



2009 Greenbug Seed Treatment Trial – #3&4
Riley Co., KS.

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- Pest: Greenbug, *Schizaphis graminum* (Rondani)
- Crop: Wheat; 9 treatments
- Location: K-State growth chamber, Manhattan, KS
- Planting Dates: 01 April, 2009 (1st planting date); 08 April, 2009 (2nd planting date)
- Infestation Dates: 13 April, 2009 (Approx 10 aphids/plant) – 1st planting date, 1 week after plant emergence
27 April, 2009 (Approx 10 aphids/plant) – 2nd planting date, 2 weeks after plant emergence. Due to room limitations, the trial designed to rate greenbug damage two weeks after plant emergence had to be planted at a later date.
- Rating Dates: After plants were infested they were rated for greenbug damage 1 week after infestation and two weeks after infestation.
20 April, 2009, 27 April, 2009 (1st planting date, 1st infestation date)
04 May, 2009, 11 May, 2009 (2nd planting date, 2nd infestation date)
- Experimental Design: Completely Randomized. Each pot contained 4 replications and each replication consisted of 6 plants
- Evaluation: Counted number of live bugs on 5 plants/replication on 20 April, 2009 and 27 April, 2009 (1st infestation date); 04 May, 2009 and 11 May, 2009 (2nd infestation date)

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.

2009 Greenbug Seed Treatment Trial #3

Treatment #	Treatment	Greenbugs/5 plants (Mean ±SE) 20 April	Greenbugs/5 plants (Mean ±SE) 27 April
1	Gaucho XT - Bayer	0.25 ± 0.25b	1.50 ± 0.50c
2	Gaucho XT, imidacloprid, metalaxyl, tebuconazole	0.75 ± 0.48b	5.25 ± 3.64c
3	Untreated	237.50 ± 85.09a	637.50 ± 55.43a
4	Ipconazole - metalaxyl	187.50 ± 42.70a	562.50 ± 23.94b
5	Ipconazole – metalaxyl, imidacloprid Attendant 480	0.25 ± 0.25b	5.75 ± 2.81c
6	Vitaflo 280, Attendant 480	0.25 ± 0.25b	2.25 ± 0.63c
7	Dividend XL RTA, Cruiser 5 FS	1.50 ± 0.65b	6.50 ± 2.72c
8	Ipconazole, metalaxyl, imidacloprid,	1.50 ± 0.48b	30.50 ± 23.47c
9	Gaucho XT	0.25 ± 0.25b	0.75 ± 0.75c

Planting Date: 01 April, 2009

Infestation Date: 13 April, 2009 (Approx 10 aphids/plant) – 1 week after plant emergence

Rating Dates: 20 April, 2009, 27 April, 2009

2009 Greenbug Seed Treatment Trial #4

Treatment #	Treatment	Greenbugs/5 plants (Mean ±SE) 04 May	Greenbugs/5 plants (Mean ±SE) 11 May
1	Gaucho XT - Bayer	6.25 ± 3.38c	2.00 ± 1.08c
2	Gaucho XT, imidacloprid, metalaxyl, tebuconazole	10.75 ± 2.95c	13.50 ± 3.97c
3	Untreated	275.00 ± 14.43b	550.00 ± 20.41a
4	Ipconazole - metalaxyl	362.50 ± 23.94a	450.00 ± 20.41b
5	Ipconazole – metalaxyl, imidacloprid Attendant 480	0.00 ± 0.00c	27.00 ± 24.36c
6	Vitaflo 280, Attendant 480	0.75 ± 0.48c	39.50 ± 22.16c
7	Dividend XL RTA, Cruiser 5 FS	0.25 ± 0.25c	11.50 ± 3.38c
8	Ipconazole, metalaxyl, imidacloprid,	0.25 ± 0.25c	8.75 ± 4.50c
9	Gaucho XT	1.00 ± 0.41c	2.75 ± 1.25c

Planting Date: 08 April, 2009

Infestation Date: 27 April, 2009 (Approx 10 aphids/plant) – 1 week after plant emergence

Rating Dates: 04 May, 2009, 11 May, 2009

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