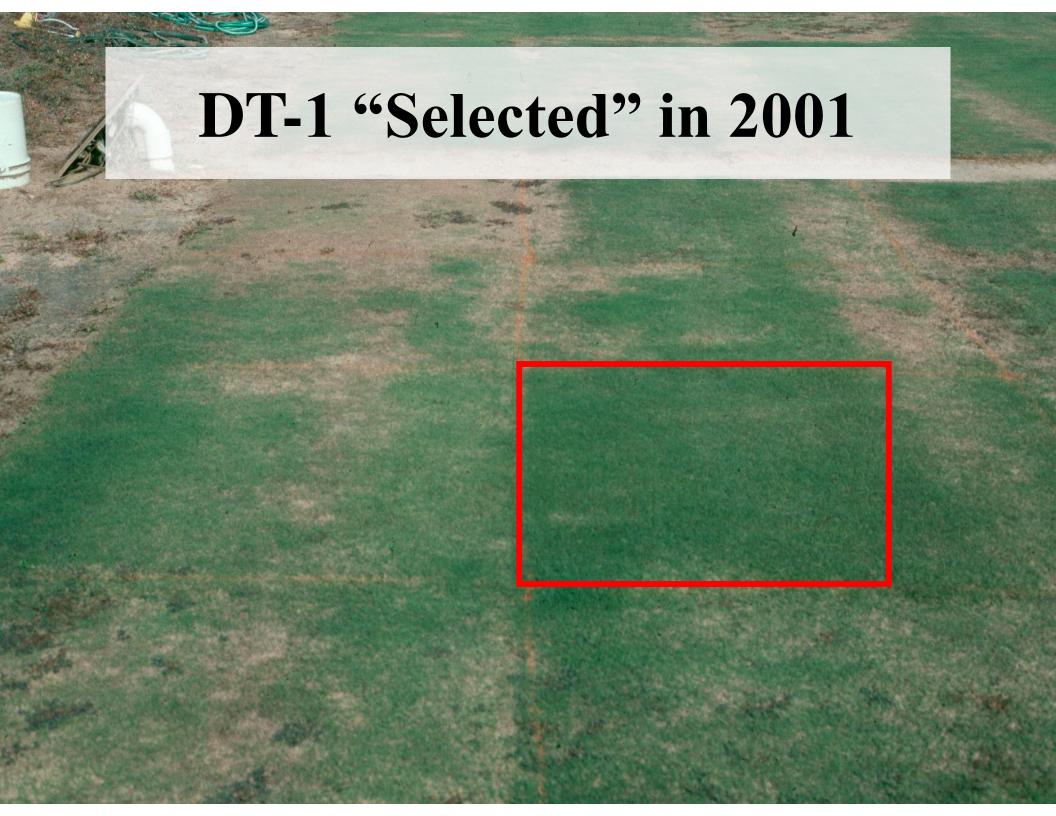
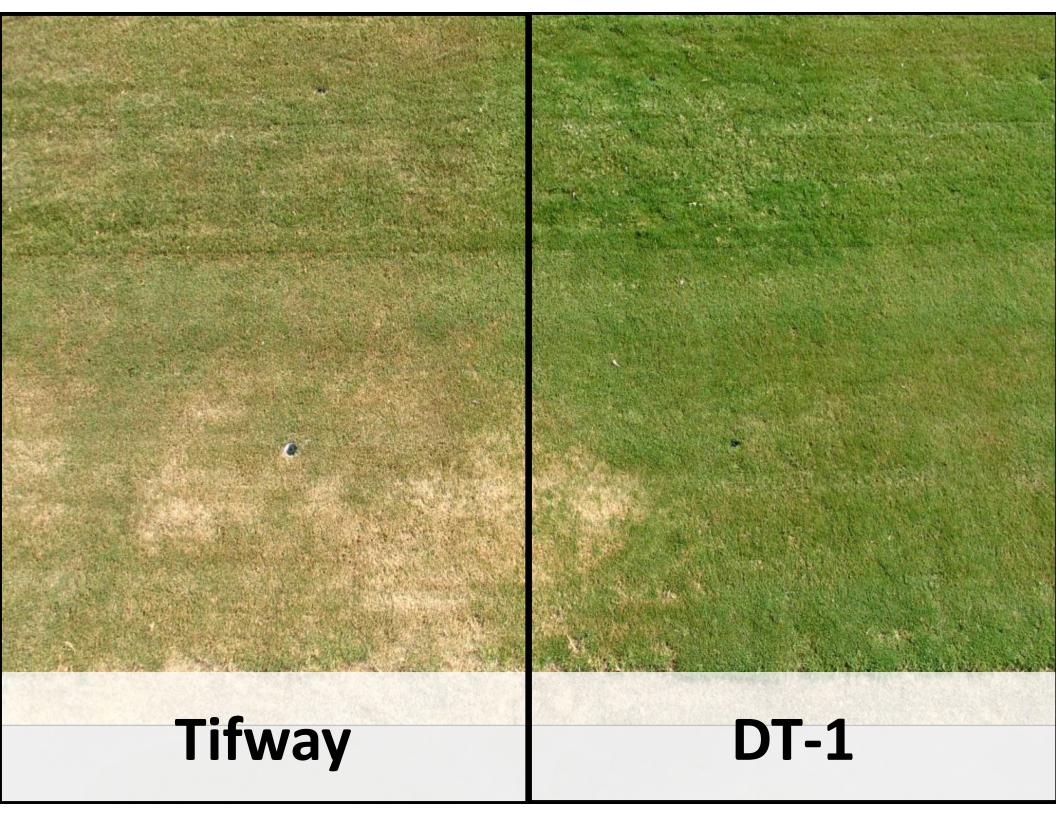
TifTuf Bermuda (DT-1) University of Georgia Tifton Campus

