

STOP 3

J. M. Vargas

Bentgrass Variety Evaluations for Fairways and High Quality Lawns.

The same 18 bentgrass varieties as previously included in the greens evaluation studies are also utilized in this fairway-high quality lawn evaluation experiment. The experimental area is mowed 3 times per week at a cutting height of 0.5 inch with clippings removed. Split-plot nitrogen applications at rates of 4 and 7 lbs per 1000 sq. ft. per year are applied across the plots.

Although the same varieties, Toronto, Cohansey and Penncross, rank higher in terms of visual surface quality ratings, they have been characterized by problems with excessive thatch and puffiness (Table 4). This is a typical problem that occurs when the more vigorous varieties are cut at higher heights. Actually, the less vigorous varieties that have a reduced thatching tendency are generally preferred for turfs maintained at this higher height of cut. Seaside is one of the preferred varieties in this category followed by Astoria. Exeter and Highland have ranked at the bottom in most evaluations over the initial three growing seasons.

Application Frequency of Tersan 1991 for Sclerotinia Dollar Spot Control.

This study was initiated to determine if the normal spray interval of 10 to 14 days for a contact fungicide could be extended when the systemic fungicide Tersan 1991 is used. This data shows that the initial application of Tersan 1991 on May 8 at all rates tested held the dollar spot in check for approximately 2 months (Table 5). A second application was made on July 17 when some dollar spot symptoms began appearing in the Tersan 1991 plots. This second application controlled the dollar spot disease activity for an additional two months.

Table 4. BENTGRASS VARIETY EVALUATIONS FOR FAIRWAYS AND HIGH QUALITY LAWNS.

East Lansing, Michigan

Bentgrass Variety	Visual Turfgrass Quality Rating* (1-Best; 9-Poorest)
Toronto	2.3
Emerald	2.3
Nr. 42-23	2.4
MSU-38-Ap	2.6
Cohansey	2.7
Kingston	2.7
Pennpar	2.8
Penncross	2.9
MSU-18-Ap	3.1
MSU-28-Ap	3.1
Holfior	3.3
Seaside	3.4
Astoria	3.5
Brabantia	3.6
Boral	3.6
Bt 806 Browntop	3.7
Exeter	3.8
Highland	4.3

*Average of six seasonal ratings.

Table 5. 1970 SCLEROTINIA DOLLAR SPOT CONTROL STUDY ON A TORONTO CREEPING BENTGRASS GREEN.

East Lansing, Michigan

Fungicide Treatment	Application Rate oz/1000 sq. ft.	Total number of spots*				
		5/8***	6/22	7/1***	8/14	9/18
Tersan 1991	8 oz	0	0	11	0	0
Tersan 1991	4 oz	0	0	8	0	0
Tersan 1991	2 oz	0	3	24	0	0
No Treatment	---	0	345**	460**	550**	600**

*Each figure is the total number of spots in 3 replications; the individual plot size was 8 x 8 feet or a total of 192 sq. ft.

Estimation. *Dates treatments were applied.