RESTRICTED USE PESTICIDE DUE TO TOXICITY TO FISH AND AQUATIC ORGANISMS

For retail sale to and use only by Certified Applicators, or persons under their direct supervision, and only for those uses covered by the Certified Applicator's certification.

OWOOD LAMBDA-CY 1EC

ACTIVE INGREDIENT:

Lambda-cyhalothrin [1 α (S*), 3 α (Z)]-(±)-cyano-(3-phenoxyphenyl)	
methyl-3-(2-chloro-3,3,3,-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate	13.1%
OTHER INGREDIENTS:	86.9%
TOTAL:	100.0%
Willowood Lambda-Cy 1EC contains 1 lb. of active ingredient per gallon.	

EPA Reg. No. 87290-24

KEEP OUT OF REACH OF CHILDREN WARNING / AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

	FIRST AID
IF SWALLOWED:	 Call a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING:	 Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
IF IN EYES:	 Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
IF INHALED:	 Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
	NOTE TO PHYSICIAN

Contains petroleum distillate-vomiting may cause aspiration pneumonia.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

HOT LINE NUMBER

For Emergency Information concerning this product, call the National Pesticides Information Center (NPIC) at 1-800-858-7378 Mon.-Fri., 8:00 a.m. to 12:00 p.m. Pacific Time or your poison control center at 1-800-222-1222.

OOD USA 🍋

Manufactured For:

Willowood, LLC 385 Interlocken Crescent, Suite #240 Broomfield, CO 80021

Net Contents: 1 Gallon, 265 Gallons

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS WARNING/AVISO

May be fatal if swallowed or inhaled. Causes substantial but temporary eye injury. Causes skin irritation. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Harmful if absorbed through skin. Wear appropriate protective clothing and eye wear as specified in the Personal Protective Equipment (PPE) section of this label. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse.

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Skin exposure may also result in a sensation described as a tingling, itching, burning, or prickly feeling. Onset may occur immediately to 4 hrs. after exposure and may last 2-30 hrs., without damage. Wash exposed areas once with soap and water. Relief from the skin sensation may be obtained by applying an oil-based cream.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below.

Applicators and other handlers must wear:

- · Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves, made of barrier laminate, nitrile rubber, neoprene rubber or Viton[®] ≥14 mils
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when cleaning equipment, mixing, or loading
- For exposures in enclosed areas, use a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE prefilter
- For exposures outdoors, use a NIOSH approved respirator with any R, P, or HE filter

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. DO NOT reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates and wildlife. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are foraging the treatment area.

PHYSICAL AND CHEMICAL HAZARDS

Combustible liquid. Do not use or store near heat or open flame.

DIRECTIONS FOR USE

RESTRICTED USE PESTICIDE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

SHAKE WELL BEFORE USING.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

This labeling must be in the possession of the user at the time of application.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- · Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves, made of barrier laminate, nitrile rubber, neoprene rubber or Viton[®] \geq 14 mils
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure

Willowood Lambda-Cy 1EC can be used for the control of the listed insects on: Alfalfa, Alfalfa grown for seed, Beans and Peas, Broccoli, Brussels Sprouts, Canola, Cabbage, Cavalo Broccoli, Cauliflower, Cereal Grains, Chinese Broccoli (gai lon), Chinese Cabbage (napa), Chinese Mustard Cabbage (gai choy), Corn (Field, Seed, Sweet, Popcorn), Cotton, Cucurbits, Eggplant, Garlic, Grass Forage, Fodder and Hay, Ground Cherry, Kohlrabi, Lettuce (Head and Leaf), Onions (Bulb), Peanuts, Peppers (Bell and Non-Bell), Pepinos, Pome Fruits (Apples, Crabapple, Loquat, Mayhaw, Pears, Quince), Rice and Wild Rice, Sorghum (Grain), Soybeans, Stone Fruits (Apricot, Plums, Nectarine, Peach, Prune, Cherries), Sugarcane, Sunflowers, Tobacco, Tomato and Tomatillo, Tree Nuts, Tuberous and Corm Vegetables, Wheat (Wheat Hay and Triticale), turf and ornamentals and non-agricultural uses (Conifer and Deciduous Trees; see also under **Specific Use Directions**).

Initial and residual control is contingent upon thorough crop coverage. Apply with ground or aerial equipment using sufficient water to obtain full coverage of foliage. Apply in a minimum of 2 gals./acre by air or 10 gals./acre by ground unless otherwise specified in this label. When foliage is dense or pest pressure is high (heavier insect or egg pressure, larger larval stages), use of higher application volumes and/or higher use rates may improve initial and residual control.

For cutworm control, Willowood Lambda-Cy 1EC may be applied before, during, or after planting. For soil-incorporated applications, use higher rates for improved control.

RESISTANCE MANAGEMENT

Willowood Lambda-Cy 1EC is a Group 3 Insecticide. Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. Consult your local or state agricultural authorities for details.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for your area.

SPRAY DRIFT PRECAUTIONS

OBSERVE THE FOLLOWING PRECAUTIONS WHEN SPRAYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES, RESERVOIRS, RIVERS, PERMANENT STREAMS, MARSHES, OR NATURAL PONDS, ESTUARIES, AND COMMERCIAL FISH FARM PONDS.

- Do not apply by ground within 25 ft. or by air within 150 ft. of lakes, reservoirs, rivers, permanent streams, marshes, pot holes, or natural ponds, estuaries, and commercial fish farm ponds. Increase the buffer zone to 450 ft. when ultralow volume (ULV) application is made.
- All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers.
- For aerial applications, the spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The minimum practical boom length should be used and must not exceed 75% of the wing span or rotor diameter.
- Use the largest droplet size consistent with good pest control. Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible, and by avoiding excessive spray boom pressure.
- Spray at the lowest height consistent with pest control and flight safety. Do not make applications more than 10 ft. above the crop canopy.
- Make aerial or ground applications when the wind velocity favors on-target product deposition (approximately 3-10

mph). Do not apply when wind velocity exceeds 15 mph. Avoid applications when wind gusts approach 15 mph.

- Risk of exposure to aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.
- Do not cultivate within 10 ft. of the aquatic area so as to allow growth of a vegetative filter strip.
- Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of increased spray drift to aquatic areas. Avoid spraying during conditions of low humidity and/or high temperature.
- Do not make aerial or ground applications during temperature inversions. Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.
- In the State of New York, a 25 ft. vegetated, non-cropped buffer strip untraversed by drainage tiles must be maintained between a treated field and a coastal salt marsh or stream that drains into a coastal salt marsh, for both aerial and ground applications. For aerial applications, the 25 ft. vegetated non-cropped buffer strip for runoff protection would be part of the larger 150 ft. buffer strip (or 450 ft. buffer strip for ULV application) required for spray drift.

TANK MIX APPLICATION

Fill the spray tank at least $\frac{1}{3}$ full of clean water or diluents. With the pump and agitator running continuously, add the specified amount of each product in the tank mix to the spray tank and allow to fully disperse, adding Willowood Lambda-Cy 1EC last. Add the remainder of water or diluent to the spray tank. Follow the precautions and limitations of the most restricted product in the tank mixture.

Compatibility testing for tank mixing partners: Test compatibility of the intended tank mixture by adding proportionate amounts of each ingredient to a pint or quart jar, cap, shake, and let set for 15 minutes. Formation of precipitates that do not readily redisperse indicates an incompatible mixture that should not be used.

CHEMIGATION

Sprinkler Irrigation Application

Apply Willowood Lambda-Cy 1EC at rates and timing described elsewhere in this label. Consult your local State Extension Service or other local experts for recommendations on adjuvant or diluent types, rates and mixing instructions. These recommendations should be proven, through university and extension field trials, to be effective with Willowood Lambda-Cy 1EC applied by chemigation.

Check the irrigation system to insure uniform application of water to all areas. Thorough coverage of foliage is required for good control. Good agitation in the pesticide supply tank should be maintained prior to and during the entire application period.

