RAPD Analysis of Annual Bluegrass Biotypes. (C05-woosley125408-Oral)

Authors:

- P.B.Woosley - *University of Kentucky*
- D.Williams - *University of Kentucky*
- T.Phillips - *University of Kentucky*
- A.J.Powell - *University of Kentucky*

Abstract:

Annual bluegrass has become the greatest weed problem in cool-season golf turf in the transition zone. Annual bluegrass is a genetically diverse species and exists in golf putting greens, fairways, and roughs. The objective of this research was to determine genetic diversity among genotypes taken from golf putting greens, fairways, and roughs. Annual bluegrasses were collected for RAPD analysis. Five primers that produced 22 RAPD bands were chosen for analysis. Plants taken from golf fairways and roughs showed more diversity than putting green plants. A number of genotypes taken from roughs were similar to putting green genotypes. These results indicated a stronger selection pressure in putting greens compared to fairways and roughs. However, a number of genotypes may exist across all golf course environments.

Corresponding Author Information:

Paul Woosley
University of Kentucky
1503 Thames Dr.
Lexington, KY 40517

phone: 859-257-5018
e-mail: pbwoos0@uky.edu

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