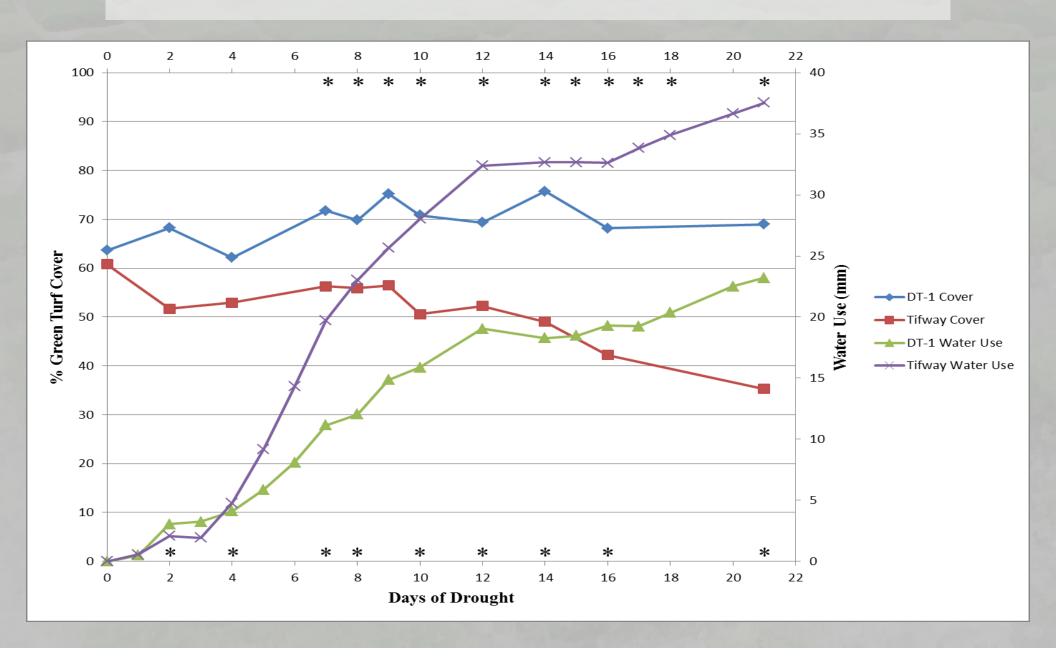


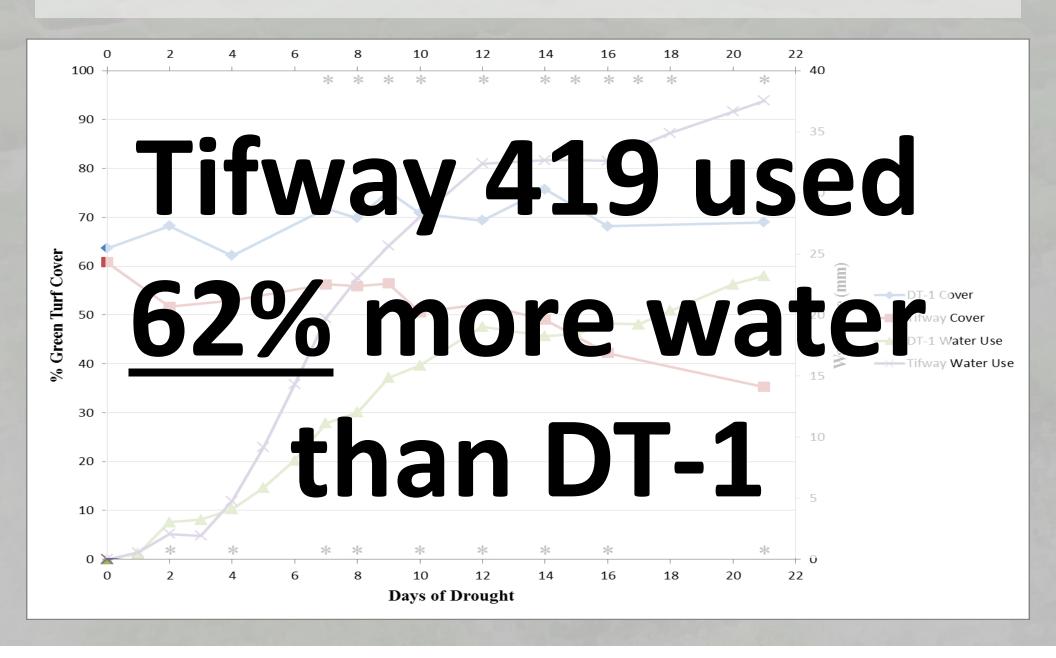
Plant Responses to Drought

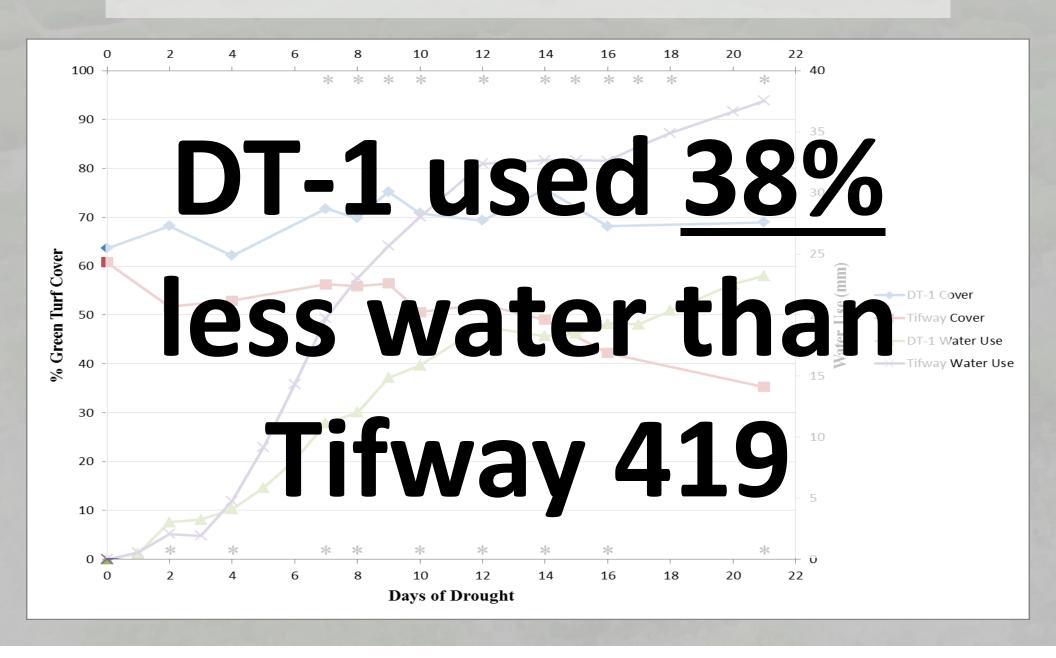
- Avoidance
 - Deeper root extension
- Escape
 - Drought dormancy
- Tolerance
 - Osmatic adjustment, membrane stability, etc.
 - Aka: USING LESS WATER

