

BELTSVILLE TURF GARDENS
United States Department of Agriculture
Plant Industry Station
Beltsville, Maryland

United States Department of Agriculture, Bureau of Plant Industry, Soils and
Agricultural Engineering
and

United States Golf Association Green Section
Cooperating

Project Workers

United States Golf Association Green Section

F. V. Grau, Director
M. H. Ferguson, Agronomist in Charge of Research
C. G. Wilson, Agronomist
A. M. Radko, Technical Assistant
J. M. Wilfong, Field Superintendent

Bureau of Plant Industry, Forage Crops and Diseases

W. M. Myers, Head
Ian Forbes, Jr., Agronomist

Projects

Critical studies on the nutritional requirements of zoysia in relation to seed production and turf quality. (Greenhouse studies supplemented by field plot work.) It is planned to continue similar studies on other grasses (bent, bluegrass, bermudagrass, fescues).

Studies on management of zoysia turfs in relation to:

Seed yields

Adaptation to varying turf uses

Ability of different zoysia strains to associate harmoniously with various cool-season grasses

Ease of harvesting seed as affected by different types of management

Study of planting methods for zoysia (vegetative and by seed)

Methods of harvesting zoysia seed

Method, dates, and rates of seeding zoysia

Studies to determine the optimum storage conditions for zoysia seed

Management studies on U-3 bermudagrass to learn reaction to:

Fertility levels

Heights of cut

Methods of planting

Association with cool-season grasses

Evaluation of bentgrasses from seed and from stolons under varying management conditions for fairways and lawns

Evaluation of selections of bentgrasses for quality factors for use on putting greens and fairways

Evaluation of Merion (B-27) bluegrass and common bluegrass alone and in combination with other grasses

Studies on the value of tall fescues alone and in mixtures

Studies of nurse grasses and their effects on permanent species

Evaluation of turf produced from seed of Z-52 strain of Zoysia japonica
Production of nursery stock of improved strains of grasses by vegetative propagation
Study of bermudagrass strains in association with bluegrass turf
Evaluation of red fescue strains in cooperation with Pennsylvania Experiment Station
Traffic tests on various turf
Studies of water relations in various sand-vermiculite mixtures (for possible use in putting greens)
Studies of Ureaform materials on Alta fescue turf

Much practical work is being done through cooperation with the Grounds Committee of the Plant Industry Station. These projects furnish information to augment that gained through research projects.

In addition to the projects listed above there is an additional group of cooperative projects which are primarily the responsibility of the Division of Forage Crops and Diseases.

Selection and breeding of improved strains of zoysia
Selection and breeding of improved strains of bluegrass

Publications During 1949

Numerous articles have been published by the Green Section Staff during 1949.
Journals in which articles have been published:

What's New in Crops and Soils
USGA JOURNAL
Golfdom
Greenkeepers Reporter
American Cemetery Association News