

Lawns

Commercial Uses

Table 1. Chinch bugs

Insecticide	To Make 1 Gallon To Treat 5,000 Square Feet	To Make 100 Gallons To Treat 5,000 Square Feet	Remarks
Acelepryn	See label.	8.0-20.0 ounces/acre	Follow label.
Arena 0.25G	See label.	80-160 pounds/acre	Follow label.
Scimitar GC or CS	See label.	7.0 milliliters/1,000 square feet or 10 ounces/acre	Follow label.
Battle WP	See label.	6.0 gms/1,000 square feet	Follow label.
ProCare Bifen 7.9*	0.5-1.0 fluid oz per 1,000 sq ft		Follow label.
*Astro 3.2EC	See label.	0.4-0.8 ounce/1,000 square feet	Follow label.
Talstar 10WP	1.0 tablespoon	1.76 ounces-3.5 ounces/100 gallons	Follow label.
Suspend SC	0.4-0.6 fl oz/1000 sq ft.		Follow label.
Carbaryl (Sevin)	See label.	4.0-6.0 ounces/1,000 square feet	Follow label.
Mavrick Aquaflow	See label.	0.75-1.5 teaspoons/1,000 square feet	Follow label.
Meridian 25WG	See label.	12.7-17.0 ounces/acre	Follow label.

Table 2. Crane flies

Insecticide	To Make 1 Gallon To Treat 5,000 Square Feet	To Make 100 Gallons To Treat 5,000 Square Feet	Remarks
Acelepryn	See label.	8.0-16.0 ounces/acre	Follow label.
Arena 50WDG	See label.	9.6-12.8 ounces/acre	Follow label.
*Dursban 5DW	See label.	2.0 pounds/acre	Follow label.
ProCare Bifen 7.9*	0.5 fluid ounce per 1000 square feet	See label.	Follow label.
Merit	0.46-0.6 ounces/1,000 square feet or 14.0-17.0 milliliters/1,000 square feet or 1.25-1.6 pints/acre	See label.	Follow label.
Talstar PL-G	See label.	4.6 pounds/1,000 square feet or 200 pounds/acre	Follow label.
Zenith 75	See label.	1.6 ounces/11,000 square feet	Follow label.

Table 3. Fleas and ticks

Insecticide	To Make 1 Gallon To Treat 5,000 Square Feet	To Make 100 Gallons To Treat 5,000 Square Feet	Remarks
Transport	See label.	1 packet/1,000 square feet	Follow label.
Scimitar GS, S	7.0 milliliters/1,000 square feet	10.0 ounces/acre	Follow label.
°Conserve SC	1.2 fluid ounces/1,000 square feet	52.0 ounces/acre	Follow label.
Taurus SC	0.03 or 0.06% solution, 0.4 or 0.8 fluid ounce per gallon of water	See label.	Follow label.
Battle WP	6.0 gms/1,000 square feet	See label.	Follow label.
ProCare Bifen 7.9*	0.25-0.5 fluid ounce per 1000 square feet (adult fleas)	See label.	Follow label.
ProCare Bifen 7.9*	0.5-1.0 fluid ounce per 1000 square feet (flea larvae)	See label.	Follow label.
Battle GC	See label.	10.0 ounces/acre	Follow label.
Carbaryl (80%WP)	2.0 tablespoons	2.0 pounds	Follow label.

Table 4. Sod webworms, Armyworms, Cutworms

Insecticide	To Make 1 Gallon To Treat 5,000 Square Feet	To Make 100 Gallons To Treat 5,000 Square Feet	Remarks
Acelepryn	See label.	2.0-4.0 ounces/acre	Follow label.
Arena 0.25G	See label.	80-160 pounds/acre	Follow label.
Arena 50WDG	See label.	9.6-12.8 ounces/acre	Follow label.
°Azatin XL	See label.	5.0-16.0 ounces/acre	Follow label.
Battle GC	See label.	5.0-10.0 ounces/acre	Follow label.
°Mach 2	1.5 ounces/1,000 square feet, 2.0 quarts/acre	See label	Follow label.
Lepinox WDG	See label	1.0-2.0 pounds/acre	Follow label.
°Conserve SC (Spinosad)	0.25 ounce/1,000 square feet	10.0 ounces/acre	Follow label.
Talstar 10WP	1.0 tablespoons	0.9 ounce-3.5 ounces	Follow label.
ProCare Bifen 7.9*	0.18-0.25 fluid ounce per 1000 square feet	See label.	Follow label.
Suspend SC	0.4-0.6 fluid ounce/1,000 square feet.	See label.	Follow label.
Onyx	0.07-0.15 ounce/1,000 square feet	See label.	Follow label.
Dylox (80% SP)	2.5-3.75 ounces/1,000 square feet	See label.	Follow label.