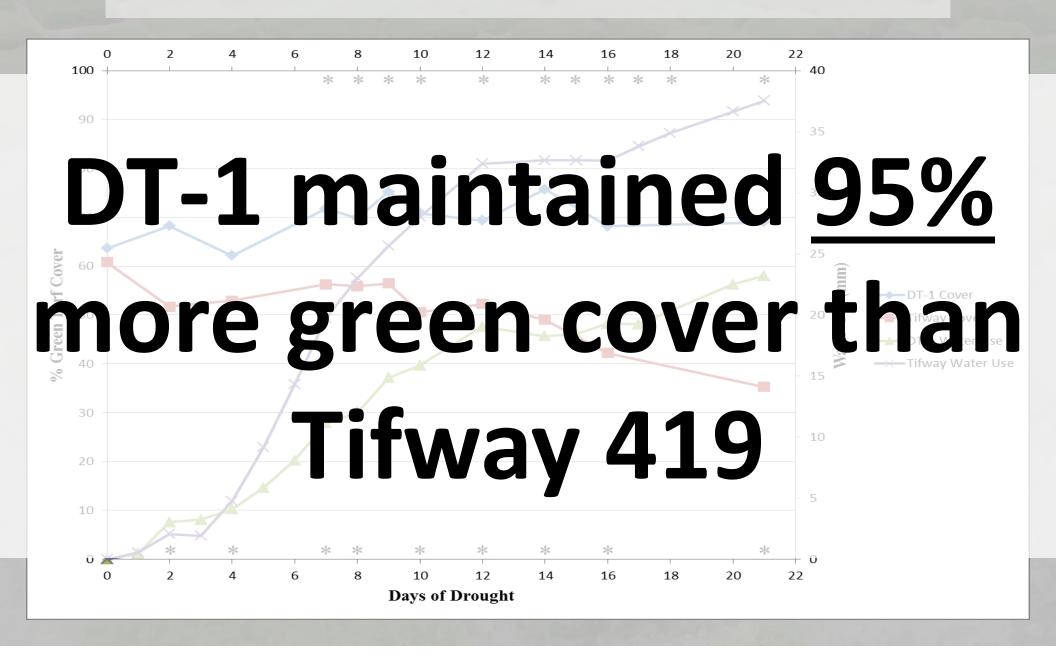










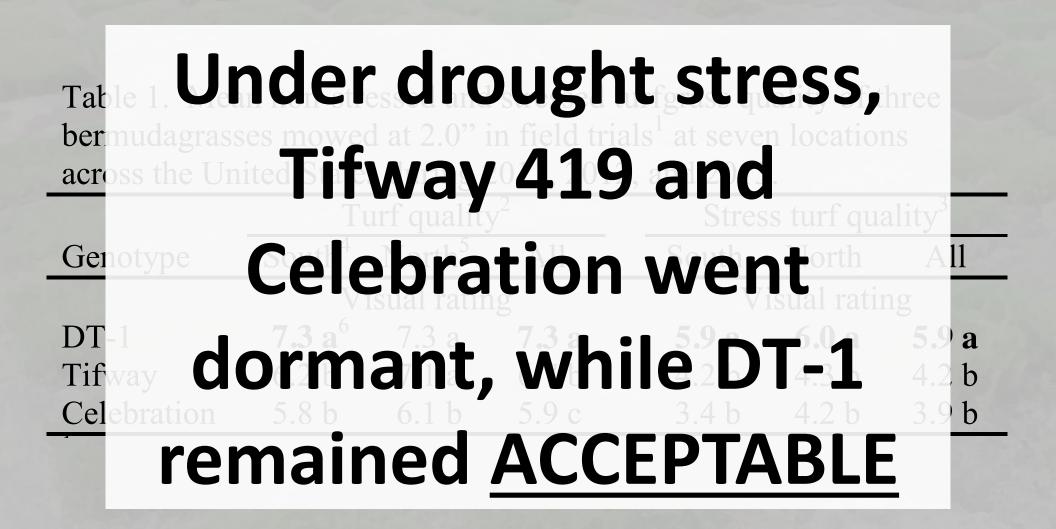


Short & Long-Term Drought (USA)

Table 1. Mean non-stressed and stressed turfgrass quality of three bermudagrasses mowed at 2.0" in field trials at seven locations across the United States during 2011, 2012, and 2013.

	Turf quality ²			Stress turf quality ³					
Genotype	South ⁴	North ⁵	All		South	North	A11		
	V	Visual rating				Visual rating			
DT-1	$7.3 a^6$	7.3 a	7.3 a		5.9 a	6.0 a	5.9 a		
Tifway	6.2 b	7.1 a	6.7 b		4.2 b	4.3 b	4.2 b		
Celebration	5.8 b	6.1 b	5.9 c		3.4 b	4.2 b	3.9 b		

Short & Long-Term Drought (USA)



2010 USDA Trials





Table 2. Mean turfgrass quality of three bermudagrasses mowed at 1.5" averaged over four dates in 2010, 2011, and 2012 after sustained droughty conditions in the Linear Gradient Irrigation System (LGIS) evaluation at the West Florida Research and Education Center (WFREC) in Jay, FL¹.

