



2014 Alfalfa Weevil Insecticide Efficacy Trial –  
Dickinson Co., KS.

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Pest: Alfalfa weevil, *Hypera postica*

Crop: Alfalfa; Established stand – 4 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 20 April, 2014. Treatments 3, 14, and 15 sprayed again on 2 May, 2014.

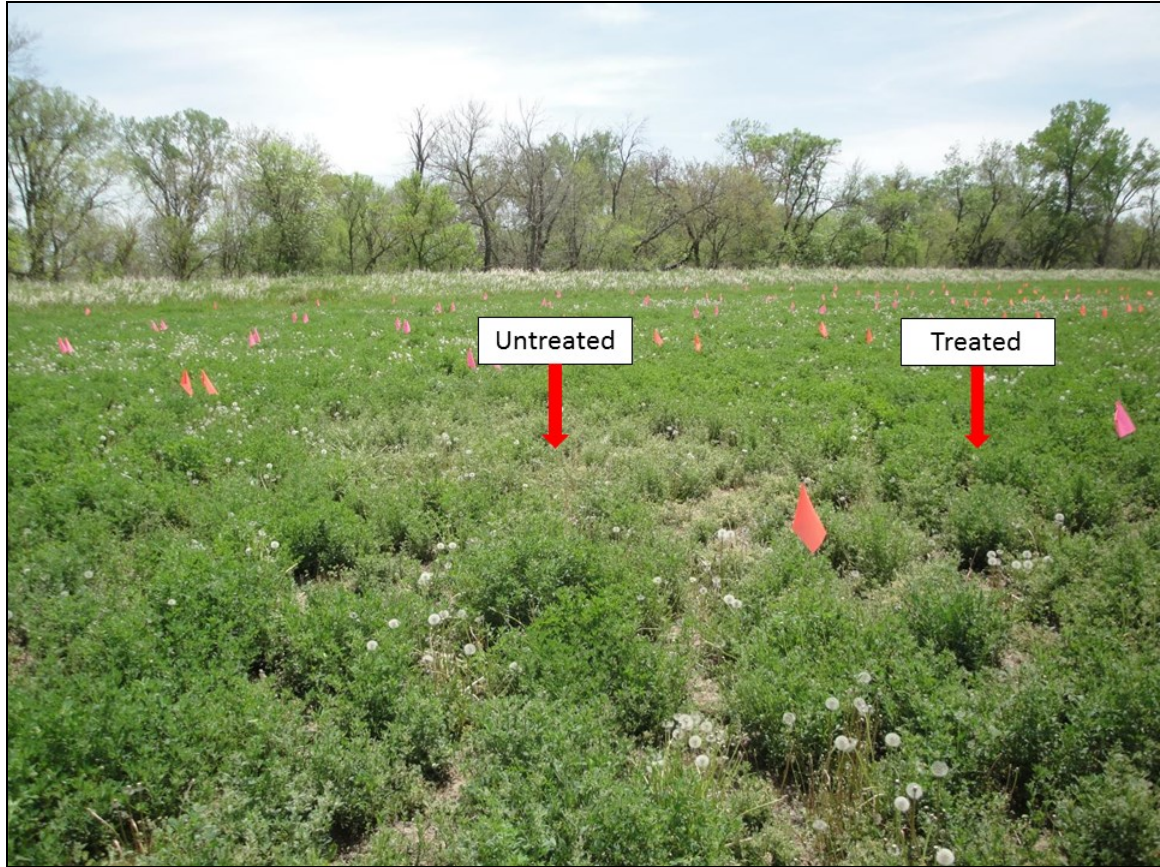
Phytotoxicity: None noted

Evaluation: Pre-treatment counts conducted on 20 April, 2014. Average of 7.8 larvae/ 10 stems (78% infested). 10 stems/treatment / replication randomly selected, shaken into 1 gal. white container and counted on 23 April (3 DAT), 1 May (11 DAT), 6 May ( 16 DAT), 14 May (24 DAT). Field swathed 14 May.  
DAT = Days After Treatment

Weather at Time of Treatment: 20 April - 80°F, wind WSW 10-15mph; 2 May - 80°F, wind WSW 15 mph

Special Notes:

This year weevil infestations were substantial – see untreated stem counts. However, from a visual perspective all treatments protected the plants to the satisfaction of the grower, even though there are statistic differences between treatments.



