



2009 Alfalfa Weevil Insecticide Efficacy Trial –  
Dickinson Co., KS.

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“Field 3”

Pest: Alfalfa weevil, *Hyper postica*

Crop: Alfalfa; 10 treatments

Location: Dickinson Co., KS

Planting Date: N/A: Third year (10-12” tall at application)

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 22 April 2009.

Phytotoxicity: None noted

Evaluation: 10 stems/treatment / replication (40 total) randomly selected, shaken into 1 gal. white container and counted on 25 (3 DAT), 28 (6 DAT) Apr, and 2 (11 DAT) May, 2009. (3 DAT), (6 DAT), and (11 DAT)  
DAT = Days After Treatment

Special Notes: Pre-treatment counts conducted on 22 Apr, 2009 had 8 weevil larvae / 10 stems i.e. ca. 1/larva stem. On 26 April, this field received 4.5 inches of rain and experienced 60+ mph winds.

Weather at Time of Treatment: 50°F 10-15 mph winds

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**Treatment Date:** 22 April, 2009

No.	Treatment/Product Name	Alfalfa weevil larvae / 10 stems (Mean ± SE)		
		25 April (3 DAT)	28 April (6 DAT)	2 May (11 DAT)
1	Untreated	10.25 ± 1.11a	2.25 ± 0.63a	7.50 ± 6.17a**
2	Lorsban 4E @ 24.0 fl. oz./acre	1.50 ± 0.29bc	0.00 ± 0.00b	0.00 ± 0.00b
3	Lorsban Advanced @ 24.0 fl. oz./acre	1.25 ± 0.25bcd	0.00 ± 0.00b	1.00 ± 0.71b
4	Lorsban Advanced + Warrior II* @ 12.6 fl. oz./acre + 0.96 fl. oz./acre	2.00 ± 0.41b	0.00 ± 0.00b	0.00 ± 0.00b
5	Lorsban Advanced + Warrior II* @ 12.6 fl. oz./acre + 0.78 fl. oz./acre	0.00 ± 0.00d	0.00 ± 0.00b	0.25 ± 0.25b
6	Warrior II* @ 1.28 fl. oz./acre	0.25 ± 0.25cd	0.00 ± 0.00b	0.00 ± 0.00b
7	Baythroid XL @ 2.80 oz./acre	0.25 ± 0.25cd	0.25 ± 0.25b	0.00 ± 0.00b
8	Baythroid XL + Lorsban 480 EC @ 2.4 oz./acre + 8.0 oz./acre	0.25 ± 0.25cd	0.00 ± 0.00b	0.00 ± 0.00b
9	Belt 480 SC + COC @ 2.0 oz./acre + 1 pt./acre	2.00 ± 0.41b	0.50 ± 0.29b	0.50 ± 0.50b
10	Belt 480 SC + COC @ 4.0 oz./acre + 1 pt./acre	0.00 ± 0.00d	0.00 ± 0.00b	0.00 ± 0.00b

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]).

\*Warrior II with Zeon Tech

\*\* 18 larvae per 10 stems, 26 larvae per 11 stems (8 larvae in one stem)

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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