2000	Irrigation level (% ET ₀)								
Genotype	120	105	80	54	37	25	13	3	Average
	Visual rating ²								
DT-1	6.8 a^3	6.6 a	6.4 a	6.3 a	6.3 a	5.8 a	4.7 a	4.6 a	5.9
Celebration	4.7 b	4.5 b	4.3 b	3.9 b	3.7 b	2.8 c	2.1 c	2.2 c	3.5
Princess-77	4.7 b	4.6 b	4.3 b	4.3 b	4.1 b	3.9 b	3.1 b	2.9 b	4.0

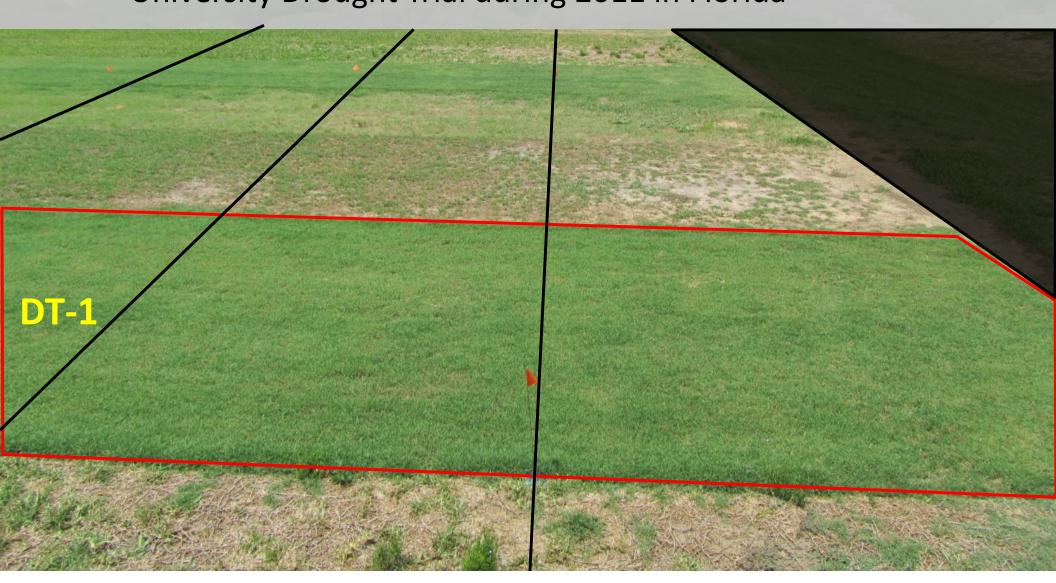
Field trial planted during 2010.

²Turf quality was rated on a 1 to 9 scale with 1 = dead, 5 = acceptable, and 9 = excellent.

³Means within columns followed by the same letter are not significantly different according to Fisher's LSD ($P \le 0.05$).

Table 2 Medates in 2010	aturfor O,Un	de	y of three	eve	lagrasses Ege co	dro	ug	raged ove ear Gradi	er four ent
Illigation									lei
(WIRE)	stre	255.	. Ce	ele	bra	tio	na	nd	Maria de
Genoty	120	105	80	54	37	25	13	3	Average
DT-1	rin	ces	SS=7	76 7 a	fail	ed,	W	nile	5.9
Celebration						2.8 c			3.5
Princes -77		4.63	4.34	4.3 b	4.1 b	• 3.9 b	3.1 b		4.0
¹ Field trial p ² Turf quality		ring 2/1(d on a 1 t	o 9 scale	rel with 1 =		IIIE = accepta	d ble, and		ent.
³ Means with		ns follow	SCC	FP	TAI	RIF	antly dif		
			100				<u> </u>		

