

Application of Provaunt and Talstar for Black Cutworm Curative Control in Creeping Bentgrass – 2006

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Objective:

The primary objective of this study was to describe the curative activity of Provaunt and Talstar against black cutworm larvae.

Rationale:

Black cutworms can be a serious pest of closely mowed turfgrass putting greens and tees. The availability of fast-acting, curative controls for this insect can make cutworm management more efficient by providing golf course superintendents the ability to respond to infestations quickly and effectively when they are first noticed. We evaluated the curative efficacy of two insecticides against the second generation of black cutworms occurring in Indiana in 2006.

How it was done:

The experiment was located at the W.H. Daniel Center for Turfgrass Research and Education, Purdue University (West Lafayette, IN) on a stand of creeping bentgrass maintained at putting green height. Plots measuring 5 x 5 ft were arranged in a randomized complete-block design with 1 ft alleys between plots. Each treatment was replicated 4 times. Liquid treatments were applied, 2006 using a hand-held CO₂ boom sprayer configured with four 8010 nozzles operating at 30 psi and calibrated to deliver a spray volume of 2 gal/1000ft². No post-treatment irrigation was applied for 48 hrs after treatment. Efficacy data were obtained at 3 and 7 DAT by soap flushing two 0.25 m² areas within each plot and counting the number of black cutworm larvae coming to the surface. Different sections of the plot were sampled on each of the two sampling dates.

Results:

Table 1. Efficacy of Provaunt and Talstar for curative control of black cutworm larvae in turfgrass. Applications were made on July 21, 2006 and efficacy was assessed at 3 and 7 days after treatment (DAT).

Treatment	Black Cutworms (% Control)	
	3 DAT	7 DAT
Provaunt 1.25SC @ 0.039 lb AI/A	77.8	100
Provaunt 1.25SC @ 0.054 lb AI/A	100	100
Talstar 0.67 SC @ 0.052 lb AI/A	100	100
Untreated Control	----	----

*There were no signs of phytotoxicity associated with any of the treatments