

2014 Texas A&M Water Use Efficiency Trial

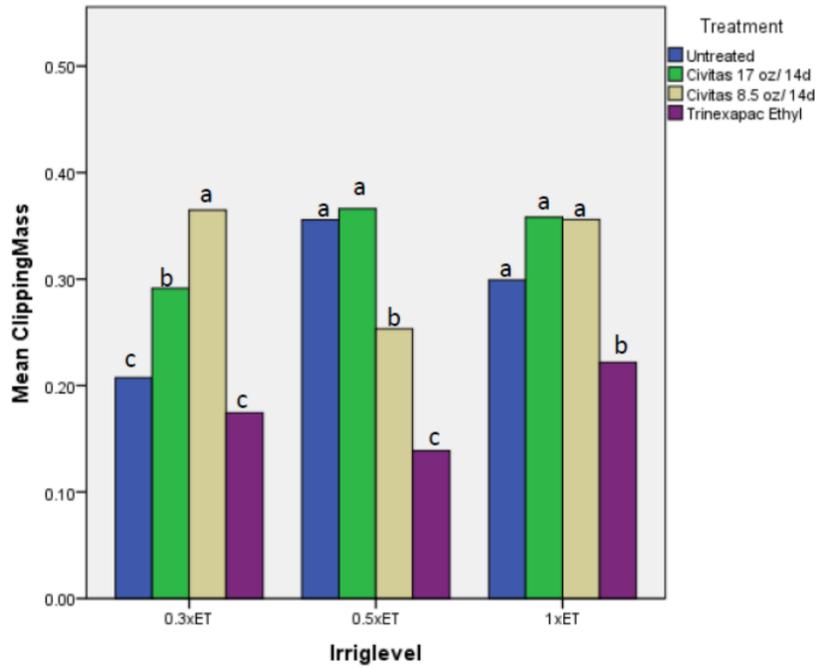
Synopsis

Field trial aimed at evaluating the performance of bermudagrass treated with CIVITAS TURF DEFENSE Pre-M1xed under various levels of deficit irrigation stress. Applications were made at 14 day intervals throughout trial. CIVITAS TURF DEFENSE Pre-M1xed treated turf under severe deficit irrigation, sustained turf growth to a level comparable to that of non-treated plots under mild deficit irrigation. CIVITAS TURF DEFENSE Pre-M1xed treated turf also maintained significantly high percent green cover relative to non-treated controls.

Water Use Efficiency Study

- Applications were made to bermudagrass grown in a greenhouse and maintained at 0.6" Height Of Cut (HOC)
- Irrigation stress levels:
 - Non stress: full irrigation 1.0 x actual evapotranspiration (Eta)
 - Moderate stress: 0.5 Eta
 - Severe stress: 0.3 Eta
- Foliar biweekly spray applications: First applications June 27/14.
 - Non-treated (water only)
 - CIVITAS ONE 17 oz
 - CIVITAS ONE 8.5 oz
 - Trinexapac ethyl 0.5 fl oz
- Fertility
 - Upper 3 inches of sand was premixed with 21-7-14 fertilizer at a rate of 9.8 g N/m², evenly divided between Sulfur Coated Urea and urea.
 - Granular micronutrients were also applied to the upper 3 inches of sand at a rate of 100 g/m².

Water Use Efficiency Study: Mean Weekly Shoot Growth



Water Use Efficiency Study – % Green Cover