Insecticide	To Make 1 Gallon To Treat 5,000 Square Feet	To Make 100 Gallons To Treat 5,000 Square Feet	Remarks
Dylox LS	4.0-6.0 ounces/1,000 square feet	See label.	Follow label.
°Condor XL	0.75-1.75 pints/acre	See label.	Follow label.
°Crymax	0.5-1.5 pounds/acre	See label.	Follow label.
Carbaryl (50% Dust)	6.5 ounces/1,000 square feet	See label.	Follow label.
Mavrick Aquaflo	0.75-1.5 teaspoons/1,000 square feet	See label.	Follow label.

Table 5. Narcissus bulb flies

Insecticide	To Make 1 Gallon To Treat 5,000 Square Feet	To Make 100 Gallons To Treat 5,000 Square Feet	Remarks
Dylox 80 T&O	See label.	20.0 ounces	Follow label.

Table 6. Pillbugs

Insecticide	To Make 1 Gallon To Treat 5,000 Square Feet	To Make 100 Gallons To Treat 5,000 Square Feet	Remarks
Acelepryn	See label.	8.0-20.0 ounces/acre	Follow label.
Arena 0.25G	See label.	80-160 pounds/acre	Follow label.
Arena 50WDG	See label.	6.4-12.8 ounces/acre	Follow label.
Transport	See label.	1 packet/1,000 square feet	Follow label.

Table 7. Pillbugs, sowbugs

Insecticide	To Make 1 Gallon To Treat 5,000 Square Feet	To Make 100 Gallons To Treat 5,000 Square Feet	Remarks
Scimitar GS, CS	3.4-7.0 milliliters/ 1,000 square feet	See label.	Follow label.
ProCare Bifen 7.9*	0.25-0.5 fluid ounce per 1,000 square feet	See label.	Follow label.
Battle WP	3.0-6.0 gms/1,000 square feet	See label.	Follow label.

Table 8. Slugs, snails

Insecticide	To Make 1 Gallon To Treat 5,000 Square Feet	To Make 100 Gallons To Treat 5,000 Square Feet	Remarks
Niban G	See label.	6.0 ounces/100 square feet	Follow label.
5% Metaldehyde (bait)	See label.	See label	Apply to infested areas and clean up hiding places, 4 times per season; do not use with foliar fertilizers. Toxic to dogs and cats.
Mesurool 75WP	See label.	2.0/5.0 gallons/acre	Follow label.
Mesurool (4% bait)	See label	See label.	Follow label.

Table 9. Chiggers (redbugs)

Insecticide	To Make 1 Gallon To Treat 5,000 Square Feet	To Make 100 Gallons To Treat 5,000 Square Feet	Remarks
Transport	1 packet/1,000 square feet	See label.	Follow label.
Suspend SC	0.4-0.6 fl oz/1000 sq ft.	See label.	Follow label.
Battle	7.0 milliliters/1,000 square feet or 10.0 ounces/acre	See label.	Follow label.
Malathion (57% EC)	1.0 tablespoon/1,000 square feet	See label.	Follow label.

Table 10. Black turfgrass ateniensis

Insecticide	To Make 1 Gallon To Treat 5,000 Square Feet	To Make 100 Gallons To Treat 5,000 Square Feet	Remarks
Acelepryn	See label.	8.0-12.0 ounces/acre	Follow label.
Arena 0.25G	See label.	80-160 pounds/acre	Follow label.
Arena 50WDG	See label.	6.4-12.8 ounces/acre	Follow label.
Battle GC	7.0 milliliters/1,000 square feet	10.0 ounces/acre	Follow label.
Meridian 25WG	See label.	12.7-17.0 ounces/acre	Follow label.

