

University of Tennessee

Regional Soybean Seed Treatment Trial in Soybeans

Location: Research and Education Center at Milan

Variety: Asgrow 4401 (April planting 4-23-08, May planting 5-16-08)

Application: 5-8-08, 5-13-08, 5-20-08, 5-28-08, 6-2-08, 6-9-08, Backpack sprayer (14.6 GPA, 40 PSI, FF 8002)

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

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

Investigtors: Stewart

Description	Stand Counts	Vigor Rating	% Defoliation	Thrips	Thrips	Total Thrips	Vigor Rating	% Defoliation	Yield
Rating Date	5/8/2008	5/12/2008	5/12/2008	5/12/2008	5/12/2008	5/20/2008	5/22/2008	5/22/2008	9/19/2008
Pest Stage				Adult	Immature	Ad + Imm			
Trt-Eval Interval	15 DA-A	4 DA-B	4 DA-B	4 DA-B	4 DA-B	7 DA-C	9 DA-C	9 DA-C	149 DA-A
Trt Treatment	Rate								
1 April Cruiser	50 a 5 LB/GAL 1.3 fl oz/cwt	4.55 a	0.3 c	2 b	0.8 c	14.3 b	4.58 a	1 c	48.4 a
2 April Gaucho 600	48.5 a 5 LBA/GAL 2.4 fl oz/cwt	4.58 a	0.8 bc	3 ab	0.3 c	22.3 ab	4.58 a	1.5 c	48.1 ab
3 April V-10170 (clothianidin)	51.8 a 5 LBA/GAL 3.5 fl oz/cwt	4.53 a	0.5 c	4.5 a	1.8 bc	22.3 ab	4.5 a	2.3 b	46.1 abc
4 April Acephate	47.5 a 90 % 0.5 lb ai/a	4.3 b	2 b	1.5 b	5.3 ab	14 b	4.58 a	2.3 b	41.8 a-d
5 April Untreated Check	47.3 a	4.3 b	3.5 a	2 b	8.8 a	37.5 a	4.25 b	5.5 a	40.8 bcd

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

Description	Vigor Rating	% Defoliation	Thrips	Thrips	% Defoliation	Vigor Rating	Thrips	Thrips	Yield		
Rating Date	5/30/2008	5/30/2008	6/2/2008	6/2/2008	6/6/2008	6/6/2008	6/11/2008	6/11/2008	9/19/2008		
Pest Stage			Adult	Immature			Adult	Immature			
Trt-Eval Interval	14 DA-E	14 DA-E	5 DA-F	5 DA-F	21 DA-E	21 DA-E	2 DA-H	2 DA-H	149 DA-A		
Trt Treatment	Rate										
6 May Cruiser	5 LB/GAL	1.3 fl oz/cwt	4.63 a	1.3 b	10 a	1.5 b	1 c	4.7 a	12.8 a	24 bc	43.6 abc
7 May Gaucho 600	5 LBA/GAL	2.4 fl oz/cwt	4.68 a	1 b	13 a	2.8 b	1.8 b	4.68 a	15.5 a	29 b	40.4 cd
8 May V-10170 (clothianidin)	5 LBA/GAL	3.5 fl oz/cwt	4.63 a	1 b	13 a	13 a	1.5 bc	4.55 a	22 a	76 a	44 abc
9 May Acephate	90 %	0.5 lb ai/a	4.45 ab	2.8 a	8.3 a	3.8 b	1.3 bc	4.7 a	15.8 a	13 c	41 bcd
10 May Untreated Check			4.33 b	2.3 a	15 a	13 a	4 a	4.53 a	25.5 a	77 a	34.9 d

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

Regional Soybean IST (Milan)



