

PROJECT: Investigations of "The Effect of 2,4-D on Various
Species at Different Stages of Seedling Growth - Fellowship

Duration: 2 years (1956-1957)

Station: Penn State University

Total of USGA Support: \$3,800

Specific Accomplishments:

1. Results of the study are published in a 75 page report.

Some of the chief findings were:

- a. Fall applications of 2,4-D produced least injury to all seedlings and spring applications were slightly more harmful than summer treatments.
 - b. Kentucky bluegrass seedlings tolerated a 1 lb. per acre application of 2,4-D at the age of 4 weeks. Tolerance ages for red fescue and colonial bentgrass were 6 and 10 weeks, respectively.
 - c. When 2,4-D was sprayed on foliage and soil, injury was greater than when only foliage was sprayed.
2. This fellowship provided support for a graduate student in turf management. The student, Dick Schmidt, is presently engaged in turf research at V.P.I.