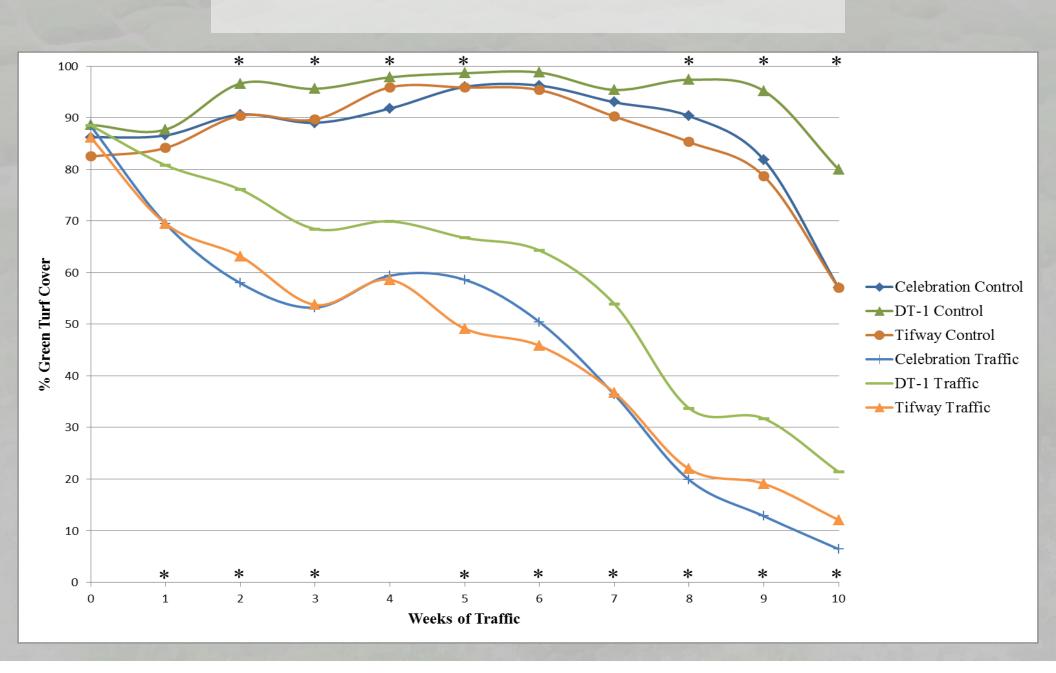
University Drought Trial during 2011 in Florida







Wear Trials







DT-1's genetic mechanism for wear recovery can lead to scalping where there is excess soil moisture and fertility in the ABSENCE of stress

Spring Green-Up

Table 5. Mean turfgrass cover and color of five bermudagrasses mowed at 1.5" in an irrigated, non-stressed field trial during 2012 and 2013 in Tifton, GA¹.

	Turf cover ²							
Genotype	Estab. Green-up Summer Dormancy							
	% green cover							
DT-1	44 b^3	75 a	91 a	65 a				
Celebration	55 a	62 b	89 a	26 b				

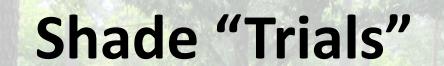
Fall Dormancy

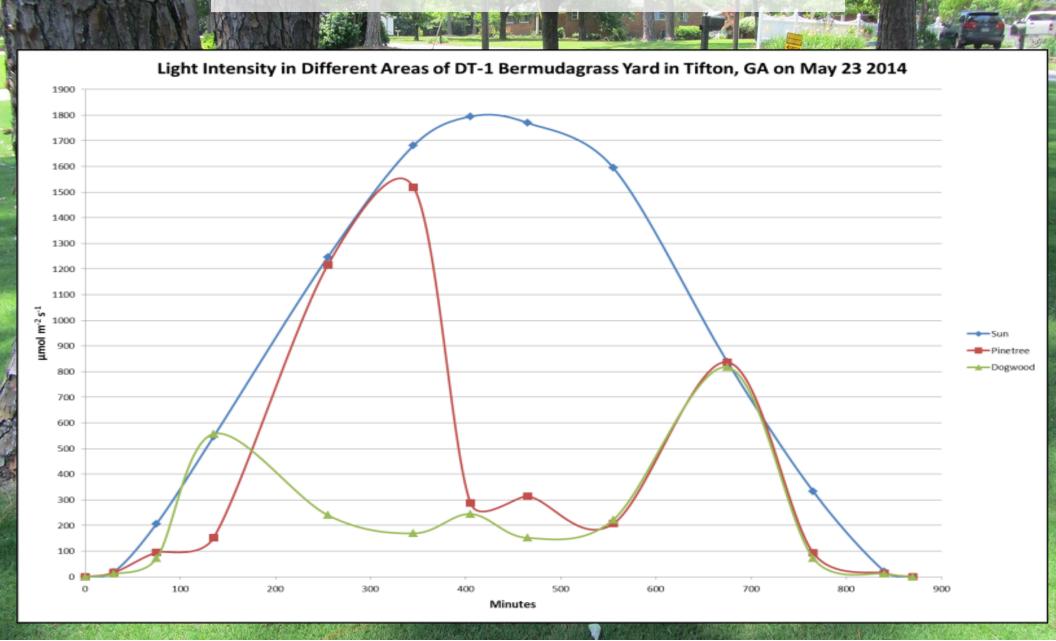
Table 6. Mean turfgrass quality, cover, and color of two bermudagrasses mowed at 1.5" in an irrigated, non-stressed¹ field trial during 2010 and 2011 in Tifton, GA².

