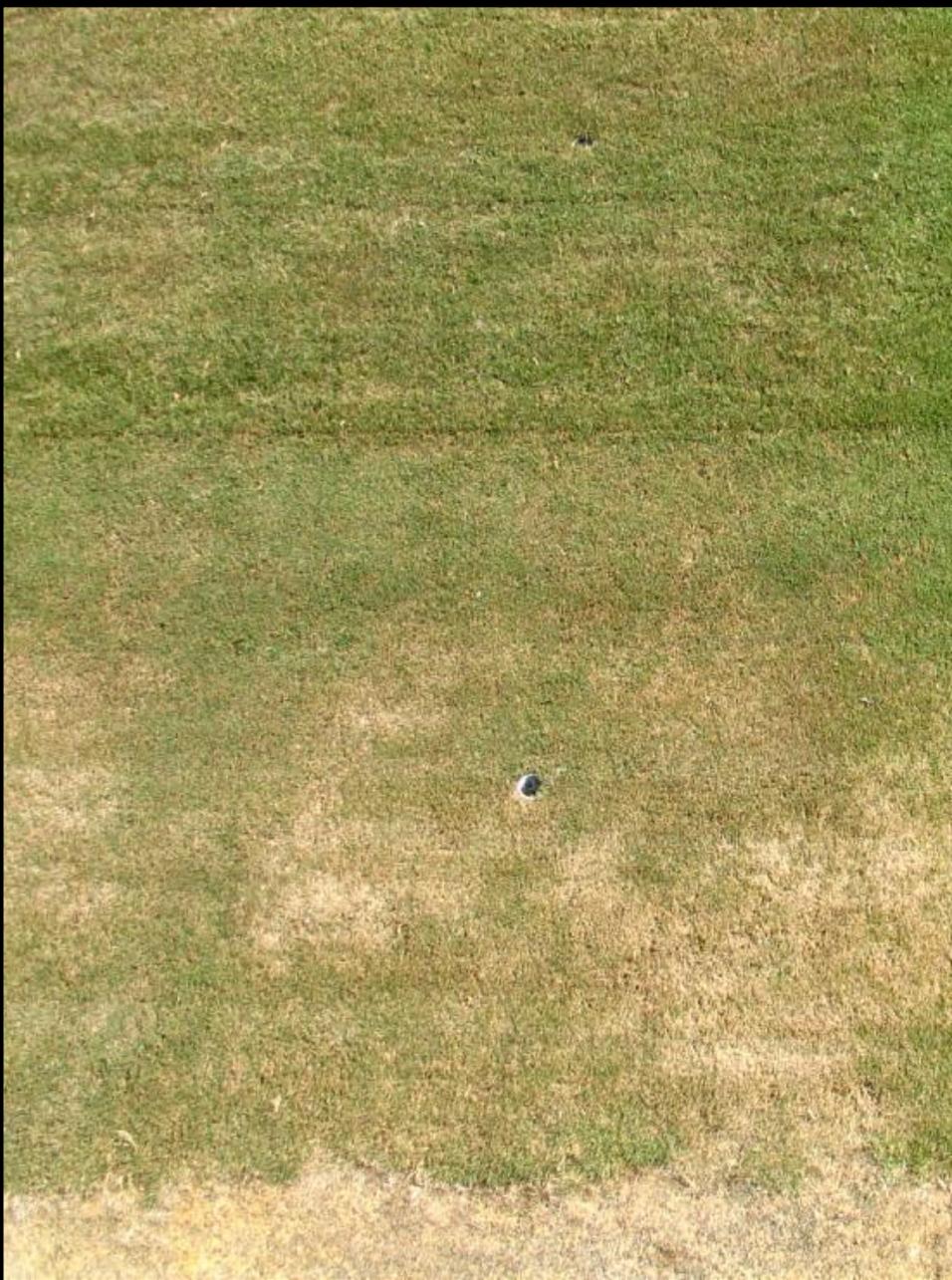


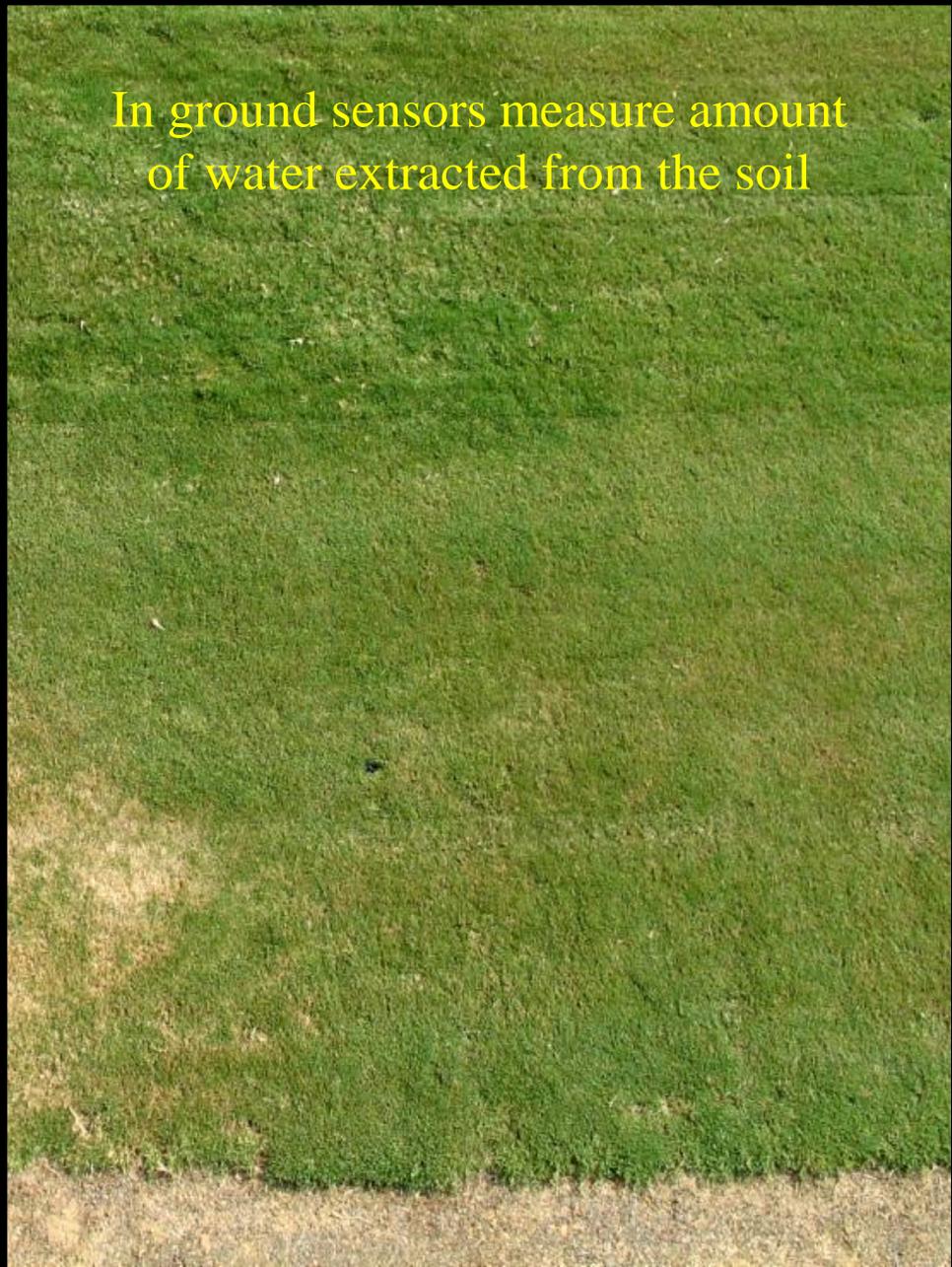


TIF TUF™