Apply by injecting the specified rate of Willowood Lambda-Cy 1EC into the irrigation system using a metering device that will introduce a constant flow and by distributing the product to the target area in 0.1-0.2 acre-inch of water. In general, use the least amount of water required for proper distribution and coverage. Inject the product into the main irrigation line ahead of a right angle turn in the line to insure adequate dispersion or mixing in the irrigation water. Once the application is completed, flush the entire irrigation and injection system with clean water before stopping the system.

If application is being made during a normal irrigation set of a stationary sprinkler, inject the specified rate of Willowood Lambda-Cy 1EC for the area covered into the system only during the end of the irrigation set for sufficient time to provide adequate coverage and product distribution.

Do not apply Willowood Lambda-Cy 1EC through an irrigation system connected to a public water system. Public water system means a system for the provision to the public of piped water for human consumption, if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Use Precautions - Sprinkler Irrigation Applications

- A. Apply this product only through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move. Do not apply this product through any other type of irrigation system.
- B. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
- C. If you have any questions about calibration, you should contact State Extension Service Specialists, equipment manufacturers, or other experts.
- D. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system, unless the pesticide label prescribed safety devices for public water systems are in place.
- E. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
- F. The system must contain a functional check-valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back-flow.
- G. The pesticide injection pipeline must contain a functional, automatic, quick-closing check-valve to prevent the flow

of fluid back toward the injection pump.

- H. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- I. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- J. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- K. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump), effectively designed and constructed of materials that are compatible with pesticides and are capable of being fitted with a system interlock.
- L. Any alternatives to the above required safety devices must conform to the list of EPA-approved alternative devices.
- M. **Do not** apply when wind speed favors drift beyond the area intended for treatment or non-uniform distribution of treated water.
- N. Do not apply through chemigation systems connected to public water systems.

SPECIFIC USE DIRECTIONS

AGRICULTURAL USES

Crop	Torract Docto	Rate	
Сгор	Target Pests	Lb. a.i./A	FI. Oz./A
ALFALFA AND ALFALFA G	ALFALFA AND ALFALFA GROWN FOR SEED		
	Alfalfa Caterpillar Army Cutworm Cutworm species Green Cloverworm Leafhopper species Looper species Threecornered Alfalfa Hopper Velvetbean Caterpillar Webworm species	0.015-0.025	1.92-3.20
ALFALFA AND ALFALFA	ROWN FOR SEED (CONTINUED)		

(continued)

CropTarget PestsAlfalfa Seed Chalcid (Adult) Alfalfa Weevil Armyworm Bean Leaf Beetle (Adult) Blister Beetle species Blue Alfalfa Aphid Clover Leaf Weevil species Clover Root Borer (Adult) Clover Root Curculio species (Adult) Clover Stem Borer (Adult) Corn Earworm Cowpea Aphid Cowpea Curculio (Adult) Cowpea Weevil (Adult)	Lb. a.i./A 0.02-0.03	FI. Oz./A 2.56-3.84
Alfalfa Weevil Armyworm Bean Leaf Beetle (Adult) Blister Beetle species Blue Alfalfa Aphid Clover Leaf Weevil species Clover Root Borer (Adult) Clover Root Curculio species (Adult) Clover Stem Borer (Adult) Corn Earworm Cowpea Aphid Cowpea Curculio (Adult)	0.02-0.03	2.56-3.84
Cowpea Weevil (Adult) Cucumber Beetle species (Adult) Egyptian Alfalfa Weevil Fall Armyworm ¹ Grape Colaspis (Adult) Grasshopper species Green June Beetle (Adult) Green Peach Aphid ³ Japanese Beetle (Adult) Meadow Spittlebug Mexican Bean Beetle Pea Aphid Pea Weevil (Adult) Plant Bug species including Lygus species ³ Spotted Alfalfa Aphid Stink Bug species Sweet Clover Weevil (Adult) Thrips species ⁴ Western Yellowstriped Armyworm Whitefringed Beetle species (Adult) Yellowstriped Armyworm		
Beet Armyworm ^{1,3} Blotch Leafminer ³	0.03	3.84

¹Use higher rates for large larvae.

² Suppression only.

³See **Resistance** statement under **Directions for Use**.

⁴ Does not include Western Flower Thrips.

- Apply only to fields planted to pure stands of alfalfa.
- Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. Apply in a minimum of 2 gals./A by air or 10 gals./A by ground. When foliage is dense and/or pest populations are high, 5-10 gals./A by air or 20 gals./A by ground and higher use rates are recommended. Use higher rates for increased residual control.
- Avoid application when bees are actively foraging by applying during the early morning or during the evening hours. Be aware of bee hazard resulting from a cool evening and/or morning dew. It may be advisable to remove bee shelters during and for 2-3 days following application. Avoid direct application to bee shelters.
- Do not apply more than 0.03 lb. a.i. (0.24 pt.) per acre per cutting.
- Do not apply more than 0.12 lb. a.i. (0.96 pt.) per acre per season.
- Do not apply within 1 day of harvest for forage or within 7 days of harvest for hay.

Cron	Towned Deede	Ra	ite
Crop	Target Pests	Lb. a.i./A	Fl. Oz./A
CANOLA			
	Armyworm species Cabbage Seedpod Weevil Cutworm species Diamondback Moth Flea Beetle Grasshoppers Looper species Lygus Bug	0.015-0.03	1.92-3.84
	Cabbage Aphid	0.03	3.84

Remarks:

- Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold.
- Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. When applying by air, apply a minimum of 2 gals. of water/A.
- **Do not** apply within 7 days of harvest.
- Do not apply more than 0.09 lb. a.i. (0.72 pt.)/A per year.

Crop	Towned Deets	Rate		
Crop	Target Pests	Lb. a.i./A	Fl. Oz./A	
CEREAL GRAINS				
Corn (At-Plant): Field Corn Popcorn Seed Corn Sweet Corn	Corn Rootworm (Larvae): Mexican Northern Southern Western Cutworm species Lesser Cornstalk Borer Red Imported Fire Ant ¹ Seedcorn Beetle Seedcorn Maggot White Grub species Wireworm species	0.005 lb. a.i. per 1,000 ft. of row ²	0.66 fl. oz. per 1,000 ft. of row ²	

¹ Suppression only.

- **Banded Applications** Apply at-planting as a 5-7 inch T-band sprayed across the open seed furrow between the furrow openers and the press wheels or as a band application behind the press wheel.
- In-Furrow Applications Apply into the seed furrow through spray nozzles or microtubes, behind the planter furrow openers and in front of the press wheel.
- Apply a minimum of 3 gals. finished spray per acre.
- Do not harvest or graze livestock or cut treated crops for feed within 21 days of at-plant application.
- Do not apply more than 0.09 lb. a.i. (0.72 pt.)/A per crop at-plant.
- For field corn, popcorn, and seed corn, **do not** apply more than 0.12 lb. a.i. (0.96 pt.)/A per crop from at-plant and foliar applications. For sweet corn, **do not** apply more than 0.48 lb. a.i. (3.84 pts.)/A per crop from at-plant and foliar applications.

