

December 1, 1984

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SGA

USGA GREEN SECTION

1984 SUMMARY OF RESEARCH REPORTS

THE UNIVERSITY OF GEORGIA - Dr. Glenn W. Burton, Principal Investigator

1984 Grant - \$5000 (ongoing since 1956)

The main objective in this bermudagrass breeding project is the development of more winter hardy triploid hybrids. One way to achieve this is to cross our known winter hardy tetraploid selections collected in Berlin, Germany and the most winter hardy Cynodon transvaalensis that can be found. Efforts to obtain additional C. transvaalensis from South Africa have failed. This fact means we have only 10 different clones of C. transvaalensis that Dr. Burton increased and sent specimens to Michigan State and Rutgers in 1983. One clone survived the Michigan winter and several survived the New Jersey winter. The New Jersey information was received early enough in 1984 to permit a number of crosses with the winter hardy Berlin bermudas this year. However, because these crosses are difficult to make, results will not be known until December, 1984 or early in 1985.

The triploid bermudagrass Midiron is reported to be more winter hardy than any of the Tifton triploids, but has a more "open" growth habit. Midiron dormant sprigs have been irradiated and 67 mutants selected. These were field planted last spring and evaluated this past summer. Preliminary observations suggest that some of the mutants will make better quality turf than Midiron. These will eventually be winter tested and it is hoped some will have retained the greater winter hardiness of Midiron.

MICHIGAN STATE UNIVERSITY - Dr. R. Chapin & Peter LePoer, Principle Investigators

Turfgrass Information File

1984 Grant - \$96,326 (started April, 1984)

Michigan State University will acquire, maintain, and preserve all appropriate printed and processed materials reporting on research related to turfgrass growth, development, and maintenance. Developing the collection is part of the responsibility of the project manager, Peter LePoer, who was hired