CERTIFIED BERMUDAGRASS



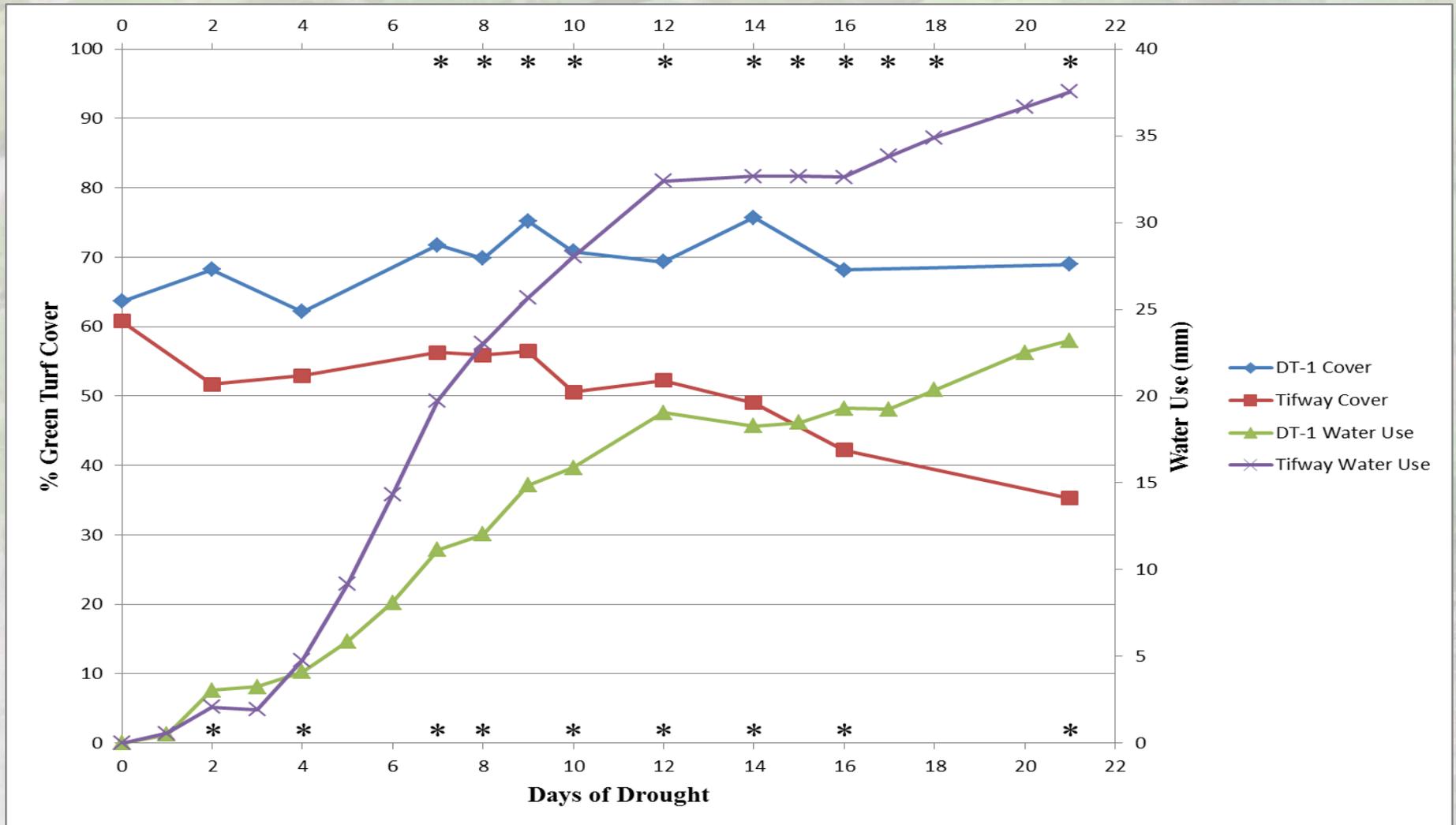
Tifway



