

## 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 324.

Pest	Insecticide and Formulation	Amount Per 1,000 Square Feet	Precautions and Remarks
<b>Ant</b> (also see <b>Red Imported Fire Ant</b> )	bifenthrin 0.3% (Ortho)	see label	
	bifenthrin 0.058% + carbaryl 2.3% (Duocide)	4-8 lb	Product must be watered in immediately after application to lawns. DO NOT apply more than 4 times per year to lawns. The minimum reapplication interval to lawns is 7 days. Will only kill pests present at the time of application. Pest must be directly contacted to be effective.
	carbaryl (GardenTech Sevin)	see label	Treat mounds and surrounding area or apply broadcast.
	clothianidin + bifenthrin (Aloft) SC G	0.27-0.54 fl oz 1.8-3.6 lb	Toxic to fish and aquatic invertebrates. DO NOT apply near or allow runoff into surface waters or intertidal areas.
	cyfluthrin 0.75% (Bayer Advanced)	see label	
	gamma-cyhalothrin 0.08% (Spectracide)	see label	
	hydramethylnon* (Maxforce G)	see label	
	lambda-cyhalothrin 0.5% (Bonide)	see label	
	other pyrethroids* (DeltaGard, Scimitar, Talstar, Tempo)	see label	
	permethrin 10% (Hi-Yield)	see label	
	pyrethroids* (Advanced Lawn, Bug-B-Gone, Deltagard, Scimitar, Talstar, Tempo, Wisdom and others) Some ants are susceptible to fire ant products	See label	Many pyrethroids are toxic to fish and aquatic invertebrates. Apply these products only as specified on the label.
zeta-cypermethrin + bifenthrin + imidacloprid (Triple Crown T&O, Triple Crown Golf)	0.46-0.80 fl oz	Triple Crown Golf is a <b>Restricted Use Pesticide</b> .	
<b>Ant, Red Imported Fire</b>	<b>Apply all bait products when ants are active and soil temperature is above 60 degrees F. DO NOT treat if rain is anticipated within 6 hours.</b>		
	abamectin B1* (Ascend, Award II) 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 the morning or late afternoon.
	bifenthrin 0.058% + carbaryl 2.3% (Duocide)	4-8 lb	Product must be watered in immediately after application to lawns. DO NOT apply more than 4 times per year to lawns. The minimum reapplication interval to lawns is 7 days. Will only kill pests present at the time of application. Pest must be directly contacted to be effective.
	carbaryl (GardenTech Sevin)	see label	Use as a mound drench.
	clothianidin + bifenthrin (Aloft LC SC)	2.3-3.6 lb	Toxic to fish and aquatic invertebrates. DO NOT apply near or allow runoff into surface waters or intertidal areas.
	d-limonene (Orange Guard)	see label	Mound treatment (acceptable to organic growers).

