



2017 Sugarcane Aphid Efficacy Trial –  
Dickinson Co., KS.

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Pest: Sugarcane aphid, *Melanaphis sacchari*

Crop: Sorghum, *Sorghum bicolor*, double-cropped after wheat

Planting Date: 25 June, 2017

Location: Dickinson Co., KS

Plot Size: 10 ft. x 30 ft.

Experimental Design: Randomized Complete Block; 4 Replications

Information: Sprayed by hand sprayer delivering 20 gal/acre at ca.30 psi on 13 Sept., 2017 - 93°F, wind 0mph. Treatments 4, 5, and 6 sprayed 2<sup>nd</sup> time 29 Sept., 2017 - 69°F, wind 0mph

Phytotoxicity: None noted

Evaluation: Counted aphids on 2 uppermost leaves of 5 randomly selected plants/ plot (10 leaves total) on 20 Sept. (7 DAT), 27 Sept. (14 DAT), 6 Oct. (7 or 23 DAT), and 19 Oct. (20 or 36 DAT). Pretreatment counts averaged 73 aphids per leaf.  
DAT = Days After Treatment

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**Treatment Dates: 13 September 2017, 29 September (treatments 4, 5, and 6)**

	Treatment	Avg. # aphids/10 leaves 20 Sept (7 DAT)	Avg. # winged aphids/10 leaves 20 Sept (7 DAT)	Avg. # aphids/10 leaves 27 Sept (14 DAT)	Avg. # winged aphids/10 leaves 27 Sept (14 DAT)	Avg. # aphids/10 leaves 6 Oct (7 or 23 DAT)	Avg.# winged aphids/10 leaves 6 Oct. (7 or 23 DAT)	Avg. # aphids/10 leaves 19 Oct (20 or 36 DAT)	Avg. # winged aphids/10 leaves 19 Oct. (20 or 36 DAT)
<b>1</b>	Untreated	375.5a	9.3a	86.0a	13.5a	142.3a	24.8a	88.0a	44.0a
<b>2</b>	Sivanto Prime @ 4 fl oz/acre	0.0b	1.3b	3.0b	3.8b	20.0b	9.5b	28.8b	13.0b
<b>3</b>	Sivanto Prime @ 5 fl oz/acre	0.0b	0.3b	2.5b	3.5b	0.8b	4.0b	19.5b	12.8b
<b>4</b>	Inscalis @ 6.0 fl oz/acre followed by Inscalis @ 6.0 fl oz/acre	2.0b	1.8b	11.0b	8.0ab	19.5b	5.5b	21.8b	13.0b
<b>5</b>	Inscalis @ 6.0 fl oz/acre followed by Sivanto @ 6.0 fl oz/acre	0.3b	1.0b	4.5b	8.3ab	2.0b	3.0b	8.8b	9.5b
<b>6</b>	Sivanto @ 6.0 fl oz/acre followed by Inscalis @ 6.0 fl oz/acre	0.0b	0.5b	4.5b	11.8ab	0.0b	3.8b	15.5b	13.0b

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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