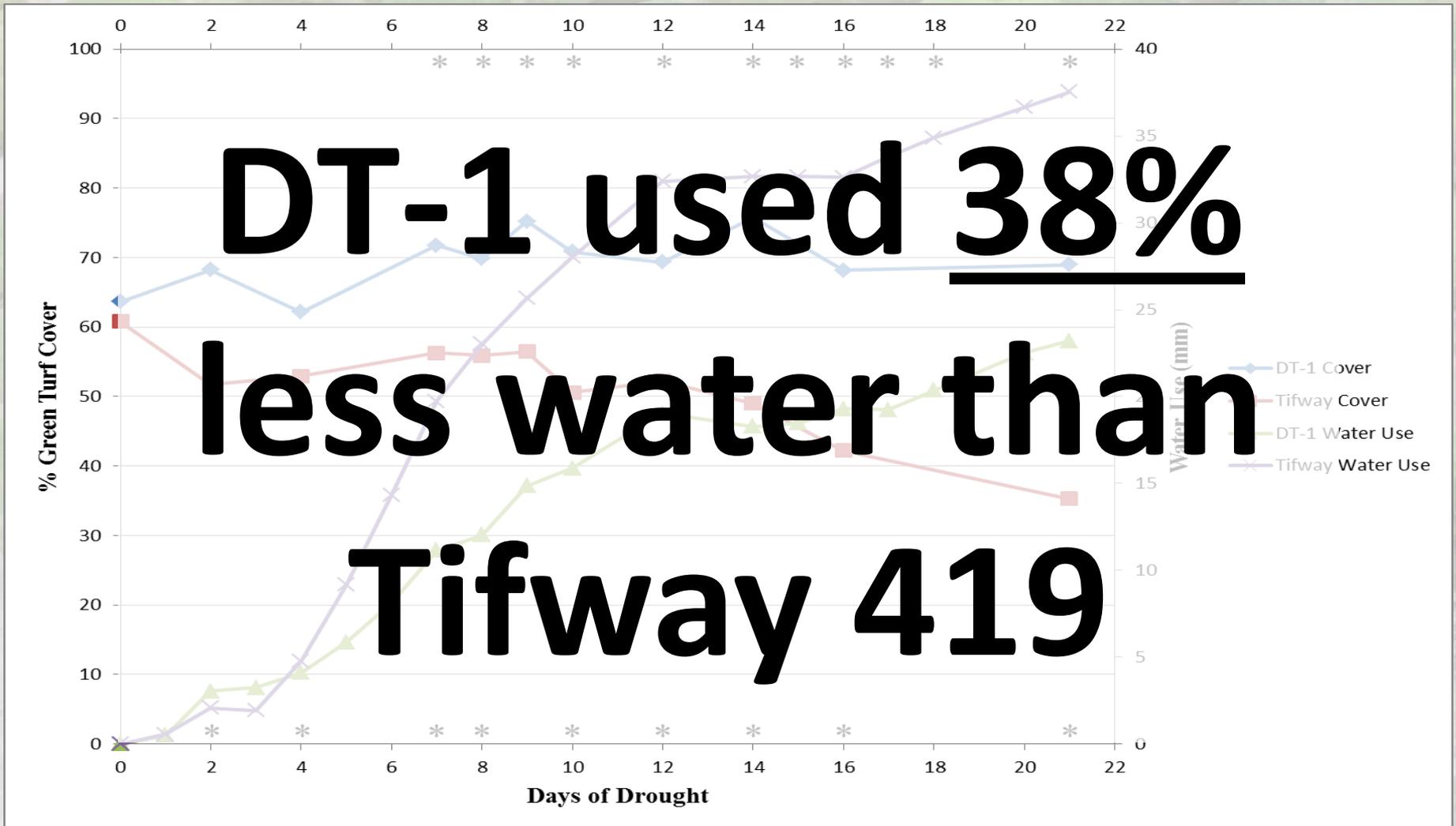
In ground sensors measure amount of water extracted from the soil

