

Turfgrass germplasm collection trips were made to California, Kentucky and Texas to obtain selections with resistance to summer stress conditions and to assess the range of genetic variability present in our important cool-season turfgrass species.

Commercial seed of Yorktown II perennial ryegrass and Sabre roughstalk bluegrass was first harvested in 1977. Sabre is a somewhat darker green, somewhat lower-growing turf type variety of *Poa trivialis* that has shown promise for winter overseeding of southern turf and improved performance in shade. Yorktown II has shown substantial improvements in summer performance compared with the original Yorktown variety.

TEXAS A&M UNIVERSITY - Dr. Kirk W. Brown and Dr. Richard L. Duple, Project Leaders

Funds Granted - \$4,000 — Support of Soil Testing Laboratory for Recommending Soil Mixtures for Putting Greens Built to USGA Green Section Specifications.

One hundred seventy-nine samples were run through this year, some 40 less than last year. This is due mainly to the reduction in new course construction during the last year. The laboratory is now housed in a new building, some new equipment has been obtained, mainly a new waterbath for particle size analysis and a binocular microscope to determine the shape of sand particles. The latter is used mainly to evaluate bunker sands.

<u>Type of Analysis</u>	<u>Number Analyzed</u>
Complete soil analysis including the total USGA testing procedure on one sand, one soil, and one organic matter	36
Mechanical analysis (particle size) of individual sand or soil sample	50
Assay of organic amendment sample, including ashing	10
Chemical analysis, pH, P, K, and total salts	14
Analysis of a mixture for particle size, bulk density, pore distribution, infiltration rate, and 40 cm water retention	66
Special analyses	1
Nematode tests	2
Total	<u>179</u>