

University of Tennessee

Evaluation of Foliar Applications for Tarnished Plant Bugs - Madison Co.

Location: West TN Research and Education Center (Jackson)

Variety: PHY 330 W3FE (planted: 5-8-18)

Application: Appl A 7-6-18; Appl B 7-13-18; High clearance sprayer (9.4 GPA, 40 PSI, 8001FF)

Rating: 2 drop cloths per plot (10 row ft)

Plots: 4 Rows x 40 ft (RCBD, 4 Reps)

Investigators: Stewart, S.Steckel, Williams

TPB= Tarnished Plant Bug; Total PB = Tarnished + Clouded; Total SB = Green + Brown Stink Bugs

Description				TPB	Total PB	Total SB	TPB	Total PB	Total SB	TPB	Total PB	Total SB
Pest Stage Majority				Immature	Adult + Imm.	Adult + Imm.	Immature	Adult + Imm.	Adult + Imm.	Immature	Adult + Imm.	Adult + Imm.
Rating Date				7/10/2018	7/10/2018	7/10/2018	7/13/2018	7/13/2018	7/13/2018	7/18/2018	7/18/2018	7/18/2018
Trt-Eval Interval				4 DA-A	4 DA-A	4 DA-A	7 DA-A	7 DA-A	7 DA-A	5 DA-B	5 DA-B	5 DA-B
Treatment	Formulation	Rate	Appl									
1 Untreated			AB	17.75 a	17.75 a	0.75 a	24.25 a	24.25 a	0.00 a	56.50 a	59.00 a	1.25 ab
2 Carbine	50 %	2.8 oz wt/a	AB	9.50 b	9.75 b	0.00 a	19.75 a	19.75 a	0.25 a	14.25 cde	14.50 cde	2.00 a
3 Carbine	50 %	2.3 oz wt/a	AB	7.50 bc	8.50 bc	0.75 a	18.50 a	19.00 a	0.00 a	23.00 bc	23.75 bc	0.00 b
Brigade	2 LB/GAL	6.4 fl oz/a	AB									
4 Carbine	50 %	2.3 oz wt/a	AB	7.75 bc	8.00 bc	0.25 a	30.75 a	31.25 a	0.00 a	9.00 def	9.25 def	0.00 b
Orthene	97 %	0.75 lb/a	AB									
5 Carbine	50 %	2.3 oz wt/a	AB	4.25 c	4.50 c	0.00 a	20.75 a	21.00 a	0.00 a	7.00 ef	7.25 ef	0.00 b
Diamond	0.83 LB/GAL	6 fl oz/a	AB									
6 Centric	40 %	2 oz wt/a	AB	9.50 b	10.50 b	0.50 a	23.25 a	24.00 a	0.25 a	17.00 cd	18.50 cd	0.00 b
7 Transform	50 %	1.5 oz wt/a	AB	4.50 c	4.75 c	0.50 a	13.75 a	14.50 a	0.75 a	5.00 f	5.50 f	0.25 b
8 Sivanto	1.67 LB/GAL	7 fl oz/a	AB	8.25 bc	8.50 bc	0.25 a	29.25 a	30.00 a	0.50 a	36.75 b	37.25 b	1.00 ab
9 Sivanto	1.67 LB/GAL	14 fl oz/a	AB	7.50 bc	8.25 bc	1.25 a	27.25 a	27.50 a	0.25 a	24.50 bc	24.75 bc	1.00 ab
Treatment Prob(F)				0.0001	0.0001	0.6111	0.1238	0.1629	0.2618	0.0001	0.0001	0.0242

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

Continued below

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Description				TPB	Total PB	Total SB	Total PB	Total SB	Yield
Pest Stage Majority				Immature	Adult + Imm.	Adult + Imm.	Adult + Imm.	Adult + Imm.	Seed Cotton
Rating Date				7/20/2018	7/20/2018	7/20/2018	7/24/2018	7/24/2018	10/4/2018
Trt-Eval Interval				7 DA-B	7 DA-B	7 DA-B	11 DA-B	11 DA-B	(lbs/acre)
Treatment	Formulation	Rate	Appl						
1 Untreated			AB	50.50 a	54.25 a	1.75 ab	66.50 a	0.75 a	2527 d
2 Carbine	50 %	2.8 oz wt/a	AB	26.00 cde	26.50 cd	1.75 ab	34.00 b	1.00 a	2988 c
3 Carbine	50 %	2.3 oz wt/a	AB	32.50 bc	32.75 bc	0.00 c	48.75 ab	0.50 a	3070 bc
Brigade	2 LB/GAL	6.4 fl oz/a	AB						
4 Carbine	50 %	2.3 oz wt/a	AB	13.25 e	13.50 d	0.25 bc	21.00 c	0.50 a	3443 a
Orthene	97 %	0.75 lb/a	AB						
5 Carbine	50 %	2.3 oz wt/a	AB	16.25 de	16.25 d	0.50 bc	21.25 c	0.50 a	3480 a
Diamond	0.83 LB/GAL	6 fl oz/a	AB						
6 Centric	40 %	2 oz wt/a	AB	30.50 bcd	32.25 bc	0.25 bc	48.75 ab	1.50 a	2814 cd
7 Transform	50 %	1.5 oz wt/a	AB	12.00 e	12.25 d	1.00 bc	13.25 d	1.75 a	3412 ab
8 Sivanto	1.67 LB/GAL	7 fl oz/a	AB	42.75 ab	43.50 ab	0.75 bc	59.00 a	1.00 a	2508 d
9 Sivanto	1.67 LB/GAL	14 fl oz/a	AB	35.75 bc	36.75 bc	2.75 a	41.00 b	2.50 a	2807 cd
Treatment Prob(F)				0.0001	0.0001	0.0390	0.0001	0.5333	0.0001

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

Seed Cotton (lbs/acre)

