

Postemergence Smooth Crabgrass Control

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Introduction

Postemergence control of smooth crabgrass (*Digitaria ischaemum*) was evaluated on a mature stand of 'Jet Elite' perennial ryegrass (*Lolium perenne* L.), at the Valentine Turfgrass Research Center, Penn State University, University Park, Pa. The objective of the study was to determine the efficacy of selected herbicides for the postemergence control of smooth crabgrass.

Methods and Materials

This study was a randomized complete block design with three replications. Treatments were applied on June 12, 2005 using a three foot CO₂ powered boom sprayer calibrated to deliver 40 gpa using two, flat fan, 11004 nozzles at 40 psi. The site was mowed once weekly with a rotary mower at one and one half inches with clippings returned to the site.

Results and Discussion

The control of smooth crabgrass was rated once during the study (Table 1). Acceptable smooth crabgrass control (85% or greater) was found only for turfgrass treated Drive at 0.75 lb ai/A plus MSO at 1 %v/v.

Table 1. Evaluations of the percent control of smooth crabgrass taken in 2005. Commercially acceptable control was considered to be 85% and above.

Treatment	Form	Rate (lb ai/A)	% Control- 8/8
DRIVE	75DF	0.75	75.0
DRIVE	75DF	0.75	68.3
MACROSORB FOLIAR	L	2 oz/M	
DRIVE	75DF	0.75	85.0
MSO	L	1 % v/v	
CHECK			0.0
DRIVE	75DF	0.75	81.7
MACROSORB FOLIAR	L	2 oz/M	
MSO	L	1 % v/v	
ACCLAIM EXTRA	0.57EW	20 oz/A	63.3
PENDULUM	3.8 C	1.5	

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