



Grasshopper control with seed treatments on wheat in Kansas. 2005-06

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Pest:	Grasshopper, <i>Melanoplus differentialis</i>
Crop:	Wheat, 8 treatments
Location:	Manhattan, Kansas (greenhouse test)
Variety:	Jagger
Planting Date:	September 23, 2005
Soil Characteristics:	Hummert greenhouse general purpose soil mix
Plot Size:	6 inch pots
Experimental Design:	Randomized Complete Block, 3 replications
Planting Information:	Wheat planted 1-2 inch depth in 6 inch pots, 12 seeds/pot
Evaluation:	Caged 4 grasshopper/pot on 09/30/05. Counted number of live grasshopper and assigned damage rating 0-10 scale with 0 = no damage, 10 = plants completely consumed on 10/07/05

Grasshopper Control – Wheat (2005-06) – Seed treatment Test
 Planting date: 09/30/05
 Evaluation date: 10/07/05

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Trt. No.	Treatment/ Product Name	Damage rating (Mean ± SE)
1	Control Check	10.00 ± 0.00a
2	Regent 6.2 FS @ 12.5 G A/100 kg (0.258 fl. oz./CWT)	2.67 ± 0.33b
3	Regent 6.2 FS @ 25.0 G A/100 kg (0.515 fl. oz./CWT)	4.00 ± 0.58b
4	Regent 6.2 FS @ 37.5 G A/100 kg (0.775 fl. oz./CWT)	4.00 ± 2.00b
5	Regent 6.2 FS @ 50.0 G A/100 kg (1.03 fl. oz./CWT)	4.67 ± 2.03b
6	Cruiser 600 FS @ 29.3 G A/100 kg (0.75 fl. oz./CWT)	3.67 ± 2.19b
7	Gaicho 480 @ 31.3 G A/100 kg (1.0 fl. oz./CWT)	10.00 ± 0.00a
8	Gaicho XT + Gaicho 480 @ 62 G A/100 kg	4.33 ± 1.20b

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]).

Grasshopper Control – Wheat (2005-06) – Seed treatment Test
 Planting date: 09/30/05
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Trt. No.	Treatment/ Product Name	Number alive (Mean ± SE)
1	Control Check	4.00 ± 0.00a
2	Regent 6.2 FS @ 12.5 G A/100 kg (0.258 fl. oz./CWT)	0.00 ± 0.00c
3	Regent 6.2 FS @ 25.0 G A/100 kg (0.515 fl. oz./CWT)	0.00 ± 0.00c
4	Regent 6.2 FS @ 37.5 G A/100 kg (0.775 fl. oz./CWT)	0.00 ± 0.00c
5	Regent 6.2 FS @ 50.0 G A/100 kg (1.03 fl. oz./CWT)	0.00 ± 0.00c
6	Cruiser 600 FS @ 29.3 G A/100 kg (0.75 fl. oz./CWT)	0.33 ± 0.33c
7	Gaucho 480 @ 31.3 G A/100 kg (1.0 fl. oz./CWT)	1.33 ± 0.67b
8	Gaucho XT + Gaucho 480 @ 62 G A/100 kg	0.00 ± 0.00c

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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