² Lbs. A.I. and Fl. Oz./A of Willowood Lambda-Cy 1EC Applied at 0.66 fl. oz./1,000 ft. of Row for Various Row Spacings						
Row Spacing	40"	38"	36"	34"	32"	30"
Linear Ft./A	13,068	13,756	14,520	15,374	16,335	17,424
Lbs. A.I./A	0.067	0.07	0.075	0.079	0.084	0.09
Fl. Oz./A	8.6	9.1	9.6	10.1	10.8	11.5

Crop	Target Pests	R	ate
Сюр	laiget rests	Lb. a.i./A	FI. Oz./A
CEREAL GRAINS			
Corn (Foliar) Field Corn Popcorn Seed Corn	Corn Earworm ¹ Cutworm species Green Cloverworm Meadow Spittlebug Western Bean Cutworm ¹	0.015-0.025	1.92-3.20
	Armyworm ² Bean Leaf Beetle Bird Cherry-Oat Aphid ³ Cereal Leaf Beetle Corn Leaf Aphid ³ Corn Rootworm Beetle (Adult): Mexican Northern Southern Western English Grain Aphid ³ European Corn Borer ¹ Fall Armyworm ² Flea Beetle species Grasshopper species Hop Vine Borer ¹ Japanese Beetle (Adult) Lesser Cornstalk Borer Sap Beetle (Adult) Seedcorn Beetle Southwestern Corn Borer ¹ Stalk Borer ¹ Stink Bug species Tobacco Budworm ^{1,4} Webworm species Yellowstriped Armyworm ²	0.02-0.03	2.56-3.84
	Beet Armyworm ⁴ Chinch Bug Greenbug ^{3,4} Mexican Rice Borer ¹ Rice Stalk Borer ¹ Southern Corn Leaf Beetle ³ Sugarcane Borer ¹	0.03	3.84

¹ For control before the larva bores into the plant stalk or ear.

² Use higher rates for large larvae.

³ Suppression only.

⁴ See **Resistance** statement under **Directions for Use.**

Remarks:

- Apply as required by scouting, or locally prescribed corn growth stages, usually at intervals of 7 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds or other locally recommended methods.
- Apply with ground or air equipment using sufficient water and application methods to obtain full coverage of target location. When applying by air, apply in a minimum of 2 gals. of water/A.
- For chinch bug control, begin applications when bugs migrate from small grains or grass weeds to small corn. Direct spray to the base of corn plants. Repeat applications at 3-5 day intervals if needed. Willowood Lambda-Cy 1EC may only suppress heavy infestations and/or subsequent migrations.
- For control of adult corn rootworm beetles (*Diabrotica* species) as part of an aerial applied corn rootworm control program, use a minimum of 0.03 lb. a.i./A (3.84 fl. oz./A).
- Do not apply within 21 days of harvest.

(continued)

CEREAL GRAINS (Continued)

- **Do not** allow livestock to graze in treated areas or harvest treated corn forage as feed for meat or dairy animals within 1 day after last treatment.
- Do not feed treated corn fodder or silage to meat or dairy animals within 21 days after last treatment.
- Do not apply more than 0.12 lb. a.i. (0.96 pt.)/A per crop from at-plant and foliar applications.
- **Do not** apply more than 0.06 lb. a.i. (0.48 pt.)/A after silk initiation.
- Do not apply more than 0.03 lb. a.i. (0.24 pt.)/A after corn has reached the milk stage (yellow kernels with milky fluid).

Cron	Torract Decto	Ra	ate
Crop	Target Pests	Lb. a.i./A	Fl. Oz./A
CEREAL GRAINS			
Sweet Corn (Foliar)	Aphid species ^{2,3} Armyworm ¹ Aster Leafhopper Beet Armyworm ^{1,3} Chinch Bug Common Cornstalk Borer Corn Earworm Corn Rootworm Beetle (Adult): Mexican Northern Southern Western Cutworm species European Corn Borer Fall Armyworm ¹ Flea Beetle species Grasshopper species Japanese Beetle (Adult) Sap Beetle (Adult) Southern Armyworm ¹ Southern Armyworm ¹ Southern Armyworm ¹ Sup Beetle (Adult) Southern Armyworm ¹ Southwestern Corn Borer Spider Mite species ² Stink Bug species Tarnished Plant Bug Webworm species Western Bean Cutworm Yellowstriped Armyworm ¹	0.02-0.03	2.56-3.84
	Corn Silk Fly (Adult) ²	0.03	3.84

¹ Use higher rates for large larvae.

² Suppression only.

³ See **Resistance** statement under **Directions for Use**.

- Apply as required by scouting, or locally prescribed corn growth stages, usually at intervals of 4 or more days. Timing
 and frequency of applications should be based upon insect populations reaching locally determined economic
 thresholds or other locally recommended methods and should be targeted for control before insects enter the stalk or
 ear.
- Apply with ground or air equipment using sufficient water and application methods to obtain full coverage of foliage and ears (if present). When applying by air, apply in a minimum of 2 gals. of water/A.
- For control of adult corn rootworm beetles (*Diabrotica* species) as part of an aerial applied corn rootworm control program, use a minimum of 0.025 lb. a.i. (3.2 fl. oz.)/A.
- Do not apply within 1 day of harvest.
- **Do not** allow livestock to graze in treated areas or harvest treated corn forage as feed for meat or dairy animals within 1 day after last treatment. **Do not** feed treated corn fodder or silage to meat or dairy animals within 21 days after last treatment.
- **Do not** apply more than 0.48 lb. a.i. (3.84 pts.)/A per crop from at-plant and foliar applications.

Cron	Towned Deeds	Rat	te
Crop	Target Pests	Lb. a.i./A	Fl. Oz./A
CEREAL GRAINS			
Rice Wild Rice	Bird Cherry-Oat Aphid Chinch Bug Fall Armyworm Grasshopper species Greenbug Leafhopper species Rice Stink Bug Rice Water Weevil (Adult) Riceworm Sharpshooter species True Armyworm Yellow Sugarcane Aphid Yellowstriped Armyworm	0.025-0.04	3.20-5.12
	European Corn Borer ¹ Mexican Rice Borer ¹ Rice Seed Midge ¹ Rice Stalk Borer ¹ Sugarcane Borer ¹	0.03-0.04	3.84-5.12

¹ For control before the larvae bores into the plant stalk.

Remarks:

- Apply as required by scouting. Timing and frequency of application should be based upon insect populations reaching locally determined economic thresholds. Determine the need for repeat applications, usually at intervals of 5-7 days, by scouting.
- Willowood Lambda-Cy 1EC can be safely used when propanil products are being used for weed control.
- Apply by air or by ground equipment using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gals. of water (or total carrier volume) per acre, but ensure sufficient volume is used to provide adequate coverage. In addition, adding an emulsified crop oil (e.g., 1 pt. per acre) when lower aerial application volumes are used is recommended to help improve coverage, reduce evaporation and improve efficacy.
- For control of rice water weevil in dry-seeded rice, make a foliar application as indicated by scouting for the presence of adults and/or feeding scars, usually within a time frame of 0-5 days after permanent flood establishment. **Do not** exceed 10 days from starting permanent flood until insecticide application unless scouting indicates weevils have not been previously present. Adults may also be treated at later stages of rice development to reduce overwintering populations.
- For control of rice water weevil in water-seeded rice, make the first foliar application after pinpoint flood as indicated by scouting for the presence of adults and/or feeding scars, usually when rice has emerged 0.5 inch above the waterline. Under conditions of prolonged migration into the field, start field scouting for rice water weevil adults and/or feeding scars 3-5 days after the initial treatment and, if needed, apply a second application within 7-10 days of the first application. Adults may also be treated at later stages of rice development to reduce overwintering populations.
- **California:** In addition to above directions for control of rice water weevil in water-seeded rice, Willowood Lambda-Cy 1EC may be applied at the 1-3 leaf growth stage, with the majority at the 2 leaf growth stage. Adults are vulnerable on levees and in the water. Larvae are vulnerable while feeding on the leaf prior to entering the soil. Monitor for adults, based upon field history and density of population. Monitor field edges and levee areas for adults. Treat in the following manner: a) spray the inside perimeter of the field, or b) spray the entire field.
- Greenbug is known to have many biotypes. Willowood Lambda-Cy 1EC may only provide suppression. If satisfactory control is not achieved with the first application of Willowood Lambda-Cy 1EC, a resistant biotype may be present. Use alternate chemistry for control.
- For control of stem borers, scout fields when rice growth is near panicle differentiation, for early symptoms of damaging populations exhibited as discoloration (orange-tan) around the junction of the leaf sheath and leaf blade which is caused by feeding of young larvae within the sheath. Applications must be made before larvae bore into rice stems. Make the first application at panicle differentiation to 2 inch panicle for partial control. Make the second application at boot to heading for maximum control. All rice varieties are susceptible to stem borer damage, but Cocodrie and Priscilla are particularly susceptible.
- Mixers/loaders supporting aerial applications to wild rice at a rate of 0.04 lb. a.i./A and treating 1,200 acres (or more) per day must wear dust-mist respirator.

