



Efficacy Ratings for Insecticides, Acaricides, and Nematicides

	Twany/shortwinged mole cricket	Southern mole cricket	Japanese beetles	Masked chafers	Green June beetles	May/June beetle	Oriental beetle	Sugarcane beetle	Hunting/Bluegrass billbug	Armyworm	Black cutworm	Sod webworm	Southern chinch bug	Two-lined spittlebug	Red imported fire ant	Atenius/Aphodius	Ground pearls	Eriophyd Mites
Registered Materials:																		
Hydramethylnon (Amdro)	N	N	N											E		?	?	
Fenoxycarb (Award)	N	N	N											E		?	?	
Abamectin (Ascend)	N	N	N											E		?	?	
Spinosad (Conserve, GF-120 Naturalyte Justice)	N	N	N						G	G	E			G		?	?	
Pyriproxufen (Distance)	N	N	N											G-E		?	?	
Chlorpyrifos (Dursban)	N	N	P	P	G	P	P	?	E	G	E	E		M*N	P		?	
Extinguish	N	N												E			?	
Halofenozide (Mach 2)	N	N	E	E	E	E	G	?	E	G	G	?		N	E		?	
Acephate (Orthene)	F-G	F-G						?	G	G	?			G*			?	
Acephate (Pinpoint)														?				
Carbaryl (Sevin)	Bait G	G	F	F	E	F	F		N	G	G	G	G-E	F*	F	?	H	
Bifenthrin (Talstar)	G-E	G							E	E	E	E	E	G		?		
Lambda cyhalothrin (Scimitar)	F-G	F-G							E	E	E	E	F-G	G*		?		
Cyfluthrin									E	E	E	E	F-G	G*		?		
Permethrin	F-G	F-G							E	E	E	E	E-G	G*		?		
Cypermethrin		F-G							E	E	E	E	G-E	G*		?		
Trichlorfon (Dylox)		G-E	G-E	G-E	G-E	G-E	G-E		E	G	G	G	E	N	G-E	?		
Imidacloprid	G-E	G	E	E	E	E	E		E					N	E	?		
Deltamethrin (Suspend)	F-G	F-G										F-G		G				
Fipronil (Chipco Choice, Topchoice, Ceasefire, BASF)	E	E												E				
Azadirachtin									G	G	G							
Bacillus thuringiensis (Dipel, Thuricide, Javelin)									G	G	G							
Ethoprop (Mocap)	G	G									G			N				
Indoxacarb (Avaunt)	F-G	F-G							? G	?	?							
chemical name (Arena)	F-G	F-G							?	?	?							
Dinotefuran (Safari)									?	?	?					?		
Cultural non-chemical:																		
Resistant varieties																		
Sanitation																	Y	
Sticky Traps																		
Use of certified pest-free plants	Y	Y	Y				Y							Y			Y	
Weed Control																		
Fertility management												Y					Y	
Irrigation management																		
Re-tilling fields																		
Encouraging natural enemies	Y	Y																
Reducing nitrogen levels																		
Proper harvest times																		
Spot spraying	Y	Y										Y	Y	Y				
Mowing height				Y	Y	Y	Y						Y			Y		
Biological Controls																		
Aphid midges																		
Bacillus popillae (Milky spore disease)		F																
Beneficial mites																		
Big-eyed bugs																		
Beneficial nematodes	F	F																
Green lacewings																		
Ladybird beetles																		
Parasites														Y				
Spiders														Y				

Rating scale: E = excellent; G = good; F = fair; P = poor; ? = more research needed; N = not used; Y = technique is used * = Used but not necessarily a stand alone management tool (M=mound drench)