DT-1

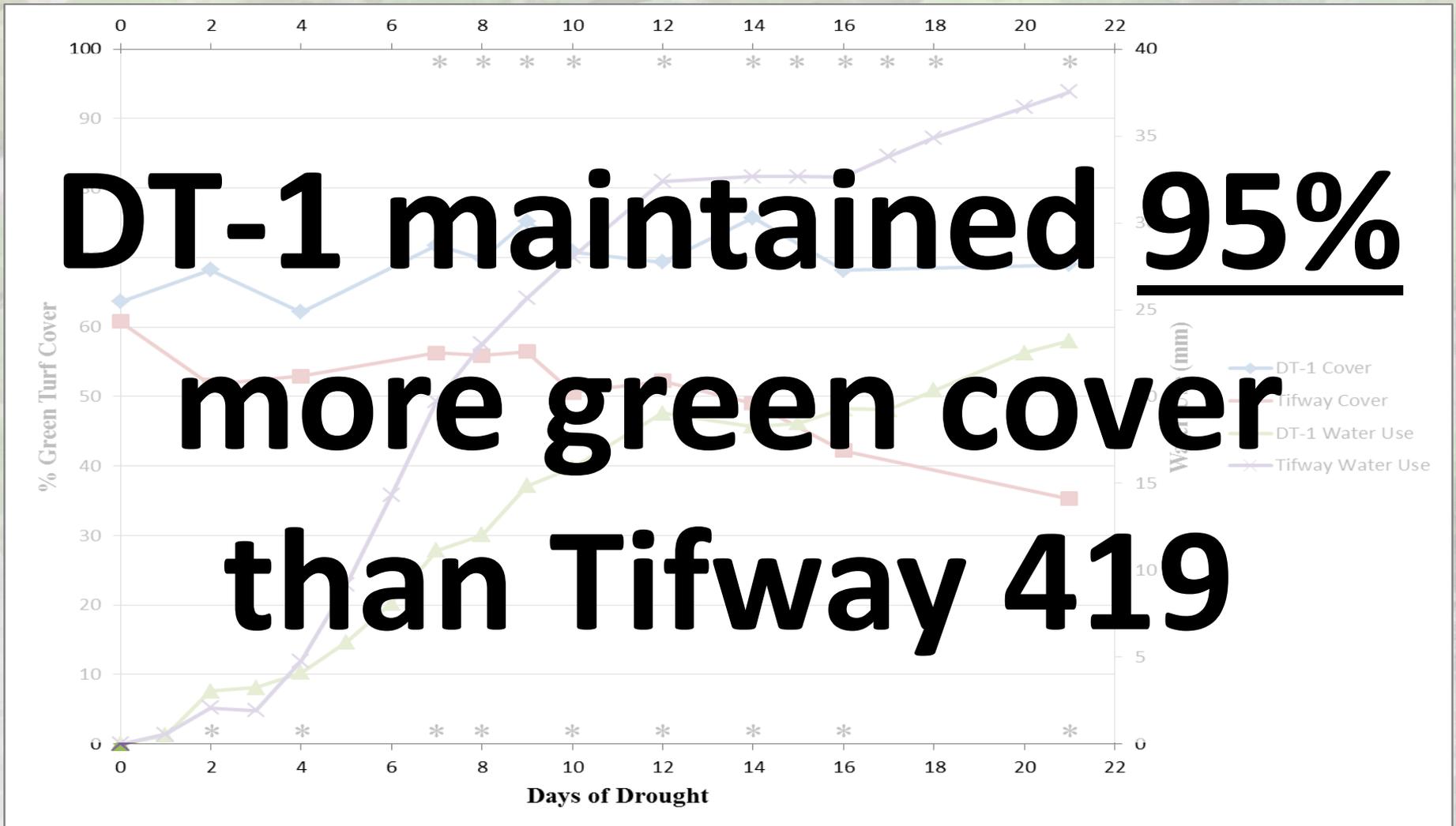
Short-Term Drought (Atlanta)



Short-Term Drought (Atlanta)



Short-Term Drought (Atlanta)



2010 USDA Trials



Tifway



Celebration



Latitude 36



DT-1

Long-Term Drought (Florida)

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.

