

University of Tennessee

At Planting and Foliar Corn Insecticide Test for Southwestern corn borer, SWCB - Madison Co.

Location: West TN Research and Education Center (Jackson)

Variety: Asgrow 715 RR2 (non-Bt)

Application: 6-3-08 (8 leaf corn), 6-12-08 (10 leaf corn), 7-16-08 (early tassel)

Application: (A) Dermacor seed treatments 4 and 8 at planting; (B & C) Trts 2-3 on 6-3-08 and 6-12-08; (C) Trt 4 Intrepid on 6-12-08; (D) Trts 6,7,8 on 7-16-08

Application Equipment: 6-3-08 and 6-12-08 Backpack Sprayer (12.4 GPA, 40 PSI, FF 80015)
7-16-08 High-clearance Sprayer (8 GPA, 46 PSI, FF 8001)

Plots: 4 Rows x 30 ft (Factorial, 4 Reps)

Investigators: Stewart, Willis, S. Steckel

Note: SWCB were infested on 06/06/2008 to center two rows of treatments 1-4. Trt 2-4 were sprayed 3 days before infestation on 6-3-08.

Pest Name	Description	Stand Counts	SWCB Counts	SWCB Counts	SWCB Girdled Stalks	SWCB Tunnel Counts
Part Rated	Rating Date	5/12/2008	6/11/2008	6/16/2008	9/2/2008	9/2/2008
Sample Size	Sample Size Unit	31	4	4	60	10
Trt-Eval Interval		ROWFT	PLANT	PLANT	ROWFT	PLANT
		11 DA-A	8 DA-B	4 DA-C	48 DA-D	48 DA-D
Trt	Treatment Name	Rate				
1	SWCB infested Untreated		51.25 a	28.50 a	19.75 a	4.00 a
2	SWCB infested Asana XL	0.67 EC 7.64 fl oz/a	52.00 a	24.50 a	2.25 b	3.50 ab
3	SWCB infested Coragen	1.67 SC 3.07 fl oz/a	51.50 a	25.25 a	2.25 b	4.00 a
4	SWCB infested Dermacor	5 F 1.72 fl oz/a	51.00 a	23.50 a	3.50 b	2.75 abc
	Intrepid	2 F 4 fl oz/a				
5	SWCB uninfested Untreated		48.25 a			5.50 a 10.50 a
6	SWCB uninfested Asana XL	0.67 EC 7.64 fl oz/a	50.75 a			3.25 abc 4.25 b
7	SWCB uninfested Coragen	1.67 SC 3.07 fl oz/a	50.75 a			0.50 c 2.75 b
8	SWCB uninfested Dermacor	5 F 1.72 fl oz/a	50.00 a			0.75 bc 2.00 b
	Intrepid	2 F 4 fl oz/a				

Pest Name	Description	SWCB Girdled Stalks	Yield
Part Rated	Rating Date	9/12/2008	9/17/2008
Sample Size	Sample Size Unit	60	1
Trt-Eval Interval		ROWFT	A
		58 DA-D	175 DA-A
Trt	Treatment Name	Rate	
1	SWCB infested Untreated		6.75 bc 76.0 d
2	SWCB infested Asana XL	0.67 EC 7.64 fl oz/a	10.50 ab 101.1 c
3	SWCB infested Coragen	1.67 SC 3.07 fl oz/a	6.00 bc 127.2 ab
4	SWCB infested Dermacor	5 F 1.72 fl oz/a	7.75 bcd 116.4 bc
	Intrepid	2 F 4 fl oz/a	
5	SWCB uninfested Untreated		16.00 a 104.8 c
6	SWCB uninfested Asana XL	0.67 EC 7.64 fl oz/a	7.00 ab 125.6 b
7	SWCB uninfested Coragen	1.67 SC 3.07 fl oz/a	1.00 d 147.3 a
8	SWCB uninfested Dermacor	5 F 1.72 fl oz/a	1.50 cd 127.6 ab
	Intrepid	2 F 4 fl oz/a	

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