

COMMERCIAL TURF AND GOLF COURSE INSECT CONTROL

The following table provides commercial turf and golf course insect control recommendations with pesticides for use by professional applicators.

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.

Pest	Insecticide and Formulation	Amount Per 1,000 Square Feet	Comments/Precautions
Ant	bifenthrin* (Menace, Talstar, others) F, GC and G forms also available	0.5-1 fl oz	Use GC formulation for golf courses.
	carbaryl* (Sevin 80 WSP)	see label	
	chlorpyrifos* (Dursban) 2E, 4E, 2G, 50 WP, Pro	see label	For use on golf courses. See new label.
	clothianidin + bifenthrin (Aloft)	see label	
	GC SC	0.27-0.44 fl oz	
	LC SC	0.27-0.54 fl oz	
	GC G	1.8-3.6 lb	
	LC G	1.8-3.6 lb	
	cyfluthrin (Tempo 2)	0.143 fl oz	Home lawns only.
	cypermethrin* (Demon) TC	see label	
	deltamethrin (DeltaGard) G	2-3 lb	
fipronil 0.0143 G	see label		
hydramethylnon* (Maxforce G, Amdro)	see label		
lambda-cyhalothrin* (Battle, Scimitar, Cyonara)	see label	DO NOT make applications within 20 ft of any body of water. No reentry until spray has dried.	
Ant, Red Imported Fire	Treatment is required to ship sod from quarantined to non-quarantined areas. Consult the Arkansas State Plant Board and USDA Program Aid No. 1822, "Imported Fire Ant 2007: Quarantine Treatments for Nursery Stock and Other Regulated Articles," for all rules and regulations pertaining to the Federal Imported Fire Ant quarantine and treatment requirements. The following insecticides are authorized by USDA for the treatment of regulated articles under the Imported Fire Ant (IFA) quarantine: chlorpyrifos, fipronil.		
	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.		
	abamectin* (Award II)	1 lb/acre broadcast; no more than 4 lb/acre per year or 5-7 Tbsp per mound; no more than 12 mounds/acre	Changes in product labels and new products for insect control include acquisition of DuPont turf insecticides by Syngenta, including Acelepryn, Provaunt, Advion Fire Ant Bait, and Advion Insect Granules. Syngenta has a new fire ant active ingredient with the new product Award II Fire Ant Bait containing abamectin as the active ingredient. It is NOT labelled for use on horse farms as was the older Award product. Advion Insect Granules are still useful for insect control, including mole crickets, but this is a bait and should NOT be watered in after application. BASF released a new fire ant bait called Siesta with a new active ingredient metaflumizone.
	acephate* (Lesco-Fate) (Orthene T, T&O) 75 S (Ortho Orthene Fire Ant Killer1) 50 S (Precise 4G)	see label 1-2 tsp/mound 1 Tbsp/mound see label	Distribute uniformly over mound. For best results, apply early in morning or late afternoon.
	avermectin/B1 (Affirm) 0.011% bait	5-7 Tbsp/mound	Distribute uniformly 5 to 7 level tablespoons of bait 3 to 4 feet around base of each mound.
	chlorpyrifos (Dursban Pro)	see label	Single-mound treatment ONLY.