Genotype	Irrigation level (% ET ₀)								Average
	120	105	80	54	37	25	13	3	
	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

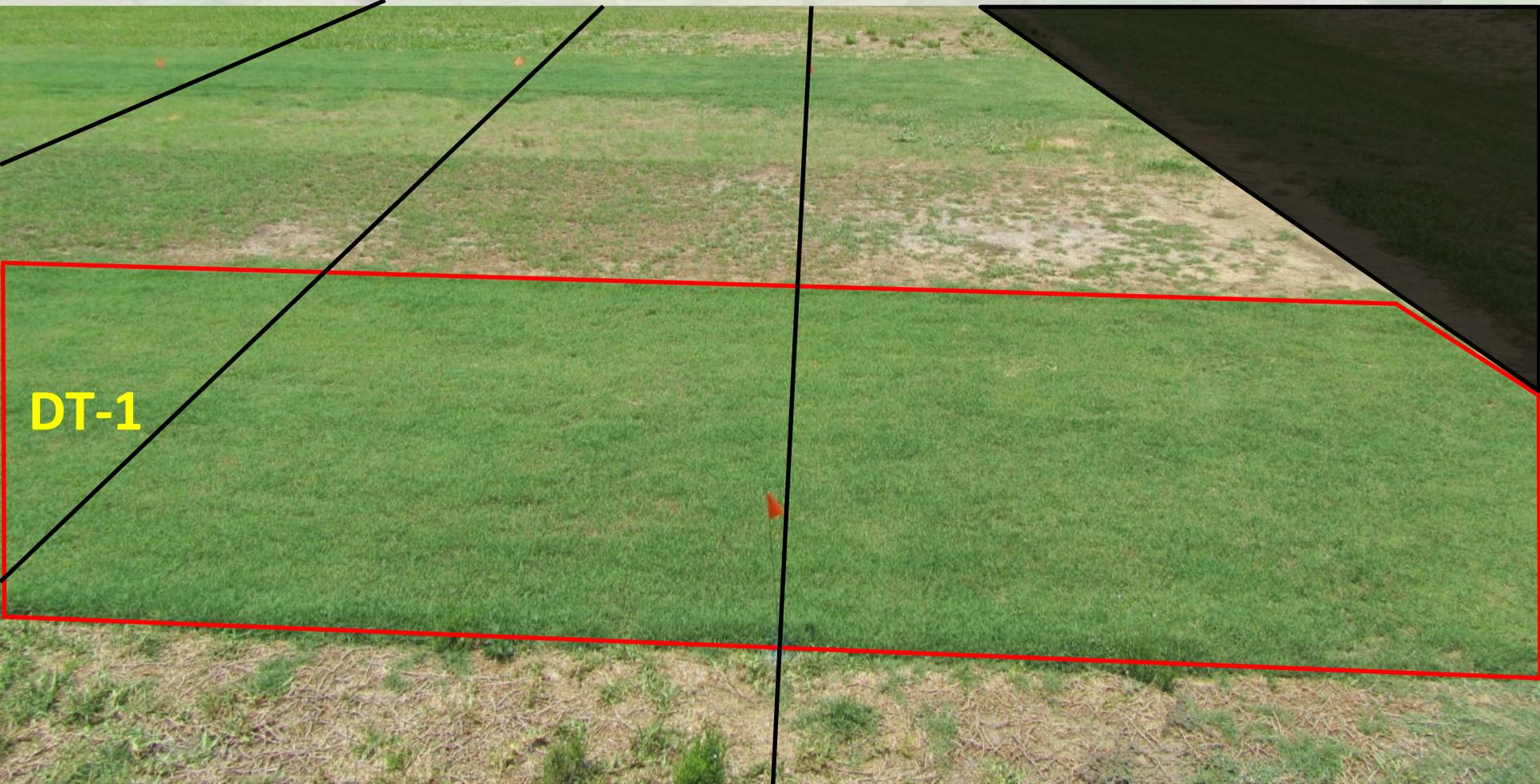
¹Field trial planted during 2010.

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 ($P \leq 0.05$).