(continued)

CEREAL GRAINS (Continued)

- **Do not** release flood water within 7 days of an application.
- **Do not** apply more than 0.12 lb. a.i. (0.96 pt.)/A per season.
- Do not apply more than 0.04 lb. a.i. (0.32 pt.)/A within 21 to 27 days of harvest.
- Do not apply within 21 days of harvest.
- **Do not** use treated rice fields for the aquaculture of edible fish and crustacea.
- **Do not** apply as an ultra-low volume (ULV) spray.

Orren	Towned Deate	Rate		
Crop	Target Pests	Lb. a.i./A	Fl. Oz./A	
CEREAL GRAINS				
Sorghum (Grain)	Cutworm species Sorghum Midge	0.015-0.02	1.92-2.56	
	Armyworm Beet Armyworm ³ Corn Earworm European Corn Borer ² Fall Armyworm ¹ Flea Beetle species Grasshopper species Lesser Cornstalk Borer ² Southwestern Corn Borer ² Stink Bug species Webworm species Yellowstriped Armyworm ¹	0.02-0.03	2.56-3.84	
	Chinch Bug Mexican Rice Borer ² Rice Stalk Borer ² Sugarcane Borer ²	0.03	3.84	

¹ Use higher rates for large larvae.

² For control before the larva bores into the plant stalk.

³ See **Resistance** statement under **Directions for Use**.

- Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground or aerial equipment using sufficient water and application methods to obtain full coverage of target location. When applying by air, apply in a minimum of 2 gals. of water per acre.
- For sorghum midge control, begin applications when 25% of the sorghum heads have emerged and are in tip bloom. Repeat applications at 5-day intervals if needed.
- For chinch bug control, begin applications when bugs migrate from small grains or grass weeds to small sorghum. Direct spray to the base of sorghum plants. Repeat applications at 3-5 day intervals if needed. Willowood Lambda-Cy 1EC may only suppress heavy infestations and/or subsequent migrations.
- Do not apply more than 0.08 lb. a.i. (0.64 pt.)/A per season.
- Do not apply more than 0.06 lb. a.i. (0.48 pt.)/A per season after crop emergence.
- Do not apply more than 0.02 lb. a.i. (0.16 pt.)/A per season once crop is in soft-dough stage.
- Do not apply within 30 days of harvest.

0	Target Pests	Ra	Rate		
Crop		Lb. a.i./A	FI. Oz./A		
CEREAL GRAINS					
Barley Buckwheat	Army Cutworm Cutworm species	0.015-0.025	1.92-3.20		
Oats Rye Triticale Wheat Wheat Hay	Armyworm Bird Cherry-Oat Aphid ¹ Cereal Leaf Beetle English Grain Aphid ¹ Fall Armyworm Flea Beetle species Grasshopper species Hessian Fly ⁴ Orange Blossom Wheat Midge Russian Wheat Aphid ¹ Stink Bug species Yellowstriped Armyworm	0.02-0.03	2.56-3.84		
	Grass Sawfly	0.025-0.03	3.20-3.84		
	Chinch Bug Corn Leaf Aphid ² Greenbug ^{1,3} Mite species ²	0.03	3.84		

¹ Best control is obtained before insects begin to roll leaves. Once crop has started to boot, Willowood Lambda-Cy 1EC may provide suppression only. Higher rates and increased coverage will be necessary.

² Suppression only.

³ See **Resistance** statement under **Directions for Use**.

⁴ Make applications when adults emerge.

- Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground or air equipment using sufficient water and application methods to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gals. of water per acre.
- For chinch bug control, repeat applications at 3-5 day intervals if needed. Willowood Lambda-Cy 1EC may only suppress heavy infestations and/or migrations.
- Greenbug is known to have many biotypes. Willowood Lambda-Cy 1EC may provide suppression only. In this situation, a second application using an alternative chemistry may be needed.
- Do not apply within 30 days of harvest.
- **Do not** allow livestock to graze in treated areas or harvest treated wheat forage as feed for meat or dairy animals within 7 days after treatment. **Do not** feed treated straw to meat or dairy animals within 30 days after the last treatment.
- Do not apply more than 0.06 lb. a.i. (0.48 pt.)/A per season.

Crop	Towned Deets	Rate	
	Target Pests	Lb. a.i./A	FI. Oz./A
COLE CROPS (HEAD AN	D STEM BRASSICA)		
Broccoli Brussels Sprouts Cabbage Cauliflower Cavalo Broccoli Chinese Broccoli (gai Ion)	Alfalfa Looper Cabbage Looper Cabbage Webworm Cutworm species Imported Cabbageworm Southern Cabbageworm	0.015-0.025	1.92-3.20
Chinese Cabbage (napa) Chinese Mustard Cabbage (gai choy) Kohlrabi	Aphid species ^{2,3} Armyworm Beet Armyworm ^{1,3} Corn Earworm Diamondback Moth ³ Fall Armyworm ¹ Flea Beetle species Grasshopper species Japanese Beetle (Adult) Leafhopper species Meadow Spittlebug Plant Bug species including Lygus species ³ Spider Mite species ² Stink Bug species Thrips species ² Vegetable Weevil (Adult) Whitefly species ^{2,3} Yellowstriped Armyworm	0.02-0.03	2.56-3.84

¹ For control of first and second instar only.

² Suppression only.

³ See **Resistance** statement under **Directions for Use**.

- Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gals. of water/A.
- Do not apply within 1 day of harvest.
- Do not apply more than 0.24 lb. a.i. (1.92 pts.)/A per season.

Crop	Townet Deste	Ra	Rate	
	Target Pests	Lb. a.i./A	FI. Oz./A	
COTTON				
	Cutworm species Soybean Thrips Tobacco Thrips	0.015-0.02	1.92-2.56	
	Cabbage Looper Cotton Fleahopper Cotton Leafperforator Cotton Leafworm Lygus Bug species ³ Pink Bollworm Saltmarsh Caterpillar	0.02-0.03	2.56-3.84	
	Bandedwing Whitefly ^{2,3} Beet Armyworm ^{1,3} Boll Weevil Brown Stink Bug Cotton Aphid ^{2,3} Cotton Bollworm European Corn Borer Fall Armyworm Green Stink Bug Southern Green Stink Bug Sweet Potato Whitefly ^{2,3} Tobacco Budworm ³ Twospotted Spider Mite ²	0.025-0.04	3.20-5.12	

¹ For control of first and second instar only.

² Suppression only.

³ See **Resistance** statement under **Directions for Use**.

- Apply as required by scouting, usually at intervals of 5-7 days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground or aerial equipment using sufficient water to obtain full coverage of foliage.
- Applications may also be made with equipment adapted and calibrated for ULV sprays. Willowood Lambda-Cy 1EC may be mixed with once-refined vegetable oil and applied in a minimum of at least one quart of finished spray per acre.
- Under light bollworm/budworm infestation levels, 0.02 lb. a.i./A may be applied in conjunction with intense field monitoring.
- For boll weevil control, spray on a 3-5 day schedule.
- When applied according to label directions for control of cotton bollworm and tobacco budworm, Willowood Lambda-Cy 1EC also provides ovicidal control of unhatched *Heliothine* species eggs.
- Do not apply within 21 days of harvest.
- Do not graze livestock in treated areas.
- Do not apply more than 0.2 lb. a.i. (1.6 pints)/A per season.
- **Do not** make more than a total of 10 synthetic pyrethroid applications (of one product or combination of products) to a cotton crop in one growing season.