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

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Ant, Red Imported Fire (cont.)	clothianidin + bifenthrin (Aloft)	see label	
	GC SC	0.27-0.44 fl oz	
	LC SC	0.27-0.54 fl oz	
	GC G	1.8-3.6 lb	
	LC G	1.8-3.6 lb	
	fipronil		
	(Maxforce FC) 0.00045%	see label	Apply as a broadcast. May treat up to 4 times per year.
	(Top Choice) 0.0143% granular insecticide	87 lb/acre	Broadcast only
	(Chipco Choice) 0.1% granular contact insecticide	12.5 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 2 lb/acre	Single mound treatment rate Broadcast rate
	imidacloprid + bifenthrin (Allectus, Atera)	see label	Rate varies with pest. Different formulations for different sites.
	indoxacarb (Advion) fire ant bait 0.045%	4 Tbsp/mound 1.5 lb/acre	DO NOT apply to top of mound. Distribute uniformly 3 to 4 feet around mound. Broadcast rate
	metaflumizone (Siesta Fire Ant Bait) 0.063%	1.0-1.5 lb/acre 2-4 Tbsp/mound	Broadcast rate Single mound treatment rate DO NOT exceed 6.0 lb/acre total or 4 applications in a one-year period.
	pyrethroids (various brands)	see label	
bifenthrin (Menace, Talstar, others) F and G form also available			
cyfluthrin (Tempo)			
deltamethrin (DeltaGard) G			
lambda-cyhalothrin (Battle, Scimitar, Cyonara)			
pyriproxyfen (Distance)	1-4 Tbsp/mound 1-1.5 lb/acre	Single mound treatment rate Broadcast rate This is an IGR.	
S-methoprene (Extinguish)	3-5 Tbsp/mound 1-1.5 lb/acre	Single mound treatment rate Broadcast rate This is an IGR.	
S-methoprene + hydramethylnon (Extinguish Plus)	3-5 Tbsp/mound 1-1.5 lb/acre	Single mound treatment rate Broadcast rate This is an IGR plus a toxicant.	
spinosad (Justice Fire Ant Bait)	see label		
Bee and Wasp (burrowing)	carbaryl* (Sevin 80 WSP)	see label	
	pyrethroids (Advanced Garden, Battle, DeltaGard, Menace, Scimitar, Talstar, Tempo)	see label	
Billbug	bifenthrin* (Menace, Talstar, others) F, GC and G form also available	0.25-0.5 fl oz	Use GC formulation for golf courses.
	chlorantraniliprole (Acelepryn)	0.184-0.46 fl oz	

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Billbug	chlorpyrifos* (Dursban) 50 WSP, Pro	see label	For use on golf courses. See new label.
	clothianidin (Arena)		
	0.5 G	14-22 oz	
	50 WDG	0.15-0.22 oz	
	clothianidin + bifenthrin (Aloft)	see label	
	GC SC	0.27-0.44 fl oz	
	LC SC	0.27-0.54 fl oz	
	GC G	1.8-3.6 lb	
	LC G	1.8-3.6 lb	
	deltamethrin (DeltaGard) G	2-3 lb	
	dinotefuran (Zylam) 20 SG	1 oz	For optimum control of billbugs and annual bluegrass weevil, make application to or during egg hatch of the target pest.
	imidacloprid* (Merit) 75 WSP	3-4 level tsp	Make application prior to egg hatch.
imidacloprid + bifenthrin (Allectus, Atera)	see label	Rate varies with pest. Different formulations for different sites.	
lambda-cyhalothrin* (Battle, Scimitar, Cyonara)	see label	Observe restrictions near water.	
thiamethoxam (Meridian)		Optimum control when applied from peak flight of adults to peak of egg hatch. Also suppresses mole crickets and chinch bugs.	
0.33 G	60-80 lb/acre		
25 WG	12.7-17 oz/acre		
zeta-cypermethrin + bifenthrin + imidacloprid (Triple Crown T&O, Triple Crown Golf)	10-20 fl oz/acre	Triple Crown Golf is a Restricted Use Pesticide .	
Chinch Bug	acephate* (Orthene T, T&O) 75 S	1.2-2.4 oz	
	<i>Beauveria bassiana</i> (Botanigard, Naturalis-T)	see label	
	bifenthrin* (Menace, Talstar, others)	0.25-0.5 fl oz	Use GC formulation for golf courses.
	F, GC and G form also available		
	carbaryl* (Sevin 80 WSP)	see label	
	chlorantraniliprole (Acelepryn)	0.184-0.46 fl oz	Suppression.
	clothianidin (Arena) 0.25 G, 50 WDG	see label	
	clothianidin + bifenthrin (Aloft)	see label	
	GC SC	0.27-0.44 fl oz	
	LC SC	0.27-0.54 fl oz	
	GC G	1.8-3.6 lb	
	LC G	1.8-3.6 lb	
	cypermethrin (Demon) TC	0.33-0.65 fl oz	
	chlorpyrifos* (Dursban) 2E, 4E, 2G, 50 WP, Pro	see label	For use on golf courses. See new label.
cyfluthrin (Tempo 2)	0.2 fl oz	Home lawns only.	
deltamethrin (DeltaGard) G	2-3 lb		