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

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<b>Ant, Red Imported Fire (cont.)</b>	<b>Apply all bait products when ants are active and soil temperature is above 60 degrees F. DO NOT treat if rain is anticipated within 6 hours.</b>		
	fipronil 0.0143% granular insecticide (Quali-Pro Fipronil, Taurus G, Top Choice)	2 lb <b>OR</b> 87 lb/acre	Broadcast only
	fipronil (Maxforce FC) bait	see label	Apply as a mound treatment or broadcast bait.
	fipronil + bifenthrin + lambda-cyhalothrin (Taurus Trio G)	2 lb	Apply as a broadcast. Irrigate prior to treatment.
	hydramethylnon (Amdro, Amdro Pro, Maxforce Fire Ant Granular Bait)	2-5 Tbsp/mound 1.0-1.5 lb/acre	Mound-to-mound treatment rate Broadcast rate
	indoxacarb (Advion, Ortho Fire Ant Killer Mound Bait))	see label	
	metaflumizone (Siesta Fire Ant Bait) 0.063%	1.0-1.5 lb/acre 2-4 Tbsp/mound	Broadcast rate Mound-to-mound treatment rate DO NOT exceed 6.0 lb/acre total or 4 applications in a one-year period.
	pyrethroids (various brands) bifenthrin (Ortho MAX Fire Ant Killer Broadcast) Granules, Over 'n Out, Talstar) cyfluthrin (Bayer Advanced Lawn Fire Ant Killer, Tempo) deltamethrin (DeltaGard G, D-Fense SC) lambda-cyhalothrin (Spectracide Fire Ant Killer Granules)	see label	
	pyriproxyfen (Distance)	1-4 Tbsp/mound 1.0-1.5 lb/acre	Mound-to-mound treatment rate Broadcast rate. This is an insect growth regulator (IGR).
	S-methoprene (Extinguish)	3-5 Tbsp/mound 1.0-1.5 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 (Ferti-lome Come and Get It Fire Ant Killer)	see label	Acceptable to organic growers. Follow label directions precisely. Repeat treatments usually required. Use fresh bait.
	thiamethoxam 11.6% + lambda-cyhalothrin 3.5% (Tandem)	see label	Apply a single application of 28 fl. oz. per acre or apply two applications of 14 fl. oz. per acre on a 3 to 5-week interval.
	zeta-cypermethrin + bifenthrin + imidacloprid (Triple Crown T&O, Triple Crown Golf)	0.46-0.80 fl oz	Triple Crown Golf is a <b>Restricted Use Pesticide</b> .
	<b>Armyworm, Fall Armyworm, Cutworm</b>	azadirachtin* (Azatrol, Neemix, Turplex, etc.)	see label
<i>Bacillus thuringiensis/B.t.</i> (various brands)		see label	Small armyworms only.
bifenthrin 0.3% (Ortho)		see label	

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<b>Armyworm, Fall Armyworm, Cutworm</b>	bifenthrin 0.058% + carbaryl 2.3% (Duocide)	2 lb	Product must be watered in immediately after application to lawns. DO NOT apply more than 4 times per year to lawns. The minimum reapplication interval to lawns is 7 days. Will only kill pests present at the time of application. Pest must be directly contacted to be effective.
	carbaryl (GardenTech Sevin)	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 1 to 3 days after treatment.
	chlorantraniliprole (Acelepryn) SC G	0.046-0.092 fl oz 1.15-2.3 lb	
	chlorantraniliprole (GrubEx1)	see label	
	cyfluthrin 0.75% (Bayer Advanced)	see label	
	gamma-cyhalothrin 0.08% (Spectracide)	see label	
	indoxacarb (Provaunt) WDG	0.046-0.092 oz	
	lambda-cyhalothrin 0.5% (Bonide)	see label	
	other pyrethroids* (DeltaGard, Scimitar, Talstar, Tempo)	see label	
	permethrin 10% (Hi-Yield)	see label	
	spinosad A and D (Conserve SC)	0.25-1.25 fl oz	Rate varies with size and species.
	thiamethoxam 11.6% + lambda-cyhalothrin 3.5% (Tandem)	see label	Apply a single application of 28 fl. oz. per acre or apply two applications of 14 fl. oz. per acre on a 3 to 5-week interval.
	trichlorfon* (Bayer Advanced)	see label	
various entomogenous nematode and <i>B.t.</i> products	see label		
zeta-cypermethrin + bifenthrin + imidacloprid (Triple Crown T&O, Triple Crown Golf)	10-15 fl oz/acre	Triple Crown Golf is a <b>Restricted Use Pesticide.</b>	
<b>Bee and Wasp</b>	bifenthrin 0.3% (Ortho)	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.
	carbaryl (GardenTech Sevin)	see label	
	cyfluthrin 0.75% (Bayer Advanced)	see label	
	other pyrethroids* (DeltaGard, Scimitar, Talstar, Tempo)	see label	
<b>Billbug</b>	chlorotraniliprole (Acelepryn) G SC	1.15 to 2.3 lb 0.184 to 0.46 fl oz	Toxic to aquatic invertebrates
	zeta-cypermethrin + bifenthrin + imidacloprid (Triple Crown T&O, Triple Crown Golf)	10-20 fl oz/acre	Triple Crown Golf is a <b>Restricted Use Pesticide.</b>
<b>Chinch Bug</b>	<i>Beauveria bassiana</i> * (Naturalis-T)	see label	
	bifenthrin 0.3% (Ortho)	see label	

