



2016/2017 Alfalfa Weevil Insecticide Efficacy Trial – Dickinson Co., KS.

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Pest:	Alfalfa weevil, <i>Hypera postica</i>
Crop:	Alfalfa; Established stand – 6 years
Location:	Dickinson Co., KS
Planting Date:	N/A
Plot Size:	30ft x 60ft
Experimental Design:	Randomized Complete Block; 4 Replications
Information:	Sprayed with hand sprayer delivering 20 gal/acre at ca.30 psi on 1 December, 2016.
Phytotoxicity:	None noted
Evaluation:	<p>Pretreatment counts: 1 Dec., 2016 - 13 alfalfa weevil larvae/60 sweeps</p> <p>Fall: Sweep sampled for adult and larval weevils and pea aphids 5 Dec. and 12 Dec, 2016. Dec. 12, 2016 - 80 stems randomly collected in each plot. Stems were split and no. of egg clusters present counted.</p> <p>Spring: 60 stems randomly collected in each plot 9 March, 16 March, and 22 March, 2017. Terminals opened and larvae counted.</p>
Weather at Time of Treatment:	50°F, wind 0 mph

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Treatment Date: 1 December, 2016

	5 Dec. 2016			12 Dec. 2016				9 March, 2017	16 March, 2017	22 March, 2017
Treatment	AW larvae/20 sweeps (Mean ± SE)	AW adults/20 sweeps (Mean ± SE)	Pea aphids/20 sweeps (Mean ± SE)	AW larvae/10 sweeps (Mean ± SE)	AW adults/10 sweeps (Mean ± SE)	Pea aphids/10 sweeps (Mean ± SE)	No. of egg clusters/80 stems (Mean ± SE)	AW larvae/60 stems (Mean ± SE)	AW larvae/60 stems (Mean ± SE)	AW larvae/60 stems (Mean ± SE)
Steward EC @ 8.0 fl oz/A + 4 fl oz/100gal surfactant	1.0 ± 0.7a	0.8 ± 0.5b	33.3 ± 6.1b	0.0 ± 0.0a	0.0 ± 0.0a	3.5 ± 1.2a	14.0 ± 1.3a	34.3 ± 2.9b	43.5 ± 2.9b	57.3 ± 3.3b
Stallion @ 11.75 fl oz/A	0.8 ± 0.8a	3.0 ± 1.1a	1.3 ± 1.3c	0.0 ± 0.0a	0.0 ± 0.0a	0.5 ± 0.3b	14.0 ± 3.4a	44.0 ± 6.3ab	50.5 ± 4.3b	53.8 ± 2.8b
Untreated	3.3 ± 1.3a	0.8 ± 0.3b	55.3 ± 7.8a	0.0 ± 0.0a	0.0 ± 0.0a	3.0 ± 0.6ab	9.0 ± 2.7a	57.5 ± 7.9a	67.3 ± 2.8a	72.5 ± 3.3a

Means within a column followed by the same letter are not significantly different ($P>0.05$; PROC ANOVA; 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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