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Pest	Insecticide and Formulation	Amount Per 1,000 Square Feet	Comments/Precautions
Chinch Bug (cont.)	dinotefuran (Zylam) 20 SG	1 oz	For suppression of chinch bugs, make application prior to hatching of the first instar nymphs. Rate varies with pest. Different formulations for different sites. DO NOT make applications within 20 ft of any body of water. No reentry until spray has dried. Triple Crown Golf is a Restricted Use Pesticide .
	imidacloprid + bifenthrin (Allectus, Atera)	see label	
	lambda-cyhalothrin* (Battle, Scimitar, Cyonara)	see label	
	permethrin* (Astro)	0.4-0.8 fl oz	
	zeta-cypermethrin + bifenthrin + imidacloprid (Triple Crown T&O, Triple Crown Golf)	20-35 fl oz/acre	
Cutworm, Armyworm	acephate* (Orthene T, T&O)	1.2-2.4 oz	Commercial and residential turf only.
	azadirachtin* (Neemix, Turplex)	see label	
	bifenthrin* (Menace, Talstar, others) F, GC and G form also available	0.18-0.25 fl oz	Use GC formulation for golf courses.
	<i>B.t.</i> products (various labels)	see label	
	carbaryl* baits	0.75-1.5 oz	Treat in late afternoon. Apply in adequate water for good coverage but do not flood or water in. DO NOT cut grass for 1 to 3 days after treatment.
	carbaryl* (Sevin) 80 WSP	see label	
	chlorantraniliprole (Acelepryn)	0.046-0.092 fl oz	For use on golf courses. See new label. Cutworms only
	chlorpyrifos* (Dursban) 4E, 2ES, 50 WP, Pro	see label	
	clothianidin (Arena) 0.5 G 50 WDG	1.4-1.8 oz 0.2-0.3 oz	Home lawns only.
	clothianidin + bifenthrin (Aloft)	see label	
	cyfluthrin* (Tempo 2)	0.143 fl oz	Cutworm only.
	deltamethrin (DeltaGard) G	2-3 lb	
	dinotefuran (Zylam) 20 SG	1 oz	Read and follow special application instructions. Effective only against small cutworms. Can be used two times per season at these rates.
	entomogenous nematodes* halofenozide* (Mach 2) 2 SC 1.5 G	see label 1.5 fl oz 1 lb	
	imidacloprid + bifenthrin (Allectus, Atera)	see label	Rate varies with pest. Different formulations for different sites.
	indoxacarb (Provaunt) WDG	see label	Not labeled for use on sod farms.
	lambda-cyhalothrin* (Battle, Scimitar, Cyonara)	see label	DO NOT make applications within 20 ft of any body of water. No reentry until spray has dried.
	spinosad A or D (Conserve SC)	0.25-1.25 fl oz	Rate varies with size and species.
	trichlorfon (Dylox 80 SP)	1.5-3.0 oz	Triple Crown Golf is a Restricted Use Pesticide .
	zeta-cypermethrin + bifenthrin + imidacloprid (Triple Crown T&O, Triple Crown Golf)	10-15 fl oz/acre	
Earthworm			Usually not a problem. No effective controls available.
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.
	chlorpyrifos* (Dursban Pro)	1.5 fl oz	For use on turfgrasses and golf courses. See new label.