Long-Term Drought (Florida)

University Drought Trial during 2011 in Florida



Long-Term Drought (Florida)

Celebration



TifTuf (DT-1)



TifTuf vs Tifway 419 water savings example



Calculations:

16,200 sq ft = 2,332,800 sq inches
 $\frac{1}{2}$ inch average irrigation = 1,166,400 cubic inches / week
231 cubic inches / gallon = 5,049 gallons / week
at 52 weeks = 262,566 gallons per year to irrigate Tif 419 lawn
50% less water used with TifTuf Bermuda = 131,283 gallon water savings per year

Home Lawn:

*16,200 square feet

Water Savings:

*131,283 gallons/year

* Assumes:

Square footage equal to 2 full truck loads of turf

* Assumes:

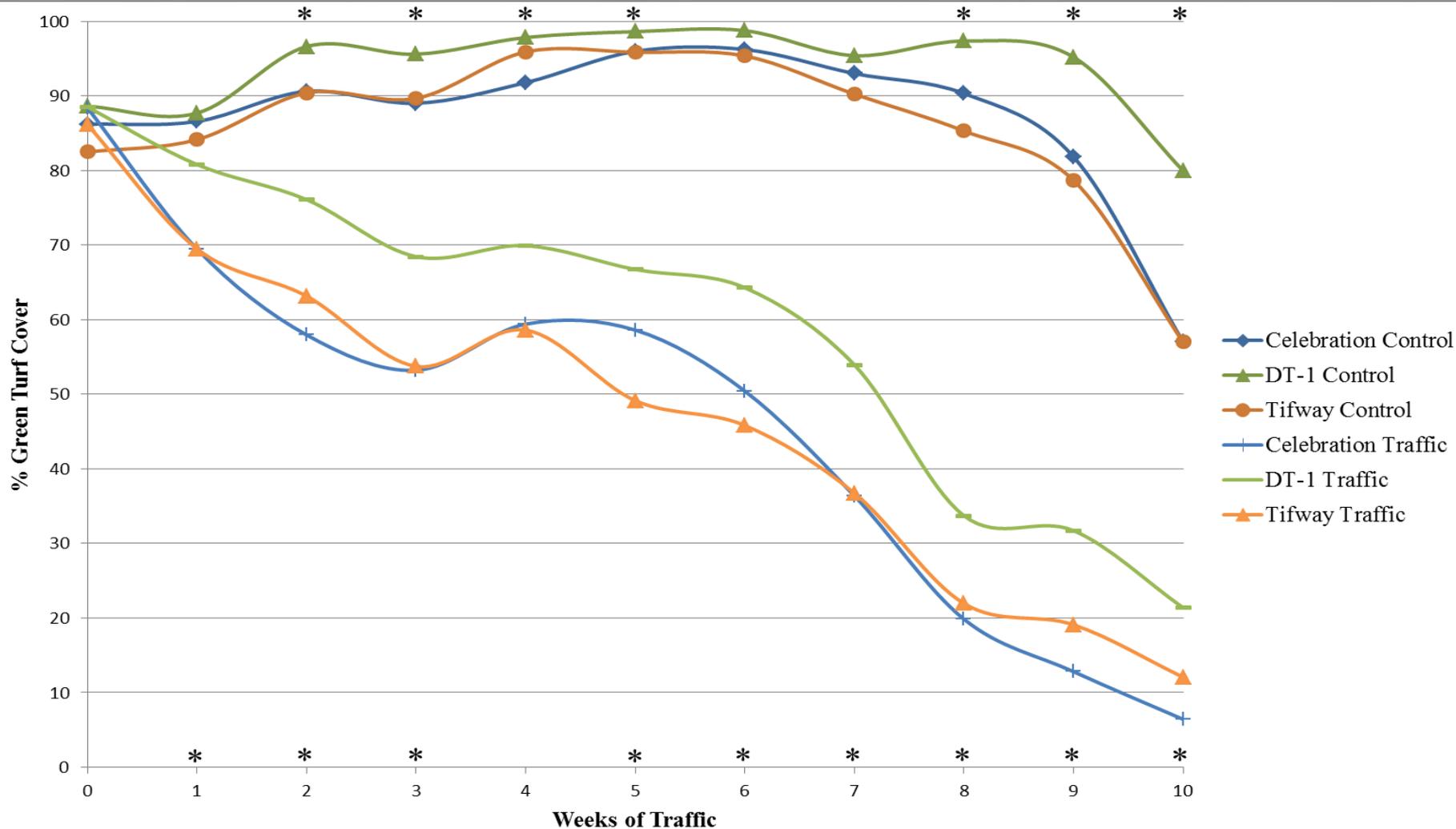
Average Irrigation rate of $\frac{1}{2}$ inch per week for Tif 419 Bermuda, and a 50% water savings for TifTuf vs Tif 419 (50% estimated water savings based on 38% less water used in drought studies, while maintaining 95% more green cover)

Wear Trials

A person wearing a plaid shirt and blue jeans is operating a red Ryan riding mower on a green golf course. The mower is moving from left to right, leaving a trail of cut grass behind it. The background shows a clear sky, some trees, and a white building in the distance.

University Trials during 2012 in Georgia

Wear Trials



Results

- Highest traffic tolerance 2014

1. DT-1

2. Astro

- Lowest traffic tolerance 2014

1. NuMex – Sahara

2. OKS 2009-3

3. Tifway

Establishment Trials

(2011, 2012, & 2013)

Grass	Establishment ¹		
	South ²	North ³	All
	% green cover		
TifTuf (DT-1)	58 a ⁴	75 a	69 a
Tifway	31 b	48 c	42 b

¹Turfgrass establishment was visually rated on a 1-100% scale during year 1 of both trials.

