

HOME LAWN INSECT CONTROL

The following table provides home lawn insect control recommendations with pesticides for use by the homeowner and with pesticides for use by licensed professionals only. All chemical information provided below is given with the understanding that no endorsement of named products is intended, nor is criticism implied of similar products that are not mentioned. Individuals who use pesticides are responsible for ensuring that the intended use complies with current regulations and conforms to the product label. Before purchasing or using any pesticide, always read and carefully follow the label directions.

Insecticides listed below are identified by common chemical name. A trade name in parentheses may also be listed as a convenience for the reader. Additional trade names that may be available locally are listed in the HOMEOWNER INSECTICIDE PRODUCT LIST beginning on page 271.

Pests	Insecticide and Formulation	Amount Per 1,000 Square Feet	Precautions and Remarks
Ant (also see Red Imported Fire Ant)	carbaryl (various)	see label	Treat mounds and surrounding area or apply broadcast.
	clothianidin + bifenthrin (Aloft) SC	0.27-0.54 fl oz	
	G	1.8-3.6 lb	
	hydramethylnon* (Maxforce G)	see label	
	pyrethroids* (Advanced Lawn, Bug-B-Gone, DeltaGard, Scimitar, Talstar, Tempo)	see label	
Ant, Red Imported Fire	Apply all bait products when ants are active and soil temperature is above 60°F. Do not treat if rain is anticipated within 6 hours.		
	abamectin B1* (Ascend, Varsity) 0.011% bait	5-7 Tbsp/mound 1 lb/acre	Mound-to-mound treatment rate Broadcast rate
	acephate* (Orthene T, T&O) 75 S (Ortho Orthene Fire Ant Killer1) 50 S	1-2 tsp/mound 1 Tbsp/mound	Distribute uniformly over mound. For best results, apply early in morning or late afternoon.
	carbaryl (various)	see label	Use as a mound drench.
	d-limonene (Safer Brand Fire Ant Killer)	see label	Mound treatment (acceptable to organic growers)
	fenoxycarb (Award, Hi-Yield Fire Ant Bait)	1-3 Tbsp/mound 1-1.5 lb/acre	Mound-to-mound treatment rate Broadcast rate This is an insect growth regulator (IGR).
	fipronil (Chipco Firestar) fire ant bait	5 Tbsp/mound 1.5-15 lb/acre	Mound-to-mound treatment rate Broadcast rate
	(Top Choice .0143%) granular contact insecticide	87 lb/acre	Broadcast only
			The fipronil products have the same active ingredient but are different formulations; read and follow the label.
	hydramethylnon (Amdro, Amdro Pro, MaxForce Fire Ant Granular Bait)	2-5 Tbsp/mound 1-1.5 lb/acre	Mound-to-mound treatment rate Broadcast rate
	indoxacarb (Advion, Spectracide Fire Ant Killer Plus Preventer Once & Done, Over N Out Fire Ant Killer Mound Treatment)	see label	

*Several trade names available. Check label for active ingredient. Always follow label instructions.

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Ant, Red Imported Fire	pyrethroids (various)	see label	
	bifenthrin (Ortho MAX Fire Ant Killer Broadcast Granules, Over 'N Out, Talstar)		
	cyfluthrin (Bayer Advanced Lawn Fire Ant Killer, Tempo)		
	deltamethrin (Eliminator Ant Killer Dust)		
	λ-cyhalothrin (Spectracide Fire Ant Killer Granules)		
	permethrin (Spectracide Bug Stop Insect Control Granules)		
	pyriproxyfen (Distance)	1-4 Tbsp/mound 1-1.5 lb/acre	Mound-to-mound treatment rate Broadcast rate. This is an IGR.
	S-methoprene (Extinguish)	3-5 Tbsp/mound 1-1.5 lb/acre	Mound-to-mound treatment rate Broadcast rate. This is an IGR.
	S-methoprene + hydramethylnon (Amdro Firestrike, Extinguish Plus)	see label	Mound-to-mound and broadcast treatments. This is an IGR plus a toxicant.
	spinosad (Come and Get It, Conserve Fire Ant Bait, Ferti-lome Borer, Ortho Fire Ant Killer Bait, Payback) bait	see label	Acceptable to organic growers. Follow label directions precisely. Repeat treatments usually required. Use fresh bait.
Armyworm, Fall Armyworm, Cutworm	azadirachtin* (Azatrol, Neemix, Turplex, etc.)	see label	
	carbaryl (various)	see label	Apply as a coarse spray in sufficient water for good coverage. Treat when first injury noted. Repeat as needed. Do not water into soil. Do not cut grass for one to three days after treatment.
	chlorantraniliprole (Acelepryn)		
	SC	0.046-0.092 fl oz	
	G	1.15-2.3 lb	
	halofenozide* (Mach 2)		Can be applied two times per season at these rates.
	2 SC	1.5 fl oz	
	1.5 G	1.0 lb	
	indoxacarb (Provaunt) G	1.15-2.3 lb	
	pyrethroids* (Advanced Lawn, Bug-B-Gone, DeltaGard, Scimitar, Talstar, Tempo)	see label	
spinosad A and D (Conserve) SC	0.25-1.25 fl oz	Rate varies with size and species.	
trichlorfon* (Dylox, Proxol) 80 SP	1.5-3.0 oz		
various entomogenous nematode and <i>B.t.</i> products	see label		
Bee and Wasp	carbaryl (various)	see label	Most of these are parasitic on soil pests, especially grubs; therefore, they are beneficial. Sometimes there are so many bees and wasps burrowing in the soil that chemical treatments are necessary to prevent damage or reduce danger from stings. Spot spray ground nest openings. Bee, wasp and hornet sprays in pressurized cans are also effective.
	pyrethroids* (Advanced Lawn, Bug-B-Gone, DeltaGard, Scimitar, Talstar, Tempo)	see label	