Table 11. White grubs

Insecticide	To Make 1 Gallon To Treat 5,000 Square Feet	To Make 100 Gallons To Treat 5,000 Square Feet	Remarks
Meridian 25WG	See label.	12.7-17.0 ounces/acre	Follow label.

Insecticide	To Make 1 Gallon To Treat 5,000 Square Feet	To Make 100 Gallons To Treat 5,000 Square Feet	Remarks
*Flagship	See label.	8.0 ounces/acre	Follow label.
Battle GC	7.0 milliliters/1,000 square feet	10.0 ounces/acre	Follow label.
Carbaryl SL	10.0 ounces in 3,040 gallons water/1,000 square feet	See label.	Follow label.
Suspend SC	0.4-0.6 fluid ounce/1,000 square feet.	See label.	Follow label.
Carbaryl 80S	1 7/8 pounds in 150,200 gallons water/5,000 square feet	See label.	Follow label.
*Merit 75WP	3.0-4.0 teaspoons/1,000 square feet	See label.	Follow label.
Dylox 6.2G	3.0 pounds/1,000 square feet	See label.	Follow label.
Mach 2	2.2 fluid ounces/1,000 square feet; 3 quarts/acre	See label.	Follow label.

Table 12. Ants

Insecticide	To Make 1 Gallon To Treat 5,000 Square Feet	To Make 100 Gallons To Treat 5,000 Square Feet	Remarks
Transport	1 packet/1,000 square feet	See label.	Follow label.
Orthene TTO/75S	2.0 teaspoons/mound	See label.	Apply dry formulation as a dust to tops of mounds; distribute as evenly as possible.
Amdro Ant Block		See label.	Follow label.
Orthene TTO/75S	1.0 ounce/5 gallons water	See label.	Mound treatment only, 1 gallon/mound.
Orthene 97S	0.75 ounce/5 gallons	See label.	Follow label.
°Distance 0.86 EC	3.0-4.0 tablespoons/mound (Apply at 0.35-0.5 ounce/1,000 square feet)	See label.	Not approved as quarantine treatment.
Carbaryl 50WP	See label.	2.0 pounds	Water area around mound; may slightly burn grass.
Carbaryl SL	See label.	1.5 quarts	Follow label.
Carbaryl 80		2.0 pounds	Follow label.
Scimitar GS, CS	3.4-7.0 milliliters/1,000 square feet	See label.	Follow label.
Battle WP	3.0-6.0 gms/1,000 square feet or 5.0-10.0 ounces/acre	See label.	Follow label.
MaxForce FG	4-8 ounce /200-400 linear feet	See label.	Apply in band 1-2 feet wide around structures. Not for edible food areas.

