

University of Tennessee

Regional Soybean Seed Treatment - WTREC

Location: West Tennessee Research and Education Center at Jackson

Variety: Asgrow 4401 (April planting 4-21-08, May planting 5-19-08)

Application: 5-7-08, 5-13-08, 5-20-08, 5-29-08, 6-5-08, 6-11-08, Backpack sprayer (14.6 GPA, 40 PSI, FF 8002)

Ratings: Stand counts (10 row ft), Vigor rating (0-5 scale), %Defoliation (0-100 scale), Thrips counts (5 plants)

Plots: 8 Rows X 30 ft (RCBD, 4 Reps)

Investigators: Stewart

Description	Stand Count	Vigor Rating	% Defoliation	Thrips	Thrips	Thrips	Thrips	Thrips	Vigor Rating	
Rating Date	5/5/2008	5/12/2008	5/12/2008	5/12/2008	5/12/2008	5/12/2008	5/20/2008	5/20/2008	5/22/2008	
Pest Stage				Adult	Immature	Ad + Imm	Adult	Immature		
Trt-Eval Interval	14 DA-A	5 DA-B	5 DA-B	5 DA-B	5 DA-B	5 DA-B	7 DA-C	7 DA-C	2 DA-D	
Treatment	Rate									
1 April Cruiser	5 LB/GAL 1.3 fl oz/cwt	64.80 a	4.55 a	0.80 c	2.30 b	2.80 ab	5.00 b	5.50 b	5.80 bc	4.35 a
2 April Gaucho 600	5 LBA/GAL 2.4 fl oz/cwt	59.50 a	4.48 a	0.50 c	7.00 ab	0.50 b	7.50 b	20.80 a	2.80 c	4.33 a
3 April V-10170 (clothianidin)	5 LBA/GAL 3.5 fl oz/cwt	65.00 a	4.45 a	0.50 c	3.80 b	1.00 b	4.80 b	6.80 b	9.30 b	4.28 a
4 April Acephate	90 % 0.5 lb ai/a	66.30 a	4.48 a	2.80 b	3.30 b	5.50 a	8.80 b	7.30 b	2.30 c	4.35 a
5 April Untreated Check		61.30 a	4.20 b	4.00 a	11.00 a	6.50 a	17.50 a	26.30 a	17.80 a	4.05 b

Description	% Defoliation	Stand Count	Yield Bu/A
Rating Date	5/22/2008	5/22/2008	9/19/2008
Pest Stage			
Trt-Eval Interval	2 DA-D	2 DA-D	100 DA-H
Treatment	Rate		
1 April Cruiser	0.80 c	65.50 a	64.80 a
2 April Gaucho 600	1.50 bc	72.80 a	62.50 a
3 April V-10170 (clothianidin)	0.80 c	67.00 a	54.20 a
4 April Acephate	2.30 b	64.80 a	46.60 a
5 April Untreated Check	4.30 a	62.50 a	60.30 a

Means followed by same letter do not significantly differ (P=.05, LSD)

Description	Vigor Rating	% Defoliation	Thrips	Thrips	Thrips	Thrips	Yield Bu/A		
Rating Date	6/2/2008	6/2/2008	6/2/2008	6/2/2008	6/11/2008	6/11/2008	9/19/2008		
Pest Stage			Adult	Immature	Adult	Immature			
Trt-Eval Interval	4 DA-F	4 DA-F	4 DA-F	4 DA-F	6 DA-G	6 DA-G	100 DA-H		
Treatment	Rate								
6 May Cruiser	5 LB/GAL	1.3 fl oz/cwt	4.48 a	1.00 a	10.80 b	0.30 a	9.30 a	28.30 bc	62.00 a
7 May Gaucho 600	5 LBA/GAL	2.4 fl oz/cwt	4.53 a	1.50 a	21.00 a	0.00 a	15.80 a	16.00 c	62.50 a
8 May V-10170 (clothianidin)	5 LBA/GAL	3.5 fl oz/cwt	4.48 a	1.00 a	20.50 a	0.30 a	9.50 a	53.00 ab	62.10 a
9 May Acephate	90 %	0.5 lb ai/a	4.43 a	1.30 a	6.80 b	0.80 a	7.30 a	18.30 c	50.40 a
10 May Untreated Check			4.28 a	2.00 a	24.80 a	0.80 a	13.80 a	79.00 a	57.20 a

Means followed by same letter do not significantly differ (P=.05, LSD)



