

## 2015 Sorghum Headworm (Corn Earworm) Insecticide Efficacy Trial – Dickinson Co., KS.

Jeff Whitworth, Holly Schwarting, Department of Entomology, Kansas State University

Pest: Sorghum Headworm (corn earworm), *Helicoverpa zea* 

Crop: Sorghum; 11 treatments

Location: Dickinson Co., KS

Growth Stage: Between flowering and milk stage (double cropped after wheat)

Plot Size: 4 rows x 30 ft.

Experimental Design: Randomized Complete Block; 4 Replications

Information: Sprayed with hand sprayer delivering 15 gal/acre at ca.30 psi.

Treatments 1&2 treated on 25 August at bloom initiation - 83°F with no wind. Treatments 3-11 on 31 August at threshold - 87°F

with wind SSE 8mph.

Phytotoxicity: None noted

Evaluation: Pre-treatment counts conducted on 31 August using 1 gal. white

bucket and shaking heads into bucket, averaged 4.6 CEW/10 heads. Evaluations consisted of ten randomly selected heads sampled per plot on 7 September (7 DAT) and 14 September (14 DAT). No larvae were counted 21 September as sorghum was in

the dough stage and larvae had pupated.

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Treatment Date: 25 or 31 August, 2015

No.	Treatment/Product Name	CEW/10 heads (Mean ± SE)	
		7 Sept. (13 DAT)	14 Sept. (20 DAT)
1	Fastac 100SC @ 3.8 fl.oz./a (at bloom initiation)	0.3 ± 0.3d	2.0 ± 0.8bc
2	Mustang Maxx @ 4.0 fl.oz/a (at bloom initiation)	2.3 ± 0.3b	2.3 ± 0.6b
		(7 DAT)	(14 DAT)
3	Belt SC @ 2.0 oz/a	0.8 ± 0.3cd	0.3 ± 0.3d
4	Belt SC @ 3.0 oz/a	0.0 ± 0.0d	0.5 ± 0.3d
5	Fastac 100SC @ 3.8 fl.oz./a	0.3 ± 0.3d	0.3 ± 0.3d
6	Mustang Maxx @ 4.0 fl.oz/a	2.0 ± 0.4b	0.3 ± 0.3d
7	Diamond @ 9.0 fl.oz./a	0.8 ± 0.3cd	0.0 ± 0.0d
8	Vulcan @ 1.0 pt./a	1.8 ± 0.6bc	1.0 ± 0.6bcd
9	Lorsban Advanced @ 1.0 pt./a	1.8 ± 0.6bc	0.8 ± 0.5c
10	Diamond @ 6 fl.oz./a + Vulcan @ 1.0 pt./a	0.3 ± 0.3d	0.0 ± 0.0d
11	Diamond @ 9 fl.oz./a + Vulcan @ 1.0 pt./a	0.5 ± 0.3d	0.5 ± 0.3d
12	Untreated	8.5 ± 0.3a	4.3 ± 0.6a

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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