



2012 Alfalfa Weevil Insecticide Efficacy Trial –
Dickinson Co., KS.

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Pest: Alfalfa weevil, *Hyper postica*

Crop: Alfalfa; 21 treatments

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 30 March 2012.

Phytotoxicity: None noted

Evaluation: 10 stems/treatment / replication randomly selected, shaken into 1 gal. white container and counted on 2 April (3 DAT), 7 April (8 DAT), 11 April (12 DAT), and 20 April (21 DAT)
DAT = Days After Treatment

Special Notes: Pre-treatment counts conducted on 30 March, 2012. Average of 6 larvae/ stem.

Weather at Time of Treatment: Temp. approx. 80°F and 0-5 mph wind

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Treatment Date: 30 March, 2012

No.	Treatment/Product Name	Alfalfa weevil larvae / 10 stems (Mean ± SE)			
		2 April (3 DAT)	7 April (8 DAT)	11 April (12 DAT)	20 April (21 DAT)
1	Baythroid XL (2.8oz/a)	21.8 ± 1.7bcde	2.0 ± 0.0b	2.0 ± 0.4cd	0.0 ± 0.0b
2	Baythroid XL (2.8oz/a) + Lorsban 480EC (1 pt./a)	18.8 ± 1.9bcde	2.0 ± 0.0b	1.0 ± 0.6cd	0.0 ± 0.0b
3	Baythroid XL (2.8oz/a) + Lorsban 480EC (1 pt./a) Followed by: Baythroid XL (2.8oz/a) + Dimethoate (1pt/a) 12 days later	16.0 ± 3.5de	1.5 ± 0.3b	3.3 ± 1.5c	0.0 ± 0.0b
4	Stallion (11.75oz/a)	27.5 ± 4.3ab	2.5 ± 0.5b	1.5 ± 0.3cd	0.0 ± 0.0b
5	Stallion (11.75oz/a) + Lorsban 4EC (8oz/a)	19.3 ± 5.3bcde	2.0 ± 0.7b	1.3 ± 0.9cd	0.0 ± 0.0b
6	Mustang Max (4oz/a) + Steward (4oz/a)	18.5 ± 2.4bcde	2.0 ± 0.4b	2.5 ± 0.3cd	0.0 ± 0.0b
7	Stallion (11.75oz/a) + Steward (4oz/a)	19.5 ± 3.0bcde	1.8 ± 0.3b	2.3 ± 0.3cd	0.0 ± 0.0b
8	Warrior II (1.92oz/a) + Dimethoate (8oz/a) Followed by: Stallion (11.75oz/a) 12 days later	20.5 ± 4.8bcde	2.3 ± 0.6b	2.3 ± 0.6cd	0.0 ± 0.0b
9	Steward (8oz/a)	17.5 ± 1.0bcde	2.0 ± 0.0b	2.0 ± 0.6cd	0.0 ± 0.0b
11	Cobalt Advance (19oz/a)	21.5 ± 3.7bcde	2.3 ± 0.3b	2.0 ± 0.7cd	0.0 ± 0.0b
12	Fastac (4.0oz/a) + Surfactant (.25%)	22.5 ± 3.0bcde	2.3 ± 0.5b	1.8 ± 0.3cd	0.0 ± 0.0b

		2 April (3 DAT)	7 April (8 DAT)	11 April (12 DAT)	20 April (21 DAT)
14	Steward (5.3oz/a) + Dimethoate (1.0pt/a) + Surfactant (0.5%) Followed by: Steward (6.0oz/a) + Lorsban (1.0pt/a) + Surfactant (0.5%) 12 days later	20.8 ± 1.4bcde	2.0 ± 0.0b	0.8 ± 0.5d	0.0 ± 0.0b
15	Steward (11 oz/a) + Lorsban (1 pt/a) + Surfactant (0.5%)	26.5 ± 4.0bc	2.8 ± 0.5b	2.3 ± 0.9cd	0.0 ± 0.0b
16	Endigo 2.06 ZC (4.0oz/a)	23.5 ± 3.5bcde	2.8 ± 0.5b	2.3 ± 1.0cd	0.0 ± 0.0b
17	Endigo Zcx 2.71 ZC (4.0oz/a)	13.5 ± 2.1e	1.5 ± 0.3b	1.8 ± 0.3cd	0.0 ± 0.0b
18	Centric 40 WG (3.5ozwt/a)	17.0 ± 6.5cde	1.0 ± 0.0b	2.3 ± 0.3cd	0.0 ± 0.0b
19	Voliam Xpress 1.25 ZC (9oz/a)	16.3 ± 2.7de	1.5 ± 0.3b	1.5 ± 0.5cd	0.0 ± 0.0b
20	Cobalt 2.54 EC (24oz/a)	18.3 ± 6.1bcde	2.0 ± 0.7b	3.3 ± 0.5c	0.0 ± 0.0b
21	Warrior II w/ Zeon 2.08 CS (1.92oz/a)	14.8 ± 2.5e	1.3 ± 0.3b	2.5 ± 0.5cd	0.0 ± 0.0b
23	Untreated	25.8 ± 3.9bcd	17.3 ± 2.5a	12.8 ± 1.2b	2.5 ± 1.0a
24	Untreated	37.0 ± 1.8a	16.8 ± 4.5a	21.3 ± 2.2a	2.8 ± 1.1a

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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