0	Towned Deste	Ra	nte
Сгор	Target Pests	Lb. a.i./A	Fl. Oz./A
CUCURBIT VEGETABLES			
Chayote (fruit) Chinese Waxgourd (Chinese preserving melon) Citron Melon Cucumber Gherkin Gourd (edible) <i>Lagenaria</i> species - includes: hyotan, cucuzza <i>Luffa acutangula, L cylindrical</i> - includes: hechima, Chinese okra <i>Momordica</i> species - includes: balsam apple, balsam pear, bitter melon, Chinese cucumber Muskmelon (hybrids and/or cultivars of <i>Cucumis melo</i>) - includes: true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, snake melon Pumpkin Squash, summer (<i>Cucurbita pepo</i> var. <i>melopepo</i>) -	Armyworm species ¹ Blister Beetle species Cabbage Looper Corn Earworm Cricket species Cucumber Beetle species (Adults) Cutworm species Flea Beetle species Grasshopper species June Beetle species Leaffooted Bug Leafhopper species Lygus Bug species ¹ Melonworm Pickleworm Plant Bug species Rindworm species complex Saltmarsh Caterpillar Squash Beetle Squash Bug species Stink Bug species Stink Bug species Thrips species ^{1,2} Tobacco Budworm ¹ Webworm species	0.02-0.03	2.56-3.84
includes: crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini Squash, winter <i>(Cucurbita maxima; C moschata) -</i> includes: butternut squash, calabaza, hubbard squash (C. <i>mixta</i> ; C. <i>pepo</i>) - includes: acorn squash, spaghetti squash Watermelon - includes: hybrids and/or varieties of <i>Citrullus lanatus</i>	Aphid species ¹ Leafminer species ^{1,3} Whitefly species ^{1,3} Spider Mite species ³	0.03	3.84

¹ See **Resistance** statement under **Directions for Use**.

- ² Does not include Western Flower Thrips.
- ³ Suppression only.

- Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground or air equipment using sufficient water and application methods to obtain full coverage of all plant parts. When applying by air, apply in a minimum of 2 gals. total solution per acre. When applying by ground, a minimum of 10 gals. total solution per acre is recommended.
- Use higher application volumes and/or rates when foliage is dense, pest populations are high, larvae are large, weather conditions are adverse and/or as plant size increases. Use higher rates for longer residual.
- Insects that bore or tunnel into leaves, vines, stems or fruit must be controlled before penetration. Only exposed insects (larvae and/or adults) can be controlled with foliar applications of Willowood Lambda-Cy 1EC.
- Do not apply more than 0.18 lb. a.i. (23 fl. oz. or 1.44 pts. of product) per acre per season.
- **Do not** apply within 1 day of harvest.

Crop	Target Pests	Ra	Rate	
Crop		Lb. a.i./A	Fl. Oz./A	
FRUITING VEGETABLES				
Eggplant	Cabbage Looper	0.015-0.025	1.92-3.20	
Ground Cherry	Cutworm species			
Pepino	Hornworm species			
Peppers (Bell and Non-	Aphid species ^{2,3}	0.02-0.03	2.56-3.84	
Bell)	Beet Armyworm ^{1,3}			
Tomatillo	Blister Beetle species			
Tomato	Colorado Potato Beetle ³			
	Cucumber Beetle species (Adult)			
	European Corn Borer ⁴			
	Fall Armyworm ¹			
	Flea Beetle species			
	Grasshopper species			
	Japanese Beetle (Adult)			
	Leafhopper species			
	Leafminer species ²			
	Meadow Spittlebug			
	Pepper Weevil (Adult) ²			
	Plant Bug species			
	Southern Armyworm ¹			
	Spider Mite species ²			
	Stalk Borer⁴			
	Stink Bug species			
	Thrips⁵			
	Tobacco Budworm ³			
	Tomato Fruitworm			
	Tomato Pinworm			
	Tomato Psyllid ^{2,3}	·		
	Vegetable Weevil (Adult)			
	Whitefly species ^{2,3}			
	Yellowstriped Armyworm ¹			

¹ For control of first and second instar only.

² Suppression only.

³ See **Resistance** statement under **Directions for Use.**

⁴ For control before the larva bores into the plant stalk or fruit.

⁵ Does not include Western Flower Thrips.

- Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gals. of water per acre.
- Do not apply within 5 days of harvest.
- Do not apply more than 0.36 lb. a.i. (2.88 pts.)/A per season.

0	Torract Depte	Rate	
Crop	Target Pests	Lb. a.i./A	Fl. Oz./A
GRASS FORAGE, FODDE	R AND HAY		
Pasture and Rangeland Grass, Grass Grown for Hay or Silage and Grass Grown for Seed	Army Cutworm Cutworm species Essex Skipper Range Caterpillar Striped Grass Looper	0.015-0.02	1.92-3.2
	Beet Armyworm Billbug species ³ Bird Cherry-Oat Aphid ¹ Black Grass Bug Black Turfgrass Beetle (Adult) Blue Stem Midge Cereal Leaf Beetle Chinch Bug Crane Fly species Cricket species English Grain Aphid ¹ Fall Armyworm Flea Beetle species Grass Mealybug Grass Sawfly (Adult) Grasshopper species Green June Beetle (Adult) Greenbug ^{1,2} Japanese Beetle (Adult) Katydid species Leafhopper species Mite species ³ Russian Wheat Aphid ¹ Southern Armyworm Spittlebug species Stink Bug species Stink Bug species Tick species True Armyworm Webworm species Yellowstriped Armyworm	0.02-0.03	2.56-3.84

¹ Best control is obtained before insects begin to roll leaves.

- ² See **Resistance** statement under **Directions for Use**.
- ³ Suppression only.

Remarks:

- Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground or air equipment using sufficient water and application methods to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gals. total solution per acre. When applying by ground, a minimum of 7 gals. total solution per acre is recommended.
- Use higher application volumes and rates when foliage is dense, pest populations are high, larvae are large and/or weather conditions are adverse. Use higher rates for longer residual.
- For chinch bug control, Willowood Lambda-Cy 1EC may only suppress heavy infestations and/or migrations. In this situation, a second application using an alternative chemistry may be needed.
- Greenbug is known to have many biotypes. Willowood Lambda-Cy 1EC may provide suppression only. In this situation, a second application using an alternative chemistry may be needed.
- Pasture and rangeland grass may be used for grazing or cut for forage 0 days after application. **Do not** cut grass to be dried and harvested for hay until 7 days after the last application.

(continued)

GRASS FORAGE, FODDER AND HAY (Continued)

- Grass grown for seed: Straw, hay and mature seed (seed screenings) may be used as feed 7 days after the last application. Regrowth of grass grown for seed may be used for grazing, cut for forage or cut to be dried and harvested for hay.
- **Do not** apply more than 0.03 lb. a.i. (3.84 fl. oz. or 0.24 pt. of product) per acre per cutting for pastures, rangeland and grasses grown for seed. A minimum re-treatment interval (RTI) of 30 days is required for pastures and rangeland receiving 0.03 lb. a.i. per acre which have not been cut between applications.
- Do not apply more than 0.09 lb. a.i. (11.52 fl. oz. or 0.72 pt. of product) per acre per season.

