



2014 Sunflower Head Moth Foliar Treatment Efficacy Trial –  
Marion Co., KS

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

Pest: Sunflower Head Moth, *Homoeosoma electellum*

Crop: Sunflower; 11 treatments

Plot Size: 4 rows x 20ft.

Experimental Design: Randomized Complete Block; 4 Replications

Information: Sprayed by hand sprayer with ca. 20 gal. H<sub>2</sub>O/a. at 30 psi. on 31 July, 2014 – 100% bloom at time of application. 90°F with no wind. Sprayed Treatments 6 and 8 on 18 August.

Phytotoxicity: None noted.

Evaluation: Dissected 4 heads/ treatment and counted all larvae on 7 August (7 DAT). Dissected 2 heads/ treatment and counted all larvae on 16 August (16 DAT), 23 August (23 DAT). By 16 August larval #'s dropped dramatically, larvae pupating and many heads contained 0 larvae.

2014 Sunflower Head Moth Foliar Treatment Efficacy Trial –  
Marion Co., KS

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

**Evaluation Dates:** 7 August (7 DAT), 16 August (16 DAT), and 23 August (23 DAT),  
2014

Treatment/Product Name	Avg. SHM (mean ± SE)		
	7 August (7 DAT) SHM/4 heads	16 August (16 DAT) SHM/2 heads	23 August (23 DAT) SHM/2 heads
Untreated	72.0 ± 5.8a	9.5 ± 1.7a	4.8 ± 1.1a
Belt SC @ 2.0 oz/a	12.5 ± 1.3d	3.5 ± 1.0cde	2.3 ± 0.3bcd
Belt SC @ 3.0 oz/a	19.0 ± 7.0d	1.8 ± 0.3e	1.0 ± 0.4d
Besiege @ 7.0 oz/a	13.5 ± 2.2d	6.5 ± 0.5b	2.8 ± 0.5bc
Stallion @ 11.75 oz/a	16.3 ± 2.6d	5.0 ± 1.1bcd	2.3 ± 0.3bcd
Stallion @ 8.0 oz/a + 8.0 oz/a 14 days later	38.5 ± 9.9b	6.0 ± 1.1bc	2.3 ± 0.5bcd
Mustang Max @ 4.0 oz/a	22.0 ± 6.6cd	5.5 ± 1.3bc	3.8 ± 0.8ab
Mustang Max @ 3.0 oz/a + 3.0 oz/a 14 days later	36.0 ± 7.9bc	5.0 ± 0.9bcd	1.0 ± 0.4d
Endigo ZCX @ 4.0 oz/a	14.3 ± 1.2d	7.0 ± 0.7ab	2.0 ± 0.7cd
Warrior II @ 1.92 oz/a	17.5 ± 1.5d	2.3 ± 0.6de	1.3 ± 0.5cd
Besiege @ 9.0 oz/a	24.0 ± 5.9bcd	6.3 ± 1.4bc	1.3 ± 0.5cd

Means within a column followed by the same letter are not significantly different (P>0.05; PROC ANOVA; 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.

**Kansas State University Agricultural Experiment Station and Cooperative Extension Service**

K-State Research and Extension is an equal opportunity provider and employer. Issued in furtherance of Cooperative Extension Work, Acts of May 8 and June 30, 1914, as amended. Kansas State University, County Extension Councils, Extension Districts, and United States Department of Agriculture Cooperating, John Floros, Director.