Table 13. Mole crickets

Insecticide	To Make 1 Gallon To Treat 5,000 Square Feet	To Make 100 Gallons To Treat 5,000 Square Feet	Remarks
Arena 0.25G	See label.	80-160 pounds/acre	Follow label.
Arena 50WDG	See label.	12.8 ounces/acre	Suppression.
Meridian 25WG	See label.	12.7-17.0 ounces/acre	Suppression.
*Dursban Pro ¹	4.0-6.0 pounds/acre	See label.	Golf course.
Advion bait	1.15-4.6 pounds/1,000 square feet or 50.0-200.0 pounds/acre	See label.	Follow label.
Dylox 6.2G	3.0 pounds/1,000 square feet	See label.	Follow label.
Carbaryl (20% bait)	2-4 ounces/1,000 square feet	See label.	Follow label.
Scimitar GS, CS	3.4-7.0 milliliters/1,000 square feet	See label.	Spray in late afternoon and add 8.0 ounces liquid soap with lemon; adjust pH to 5.5-6.0 before adding to water; 0.5 inch water after application.
Battle WP	3.0-6.0 gms/1,000 square feet or 10.0 ounces/acre	See label.	Follow label.
Onyx	0.07-0.15/1,000 square feet	See label.	Follow label.
Suspend SC	0.6-0.9 fluid ounce/square feet	See label.	Follow label.
Merit 0.5G	See label.	See label.	Follow label.
Merit 75WSP	1.8 pounds/1,000 square feet or 80 pounds/acre	See label.	Follow label.
*Chipco Choice	1.6 ounces/11,000 square feet	See label.	Follow label.
Talstar F	12.5-25.0 pounds/acre, 4.6-9.4 ounces/1,000 square feet	See label.	Follow label.
Talstar G	10.0-40.0 ounces/acre, 0.5-1.0 ounce/1,000 square feet	See label.	Follow label.
*Top Choice	100-200 pounds/acre or 2.3-4.6 ounces/1,000 square feet	See label.	Follow label.
*Merit 75WP	87.0 pounds/acre or 2.0 pounds/1,000 square feet	See label.	Follow label.
Vector MC	4 teaspoons/1,000 square feet or 8.6 ounces/acre	See label.	1 box treats 11,000 square feet.
Homemade baits	50 pounds crumbled laying mash (Purina Layena); 2 quarts 50%-75% Malathion EL; 3 pints crude cottonseed oil; 6 pounds table sugar. OR 100 pounds lay mash; 2 quarts crude molasses; 1-5 quarts water; 2 pounds Malathion; 10-12 pounds/acre.	See label.	Follow label.

Table 14. Imported fire ants

Insecticide	To Make 1 Gallon To Treat 5,000 Square Feet	To Make 100 Gallons To Treat 5,000 Square Feet	Remarks
Transport	See label.	1 packet/1,000 square feet	Follow label.
Meridian 25WG	See label.	12.7-17.0 ounces/acre	1.0 gallon/6 inch, drench mound; larger use: 2.0-3.0 gallons, drench. Broadcast uniformly with ground equipment. Prolonged exposure to air will turn oil base rancid; close container tightly after use; use within 3 days after opening; apply when ants are active; distribute uniformly 3-4 feet around base of the mound.
Amdro or Seige, fire ant bait	1.0-1.5 pounds/acre or 5 level teaspoons/mound	See label.	Follow label.
Astro (pyrethroid)	17.0-34.0 ounces/acre, 0.4-0.8 ounces/1,000 square feet	See label.	Follow label.
Taurus G (Fipronil)	87 pounds/acre or 2 pounds/1,000 square feet	See label.	Follow label.
PT 370 Ascend (Cinch/Varsity)	5.0-7.0 tablespoons/mound or 1.0 pound/acre	See label.	Turf, lawns, noncrop areas.
°Logic 1% (Award)	1.0-1.5 pounds/acre	1.0-3.0 tablespoons/ mound	Follow label.
Talstar G	100.0-200.0 pounds/ acre	2.3-4.6 ounces/1,000 square feet	Follow label.
Talstar F	0.5-10.0 ounces/acre	20-40 ounces/acre	Follow label.
Scimitar GS, CS	3.4-7.0 milliliters/1,000 square feet	See label.	Submerge container or ball until completely saturated. Do not remove container, burlap, or plastic.
Battle GS	3.0-6.0 gms/1,000 square feet or 5.0-10.0 ounces/acre	See label.	Follow label.
Ceasefire	0.5-5.5 ounces/1,000 square feet or 1.5-15.0 pounds/acre	See label.	Follow label.
°Conserve SC (Spinosad)	0.1 ounce	1.0 ounce/10 gallons	1.0-2.0 gallons/mound depending on size.
Carbaryl 50WP	See label.	3.0 pounds	Apply 2 gallons of solution over mound.
Carbaryl SL	See label.	1.5 quarts	Thoroughly wet mound and surrounding area to 4-foot diameter.
Advion (fire ant bait)	0.5 ounces/1,000 square feet	1.5 pounds/acre	Do not disturb mounds prior to treatment.
Orthene TTO/75S	2 teaspoons/mound (mound treatment only)	See label.	Apply dry formulation as a dust to tops of mounds; distribute as evenly as possible.
Carbaryl 80S	See label	2.0 pounds	For best results, apply in cool weather.
Suspend SC	1.5 oz per 1 gallon of water	See label.	Drench mounds. 65 F to 80 F early morning or late evening hours.