Over	Townet Deate	Rate		
Сгор	Target Pests	Lb. a.i./A	FI. Oz./A	
LEGUME VEGETABLES (BEANS AND PEAS)				
Edible Podded (Only) Canavalia ensiformis - jackbean Canavalia gladiata - sword bean Glycine max - soybean (immature seed) Edible Podded, Succulent Shelled or Dried	Cutworm species Green Cloverworm Imported Cabbageworm Mexican Bean Beetle Saltmarsh Caterpillar Velvetleaf Caterpillar	0.015-0.025	1.92-3.20	
Shelled	•			
Cajanus cajan - Pigeon pea	Alfalfa Caterpillar Aphid species⁴	0.02-0.03	2.56-3.84	
<i>Phaseolus</i> species - includes: field, kidney, lima, navy, pinto, runner, snap, tepary and wax beans	Armyworm ² Bean Leaf Beetle Bean Leafskeletonizer Blister Beetle species			
<i>Pisum</i> species - includes: dwarf, edible-pod, English, field, garden, green, snow and sugar snap peas	Corn Earworm Corn Rootworm Beetle species (Adult) Cucumber Beetle species			
<i>Vigna</i> species - includes: adzuki, asparagus, moth, mung, rice, urd and yardlong beans, black-eye pea, catjang, Chinese longbean, cowpea, Crowder pea, and Southern pea	(Adult) Curculio and Weevil species ¹ (foliage and pod feeding adults and larvae) European Corn Borer			
Succulent Shelled or Dried Shelled Vicia faba broad bean (fava bean)	Fall Armyworm ² Flea Beetle species (Adult) Flea Hopper species			
Dried Shelled (Only) <i>Cicer arietinum</i> - chickpea (garbanzo bean)	Grasshopper species Japanese Beetle (Adult) Leafhopper species Leaftier species			
Cyamopsis tetragonoloba - guar	Looper species			
Continued on next page.	Meadow Spittlebug Continued on next page.			

¹ For control before the larva bores into the plant stalk or pods.

² Use higher rates for large larvae.

⁴ See **Resistance** statement under **Directions for Use**.

Gree	Torrest Deste	Rate	
Сгор	Target Pests	Lb. a.i./A	FI. Oz./A
LEGUME VEGETABLES (BEANS AND PEAS) (Continued)		
Dried Shelled (Only) (continued)	Painted Lady Butterfly	0.02-0.03	2.56-3.84
Lablab pupureus - Lablab bean (hyacinth	(Larva)		
bean)	Plant Bug species		
	including Lygus species ⁴		
Lupinus species - includes: grain, sweet,	Stalk Borer ⁴		
white and sweet white lupines	Stink Bug species		
	Threecornered Alfalfa		
Lens esculenta - Lentils	Hopper		
	Thrips species ^{4,5}		
	Tobacco Budworm ⁴		
	Webworm species		
	Western Bean Cutworm		
	Western Yellowstriped		
	Armyworm ²		
	Yellowstriped Armyworm ²		
	Beet Armyworm ^{3,4}	0.03	3.84
	Leafminer species ^{3,4}		
	Lesser Cornstalk Borer ³		
	Soybean Looper ^{3,4}		
	Spider Mite species ³		
	Whitefly species ^{3,4}		

² Use higher rates for large larvae.

³ For suppression only.

⁴ See **Resistance** statement under **Directions for Use.**

⁵ Does not include Western Flower Thrips.

- Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gals. of water per acre.
- For edible podded and succulent shelled legume vegetables, do not apply within 7 days of harvest.
- For dried shelled legume vegetables, do not apply within 21 days of harvest.
- Do not apply more than 0.12 lb. a.i. (0.96 pt.)/A per season.
- For succulent and dried shelled peas and beans, **do not** graze livestock in treated areas or harvest vines for forage or hay.

Over	Towned Deets	Ra	ate
Crop	Target Pests	Lb. a.i./A	FI. Oz./A
LEGUME VEGETABLE	ES (SOYBEANS)		
Soybeans	Bean Leaf Beetle Cabbage Looper Corn Earworm Corn Rootworm Beetle (Adult): Mexican Northern Southern Western Cutworm species Green Cloverworm Mexican Bean Beetle Painted Lady (Thistle) Caterpillar Potato Leafhopper Saltmarsh Caterpillar Soybean Aphids ⁴ Threecornered Alfalfa Hopper Thrips species ⁵ Velvetbean Caterpillar Woollybear Caterpillar	0.015-0.025	1.92-3.20
	Armyworm ¹ Blister Beetle species European Corn Borer Fall Armyworm ¹ Grasshopper species Japanese Beetle (Adult) Plant Bug species Silver-Spotted Skipper Stink Bug species Tobacco Budworm ³ Webworm species Yellowstriped Armyworm ¹	0.025-0.03	3.20-3.84
	Beet Armyworm ^{2,3} Lesser Cornstalk Borer ² Soybean Looper ^{2,3} Spider Mite species ²	0.03	3.84

¹ Use higher rates for large larvae.

² Suppression only.

³ See **Resistance** statement under **Directions for Use**.

⁴ Use lower rates for early season applications and/or lighter populations.

⁵ Does not include Western Flower Thrips.

- Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- **Do not** graze or harvest treated soybean forage, straw, or hay for livestock feed.
- Apply with ground or aerial equipment using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gals. of water per acre.
- For control of adult corn rootworm beetles (*Diabrotica* species) as part of an aerial-applied corn rootworm control program, use a minimum of 0.02 lb. a.i. (2.56 fl. oz.)/A.
- Do not apply within 30 days of harvest.
- **Do not** apply more than 0.06 lb. a.i. (0.48 pt.)/A per season.

Orror	Target Pests	Ra	ate
Сгор		Lb. a.i./A	FI. Oz./A
LETTUCE (HEAD AND L	EAF)		
	Alfalfa Looper	0.015-0.025	1.92-3.20
	Cabbage Looper		
	Cutworm species		
	Green Cloverworm		
	Imported Cabbageworm		
	Saltmarsh Caterpillar		
	Aphid species ^{2,3}	0.02-0.03	2.56-3.84
	Armyworm		
	Beet Armyworm ^{1,3}		
	Corn Earworm		
	Diamondback Moth ³		
	European Corn Borer		
	Fall Armyworm ¹		
	Flea Beetle species		
	Grasshopper species		
	Japanese Beetle (Adult)		
	Leafhopper species		
	Meadow Spittlebug		
	Plant Bug species including Lygus species ³		
	Southern Armyworm		
	Spider Mite species ²		
	Stink Bug species		
	Tobacco Budworm ³		
	Vegetable Weevil (Adult)		
	Whitefly species ^{2,3}		

¹ For control of first and second instar only.

² Suppression only.

³ See **Resistance** statement under **Directions for Use**.

Remarks:

- Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gals. of water per acre.
- Do not apply within 1 day of harvest.
- Do not apply more than 0.3 lb. a.i. (2.4 pts. of product)/A per season.

Сгор	Townet Decto	Ra	te
Сгор	Target Pests	Lb. a.i./A	FI. Oz./A
ONION (BULB) AND GARLIC			
	Cutworm species Leafminer species (Adult) Onion Maggot (Adult) Seedcorn Maggot (Adult)	0.015-0.025	1.92-3.20
	Aphid species ² Armyworm species ¹ Flower Thrips ^{2,3} Onion Thrips ³ Plant Bug species Stink Bug species Tobacco Thrips ³ Western Flower Thrips ^{2,3}	0.02 - 0.03	2.56-3.84

¹ For control of first and second instar only.

² Suppression only.

³ See **Resistance** statement under **Directions for Use.**

ONION (BULB) AND GARLIC (continued)

Remarks:

- Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- Use the higher label rates as thrips population increases and avoid rescue situations.
- Apply with ground or air equipment using sufficient water and application methods to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gals. of water per acre.
- Do not apply within 14 days of harvest.
- Do not apply more than 0.24 lb. a.i. (1.92 pts. of product) per acre per season.

Crop	Towned De sta	Ra	Rate	
	Target Pests	Lb. a.i./A	FI. Oz./A	
PEANUTS				
	Cutworm species Green Cloverworm Potato Leafhopper Rednecked Peanut Worm Threecornered Alfalfa Hopper Velvetbean Caterpillar	0.015-0.025	1.92-3.20	
	Bean Leaf Beetle Corn Earworm Fall Armyworm ¹ Grasshopper species Southern Corn Rootworm (Adult) Stink Bug species Tobacco Thrips Vegetable Weevil Whitefringed Beetle (Adult)	0.02-0.03	2.56-3.84	
	Aphid species ² Beet Armyworm ^{2,3} Lesser Cornstalk Borer ² Soybean Looper ^{2,3} Spider Mite species ²	0.03	3.84	

¹ Use higher rates for large larvae.

