



2011 Sorghum Headworm (Corn Earworm) Insecticide Efficacy
Trial #1
Dickinson Co., KS.

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Pest: Corn Earworm (Sorghum Headworm), *Helicoverpa zea*

Crop: Sorghum; 12 treatments

Location: Dickinson Co., KS

Growth Stage: Between growth stages 6 and 7

Plot Size: 4 Rows X 20 ft.

Experimental Design: Randomized Complete Block; 4 Replications

Information: Sprayed with hand sprayer delivering 20 gal/acre at ca.30 psi on 21 August 2011.

Phytotoxicity: None noted

Evaluation: 10 heads sampled per plot on 28 August (7 DAT), and 1 Sept. (11 DAT)
DAT = Days After Treatment

Special Notes: Pre-treatment counts conducted on 21 August, 2011 using 1 gal. white bucket and shaking heads into bucket. Six locations with 10 heads at each location. Average of 0.78 small larvae per head (78% infested).

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Treatment Date: 21 August, 2011

Treatment/Product Name	CEW/10 heads (Mean ± SE)	CEW/10 heads (Mean ± SE)
	28 August (7 DAT)	1 September (11 DAT)
Stallion 3.0EC @ 11.75oz/acre	0.3 ± 0.3d	0.0 ± 0.0d
Stallion 3.0EC @ 6.0oz/acre	2.0 ± 0.4bcd	1.0 ± 0.6c
Mustang Max @ 4.0oz/acre	1.8 ± 0.5bcd	0.0 ± 0.0d
Lorsban @ 1.0pt/acre	3.5 ± 0.3b	2.3 ± 0.3b
Belt SC + NIS @ 2.0oz/acre + 25%	2.3 ± 0.3bc	0.5 ± 0.3cd
Belt SC + NIS @ 3.0oz/acre + 25%	0.5 ± 0.3cd	0.0 ± 0.0d
Prevathon @ 6.8oz/acre	1.3 ± 0.8cd	1.0 ± 0.4c
Prevathon @ 9.8oz/acre	0.5 ± 0.3cd	0.5 ± 0.3cd
Prevathon @ 13.3oz/acre	0.5 ± 0.5cd	0.0 ± 0.0d
Prevathon @ 19.9oz/acre	0.5 ± 0.3cd	0.0 ± 0.0d
Prevathon + ASANA @ 9.8oz/acre	0.5 ± 0.3cd	0.3 ± 0.3cd
Untreated	13.8 ± 1.7a	4.5 ± 0.6a

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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