



2012 Wheat Aphid Insecticide Efficacy Trial –
Dickinson Co., KS.

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Pest: Bird Cherry-Oat Aphids, *Rhopalosiphum padi* and Greenbugs, *Schizaphis graminum*

Crop: Wheat; 18 treatments

Location: Dickinson Co., KS

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 4 April, 2012. Wheat jointing to flag leaf stage, Feekes 7-9

Phytotoxicity: None noted

Evaluation: 10 tillers / treatment / replication randomly selected and all aphids counted on 7 April (4 DAT), 16 April (12 DAT). By 21 April, no aphids left in control plot (controlled by lady beetles and parasitoids)
DAT = Days After Treatment

Special Notes: Pre-treatment counts conducted on 4 April, 2012. Average of 0.6 aphid / tiller

Weather at Time of Treatment: 61° F Winds NNE 5-8 mph

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Treatment Date: 4 April, 2012

No.	Treatment/Product Name	Aphids / 10 tillers (Mean ± SE)	
		7 April (4 DAT)	16 April (12 DAT)
1	Untreated	54.5 ± 12.8a	4.3 ± 0.6a
2	Endigo 2.06 ZC (4oz/a)	0.5 ± 0.5b	0.0 ± 0.0b
3	Endigo Zcx 2.71 ZC (4oz/a)	0.0 ± 0.0b	0.0 ± 0.0b
4	Quilt Xcel 2.2 SE (12oz/a)	0.0 ± 0.0b	0.0 ± 0.0b
5	Quilt Xcel 2.2 SE (12oz/a) + Warrior li 2.09 CS (1.92oz/a)	0.0 ± 0.0b	0.0 ± 0.0b
6	Cobalt 2.54 EC (26oz/a)	0.0 ± 0.0b	0.0 ± 0.0b
7	Cobalt 2.54 EC (26oz/a) + Headline SC 2.09 SC (9oz/a)	0.0 ± 0.0b	0.0 ± 0.0b
8	EndigoZcx 2.71 ZC (4oz/a) + Quilt Xcel 2.2 SE (12oz/a)	0.0 ± 0.0b	0.0 ± 0.0b
9	Declare (1.28oz/a)	0.5 ± 0.5b	0.0 ± 0.0b
10	Declare (1.54oz/a)	1.5 ± 1.0b	0.0 ± 0.0b
11	Declare (1.02oz/a) + Nufos 4E (6oz/a)	0.5 ± 0.3b	0.0 ± 0.0b
12	Karate Z (1.54oz/a)	1.0 ± 0.4b	0.0 ± 0.0b
13	Transform (12 g ai/ha)	0.3 ± 0.3b	0.0 ± 0.0b
14	Transform (18 g ai/ha)	0.3 ± 0.3b	0.0 ± 0.0b
15	Transform (25 g ai/ha)	0.5 ± 0.5b	0.0 ± 0.0b
16	Transform (37.5 g ai/ha)	1.0 ± 1.0b	0.0 ± 0.0b
17	Lorsban Advanced (263 g ai/ha)	1.8 ± 1.0b	0.0 ± 0.0b
18	Warrior II (35 g ai/ha)	0.0 ± 0.0b	0.0 ± 0.0b

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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