Daily Sunlight Requirements for 'TifEagle' Bermudagrass Golf Greens. (C05-bunnell094538-Oral)

Authors:

- B.T.Bunnell - *Clemson University*
- L.B.McCarty - *Clemson University*
- J.E.Faust - *Clemson University*
- N.C.Rajapakse - *Clemson University*
- W.C.Bridges - *Clemson University*

Abstract:

Bermudagrass golf greens are often partially surrounded by trees or other shade creating environments. Previous research has demonstrated reductions in dry matter, rooting, rhizome production, and carbohydrates in warm season grasses responding to shade and reduced photosynthesis capacity. Relationships between shading and reduced plant growth have been well documented with pasture type bermudagrass, however limited research exists on the newly developed dwarf type varieties used for golf greens, athletic fields, and other applications. This research will determine the mol quantity and diurnal fluctuations of sunlight necessary to sustain dwarf type bermudagrass golf greens. Results discussed will include total plant chlorophyll, non-structural carbohydrates, lateral shoot regrowth, shoot height, and visual quality.

Corresponding Author Information:

B. Todd Bunnell
Clemson University
D-136 P and A Building
Clemson, SC 29634-0375

phone: 864-656-6365
fax: 864-656-4960
e-mail: btbunne@clemson.edu

Presentation Information:

Presentation Date: Monday, November 11, 2002
Presentation Time: 9:30 am

Keywords:

bermudagrass, sunlight, shade, chlorophyll