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

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Pest	Insecticide and Formulation	Amount Per 1,000 Square Feet	Precautions and Remarks
<b>Chinch Bug</b> (cont.)	bifenthrin 0.058% + carbaryl 2.3% (Duocide)	2-4 lb	Product must be watered in immediately after application to lawns. DO NOT apply more than 4 times per year to lawns. The minimum reapplication interval to lawns is 7 days. Will only kill pests present at the time of application. Pest must be directly contacted to be effective.
	carbaryl (GardenTech Sevin)	see label	
	chlorantraniliprole (Acelepryn) G SC	1.15-2.3 lb 0.184-0.46 fl oz	Suppression ONLY. Toxic to aquatic invertebrates.
	clothianidin + bifenthrin (Aloft) SC G	0.27-0.54 fl oz 1.8-3.6 lb	Toxic to fish and aquatic invertebrates. DO NOT apply near or allow runoff into surface waters or intertidal areas.
	cyfluthrin 0.75% (Bayer Advanced)	see label	
	dinotefuran (Zylam 20 SG)	1.0 fl oz	For suppression, make application prior to hatching of first instar nymphs.
	gamma-cyhalothrin 0.08% (Spectracide)	see label	
	lambda-cyhalothrin 0.5% (Bonide)	see label	
	other pyrethroids* (DeltaGard, Scimitar, Talstar, Tempo)	see label	
	permethrin 10% (Hi-Yield)	see label	
thiamethoxam 11.6% + lambda-cyhalothrin 3.5% (Tandem)	see label	Apply when insects are first observed. Repeat applications may be necessary. Highly toxic to fish and aquatic invertebrates.	
	zeta-cypermethrin + bifenthrin + imidacloprid (Triple Crown T&O, Triple Crown Golf)	20-35 fl oz/acre	Triple Crown Golf is a <b>Restricted Use Pesticide</b> .
<b>Eriophyid Mites</b> (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 (D-Fense SC)	see label	Suppression ONLY.
	lambda-cyhalothrin (Quali-Pro Lambda GC-O, Scimitar)	see label	Registered for use on eriophyid mites in turfgrass.
	zeta-cypermethrin + bifenthrin + imidacloprid (Triple Crown T&O, Triple Crown Golf)	10-20 fl oz/acre	Triple Crown Golf is a <b>Restricted Use Pesticide</b> .
<b>European Crane Fly</b>	bifenthrin (Ortho Bug-B-Gon MAX Insect Killer for Lawns)	see label	
	bifenthrin 0.058% + carbaryl 2.3% (Duocide)	4-8 lb	Product must be watered in immediately after application to lawns. DO NOT apply more than 4 times per year to lawns. The minimum reapplication interval to lawns is 7 days. Will only kill pests present at the time of application. Pest must be directly contacted to be effective.
	carbaryl (GardenTech Sevin)	see label	
	chlorantraniliprole (GrubEx1)	see label	