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Eriophyid Mites (zoysiagrass mite and bermudagrass stunt mite)	deltamethrin (DeltaGard T&O 5SC)	see label	Registered for use on eriophyid mites in turfgrass.
	dicofol (Kelthane 50 WSP)	see label	Registered for use on sod farms and golf courses for eriophyid mite control. NOT registered for use on residential turf.
	lambda-cyhalothrin* (Quali-Pro Lambda GC-O, Scimitar)	see label	Registered for use on eriophyid mites in turfgrass.
Fall Armyworm	acephate* (Orthene T, T&O)	0.5-1.2 oz	Water into soil immediately after application.
	chlorantraniliprole (Acelepryn)	0.046-0.092 fl oz	
	chlorpyrifos* (Dursban) 2E, 4E, 50 WP, Pro	see label	For use on golf courses. See new label.
	halofenozide* (Mach 2) 2 SC	1.5 fl oz	Can be used two times per season at these rates.
	1.5 G	1 lb	
	indoxacarb (Provaunt WDG)	see label	Not labeled for use on sod farms.
	pyrethroids* (Advanced Garden, Battle, DeltaGard, Menace, Scimitar, Talstar, Tempo, Cyonara)	see label	
zeta-cypermethrin + bifenthrin + imidacloprid (Triple Crown T&O, Triple Crown Golf)	10-15 fl oz/acre	Triple Crown Golf is a Restricted Use Pesticide .	
Grasshopper	acephate* (Orthene T, T&O)	0.5 oz	DO NOT mow turfgrass for at least 24 hours after application.
	deltamethrin (DeltaGard) G	2-3 lb	
	lambda-cyhalothrin* (Battle, Scimitar, Cyonara)	see label	DO NOT make applications within 20 ft of any body of water. No reentry until spray has dried.
Ground Pearl			No effective control; practice good management.
Grub (white, May beetle, chafers, green June beetle and others)	carbaryl* (Sevin 80 WSP)	see label	
	chlorantraniliprole (Acelepryn)	0.184-0.367 fl oz	Optimal control when applied at egg hatch. Use higher rates later in summer.
	clothianidin (Arena) 0.5 G	14-22 oz	Mole cricket suppression
	50 WDG	0.15-0.22 oz	
	clothianidin + bifenthrin (Aloft)	see label	
	dinotefuran (Zylam) 20 SG	1 oz	Apply at egg hatch.
	halofenozide* (Mach 2) 2 SC	2.9 fl oz	Apply during egg hatch or early instar grub development.
	1.5 G	3 lb	
	imidacloprid* (Merit) 75 WP	3-4 level tsp	Make application prior to egg hatch. (Offers some suppression of caterpillars.)
	imidacloprid + bifenthin (Allectus, Atera)	see label	Rate varies with pest. Different formulations for different sites.
thiamethoxam (Meridian) 0.33 G	60-80 lb/acre	Optimum control when applied from peak flight of adults to peak of egg hatch. Also suppresses mole crickets and chinch bugs.	
25 WG	12.7-17 oz/acre		