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Treatment Date: 20 April, 2014

Treatment/Product Name	Alfalfa weevil larvae / 10 stems (Mean ± SE)			
	23 April (3 DAT)	1 May (11 DAT)	6 May (16 DAT)	14 May (24 DAT)
Untreated	12.5 ± 2.0a	11.5 ± 3.7a	12.0 ± 2.8a	2.8 ± 0.6bc
Baythroid XL @ 2.8 fl oz/a + Lorsban 480EC @ 1 pt/a	3.0 ± 2.0b	1.5 ± 1.0b	3.8 ± 1.9bc	1.5 ± 0.9bc
Baythroid XL @ 2.8 fl oz/a + Lorsban 480EC @ 1 pt/a – repeated 12 days later - 2 May	2.0 ± 1.0b	3.0 ± 1.3b	0.5 ± 0.3c	0.3 ± 0.3c
Lannate LV @ 1.5 pts/a	2.5 ± 1.3b	2.3 ± 1.6b	1.0 ± 0.0bc	3.0 ± 1.6bc*
Steward EC @ 5.3 fl oz/a + 4 fl oz/a surfactant	2.3 ± 0.9b	2.5 ± 1.2b	3.0 ± 1.3bc	1.8 ± 0.9bc
Steward EC @ 11.3 fl oz/a + 4 fl oz/a surfactant	1.3 ± 0.8b	1.5 ± 0.6b	2.3 ± 0.8bc	1.8 ± 0.9bc
Endigo ZCX 2.71ZC@ 4 fl oz/a	2.8 ± 2.1b	1.8 ± 0.9b	1.8 ± 0.9bc	2.5 ± 1.0bc
Besiege 1.25 ZC @ 9 fl oz/a	2.3 ± 1.7b	2.0 ± 0.7b	4.3 ± 2.2b	6.8 ± 2.1a*
Cobalt Advance 2.63 EC @ 24 fl oz/a	1.8 ± 1.2b	1.0 ± 1.0b	1.3 ± 0.8bc	0.8 ± 0.8bc
Warrior II @ 1.92 fl oz/a	2.8 ± 1.1b	2.0 ± 0.8b	2.0 ± 1.1bc	3.8 ± 2.4ab*
Stallion 3.025 EC @ 11.75 fl oz	1.3 ± 0.8b	0.8 ± 0.8b	1.0 ± 0.7bc	2.0 ± 0.7bc

Treatment/Product Name	Alfalfa weevil larvae / 10 stems (Mean ± SE)			
	23 April (3 DAT)	1 May (11 DAT)	6 May (16 DAT)	14 May (24 DAT)
Stallion 3.025 EC @ 11.75 fl oz + Lorsban @ 8 oz	2.5 ± 1.2b	1.8 ± 1.0b	0.8 ± 0.8bc	1.3 ± 0.6bc
Steward @ 6oz/a	2.8 ± 1.7b	1.5 ± 0.6b	2.5 ± 1.5bc	2.5 ± 1.3bc
Stallion @ 11.75 oz/a and Mustang Maxx @ 4 fl oz/a 12 days later, 2 May	1.5 ± 0.9b	1.3 ± 0.9b	0.3 ± 0.3c	0.8 ± 0.5bc
Mustang Maxx @ 4 oz/a and Stallion @ 11.75 oz/a 12 days later, 2 May	2.5 ± 1.4b	2.3 ± 1.3b	0.5 ± 0.3c	0.0 ± 0.0c
Mustang Maxx @ 4 fl oz/a	1.5 ± 0.6b	1.0 ± 0.7b	1.3 ± 1.3bc	2.3 ± 1.3bc
Cobalt Advance @ 19 fl oz/a	2.8 ± 1.5b	1.8 ± 0.9b	2.0 ± 1.1bc	1.5 ± 0.9bc

**\*These larvae were very small and had obviously just hatched within the last 24 hours.**

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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