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Chinch Bug	<i>Beauveria bassiana</i> * (Naturalis-T)	see label	
	carbaryl (various)	see label	
	pyrethroids* (Advanced Lawn, Bug-B-Gone, DeltaGard, Scimitar, Talstar, Tempo)	see label	
Eriophyid Mites (zoysiagrass mite and bermudagrass stunt mite)	azadirachtin (Azatrol)	see label	Registered for use on eriophyid mites in turfgrass.
	bifenthrin (Allectus GC SC, Bifenthrin 2EC, Quali-Pro Bifenthrin, Talstar F)	see label	Registered for use on eriophyid mites in turfgrass.
	deltamethrin (DeltaGard T&O 5SC)	see label	Registered for use on eriophyid mites in turfgrass.
	λ-cyhalothrin (Quali-Pro Lambda GC-O, Scimitar)	see label	Registered for use on eriophyid mites in turfgrass.
Grasshopper	carbaryl (various)	see label	
Grub, Green June Beetle (Only) (also see White Grub)	carbaryl (various)	see label	
Grub, White (Japanese beetle, southern chafer, European chafer, billbug, green June beetle)	carbaryl (various)	see label	
	chlorantraniliprole (Acelepryn) G	1.15-2.3 lb	
	clothianidin (Arena) G WDG	see label	Toxic to aquatic invertebrates. Do not apply near or allow runoff to surface or intertidal areas.
	clothianidin + bifenthrin (Aloft) SC	0.27-0.54 fl oz	
	G	1.8-3.6 lb	
	halofenozide* (Mach 2) 2 SC and 1.5 G	see label	
	imidacloprid (Merit) (Advanced Lawn Grub Control)	see label	
	thiamethoxam (Meridian)	see label	Highly toxic to aquatic invertebrates.
	trichlorfon* (Dylox, Proxol) 80 SP	3.75 oz	
	various entomogenous nematode products	see label	Must be <i>Heterorhabditid</i> species to be effective.
Mole Cricket	carbaryl (various)	see label	
	imidacloprid (Advanced Lawn Grub Control, Merit)	see label	
	indoxacarb (Advion Mole Cricket Bait) (Provaunt) SC	see label 0.275 fl oz	
	pyrethroids* (Advanced Lawn, Bug-B-Gone, DeltaGard, Menace, Scimitar, Talstar, Tempo)	see label	
	various entomogenous nematode products	see label	Requires irrigation.

*Several trade names available. Check label for active ingredient. Always follow label instructions.

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Slug, Snail	mesurol 2% B	1 lb	Apply in late afternoon.
	metaldehyde	see label	Apply in late afternoon.
Sod Webworm (also Burrowing Sod Webworm)	carbaryl (various)	see label	Do not water in sprays. Use 6 gal water plus the insecticide per 1,000 sq ft. Treat in late afternoon. Do not cut grass for 1 to 3 days after treatment. Granules must be watered in.
	halofenozide* (Mach 2)		Can be applied two times per season at these rates.
	2 SC	1.5 fl oz	
	1.5 G	1.0 lb	
	pyrethroids* (Advanced Garden, DeltaGard, Scimitar, Talstar, Tempo)	see label	
	spinosad A and D (Conserve) SC	0.25-1.25 fl oz	Rate varies with size and species.
	trichlorfon* (Dylox, Proxol) 80 SP	1.5-3.0 oz	Use sufficient water for good coverage.
	various entomogenous nematode and <i>B.t.</i> products	see label	
Spittlebug and Leafhopper	acephate* (Orthene T, T&O) 75 S	1 oz	Distribute uniformly over mound. For best results, apply early in morning or late afternoon.
	carbaryl (various)	see label	
	pyrethroids (various)	see label	Cut grass to its recommended height and remove clippings prior to application. Various pyrethroid materials are available in a variety of homeowner formulations for use as broad-spectrum contact insecticides. Common active ingredients include bifenthrin, cyfluthrin, cypermethrin, deltamethrin, λ -cyhalothrin, permethrin and tralomethrin.

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