Insecticide	To Make 1 Gallon To Treat 5,000 Square Feet	To Make 100 Gallons To Treat 5,000 Square Feet	Remarks
XLR Plus	3.0 tablespoons/2.0 gallons/mound	See label.	65 F to 80 F early morning or late evening hours.
Amdro Pro	See label	See label.	For pastures and replant.
°°Distance	1.5 pounds/acre	See label.	Follow label.
Award	1.5 pounds/acre	See label.	Follow label.
Grenade ER	0.2-0.4 ounce/gal	See label.	Follow label.
Premise	1.0-1.5 pounds/acre	See label.	Follow label.
Esteem	2.0-4.0 Tbsps./mound	2.0 pounds/acre	Follow label.
°°Distance 0.86EC	3.0-4.0 tablespoons/mound Apply at 0.35-0.5 ounce/1,000 square feet	See label.	Not approved as quarantine treatment.
°°Extinguish	3.0-5.0 tablespoons/mound to perimeter of 4.0 feet or 1.0-1.5 pounds/acre	See label.	Follow label.
°°Extinguish Plus	Same as Extinguish.	See label.	These two are a combination of Amdro and Extinguish.
Fire Strike	See label.	1.5 pounds/acre	Follow label.
Transport	1 packet/1,000 square feet/acre	See label.	Follow label.
MaxForce	See label.	See label.	Sprinkle 2 tablespoons of bait around mound.

Table 15. Tawny Crazy Ant – Perimeter home treatment

Insecticide	To Make 1 Gallon To Treat 5,000 Square Feet	To Make 100 Gallons To Treat 5,000 Square Feet	Remarks
Ortho Home Defense Max	See label.	See label.	Follow label for perimeter home treatment.
Sevin Bug Killer	See label.	See label.	Follow label for perimeter home treatment.
Bayer Advanced Home Carpenter Ant & Termite Killer Plus	See label.	See label.	Follow label for perimeter home treatment.
Bayer Power Force Multi-Insect Killer	See label.	See label.	Follow label for perimeter home treatment.
InVict Blitz ant Granules	See label.	See label.	Follow label for perimeter home treatment.
Spectracide Triazicide Insect Killer	See label.	See label.	Follow label for perimeter home treatment.
Enforcer Outdoor Insect Killer	See label.	See label.	Follow label for perimeter home treatment.

Insecticide	To Make 1 Gallon To Treat 5,000 Square Feet	To Make 100 Gallons To Treat 5,000 Square Feet	Remarks
Hi-Yield Garden, Pet & Livestock Insect Control	See label.	See label.	Follow label for perimeter home treatment.
Hi-Yield 38 Plus Turf, Termite & Ornamental Insect Control	See label.	See label.	Follow label for perimeter home treatment.
Alpine WSG	See label.	See label.	Follow label for perimeter home treatment.

*Professional use only, °Biological, †Not around homes

Home Uses

Table 1. Armyworms, cutworms

Insecticide and Formulation	Amount per 1,000 Square Feet	Precautions and Remarks
Pyrethroids (Advance Lawn, Bug-B-Gone, Deltaguard, Talstar, others)	See label.	Follow label.
Bio Advanced 3-in-1 Insect, disease & Mite Control	See label.	Follow label.
Bio Advanced Grub Killer Plus	See label.	Follow label.
Bio Advanced Carpenter ant & Termite Killer	½ tbs. per gallon water, 3 gallons per 1,000 sq. feet.	Follow label.
Spinosad (several products available)	See label.	Follow label.
Hi-Yield Kill-A-Bug II	2-3 lbs. per 1,000 sq. feet, see label.	Follow label.
B.t. (Thuricide, several products available)	See label.	Do not water into the soil. Do not cut grass for 1-3 days after treatment.
Carbaryl (Sevin) 50WP and baits	6-8 oz.	