	Tı	ırf qualit	y^3	Turf cover ⁴				
Genotype	April June Oct. ¹			April	June	Oct.		
	Vi	isual ratii	ng	%	% green cover			
DT-1	$6.3 a^{5}$	7.5 a	8.3 a	89 a	85 a	63 a		
Tifway	5.8 a	6.0 a	6.0 b	80 a	83 a	25 b		



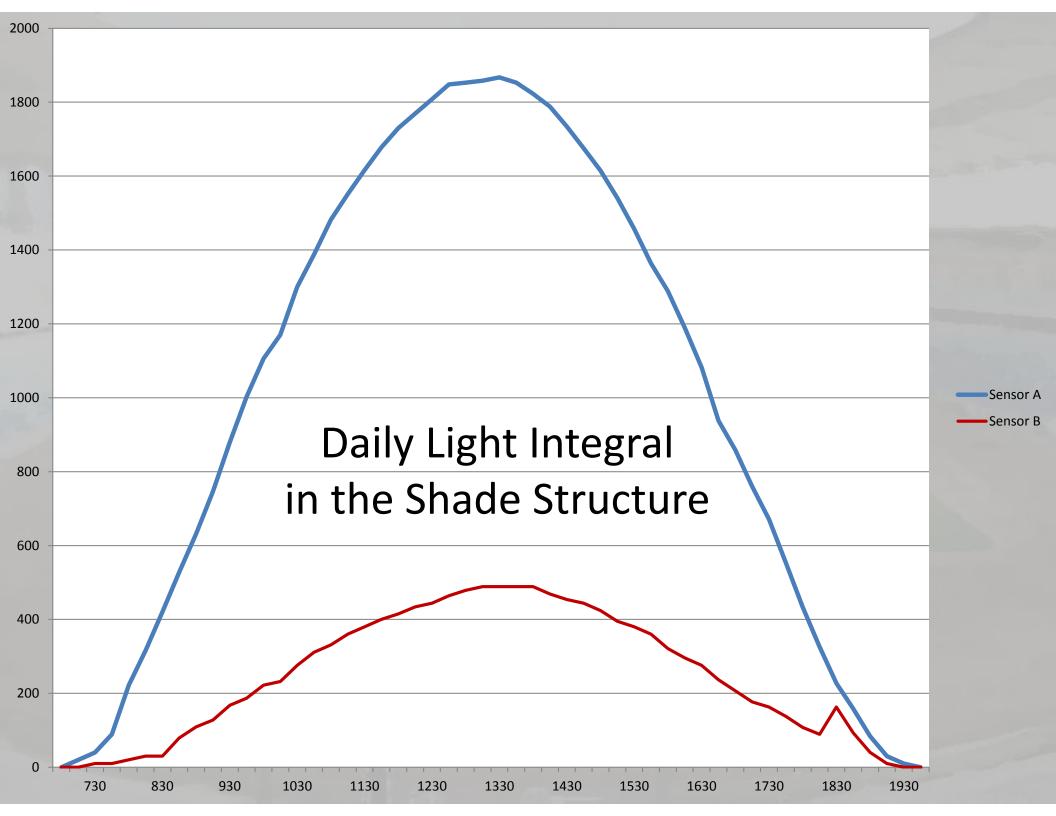






2014 USDA Shade Test

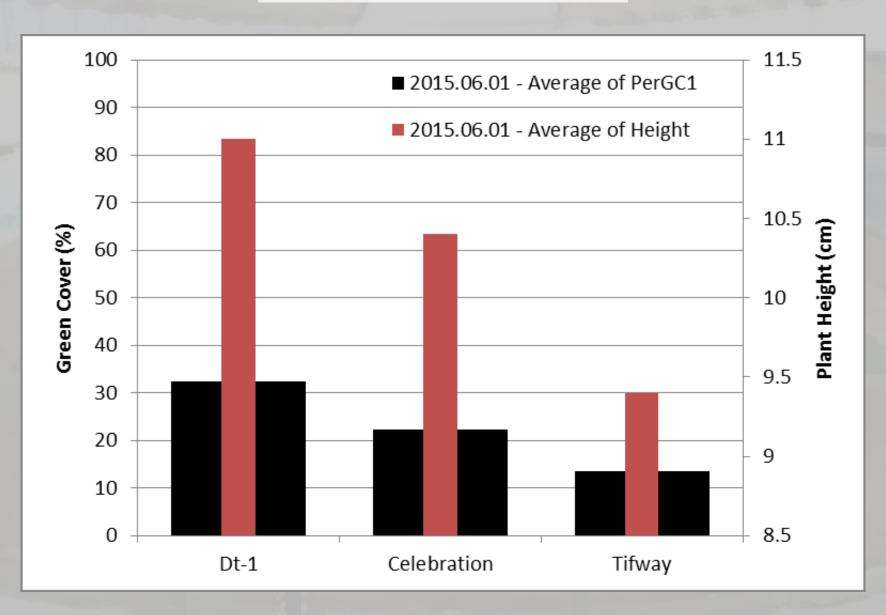






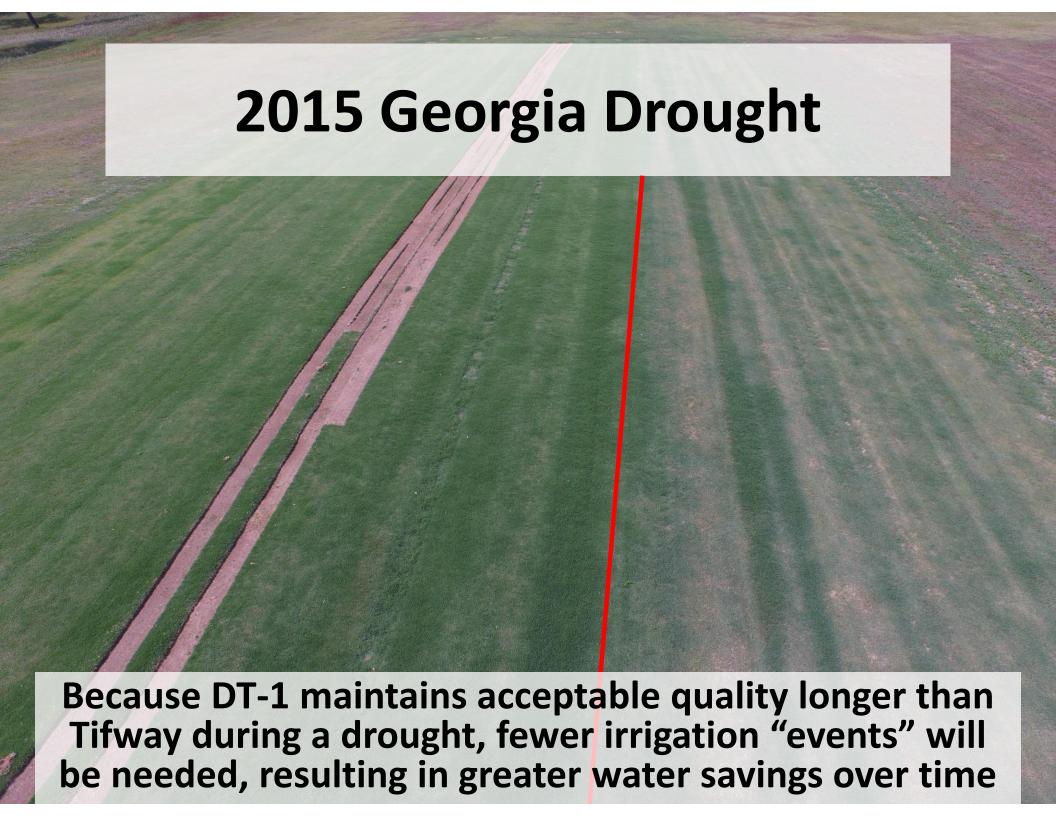
Bermudagrass Shade Trial

2015 Tifton (June)









TifTuf Bermuda (DT-1)

- Superior hybrid cross from (4x) by (2x) parents which has been tested for over 22 years
- More drought tolerant than Tifway, Celebration, TifGrand, and Latitude 36
- Better establishment and cover than Tifway
- Superior traffic tolerance than Tifway or Celebration
- Higher sod strength than Tifway in the Spring and Fall
- Faster Spring green-up than Tifway and Celebration
- Greater color retention than Tifway and Celebration during the onset of fall/winter dormancy