



2010 Alfalfa Weevil Insecticide Efficacy Trial –  
Dickinson Co., KS.

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“Field 2”

Pest: Alfalfa weevil, *Hyper postica*

Crop: Alfalfa; 25 treatments

Location: Dickinson Co., KS

Planting Date: N/A: Third year (Ca. 12-14” tall at application)

Plot Size: 10 ft. x 15 ft.

Experimental Design: Randomized Complete Block; 4 Replications

Information: Sprayed with hand sprayer delivering 20 gal/acre at ca.30 psi on 18 April 2010.

Phytotoxicity: None noted

Evaluation: 10 stems/treatment / replication randomly selected, shaken into 1 gal. white container and counted on 25 April (7 DAT), 2 May (14 DAT) and 3 May (15 DAT)  
DAT = Days After Treatment

Special Notes: Pre-treatment counts conducted on 18 April, 2010 had approx. 1/larva stem. Swathed 4 May

Weather at Time of Treatment: Temp. approx. 60°F and 10 mph wind

**Treatment Date:** 18 April, 2010

<b>Treatment/Product Name</b>	<b>Alfalfa weevil larvae / 10 stems (Mean ± SE)</b>	<b>Alfalfa weevil larvae / 10 stems (Mean ± SE)</b>	<b>Alfalfa weevil pupae / 1 ft.<sup>2</sup> (Mean ± SE)</b>
	<b>25 April (7 DAT)</b>	<b>2 May (14 DAT)</b>	<b>3 May (15 DAT)</b>
Untreated	31.8 ± 1.7b	12.3 ± 1.8a	11.0 ± 2.1b
Imidan 70-W @ 1.33 lb/acre	3.0 ± 1.1de	4.3 ± 0.5efgh	0.3 ± 0.3c
Cobalt Advanced @ 2.628 lb ai/a (17 fl oz/a)	3.3 ± 0.3de	4.5 ± 0.3efgh	0.3 ± 0.3c
Cobalt Advanced @ 2.628 lb ai/a (19 fl oz/a)	2.3 ± 0.3e	3.5 ± 0.3fgh	0.0 ± 0.0c
Cobalt @ 2.545lb ai/a (19 fl oz/a)	3.5 ± 0.5de	3.8 ± 1.0fgh	0.0 ± 0.0c
Lorsban Advanced @ 3.75 lb ai/a (2 pt/a)	3.0 ± 0.9de	3.8 ± 0.3fgh	0.5 ± 0.5c
Warrior II @ 2.08 lb ai/a (1.92 fl oz/a)	2.5 ± 0.3e	2.8 ± 0.3h	0.0 ± 0.0c
Entrust Naturalyte 800 WP @ 80% ai w/w (1.2 fl oz/a)	6.8 ± 0.5c	7.0 ± 0.6c	0.8 ± 0.8c
Mustang Max @ 4.0 oz/a	2.0 ± 0.8e	3.0 ± 0.7gh	0.0 ± 0.0c
Lorsban Advanced @ 1 pt/a	4.3 ± 0.6de	4.8 ± 0.5defg	0.8 ± 0.8c
Cobalt @ 19 oz./a	2.3 ± 0.5e	3.0 ± 0.6gh	0.0 ± 0.0c
Baythroid XL @ 2.0 fl oz/a	5.3 ± 0.8cd	5.8 ± 0.8cde	0.0 ± 0.0c
Baythroid XL @ 2.4 fl oz/a + Lorsban 480 EC @ 16 oz/a	3.5 ± 1.0de	3.5 ± 0.5fgh	0.0 ± 0.0c
Baythroid XL @ 2.8 fl oz/a	4.0 ± 0.7de	3.8 ± 0.5fgh	0.0 ± 0.0c
Baythroid XL @ 2.4 fl oz/a + Sevin XLR Plus @ 32 oz/a	3.8 ± 0.6de	4.3 ± 0.5efgh	0.3 ± 0.3c
Untreated	34.8 ± 2.3a	10.3 ± 0.8b	15.3 ± 2.1a

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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