

**Table 1. Efficacy ratings for pest management tools against invertebrate pests in Florida strawberry.**

Pest Management Tools \ Pests	TSM	Other Mites	FT	SB	Aphids	FAW	SAW	CEW	TB	SMC	LCB	SLR	OLT	TPB	Whiteflies	Frujt flies	Mole Crickets	Ants	Slugs
	Registered materials																		
Abamectin	G	G	F		F										F				
Acequinocyl	E																		
Azadirachtin	F		F	F	F	F	F	F	F	G		F	F		G	F			
<i>Bacillus thuringiensis</i>						G	G	G	G	G		G	G						
<i>Beauveria bassiana</i>	P		P	P	P	P	P	P	P	P		P	P		P			P	
Bifenazate	E																		
Bifenthrin	P		F	G	P	F	F	F	F			G						P	
Boric acid																			
Canola oil	...																		
Carbaryl																	P	F	
Chlorpyrifos	...																		
Diazinon	P	G	F	G	G														
Dicofol	P	G																	
Endosulfan		G	F		F	F		F	F						F				
Etoxazole	E																		
Fenbutatin-oxide	G																		
Fenpropathrin	P		F	G	F	F	F	F	F	G		G			F				
Hexythiazox	E																		
Imidacloprid			P		E										E				
Malathion	P		F	G	F	F	F	F				F			P	G			

**Abbreviations:**

TSM = two-spotted spider mite  
 FT = flower thrips  
 SB = sap beetles  
 FAW = fall armyworm  
 SAW = southern armyworm  
 CEW = corn earworm

**Abbreviations:**

TB = tobacco budworm  
 SMC = saltmarsh caterpillar  
 LCB = lesser cornstalk borer  
 SLR = strawberry leafroller  
 OLT = omnivorous leaf-tier  
 TPB = tarnished plant bug

**Rating scale:**

E = excellent;  
 G = good;  
 F = fair;  
 P = poor;

**Rating scale:**

? = research needed;  
 ... = not used;  
 \* = used but not a stand alone management tool

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Metaldehyde																			
Methoprene																		G	
Methoxyfenozide						G	G	G	G	G									
Naled	P		F		F														
Neem oil	...																		
Paraffinic oil	...																		
Insecticidal soap	...																		
Propargite	...																		
Pyrethrins + rotenone	P		F									G							
Pyrethrins + piperonyl butoxide			F	F	F	P	P	P	P	G		G	G		P	E	P	P	
Pyriproxyfen	E				F										E				
Spinosad			G			G	G	G				E	E						
Spiromesifen																			
Sulfur																			
Thiamethoxam					G										E				
New Chemistries - IR4 (■ current IR-4 project)																			
■ Fenpyroximate	E																		
■ Milbemectin	G	?	?		G										F				

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Cultural/Non-chemical																			
Certified pest-free plants	EF	EG			F														
Crop rotation											F						F	F	
Removing ripe fruit from field				G															
Resistant varieties	EF																		
Sanitation	G	G		G											G	G			G
Traps																			
Weed control	G																		G
Biological controls																			
Beneficial mites	E	P	P																
Damsel bugs					P	P	P	P	P	P			P	P					
Big-eyed bugs	P				P														
Ground beetles						P	P	P	P	P			P	P					
Lacewings	P				P	P	P	P	P	P			P	P					
Ladybird beetles	F				F														
Minute pirate bugs	P	P	F			P	P	P	P	P		P	P		P				
Parasitic wasps				?	G	F	F	F	F	F		F	F		G				
Predatory midges	P				P														
Predatory thrips	F	?																	

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Spiders	P		P			P	P	P	P	P		P	P						
Syrphid fly larvae	P				F														

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