

University of Tennessee

Evaluation of Different Spray Intervals for Tarnished Plant Bug - Madison Co.

Location: West TN Research and Education Center (Jackson)

Variety: DP1522 B2XF (planted: 5-8-18)

Application: Appl A 7-9-18; Appl B 7-13-18; Appl C 7-17-18; Appl D 7-19-18; 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

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	7/19/2018	7/19/2018	7/19/2018
Trt-Eval Interval					4 DA-A	4 DA-A	4 DA-A	4 DA-B	4 DA-B	4 DA-B	2 DA-C	2 DA-C	2 DA-C
Treatment	Formulation	Rate	Appl	Interval									
1 Untreated					7.25 a	7.50 a	0.25 a	27.25 a	28.00 a	0.25 a	25.75 a	27.25 a	0.25 a
2 Transform	50 %	1.75 oz wt/a	A	N/A	0.75 b	0.75 b	0.00 a	5.50 b	5.75 b	0.00 a	8.50 b	9.25 b	0.25 a
3 Transform	50 %	2.25 oz wt/a	A	N/A	1.25 b	1.25 b	0.00 a	5.50 b	5.50 b	0.25 a	3.50 d	3.50 d	0.25 a
Orthene	97 %	0.75 lb/a	A										
4 Transform	50 %	1.75 oz wt/a	A	4 Days	2.00 b	2.25 b	0.00 a	3.75 b	3.75 b	0.00 a	3.50 cd	4.00 cd	0.25 a
Orthene	97 %	0.75 lb/a	B										
5 Transform	50 %	1.75 oz wt/a	A	7 Days	1.50 b	1.50 b	0.25 a	7.50 b	7.50 b	0.25 a	1.75 d	1.75 d	0.00 a
Orthene	97 %	0.75 lb/a	C										
6 Transform	50 %	1.75 oz wt/a	A	10 Days	1.50 b	1.75 b	0.25 a	6.00 b	6.50 b	0.75 a	6.75 bc	7.00 bc	0.75 a
Orthene	97 %	0.75 lb/a	D										
Treatment Prob(F)					0.0032	0.0039	0.7508	0.0001	0.0001	0.7354	0.0001	0.0001	0.7736

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

Continued below

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

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

Investigators: Stewart, S.Steckel, Williams

Description					TPB	Total PB	Total SB	Seed Cotton
Pest Stage Majority					Immature	Adult + Imm.	Adult + Imm.	lbs/acre
Rating Date					7/24/2018	7/24/2018	7/24/2018	10/4/2018
Trt-Eval Interval					5 DA-D	5 DA-D	5 DA-D	
Treatment	Formulation	Rate	Appl	Interval				
1 Untreated					31.00 a	34.50 a	0.00 a	3520 a
2 Transform	50 %	1.75 oz wt/a	A	N/A	10.25 b	13.50 b	0.00 a	4103 a
3 Transform	50 %	2.25 oz wt/a	A	N/A	8.00 bc	10.75 bc	0.25 a	3798 a
Orthene	97 %	0.75 lb/a	A					
4 Transform	50 %	1.75 oz wt/a	A	4 Days	4.50 c	6.75 bc	0.50 a	3880 a
Orthene	97 %	0.75 lb/a	B					
5 Transform	50 %	1.75 oz wt/a	A	7 Days	4.00 bc	4.00 cc	0.50 a	4172 a
Orthene	97 %	0.75 lb/a	C					
6 Transform	50 %	1.75 oz wt/a	A	10 Days	3.75 c	4.00 d	0.25 a	3979 a
Orthene	97 %	0.75 lb/a	D					
Treatment Prob(F)					0.0007	0.0006	0.6709	0.2871

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