*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	Comments/Precautions
Grub (cont.) (white, May beetle, chafers, green June beetle and others)	trichlorfon (Dylox 80 SP)	3.75 oz	Can be used with some success as a rescue treatment in August and September.
	zeta-cypermethrin + bifenthrin + imidacloprid (Triple Crown T&O, Triple Crown Golf)	20-35 fl oz/acre	Triple Crown Golf is a Restricted Use Pesticide .
Grub, Green June Beetle (only)	carbaryl* (Sevin 80 WSP)	see label	
	chlorantraniliprole (Acelepryn)	0.184-0.367 fl oz	Optimal control when applied at egg hatch. Use higher rates later in summer.
	chlorpyrifos* (Dursban) 50 WSP, Pro	see label	For use on golf courses. See new label.
	clothianidin (Arena)		Mole cricket suppression
	0.5 G	14-22 oz	
	50 WDG	0.15-0.22 oz	
	clothianidin + bifenthrin (Aloft)	see label	
	dinotefuran (Zylam) 20 SG	1 oz	Apply at egg hatch.
	halofenozide* (Mach 2)		Apply during egg hatch or early instar grub development.
	2 SC	2.9 fl oz	
	1.5 G	3 lb	
imidacloprid* (Merit) 75 WP	3-4 level tsp	Make application prior to egg hatch. DO NOT use on sod farms. (Offers some suppression of caterpillars.)	
imidacloprid + bifenthrin (Allectus, Atera)	see label	Rate varies with pest. Different formulations for different sites.	
thiamethoxam (Meridian)		Optimum control when applied from peak flight of adults to peak of egg hatch. Also suppresses mole crickets and chinch bugs.	
0.33 G	60-80 lb/acre		
25 WG	12.7-17 oz/acre		
Grub (Japanese beetle)	<i>B.t.</i> (various products)	see label	
	carbaryl* (Sevin 80 WSP)	see label	
	chlorantraniliprole (Acelepryn)	0.184-0.367 fl oz	Optimal control when applied at egg hatch. Use higher rates later in summer.
	clothianidin (Arena)		Mole cricket suppression
	0.5 G	14-22 oz	
	50 WDG	0.15-0.22 oz	
	clothianidin + bifenthrin (Aloft)	see label	
	dinotefuran (Zylam) 20 SG	1 oz	Apply at egg hatch.
	halofenozide* (Mach 2)		Apply during egg hatch or early instar grub development.
	2 SC	2.9 fl oz	
	1.5 G	3 lb	
	imidacloprid* (Merit) 75 WP	3-4 level tsp	Make application prior to egg hatch. (Offers some suppression of caterpillars.)
	imidacloprid + bifenthrin (Allectus, Atera)	see label	Rate varies with pest. Different formulations for different sites.
	thiamethoxam (Meridian)		Optimum control when applied from peak flight of adults to peak of egg hatch. Also suppresses mole crickets and chinch bugs.
0.33 G	60-80 lb/acre		
25 WG	12.7-17 oz/acre		
trichlorfon* (Dylox 80 SP)	3.75 oz	Can be used with some success as a rescue treatment in August and September.	
zeta-cypermethrin + bifenthrin + imidacloprid (Triple Crown T&O, Triple Crown Golf)	20-35 fl oz/acre	Triple Crown Golf is a Restricted Use Pesticide .	

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Pest	Insecticide and Formulation	Amount Per 1,000 Square Feet	Comments/Precautions
Leafhopper, Spittlebug	acephate* (Orthene T, T&O) 75 S	1 oz	
	bifenthrin* (Menace, Talstar, others) F, GC and G forms also available	0.25-0.5 fl oz	Use GC formulation for golf courses.
	carbaryl* (Sevin 80 WSP)	see label	
	chlorpyrifos* (Dursban) 4E, 50 WSP, Pro	see label	For use on golf courses. See new label.
	deltamethrin (DeltaGard) G	2-3 lb	
Millipede	bifenthrin* (Menace, Talstar, others) F, GC and G forms also available	0.25-0.5 fl oz	Use GC formulation for golf courses.
	carbaryl* (Sevin 80 WSP)	see label	
	chlorpyrifos* (Dursban) 2E, Pro	see label	For use on golf courses. See new label.
	cypermethrin (Demon) TC	see label	
	lambda-cyhalothrin* (Battle, Scimitar, Cyonara)	see label	DO NOT make applications within 20 ft of any body of water. No reentry until spray has dried.
Mole Cricket	acephate* (Orthene T, T&O, Lesco-Fate)	1.0-1.9 oz	Water soil before application. DO NOT water into soil.
	bifenthrin* (Menace, Talstar, others) F, GC and G forms also available	0.5-1.0 fl oz	Use GC formulation for golf course.
	carbaryl* baits	see label	
	cyfluthrin* (Tempo 2, Tempo Ultra)	0.2 fl oz	Home lawn use only.
	deltamethrin (DeltaGard) G	2-3 lb	
	dinotefuran (Zylam) 20 SG	1 oz	Apply at egg hatch.
	entomogenous nematodes*	see label	Various formulations now available. Adequate soil moisture critical for good control.
	fipronil (Chipco Choice) 0.1 G (Top Choice) 0.0143	12.5-25 lb/acre 2 lb	Use slit placement equipment. Apply as a broadcast.
	imidacloprid (Merit) 75 WP 0.5G	4 level tsp 1.8 lb	Apply while crickets are less than 1/2 inch long (June, early July).
	imidacloprid + bifenthrin (Allectus, Atera)	see label	Rate varies with pest. Different formulations for different sites.
	indoxacarb (Advion) mole cricket bait 0.22%	1.15-4.6 lb 50-200 lb/acre	Not for use on sod farms.
	indoxacarb (Provaunt)	0.275 oz	Must be in possession of a supplemental label for this use at the time of application.
	lambda-cyhalothrin* (Battle, Scimitar, Cyonara) zeta-cypermethrin + bifenthrin + imidacloprid (Triple Crown T&O, Triple Crown Golf)	see label 20-35 fl oz/acre	DO NOT make applications within 20 ft of any body of water. No reentry until spray has dried. Triple Crown Golf is a Restricted Use Pesticide .
Slug, Snail	Mesuroil 2 B	1 lb	Apply late in afternoon.
	metaldehyde	see label	

