

University of Tennessee

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

Location: West TN Research and Education Center (Jackson)

Variety: DP 1822 B2XF (planted: 5-8-18)

Application: Appl A 7-9-18; Appl B 7-23-18; 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					7/13/2018	7/13/2018	7/13/2018	7/17/2018	7/17/2018	7/17/2018	7/20/2018	7/20/2018	7/20/2018	
Trt-Eval Interval					4 DA-A	4 DA-A	4 DA-A	8 DA-A	8 DA-A	8 DA-A	11 DA-A	11 DA-A	11 DA-A	
Trt	Treatment	Form	Form	Rate	Appl									
1	Untreated					8.50 a	10.00 a	0.25 a	29.25 a	32.00 a	1.00 a	62.75 a	65.00 a	0.75 bc
2	Transform	50	%	1.5 oz wt/a	AB	2.00 a	2.75 a	0.25 a	9.25 f	9.25 e	0.50 a	12.25 f	14.00 f	0.75 bc
3	Centric	40	%	2 oz wt/a	AB	4.25 a	4.75 a	0.25 a	22.25 abc	22.50 bcd	0.25 a	35.25 bc	37.50 bc	0.75 bc
4	Vydate	3.77	lb/gal	12.8 fl oz/a	AB	4.50 a	4.75 a	0.00 a	21.50 bcd	21.75 bcd	0.50 a	26.25 b-e	27.50 cde	0.25 c
5	Orthene	97	%	0.77 lb/a	AB	3.00 a	3.00 a	0.00 a	13.00 ef	13.00 e	0.00 a	21.00 def	23.00 def	1.00 ab
6	Brigade	2	lb/gal	6.4 fl oz/a	AB	4.25 a	4.25 a	0.25 a	23.75 abc	24.75 ab	0.00 a	31.75 bcd	32.50 bcd	1.00 abc
7	Bidrin	8	lb/gal	8 fl oz/a	AB	5.50 a	5.75 a	0.00 a	14.75 def	15.25 de	0.25 a	24.75 c-f	26.00 c-f	0.25 c
8	Admire Pro	4.6	lb/gal	1.7 fl oz/a	AB	4.00 a	4.25 a	0.00 a	22.50 abc	23.25 bc	0.50 a	29.00 b-e	29.75 b-e	1.25 abc
9	Carbine	50	%	2.85 oz wt/a	AB	9.25 a	9.50 a	0.25 a	26.00 ab	27.75 ab	0.50 a	39.00 b	42.25 b	1.75 ab
10	Diamond	0.83	lb/gal	9 fl oz/a	AB	7.25 a	7.50 a	1.50 a	16.75 cde	16.75 cde	1.00 a	17.00 ef	18.25 ef	2.50 a
Treatment Prob(F)						0.1594	0.1511	0.0814	0.0001	0.0001	0.7015	0.0001	0.0001	0.0367

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

Continued below

University of Tennessee

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

Location: West TN Research and Education Center (Jackson)

Variety: DP 1822 B2XF (planted: 5-8-18)

Application: Appl A 7-9-18; Appl B 7-23-18; 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	Yield	
Pest Stage Majority					Immature	Adult + Imm.	Adult + Imm.	Immature	Adult + Imm.	Adult + Imm.	Seed Cotton	
Rating Date					7/27/2018	7/27/2018	7/27/2018	7/30/2018	7/30/2018	7/30/2018	10/4/2018	
Trt-Eval Interval					4 DA-B	4 DA-B	4 DA-B	7 DA-B	7 DA-B	7 DA-B	(lbs/acre)	
Trt	Treatment	Form	Form	Rate	Appl							
1	Untreated					55.25 a	62.25 a	1.25 a	56.25 a	63.75 a	1.00 a	3036 d
2	Transform	50	%	1.5 oz wt/a	AB	5.00 e	6.50 f	2.00 a	6.00 d	8.25 e	0.50 a	3865 ab
3	Centric	40	%	2 oz wt/a	AB	16.00 d	16.50 ef	0.00 a	22.75 bc	24.25 cd	0.75 a	3579 bc
4	Vydate	3.77	lb/gal	12.8 fl oz/a	AB	26.00 c	27.50 cd	0.50 a	25.00 bc	27.25 c	0.50 a	3469 bcd
5	Orthene	97	%	0.77 lb/a	AB	6.00 e	6.00 f	0.00 a	8.00 d	9.00 e	0.00 a	4107 a
6	Brigade	2	lb/gal	6.4 fl oz/a	AB	37.25 b	38.75 b	0.25 a	50.75 a	53.50 ab	0.25 a	3451 bcd
7	Bidrin	8	lb/gal	8 fl oz/a	AB	14.25 de	14.75 ef	0.00 a	15.75 c	16.50 d	0.25 a	3441 bcd
8	Admire Pro	4.6	lb/gal	1.7 fl oz/a	AB	29.25 bc	31.00 bc	0.50 a	34.00 ab	36.25 bc	0.50 a	3302 cd
9	Carbine	50	%	2.85 oz wt/a	AB	28.25 bc	34.25 bc	0.75 a	23.75 bc	27.25 cd	1.50 a	3525 bc
10	Diamond	0.83	lb/gal	9 fl oz/a	AB	15.50 d	17.25 de	0.25 a	16.50 c	17.25 d	0.25 a	3685 abc
Treatment Prob(F)						0.0001	0.0001	0.4470	0.0001	0.0001	0.5104	0.0069

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

Seed Cotton (lbs/acre)

