1987 Summary Report to
United States Golf Association
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Colonial Bent Various media are being assessed to induce callusing of microspores in haploid culture with limited success to date; media types being expanded. Morphological study in progress to follow anther development with technique established for fixing and microtome sectioning of paraffin embedded material.

Screened approx. 13000 selfed, and 18000 open pollinated colonials for rhizome development with 1st to 4th generation material, with selected material nursery planted for further selfing or crossing in 1988.. In 1987 seed was harvested from 87 early rhizome forming types, 24 new 1st gen. selections, 600 selfed and open pollinated plants being selected for rhizome formation, and 460 colonials which survived Phialophora and Leptophaeria screening.

Creeping Bent Approximately 500 creepers from commercial and experimental lines surviving above patch disease organisms were individually harvested for further screening.Also harvested for further assessment were 13 early maturing lines in hopes of spreading harvest dates in production fields to avoid weather disasters as happened in 1984,and 1st gen Penncross reselections from northern and southern areas, respectively. Multiple generation material from several generations of reselection were also harvested in preparation for turf quality screening, as well as over 100 European source creepers.

Fall applications of Poa control chemicals, mostly growth regulators, were applied to 1/2" triplex mowed bents. Clipping removal and non-removal variables have been in effect for 15 months.

Fall plots were established to evaluate non-certified Penncross bent with significant differences already evident. Laboratory electrophoresis analysis is being conducted simultaneously.