

A final field study was designed to determine the effects of flurprimidol, a plant growth regulator which is claimed to give a competitive advantage to creeping bentgrass, on the rate of spread of creeping bentgrass. Results are preliminary but seem to indicate that flurprimidol does not encourage the spread of creeping bentgrass in an annual bluegrass turf.

UNIVERSITY OF MINNESOTA - Dr. Donald B. White,
Principal Investigator

Breeding of Poa annua for Improved Cultivars

1985 Grant - \$15,000 (Second year of support)

During 1985 new accessions were added to the germplasm collection from Arizona, California, Illinois, Michigan, Missouri, New Jersey, Minnesota and several European locations.

Evaluation of first and second generation selections continued and included a spaced planting in the field of representatives of 145 selections.

Several investigations into stolon propagation and storage resulted in the development for inducing flowering, storage of stolons, and evaluation of rooting habit. Investigations were also initiated regarding the modification of tissue culture for somaclonal variation.

The first field planting from stolons of superior selections was established and the first selections from the F1 generation of a 16B clone parent has been identified.

Crossing, selfing, evaluations, selection, seed harvest and data collection continue.

In 1986 we plan to continue research in the following areas:

1. Selfing, crossing and selection programs;
2. Self-incompatibility;
3. Tissue culture including efforts investigating possibilities for somaclonal variation;
4. Flower suppression and improved methods of emasculation;
5. As activities permit, increase the 16B selection for testing and evaluations at the University of Minnesota and other sites.