

2010 Corn Efficacy Trial – North Farm – Riley Co., KS.

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Pest: General lepidopteran pests (Corn earworm, primarily on ears)

Crop: corn; 3 treatments

Location: Riley Co., KS

Planting Date: 10 June, 2010

Plot Size: 4 rows. x 20 ft.

Experimental Design: Randomized Complete Block; 4 Replications

Phytotoxicity: None noted

Evaluation: 9 July – Plants rated for visible signs of foliar feeding. 8 plants per

row given a damage rating of 0-9, where 0= no feeding damage, 1= 1 leaf with feeding damage... 9= all leaves have feeding

damage.

29 September – 5 ears randomly selected from each plot and returned to lab to take damage measurements as per protocol.

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Treatment	Stand counts	Foliar feeding	Avg. kernels	Avg. kernels around each	Avg. kernels in length/ear	Avg. length of 10	Avg. width of 10
	plants/20ft	damage	eaten/ear	ear		kernels/ear	kernels/ear
	row						
	(Mean ±	(Mean ± SE)	(Mean ± SE)	(Mean ± SE)	(Mean ± SE)	(Mean ± SE)	(Mean ± SE)
	SE)						
Resistant	27.6 ± 1.9b	$0.3 \pm 0.5b$	39.2 ± 4.6b	17.8 ± 1.2a	32.6 ± 0.9a	11.2 ± 0.3a	4.4 ± 0.2a
Resistant	43.5 ± 3.3a	$0.4 \pm 0.1b$	79.4 ± 9.0a	16.0 ± 0.4ab	33.2 ± 1.1a	11.7 ± 0.2a	4.3 ± 0.1a
Susceptible	32.5 ± 3.5b	1.7 ± 0.6a	83.4 ± 9.0a	14.0 ± 0.4a	23.8 ± 1.3b	9.7 ± 0.2b	4.6 ± 0.2a

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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