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Pest	Insecticide and Formulation	Amount Per 1,000 Square Feet	Precautions and Remarks
<b>European Crane Fly</b> (cont.)	gamma-cyhalothrin (Spectracide)	see label	
	imidacloprid (Merit) (Advanced Season Long Grub Control)	see label	
	lambda-cyhalothrin (Bonide)	see label	
	zeta-cypermethrin + bifenthrin + imidacloprid (Triple Crown T&O, Triple Crown Golf)	20-35 fl oz/acre	Triple Crown Golf is a <b>Restricted Use Pesticide</b> .
<b>Grasshopper</b>	bifenthrin 0.3% (Ortho)	see label	
	bifenthrin 0.058% + carbaryl 2.3% (Duocide)	2-4 lb	Product must be watered in immediately after application to lawns. DO NOT apply more than 4 times per year to lawns. The minimum reapplication interval to lawns is 7 days. Will only kill pests present at the time of application. Pest must be directly contacted to be effective.
	carbaryl (GardenTech Sevin)	see label	
	cyfluthrin 0.75% (Bayer Advanced)	see label	
	gamma-cyhalothrin 0.08% (Spectracide)	see label	
	lambda-cyhalothrin 0.5% (Bonide)	see label	
	other pyrethroids* (DeltaGard, Scimitar, Talstar, Tempo)	see label	
	permethrin 10% (Hi-Yield)	see label	
	thiamethoxam 11.6% + lambda-cyhalothrin 3.5% (Tandem)	see label	Apply 10.5 fl oz per acre on a 3- to 5-week interval.
zeta-cypermethrin + bifenthrin + imidacloprid (Triple Crown T&O, Triple Crown Golf)	10-20 fl oz/acre	Triple Crown Golf is a <b>Restricted Use Pesticide</b> .	
<b>Ground Pearls</b>	Maintain a vigorous lawn through proper fertilization, watering, mowing, etc. Good cultural practices will help the lawn outgrow damage. No practical, effective pesticide treatments are currently available.		
<b>Grub, Green June Beetle (only)</b> (also see <b>Grub, White</b> )	bifenthrin 0.058% + carbaryl 2.3% (Duocide)	4-8 lb	Product must be watered in immediately after application to lawns. DO NOT apply more than 4 times per year to lawns. The minimum reapplication interval to lawns is 7 days. Will only kill pests present at the time of application. Pest must be directly contacted to be effective.
	carbaryl (GardenTech Sevin)	see label	
	thiamethoxam 11.6% + lambda-cyhalothrin 3.5% (Tandem)	see label	Begin applications up to 45 days before the historical peak of adult flight to second instar grub of the species being targeted. For optimum control, treat from peak flight to peak egg hatch. Irrigate to move Tandem into the root zone. Full-season control of white grubs will be obtained with either a single 28 fl oz application or two 14 fl oz applications.
<b>Grub, White</b> (Japanese beetle, southern chafer, Euro- pean chafer, billbug, green June beetle)	bifenthrin 0.058% + carbaryl 2.3% (Duocide)	4-8 lb	Product must be watered in immediately after application to lawns. DO NOT apply more than 4 times per year to lawns. The minimum reapplication interval to lawns is 7 days. Will only kill pests present at the time of application. Pest must be directly contacted to be effective.
	carbaryl (GardenTech Sevin)	see label	