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Sod Webworm	acephate* (Lesco-Fate, Orthene T, T&O) (Precise 4G)	0.5-1.0 oz 2.8 lb	Home lawns only. Irrigate immediately.
	azadirachtin* (Azatrol, Neemix, Turplex)	0.5 fl oz	
	<i>Bacillus thuringiensis</i> (various brands)	1-2 lb/acre	
	bifenthrin* (Menace, Talstar, others) F, GC and G form also available	0.18-0.25 fl oz	Use GC formulation for golf courses.
	carbaryl* (Sevin 80 WSP)	see label	
	chlorantraniliprole (Acelepryn)	0.046-0.092 fl oz	
	chlorpyrifos* (Dursban) 4E, 2E, 5 G, Pro	see label	For use on golf courses. See new label.
	clothianidin (Arena) 0.5 G 50 WDG	14-22 oz 0.15-0.22 oz	
	clothianidin + bifenthrin (Aloft)	see label	
	cyfluthrin* (Tempo 2, Tempo Ultra)	0.143 fl oz	Irrigate immediately after application. DO NOT apply to newly seeded stands of bentgrass.
	deltamethrin (DeltaGard) G	2-3 lb	
	dinotefuran (Zylam) 20 SG	1 oz	
	halofenozide (Mach 2) 2 SC 1.5 G	1.5 fl oz 1.0 lb	Can be used two times per season at these rates.
	imidacloprid + bifenthrin (Allectus, Atera)	see label	Rate varies with pest. Different formulations for different sites.
	indoxacarb (Provaunt) SC	0.0625-0.25 fl oz	Not labeled for use on sod farms.
	lambda-cyhalothrin* (Battle, Scimitar, Cyonara)	see label	DO NOT make applications within 20 ft of any body of water. No reentry until spray has dried.
	methomyl (Lannate) 90 SP	0.4-0.8 oz	
	permethrin* (Astro)	0.4-0.8 fl oz	
spinosad A and D (Conserve) SC	0.25-1.25 fl oz	Rate varies with size and species.	
trichlorfon* (Dylox 80 SP)	1.5-3.0 oz		
zeta-cypermethrin + bifenthrin + imidacloprid (Triple Crown T&O, Triple Crown Golf)	10-15 fl oz/acre	Triple Crown Golf is a Restricted Use Pesticide .	
Sowbug, Pillbug	bifenthrin* (Talstar) F, GC and G forms also available	0.25-0.5 fl oz	Use GC formulation for golf courses.
	carbaryl* (Carbaryl 4L, Sevin SL) (Sevin 80 WSP)	1.5-3 fl oz 2.5-5 lb/acre	
	chlorpyrifos* (Dursban Pro)	1.5 fl oz	For use on turfgrasses and golf courses. See new label.
	cypermethrin* (Demon) TC	see label	
	deltamethrin (DeltaGard) G	2-3 lb/1,000 ft	
	lambda-cyhalothrin* (Battle, Scimitar, Cyonara)	see label	DO NOT make applications within 20 ft of any body of water. No reentry until spray has dried.

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