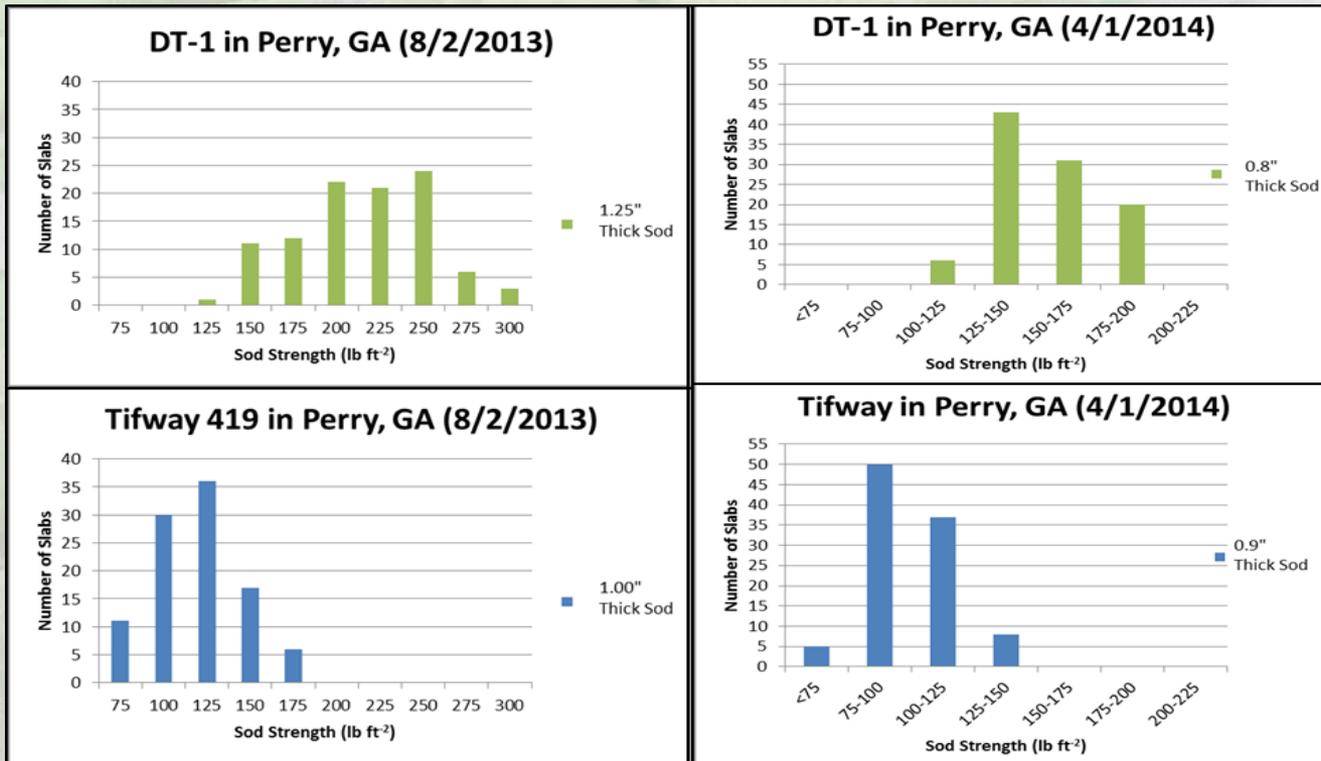
²Testing locations were in College Station, TX, Gainesville, FL, and Tifton, GA.

³Testing locations were in Dallas, TX, Griffin, GA, Raleigh, NC, and Stillwater, OK.

⁴Means within columns followed by the same letter are not significantly different according to Fisher's LSD ($P \leq 0.05$).

The faster initial growth rate of TifTuf highlighted in this trial will also translate into faster regrowth in recovery from wear on athletic fields.

Sod Strength Trials



The greater sod strength, due to a denser root structure, shown in this trial, allows TifTuf (DT-1) to hold a block consistently.