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<b>Grub, White</b> (cont.) (Japanese beetle, southern chafer, Euro- pean chafer, billbug, green June beetle)	chlorantraniliprole (Acelepryn) G	1.15-2.3 lb	
	chlorantraniliprole (GrubEx1)	see label	
	clothianidin (Arena) G WDG	see label	Toxic to fish and aquatic invertebrates. DO NOT apply near or allow runoff into surface waters or intertidal areas.
	clothianidin + bifenthrin (Aloft) SC G	0.27-0.54 fl oz 1.8-3.6 lb	Toxic to fish and aquatic invertebrates. DO NOT apply near or allow runoff into surface waters or intertidal areas.
	dinotefuran (Zylam 20 SG)	1.0 fl oz	Make application prior to or during peak egg hatch.
	imidacloprid (Merit) (Advanced Lawn Grub Control)	see label	
	imidacloprid + bifenthrin (Allectus)	See label	
	thiamethoxam (Meridian)	see label	Highly toxic to aquatic invertebrates.
	thiamethoxam 11.6% + lambda-cyhalothrin 3.5% (Tandem)	see label	Begin applications up to 45 days before the historical peak of adult flight to second instar grub of the species being targeted. For optimum control, treat from peak flight to peak egg hatch. Irrigate to move Tandem into the root zone. Full-season control of white grubs will be obtained with either a single 28 fl oz application or two 14 fl oz applications.
trichlorfon* (Bayer Advanced)	see label		
various entomogenous nematode products	see label	Must be <i>Heterorhabditid</i> species to be effective.	
<b>Millipede</b>	bifenthrin 0.3% (Ortho)	see label	
	bifenthrin 0.058% + carbaryl 2.3% (Duocide)	4-8 lb	Product must be watered in immediately after application to lawns. DO NOT apply more than 4 times per year to lawns. The minimum reapplication interval to lawns is 7 days. Will only kill pests present at the time of application. Pest must be directly contacted to be effective.
	carbaryl (GardenTech Sevin)	see label	
	gamma-cyhalothrin (Spectracide)	see label	
	lambda-cyhalothrin (Bonide)	see label	
	other pyrethroids* (DeltaGard, Scimitar, Talstar, Tempo)	see label	
	permethrin 10% (Hi-Yield)	see label	
	zeta-cypermethrin + bifenthrin + imidacloprid (Triple Crown T&O, Triple Crown Golf)	10-20 fl oz/acre	Triple Crown Golf is a <b>Restricted Use Pesticide</b> .
<b>Mole Cricket</b>	bifenthrin 0.3% (Ortho)	see label	
	bifenthrin 0.058% + carbaryl 2.3% (Duocide)	4-8 lb	Product must be watered in immediately after application to lawns. DO NOT apply more than 4 times per year to lawns. The minimum reapplication interval to lawns is 7 days. Will only kill pests present at the time of application. Pest must be directly contacted to be effective.
	carbaryl (various commercial bait formulations)	see label	

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Pest	Insecticide and Formulation	Amount Per 1,000 Square Feet	Precautions and Remarks
<b>Mole Cricket</b> (cont.)	clothianidin + bifenthrin (Aloft)		Toxic to fish and aquatic invertebrates. DO NOT apply near or allow runoff into surface waters or intertidal areas.
	G	1.8-3.6 lb	
	SC	0.27-0.54 fl oz	
	cyfluthrin 0.75% (Bayer Advanced)	see label	
	dinotefuran (Zylam 20 SG)	1 fl oz	Make application prior to or during peak egg hatch.
	fipronil (several products)	2 lb	Apply as a broadcast.
	gamma-cyhalothrin 0.08% (Spectracide)	see label	
	imidacloprid (Advanced Lawn Grub Control, Merit)	see label	
	indoxacarb (Advion Mole Cricket Bait)	see label	
	(Provaunt) SC	0.275 fl oz	
	lambda-cyhalothrin 0.5% (Bonide)	see label	
	other pyrethroids* (DeltaGard, Menace, Scimitar, Talstar, Tempo)	see label	
	permethrin 10% (Hi-Yield)	see label	
thiamethoxam 11.6% + lambda-cyhalothrin 3.5% (Tandem)	see label	Apply from first egg hatch to peak egg hatch. Highly toxic to fish and aquatic invertebrates.	
various entomogenous nematode products	see label	Requires irrigation.	
zeta-cypermethrin + bifenthrin + imidacloprid (Triple Crown T&O, Triple Crown Golf)	25-35 fl oz/acre	Triple Crown Golf is a <b>Restricted Use Pesticide</b> .	
<b>Slug, Snail</b>	iron phosphate (Natria) bait	see label	Apply in late afternoon.
	Mesurool 2% B	1 lb	Apply in late afternoon.
	metaldehyde	see label	Apply in late afternoon.
<b>Sod Webworm</b> (also <b>Burrowing Sod Webworm</b> )	<i>Bacillus thuringiensis/B.t.</i> (various brands)	see label	
	bifenthrin 0.3% (Ortho)	see label	
	bifenthrin 0.058% + carbaryl 2.3% (Duocide)	2 lb	Product must be watered in immediately after application to lawns. DO NOT apply more than 4 times per year to lawns. The minimum reapplication interval to lawns is 7 days. Will only kill pests present at the time of application. Pest must be directly contacted to be effective.
	carbaryl (GardenTech Sevin)	see label	DO NOT water sprays into soil. 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 into soil.
	chlorantraniliprole (GrubEx1)	see label	
	cyfluthrin 0.75% (Bayer Advanced)	see label	
	dinotefuran (Zylam 20 SG)	1 fl oz	
	gamma-cyhalothrin 0.08% (Spectracide)	see label	