² Suppression only.

³ See **Resistance** statement under **Directions for Use**.

- Apply as required by scouting, usually at intervals of 7 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground or aerial equipment using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gals. of water per acre.
- Do not apply within 14 days of harvest.
- Do not apply more than 0.12 lb. a.i. (0.96 pt.)/A per season.

0	Townsh Doosta	Ra	te
Crop	Target Pests	Lb. a.i./A	Fl. Oz./A
POME FRUITS			
Apple	Apple Aphid	0.02-0.04	2.56-5.12
Crabapple	Apple Maggot (Adult)		
Loquat	Cherry Fruit Fly species (Adult)		
Mayhaw	Codling Moth		
Oriental Pear	Green Fruitworm		
Pear	Japanese Beetle		
Quince	Leafhopper species		
	Leafroller species		
	Lesser Appleworm		
	Omnivorous Leafroller		
	Orange Tortrix		
	Oriental Fruit Moth		
	Pear Psylla ¹		
	Pear Sawfly		
	Periodical Cicada		
	Plant Bug species		
	Plum Curculio		
	Rosy Apple Aphid		
	San Jose Scale (fruit infestations only)		
	Spirea Aphid ¹		
	Stink Bug species		
	Tent Caterpillar species		
	Tentiform Leafminer species		
	Tree Borer species		
	Tufted Apple Budworm		
	Webworm species		

¹ Suppression only.

- Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds and IPM recommendations.
- Apply with ground or air equipment using sufficient water to obtain full coverage of the foliage or target area. When applying by air, apply in a minimum of 5 gals. of water per acre, but use higher volumes as appropriate for thorough coverage.
- Do not apply within 21 days of harvest.
- **Do not** apply more than 0.2 lb. a.i. (1.6 pts. of product)/A per season.
- Do not apply more than 0.16 lb. a.i. (1.28 pts.)/A per year post bloom.

0	Torget Boste	Rate		
Crop	Target Pests	Lb. a.i./A	Fl. Oz./A	
STONE FRUITS				
Apricot Chickasaw Plum Damson Plum Japanese Plum Nectarine Peach Plum Plumcot Prune Sweet and Tart Cherry	American Plum Borer Apple Maggot (Adult) Black Cherry Aphid Cherry Fruit Fly species (Adult) Codling Moth Green Fruitworm Japanese Beetle June Beetle Leafhopper species Leafroller species Oriental Fruit Moth Peach Twig Borer Peachtree Borer species Pear Sawfly Periodical Cicada Plant Bug species Plum Curculio Rose Chafer Stink Bug species Tent Caterpillar species Thrips species	0.02-0.04	2.56-5.12	

Remarks:

- Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold and IPM recommendations.
- Apply with ground or air equipment using sufficient water to obtain full coverage of the foliage or target area. When applying by air, apply a minimum of 5 gals. of water per acre, but use higher volumes as appropriate for thorough coverage.
- Do not apply within 14 days of harvest.
- Do not apply more than 0.2 lb. a.i. (1.6 pts.)/A per year.
- Do not apply more than 0.16 lb. a.i. (1.28 pts.)/A per year post bloom.

Cron	Townet Deate	Ra	Rate	
Сгор	Target Pests	Lb. a.i./A Fl. Oz./A	FI. Oz./A	
SUGARCANE				
	Mexican Rice Borer ¹ Pygmy Mole Cricket Rice Stalk Borer ¹ Sugarcane Aphid ³ Sugarcane Beetle (Adult) ² Sugarcane Borer ¹ West Indian Crane Fly Yellow Sugarcane Aphid ³	0.025-0.04	3.20-5.12	

¹ For control before the larva bores into the plant stalk.

² Suppression only of beetles active above ground.

³ See **Resistance** statement under **Directions for Use**.

- Apply as required by scouting, usually at intervals of 7 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold.
- Apply with ground or air equipment using sufficient water to obtain full coverage of the foliage or target area. When applying by air, apply a minimum of 2 gals. of water per acre.
- Do not apply within 21 days of harvest.
- Do not apply more than 0.16 lb. a.i. (1.28 pts.)/A per season.

Crop	Townet Deats	Ra	te
	Target Pests	Lb. a.i./A	Fl. Oz./A
SUNFLOWER			
	Cutworm species Sunflower Beetle	0.015-0.025	1.92-3.20
	Banded Sunflower Moth Fall Armyworm ¹ Grasshopper species Head-Clipper Weevil (Adult) Japanese Beetle (Adult) Leafhopper species Meadow Spittlebug Painted Lady (Thistle) Caterpillar Seed Weevil (Adult) Spotted Cabbage Looper Stem Weevil (Adult) Stink Bug species Sunflower Maggot (Adult) Sunflower Moth Woollybear Caterpillar	0.02-0.03	2.56-3.84
	Beet Armyworm ^{2,3} Spider Mite species ²	0.03	3.84

¹ Use higher rates for large larvae.

² Suppression only.

³ See **Resistance** statement under **Directions for Use**.

- Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground or air equipment using sufficient water to obtain full coverage of sunflower heads and/or foliage. When applying by air, apply in a minimum of 2 gals. of water per acre.
- Do not apply within 45 days of harvest.
- Do not apply more than 0.12 lb. a.i. (0.96 pt.)/A per season.
- **Do not** apply more than 0.09 lb. a.i. (0.72 pt.)/A per season after bloom initiation.
- **Do not** apply as an ultra-low volume (ULV) spray.

Crop	Torret Dooto	Ra	Rate		
	Target Pests	Lb. a.i./A	FI. Oz./A		
ГОВАССО					
	Armyworm species ¹ Blister Beetle species Cabbage Looper Corn Earworm Cucumber Beetle species (Adult) Cutworm species Grasshopper species Japanese Beetle (Adult) Katydid species Plant Bug species ³ Potato Tuberworm Saltmarsh Caterpillar Stink Bug species Tobacco Aphid species ^{2,3} Tobacco Budworm ³ Tobacco Flea Beetle (Adult) Tobacco Flea Beetle (Adult) Tobacco Thrips species ² Tomato Hornworm Tree Cricket species Vegetable Weevil (Adult) Webworm species	0.015-0.03	1.92-3.84		

¹ For control of first and second instars only.

² Suppression only.

³ See **Resistance** statement under **Directions for Use**.

- Apply as required by scouting, usually at intervals of 7 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold.
- Apply with ground or air equipment using sufficient water to obtain full coverage of the foliage. When applying by air, apply in a minimum of 2 gals. of water per acre.
- Do not apply within 40 days of harvest.
- Do not apply more than 0.09 lb. a.i. (0.72 pt.)/A per year.

Quen	Towned Deets	Ra	te
Crop	Target Pests	Lb. a.i./A Fl. Oz./	
TREE NUTS			
Almond Beech Nut Brazil Nut Butternut Cashew Chestnut Chinquapin Filbert (Hazelnut) Hickory Nut Macadamia Nut (Bush Nut) Pistachio Walnut Black Walnut English (Persian)	Ants Chinch Bug Codling Moth Filbertworm Leaffooted Bug Leafroller species Navel Orangeworm Peach Twig Borer Plant Bug species Stink Bug species Stink Bug species Walnut Aphid Walnut Husk Fly species (Adult)	0.02-0.04	2.56-5.12
Pecan	Hickory Shuckworm Pecan Aphid species Pecan Casebearer species Pecan Phylloxera species Pecan Spittlebug Pecan Weevil Stink Bug species	0.02-0.04	2.56-5.12

Remarks:

• Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold.

- Apply with ground or air equipment using sufficient water to obtain full coverage of the foliage or target area. When applying by air, apply in a minimum of 5 gals. of water per acre, but use higher rates as appropriate for thorough coverage.
- **Do not** apply within 14 days of harvest.
- Do not apply more than 0.16 lb. a.i. (1.28 pts.)/A per year.
- **Do not** apply more than 0.12 lb. a.i. (0.96 pt.)/A per year post bloom.