Table 2. Chinch bugs

Insecticide and Formulation	Amount per 1,000 Square Feet	Precautions and Remarks
Pyrethroids (Advanced Lawn, Bug-B-Gone, Deltaguard, Talstar, others)	See label.	Follow label.
Hi-Yield Kill-A-Bug II	2-3 lbs. per 1,000 sq. feet, see label	Follow label.
Bio Advanced 3-in-1 Insect, disease & Mite Control	See label.	Follow label.
Bio Advanced Carpenter ant & Termite Killer	½ tbs per gallon water, 3 gallons per 1,000 sq. feet.	Follow label.
Bio Advanced Grub Killer Plus	See label.	Follow label.

Table 3. White grubs

Insecticide and Formulation	Amount per 1,000 Square Feet	Precautions and Remarks
Carbaryl (50% WP) (Sevin)	6 oz.	Follow label.
Bio Advanced 3-in-1 Insect, disease & Mite Control	See label.	Follow label.
Bio Advanced Grub Killer Plus	See label.	Follow label.
Imidacloprid (Advanced Lawn Grub Control, others)	See label.	Follow label.

Table 4. Imported fire ants

Insecticide and Formulation	Amount per 1,000 Square Feet	Precautions and Remarks
Acephate (Ortho Fire Ant Killer and others)	1-2 tsp/mound	Distribute uniformly over the mound. For best results, apply in the morning or late afternoon. Do not use in fruit or vegetable gardens
Carbaryl (Sevin XLR)	See label	Use as a mound drench.
Hydramethylnon (Amdro Fire Ant Bait, Amdropro, MaxforceG)	See label	Use fresh bait. Repeat treatment is usually required.
Indoxacarb (Spectracide Fire Ant Once and Done) (Over n' Out Fire Ant Killer Mound Treatment)	See label.	Follow label.
Bio Advanced Carpenter ant & Termite Killer	½ tbs. per gallon water, 3 gallons per 1,000 sq feet.	Follow label.
Bio Advanced Grub Killer Plus	See label.	Follow label.
Methoprene (Extinguish) bait	See label.	Mound or broadcast.
Hi-Yield Kill-A-Bug II	2-3 lbs. per 1,000 sq. feet, see label.	Follow label.
Pyrethroids (Bayer Advanced, Ortho Fire Ant Killer, others)	See label.	Follow label.
Spinosad (Come and Get It Fire Ant Bait by Fertilome, Entrust, Payback, Greenlight Fire Ant Control with Conserve, Green Light Fire Ant Killer with Spinosad Mound Drench	See label.	May be used in fruit and vegetable gardens.

Table 5. Mole crickets

Insecticide and Formulation	Amount per 1,000 Square Feet	Precautions and Remarks
Carbaryl (Sevin) 80WP and baits	8 oz.	Follow label.
Fipronil (several products)	2 lb.	Apply as a broadcast.
Bio Advanced Grub Killer Plus	See label.	Follow label.
Bio Advanced Carpenter ant & Termite Killer	½ tbs. per gallon water, 3 gallons per 1,000 sq feet.	Follow label.
Imidacloprid (Advanced Lawn Grub Control)	See label.	Follow label.
Pyrethroids (Advance Lawn, Bug-B-Gone, Deltaguard, Talstar	See label.	Follow label.

Table 6. Snails, slugs

Insecticide and Formulation	Amount per 1,000 Square Feet	Precautions and Remarks
Measurool 2%B	1lb.	Apply in late afternoon. Toxic to dogs and cats.
Metaldehyde	See label	

Table 7. Sod webworms

Insecticide and Formulation	Amount per 1,000 Square Feet	Precautions and Remarks
Carbaryl (Sevin)	See label.	Use 6 gallons of water plus the insecticide per 1,000 sq. ft. Treat in the late afternoon. Do not cut grass for 1-3 days after treatment.
80 WP	6 oz.	
50 WP	8 oz.	
Bio Advanced Grub Killer Plus	See label.	Follow label.
Bio Advanced Carpenter ant & Termite Killer	½ tbs. per gallon water, 3 gallons per 1,000 sq. feet.	Follow label.
Hi-Yield Kill-A-Bug II	2-3 lbs. per 1,000 sq. feet, see label.	Follow label.