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<b>Sod Webworm (also Burrowing Sod Webworm)</b> (cont.)	halofenozide (Natural Guard Grub Control)	1.72 lb	DO NOT apply more than 3.4 lb (2 lb active ingredient) per 1,000 square feet per year regardless of pests controlled.
	lambda-cyhalothrin 0.5% (Bonide)	see label	
	other pyrethroids* (DeltaGard, Scimitar, Talstar, Tempo)	see label	
	permethrin 10% (Hi-Yield)	see label	
	spinosad A and D (Conserve) SC	0.25-1.25 fl oz	Rate varies with size and species.
	thiamethoxam 11.6% + lambda-cyhalothrin 3.5% (Tandem)	see label	Highly toxic to fish and aquatic invertebrates.
	trichlorfon* (Bayer Advanced)	see label	Use sufficient water for good coverage.
	various entomogenous nematode and <i>B.t.</i> products	see label	
	zeta-cypermethrin + bifenthrin + imidacloprid (Triple Crown T&O, Triple Crown Golf)	10-15 fl oz/acre	Triple Crown Golf is a <b>Restricted Use Pesticide</b> .
<b>Spittlebug and Leafhopper</b>	acephate* (Orthene T, T&O) 75 S	see label	
	bifenthrin 0.3% (Ortho)	see label	
	bifenthrin 0.058% + carbaryl 2.3% (Duocide)	2-4 lb	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, lambda-cyhalothrin and permethrin.
	carbaryl (GardenTech Sevin)	see label	
	deltamethrin (D-Fense SC)	see label	
	gamma-cyhalothrin (Spectracide)	see label	
	lambda-cyhalothrin (Bonide)	see label	
	other pyrethroids* (DeltaGard, Scimitar, Talstar, Tempo)	see label	
	permethrin 10% (Hi-Yield)	see label	
	zeta-cypermethrin + bifenthrin + imidacloprid (Triple Crown T&O, Triple Crown Golf)	10-20 fl oz/acre	Triple Crown Golf is a <b>Restricted Use Pesticide</b> .
<b>Ticks and Chiggers</b>	bifenthrin (Hi-Yield, Ortho)	see label	
	bifenthrin 0.058% + carbaryl 2.3% (Duocide)	2-4 lb (chiggers ONLY)	The maximum application rate to kill ticks is 1.15 lb product per 1,000 square feet. Duocide must be watered in immediately after application to lawns. DO NOT apply more than 4 times per year to lawns. The minimum reapplication interval to lawns is 7 days. Will only kill pests present at the time of application. Pest must be directly contacted to be effective.
	carbaryl (GardenTech Sevin)	see label	
	cyfluthrin 0.75% (Bayer Advanced)	see label	
	deltamethrin (D-Fense SC, DeltaGard G)	see label	DeltaGard G registered for ticks only.
	imidacloprid 0.72%+ beta-cyfluthrin 0.36% (Bayer Advanced)	see label	
	gamma-cyhalothrin (Spectracide)	see label	
	lambda-cyhalothrin (Bonide, Martin's)	see label	
		zeta-cypermethrin + bifenthrin + imidacloprid (Triple Crown T&O, Triple Crown Golf)	20-35 fl oz/acre

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