

Five experimental seeded strains from the New Mexico State University breeding program were entered in a National Bermudagrass Test administered from Beltsville, Maryland. These tests were established in many states in the South and along the transition zone. Results from those tests will be valuable to the breeding program in indicating breeding progress and in determining where continued selection pressure is needed.

NORTH CAROLINA STATE UNIVERSITY - Dr. Leon T. Lucas  
Principal Investigator

Spring Dead Spot Disease

1986 Grant - \$10,000 [second year  
of three year study solely supported  
by contributions from Mr. Hall Thompson,  
Shoal Creek, Alabama]

A post doctorate position was accepted in August, 1986 by Dr. Bert McCarty to intensify investigations in this research project. Since that time, fungicide and fertility evaluation for Spring Dead Spot control has been undertaken. Three sites in the southeastern United States have been treated with several fungicides and fertilization sources for potential disease control. Disease control evaluation will be made in the spring of 1987.

Fungicide/fertility evaluation on increasing low temperature hardiness of Tifway bermudagrass is also underway. Several fungicides and fertilization sources have been applied to Tifway bermudagrass. Plugs will be extracted from these areas during the fall, winter, and spring, and subjected to artificially induced cold temperatures to determine treatment effects on bermudagrass winter hardiness.

Isolation of the Spring Dead Spot causal organism[s] is planned. Several selected media and baiting techniques are currently being used to try and isolate the SDS causal organism[s]. Isolation attempts will be during the fall and winter, 1986 as well as spring, 1987.

OHIO STATE UNIVERSITY - Dr. Karl Danneberger  
Principal Investigator

Mechanisms for Heat Tolerance  
in Annual Bluegrass

1986 Grant - \$15,000  
[first year of support]

Twenty-five Poa annua biotypes collected from the continental United States were screened for high temperature tolerance. A 12°C difference