Shade Trials

Home Lawn Trials during 2013 in Georgia

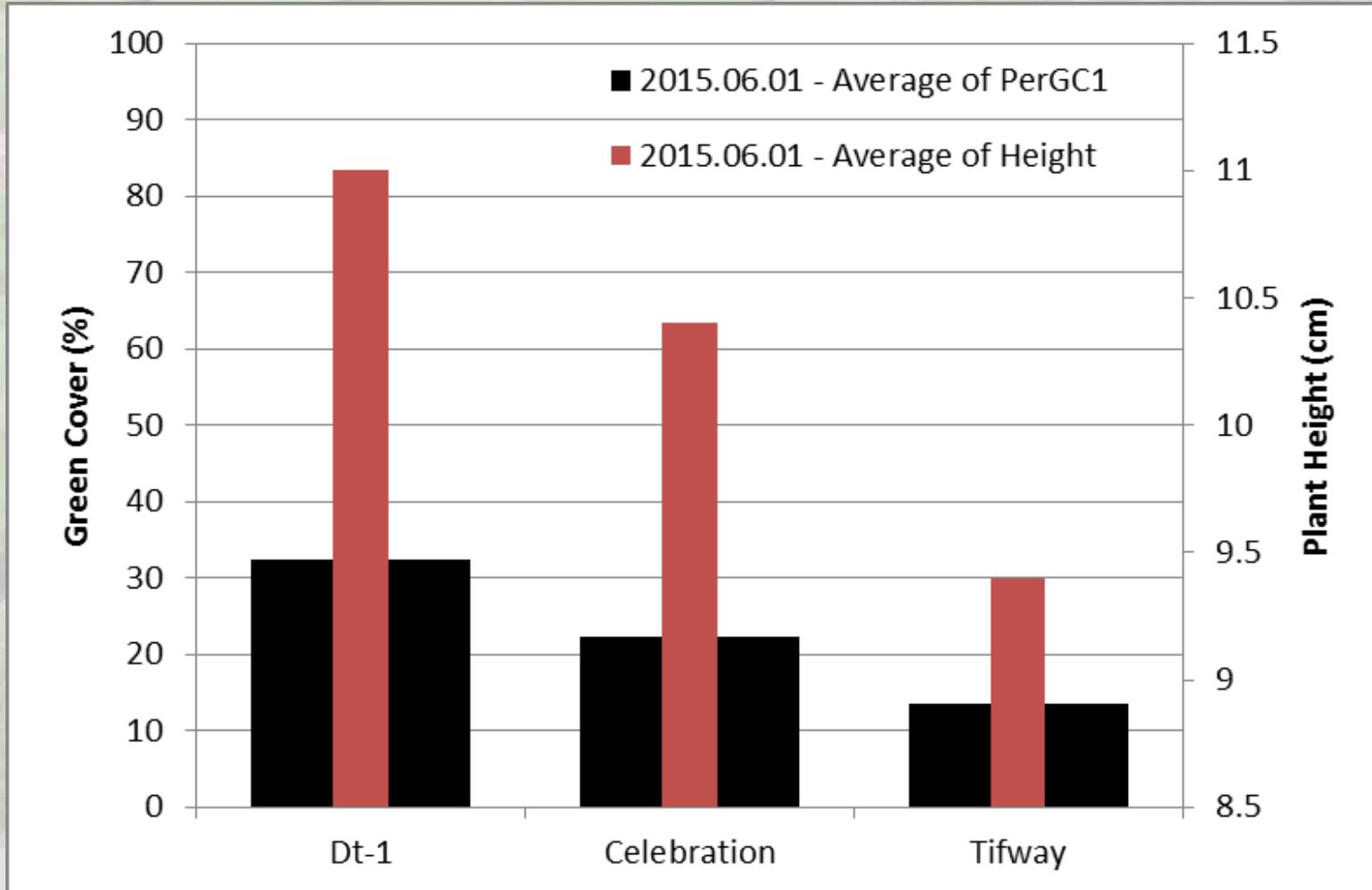


Shade Trials

Home Lawn Trials during 2014 in Georgia

Bermudagrass Shade Trial

2015 Tifton (June)



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.

Genotype	Turf cover ²			
	Estab.	Green-up	Summer	Dormancy
		% green cover		
DT-1	44 b³	75 a	91 a	65 a
Celebration	55 a	62 b	89 a	26 b

TifTuf holds its color, even under the extreme heat of South Texas summers

TifTuf (DT-1) Bermuda



Tifway 419 Bermuda



TifTuf and Tif419 pictured here on the same farm near Jourdanton TX, with the same irrigation rate, during extremely hot conditions in late July

TifTuf (DT-1) Bermuda



Tifway 419 Bermuda



TifTuf and Tif419 pictured here on the same farm near Jourdanton TX, with the same irrigation rate, during extremely hot conditions in late July

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.

Genotype	Turf quality ³			Turf cover ⁴		
	April	June	Oct. ¹	April	June	Oct.
	Visual rating			% 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

TifTuf has better color retention in Fall / Winter

Tifway 419 Bermuda



TifTuf (DT-1) Bermuda



Tifway 419 and TifTuf pictured here on the same farm near Jourdanton TX during the first week of January 2016

TifTuf Bermuda (DT-1)

- Superior hybrid cross from (4x) by (2x) parents which has been tested for over 22 years
- More **drought tolerant** than Tif419, Celebration, Latitude 36, and Tahoma 31
- Better establishment and cover than Tif419
- Superior traffic tolerance than Tif419 or Celebration
- Higher sod strength than Tif419 in the Spring and Fall
- Faster Spring green-up than Tif419 and Celebration
- Greater color retention than Tif419 and Celebration during the onset of fall/winter dormancy