

Stop 7 Continued

1963 Bentgrass Variety Evaluations. Dormant Planting in Late Fall of 1961.

Entry	Variety	Quality Rating (1-best,9-poorest) Ave. of 4 ratings	Density 10/12/63 (leaves per 2 sq. in.)	Yellow Tufts (1-least, 9-most)	Thatching (puffing) (1-least, 9-poorest)	Spring Greenup 4/2/63 (1-best 9-poorest)
1	Cohansey (C-7)	1.6	206	1.0	1.3	2.2
2	Congress. (C-19)	1.9	204	1.0	1.0	3.8
3	Toronto (C-15)	2.2	237	2.0	2.7	2.2
4	Wash. (C-50)	5.2	149	3.0	1.0	6.5
5	Penncross	2.5	165	6.3	1.3	2.5
6	Seaside	3.4	187	2.7	1.3	3.4
7	Astoria	5.4	183	3.7	1.0	6.0

Cohansey, Congressional, and Toronto rank as the best vegetative bentgrasses through the initial two years. If not managed properly Toronto will have a tendency to thatch and become puffy. Penncross ranks as the outstanding seeded bentgrass.

Evansville, a new release from Purdue, proved highly susceptible to snow mold. Nimisilla, a private selection from Ohio, was severely thinned by an unidentified soil pathogen in June, 1963, and is not in acceptable playing condition. Prior to the incidence of disease, Nimisilla had ranked with Cohansey and Toronto. Iagreen shows extensive thatching tendencies.

Bentgrass Strain Evaluations - Thirty-three experimental selections in 4' x 4' plots. Holfiar, a colonial bent from the Netherlands, shows promise. Note the performance of roughstalk bluegrass, red fescue and highland bentgrass under 1/4 inch mowing.

STOP 8

Dr. Ray Cook

Putting Green Soil Mixture Studies in Review - Forty-eight mixtures are being compared for turf quality, soil moisture relationships, and soil aeration. This study was initiated in the fall of 1961 using Cohansey bentgrass.

Varying ratios of coarse sand, fine sandy loam, and peat furnished the basic materials. Several inert substances were individually added to specific plots. These include ground brick and tile, screened cinders, calcined clay, and zonolite. Data on soil moisture and oxygen diffusion are being gathered but are not yet processed. To date, only observations can be offered from these tests. Coarse sand is not desirable, fine sand alone is inferior but is better than coarse sand alone, and fine sandy loam, alone or mixed in to the extent of 1/3 the volume, is maintaining the turf. Coarse sand should probably not occupy over 1/4 to 1/3 the volume. The effect of peat is not outstanding.