

## 2013 Alfalfa Weevil Insecticide Efficacy Trial – Dickinson Co., KS.

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

Pest: Alfalfa weevil, Hypera postica

Crop: Alfalfa; Established stand – 6 years

Location: Dickinson Co., KS

Planting Date: N/A

Plot Size: 10 ft. x 20 ft.

Experimental Design: Randomized Complete Block; 4 Replications

Information: Sprayed with hand sprayer delivering 20 gal/acre at ca.30 psi on

21 April, 2013.

Phytotoxicity: None noted

Evaluation: 10 stems/treatment / replication randomly selected, shaken into

1 gal. white container and counted on 25 April (4 DAT), 28 April (7

DAT), 6 May (15 DAT), and 12 May (21 DAT)

DAT = Days After Treatment

Special Notes: Pre-treatment counts conducted on 21 April, 2013. Average of 9

larvae/ 10 stems (0.9 larva/stem).

Treatments # 6 and 25, 2<sup>nd</sup> application made on 5 May, 2013

Treatment # 28, 1<sup>st</sup> application made on 5 May, 2013

Weather at Time

of Treatment: 21 April - 70°F; 5 May - 64°F

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Treatment Date: 21 April, 2013

No.	Treatment/Product Name	Alfalfa weevil larvae / 10 stems (Mean ± SE)				
	Trume	25 April (4 DAT)	28 April (7 DAT)	6 May (15 DAT)	12 May (21 DAT)	
1	Untreated	6.8 ± 0.8a	8.0 ± 1.5a	2.5 ± 0.6a	2.5 ± 1.2a	
2	Fastac 100 SC @ 3.8 fl oz/a + 25% surfactant	1.0 ± 0.4de	1.8 ± 1.4bcd	0.3 ± 0.3cd	0.8 ± 0.6bc	
3	Fastac 100 SC @ 3.8 fl oz + Lorsban @ 16 fl oz/a + 25% surfactant	1.5 ± 0.3cde	0.5 ± 0.5cd	0.0 ± 0.0d	0.8 ± 0.5bc	
4	Baythroid XL @ 2.8 fl oz/a	1.8 ± 0.8cde	0.5 ± 0.5cd	0.5 ± 0.3bcd	0.8 ± 0.5bc	
5	Baythroid XL @ 2.8 fl oz/a + Lorsban 480EC @ 1 pt/a	2.8 ± 1.3bcd	1.0 ± 0.6bcd	0.5 ± 0.3bcd	0.5 ± 0.5bc	
6	Baythroid XL @ 2.8 fl oz/a + Lorsban 480EC @ 1 pt/a (1st application) and Baythroid XL @ 2.8 fl oz/a + Dimethoate @ 1 pt/a	1.3 ± 0.5cde	2.3 ± 1.0bcd	0.0 ± 0.0d	0.8 ± 0.5bc	
7	Lannate LV @ 1.5 pts/a	1.8 ± 0.6cde	1.0 ± 0.6bcd	1.5 ± 0.6abc	0.8 ± 0.5bc	
8	Steward @ 5.3 fl oz/a + 6 fl oz/a organosilicone surfactant	0.8 ± 0.5de	1.0 ± 0.4bcd	1.5 ± 0.9abc	1.5 ± 1.0ab	
9	Steward @ 6.0 fl oz/a + 6 fl oz/a organosilicone surfactant	1.3 ± 0.8cde	1.8 ± 0.9bcd	0.8 ± 0.5bcd	0.5 ± 0.5bc	
10	Prevathon @ 14 fl oz/a + 6 fl oz/a organosilicone surfactant	4.3 ± 1.3b	2.3 ± 1.3bcd	0.8 ± 0.8bcd	0.5 ± 0.3bc	
11	Lambda-cyhalothrin + sulfoxaflor @ 2.0 fl oz/a	2.3 ± 1.4bcde	0.8 ± 0.5cd	0.3 ± 0.3cd	1.0 ± 1.0bc	
12	Lambda-cyhalothrin + sulfoxaflor @ 2.5 fl oz	1.8 ± 0.8cde	3.5 ± 1.2b	1.8 ± 0.5ab	0.3 ± 0.3bc	
13	Lambda-cyhalothrin + sulfoxaflor @ 3.0 fl oz/a	1.8 ± 0.9cde	1.8 ± 0.9bcd	0.5 ± 0.3bcd	0.3 ± 0.3bc	
15	Chlorpyrifos + Lambda- cyhalothrin @ 20 fl oz/a	2.3 ± 1.0bcde	2.3 ± 1.0bcd	1.5 ± 1.5abc	0.8 ± 0.8bc	

16	Warrior II @ 1.63 fl oz/a	1.5 ± 0.3cde	1.8 ± 1.1bcd	0.3 ± 0.3cd	0.3 ± 0.3bc
17	Endigo ZCX 2.71 ZC @ 4 fl oz/a	1.8 ± 0.9cde	1.0 ± 0.7bcd	0.5 ± 0.3bcd	0.0 ± 0.0c
18	Besiege 1.25 ZC @ 9 fl oz/a	1.3 ± 0.5cde	1.0 ± 0.7bcd	0.3 ± 0.3cd	1.0 ± 0.0bc
19	Cobalt Advance 2.63 EC @ 24 fl oz/a	0.3 ± 0.3e	0.5 ± 0.3cd	0.0 ± 0.0d	0.0 ± 0.0c
20	Warrior II w/ Zeon 2.08 CS @ 1.92 fl oz/a	1.0 ± 0.4de	2.0 ± 1.4bcd	0.0 ± 0.0d	0.3 ± 0.3bc
21	Stallion 3.025 EC @ 11.75 fl oz	1.5 ± 0.6cde	1.3 ± 0.5bcd	0.0 ± 0.0d	0.5 ± 0.3bc
22	Stallion 3.025 EC @ 11.75 fl oz + Lorsban @ 8 oz	1.8 ± 0.8cde	0.5 ± 0.3cd	0.3 ± 0.3cd	0.3 ± 0.3bc
23	Mustang Maxx @ 4 oz/a + Steward @ 4 oz/a	1.3 ± 0.6cde	3.0 ± 1.1bc	1.0 ± 0.4bcd	1.0 ± 0.4bc
24	Stallion @ 11.75/a oz + Steward @ 4 oz/a	2.3 ± 0.9bcde	1.8 ± 0.6bcd	1.5 ± 0.9abc	0.3 ± 0.3bc
25	Stallion @ 11.75 oz/a and Mustang Maxx @ 4 fl oz/a 10-14 days later	3.3 ± 0.9bc	2.3 ± 1.3bcd	0.8 ± 0.8bcd	0.8 ± 0.8bc
26	Mustang Maxx @ 4 fl oz/a	1.8 ± 1.0cde	1.8 ± 0.8bcd	0.0 ± 0.0d	0.8 ± 0.5bc
27	Cobalt Advance @ 19 fl oz/a	1.0 ± 0.4de	0.3 ± 0.3d	0.0 ± 0.0d	0.0 ± 0.0c
28	Prevathon @ 20 fl oz/a	-	-	-	1.0 ± 0.4bc (7DAT)

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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