



2010 Insecticide Treatment Efficacy Trial –  
Riley Co., KS.

Jeff Whitworth, Holly Davis, Department of Entomology,  
Kansas State University

Pest: Black Cutworm, *Agrotis ipsilon*

Crop: Corn; 5 treatments

Location: North Agronomy Farm, Manhattan, Riley Co., KS

Planting Date: 10 June 2010

Plot Size: 4 row x 20 ft.

Experimental Design: Randomized Complete Block; 4 Replications

Information: 2 July, 2010: Plants (V5-V6) infested with two late 2<sup>nd</sup> -early 3<sup>rd</sup> instar black cutworm larva. One larvae was placed at the base of the plant, another was placed in the whorl of the plant  
17 July, 2010: Sprayed by hand sprayer with ca. 30 gal H<sub>2</sub>O/a. at 30 psi.

Phytotoxicity: None noted

Evaluation: Plants evaluated for cut plants and % feeding damage on 23 July:  
6 DAT (days after treatment)  
Plants evaluated for live larvae on 24 July (7 DAT) by examining the base of 5 plants / treatment

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**Evaluation Dates: 23, 24 July, 2010 (6-7 DAT)**

<b>Treatment/Product Name</b>	<b>Live Larvae/ 5 Plants (mean ± SE)</b>	<b>Percent Feeding Damage (mean ± SE)</b>	<b>Cut Plants (mean ± SE)</b>
F9045-3 @ 3.5 oz./acre	0.0 ± 0.0b	0.1 ± 0.02b	0.0 ± 0.0b
F9045-3 @ 4.5 oz./acre	0.0 ± 0.0b	0.07 ± 0.02b	0.0 ± 0.0b
Artic –Permethrin @ 4 oz./acre	0.0 ± 0.0b	0.07 ± 0.02b	0.0 ± 0.0b
Artic –Permethrin @ 2 oz./acre	0.0 ± 0.0b	0.07 ± 0.02b	0.0 ± 0.0b
Untreated	1.5 ± 0.3a	0.23 ± 0.04a	0.1 ± 0.1a

Means within a column followed by the same letter are not significantly different (P>0.05; PROC GLM; Mean comparison by LSD [SAS Institute 2003]).

Reference to specific products is provided solely for informational purposes. Experiments with pesticides on non-labeled crops or pests is part of the insecticide registration process, it does not imply endorsement or recommendation of non-labeled uses of pesticides by Kansas State University. All pesticide use must be consistent with current labels.

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