Crop	Torget Boote	Rate		
Сюр	Target Pests	Lb. a.i./A	FI. Oz./A	
TUBEROUS AND CORM \ (Potato, Sweet Potato, Ya				
Arracacha Arrowroot Artichoke (Chinese and Jerusalem only) Canna (edible)	Cutworm species Leafhopper species Saltmarsh Caterpillar Sweet Potato Hornworm Woollybear Caterpillar species	0.015-0.025	1.92-3.20	
Cassava (bitter and sweet) Chayote (root) Chufa Dasheen Ginger Leren Potato Sweet Potato Tanier Turmeric Yam (bean and true)	Aphid species ¹ Armyworm species ¹ Blister Beetle species Colorado Potato Beetle ¹ Corn Earworm Cricket species Cucumber Beetle species (Adults) European Corn Borer Flea Beetle species (Adults) Grasshopper species Looper species ¹ Lygus Bug species ¹ Plant Bug species ¹ Plant Bug species Potato Tuberworm Stink Bug species Sweet Potato Leaf Beetle (Adults) Sweet Potato Vine Borer Thrips species ^{1,2} Tortoise Beetle species Webworm species Weevil species (Adults)	0.02-0.03	2.56-3.84	
	Leafminer species ^{1,3} Spider Mite species ³ Whitefly species ^{1,3}	0.03	3.84	

¹ See **Resistance** statement under **Directions for Use**.

² Does not include Western Flower Thrips.

³ Suppression only.

- Apply as required by scouting, usually at intervals of 7 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground or air equipment using sufficient water and application methods to obtain full coverage of all above ground plant parts. When applying by air, apply in a minimum of 2 gals. total solution per acre. When applying by ground, a minimum of 10 gals. total solution per acre is recommended.
- Use higher application volumes and/or rates when foliage is dense, pest populations are high, larvae are large, weather conditions are adverse and/or as plant size increases. Use higher rates for longer residual.
- Insects that bore or tunnel into leaves, vines, stems, tubers or corms must be controlled before penetration. Only exposed insects (larvae and/or adults) can be controlled with foliar applications of Willowood Lambda-Cy 1EC.
- Do not apply more than 0.12 lb. a.i. (15.36 fl. oz. or 0.96 pt. of product) per acre per season.
- Do not apply within 7 days of harvest.

TURF AND ORNAMENTALS

Make applications of Willowood Lambda-Cy 1EC to ornamentals grown in commercial greenhouses, shade houses, and nurseries, and turf grown on sod farms or for commercial seed production.

Make applications of Willowood Lambda-Cy 1EC to maintain indoor or outdoor areas where turf and ornamentals grow, such as non-residential landscapes around institutional, public, commercial, and industrial buildings, parks, recreational areas, golf courses, and athletic fields.

Make applications of Willowood Lambda-Cy 1EC to golf course fairways, greens, greens aprons, and tee areas.

IMPORTANT: Time application to flowering plants during periods when pollinating insects are not present, such as early morning or late evening.

Do not apply this product through any type of irrigation system for turf and ornamental uses.

Do not apply this product to edible crops or crops grown for food/feed when applied to turf or ornamentals.

Do not apply this product by aerial application for turf and ornamental uses.

SPRAY DRIFT PRECAUTIONS

Observe restrictions found elsewhere on this label. Do not make applications when wind speed is 15 miles per hour or greater. Low humidity and high temperatures increase the likelihood of spray drift to sensitive areas. Avoid spraying during conditions of low humidity and/or high temperature.

Risk of exposure to sensitive aquatic areas can be reduced by avoiding applications when the wind direction is toward the aquatic area. Do not make outdoor applications during temperature inversions. Inversions are characterized by stable air and increasing temperature with height above ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

APPLICATION

Willowood Lambda-Cy 1EC mixes easily with water and may be used in all types of application equipment. Mix product with the required amount of water and apply as a dilute application to the point of runoff. Apply product using spray nozzles which produce a coarse droplet size. Formation of very small droplets may be minimized by appropriate nozzle selection and by avoiding excessive spray pressure. For application to plants like holly, pine, or ivy which have hard-to-wet foliage, add a spreader-sticker to enhance knockdown and increase residual activity. If application is made as a concentrate or mist-type application, use the same amount of product as would be used in a dilute application.

MIXING

Willowood Lambda-Cy 1EC is to be diluted with water for spray application and may be used in all types of application equipment. First fill application tank with ½ - ¾ volume of water. It is suggested that the pH of the water be between 5 and 7; use a buffering agent if necessary to adjust the pH. Next slowly add Willowood Lambda-Cy 1EC to the applicator tank water with maximum agitation. Finally, fill tank to desired volume and continue to agitate while making applications. If application is interrupted, agitate or re-suspend spray solution before resuming sprays. Always add Willowood Lambda-Cy 1EC to the applicator Cy 1EC last if other chemicals are to be added to the applicator tank. If mixed with EC formulations or oils, use within 24 hours. Make up only amount of application volume as required. See mixing charts below.

WIIIOWOOD	whowood Lambda-Cy TEC Mixing Chart for Ornamental insect Pest Control			
Use Rate per 100 gallons	1.3 fl. oz.	2.6 fl. oz.	4.4 fl. oz.	
Spray Tank Volume (gallons)	Amount of Willowood Lambda-Cy 1EC to use			
25	0.33	0.65	1.1	
50	0.65	1.3	2.2	
100	1.3	2.6	4.4	
200	2.6	5.2	8.8	
300	4.0	7.9	13.3	

Willowood Lambda-Cy 1EC Mixing Chart for Ornamental Insect Pest Control

Willowood Lambda-Cy 1EC Mixing Chart for Turf Insect Pest Control

Use Rate per Acre	4.4 fl. oz.	8.8 fl. oz.	17.6 fl. oz.
Application Volume (GPA)	Amount of Willowood Lambda-Cy 1EC to use per 100 gallon spray tank		
2	5.0	10.0	20.0
4	2.5	5.0	10.0
6	1.7	3.3	6.7
8	1.2	2.5	5.0
10	1.0	2.0	4.0

Conversion Rate: 1 Fluid ounce (fl. oz.) equals 29.6 milliliters (mL).

COMPATIBILITY

Willowood Lambda-Cy 1EC has been found to be compatible with most commonly used fungicides, miticides, liquid fertilizers, and other insecticides. Use ajar test to check physical compatibility using the correct proportion of products if local experience is unavailable.

Note: While phytotoxicity testing has been carried out on a wide range of ornamental plants under various environmental conditions, and no phytotoxicity has been observed, certain cultivars may be sensitive to the final spray solution. It is advised to prespray a selection of ornamental plants and observe them for 7-10 days prior to treating large areas if local use experience is unavailable.

USE INSTRUCTIONS

ORNAMENTALS

Ornamentals in Greenhouses, Shadehouses, and Nurseries

Ornamentals (including Trees, Shrubs, Flowers, Evergreens, Foliage Plants, and Ground Covers) in Landscaped Areas Around Institutional, Public, Commercial, and Industrial Buildings, Parks, Recreational Areas, Golf Courses, and Athletic Fields

	Rate of Willowood Lambda-Cv 1EC	Instructions
	per 100 gallons	
Pest Ants (Including Imported fire ants) Aphids Armyworms Azalea Caterpillars Bagworms ¹ Black Vine Weevils (Adult) Boxelder Bugs Budworms California Oakworms California Oakworms Cankerworms Cockroaches Crickets Cutworms Eastern Tent Caterpillars Elm Leaf Beetles European Sawflies Fall Webworms Flea Beetles Forest Tent Caterpillars Gypsy Moth Larvae	Lambda-Cy 1EC	Instructions Begin application to ornamentals before high insect pest populations become established. Reapply as necessary to keep pest populations under control, using higher rates as pest pressure increases. Good spray coverage is necessary to provide the most effective level of control. For ornamentals with waxy, hard-to- wet foliage, add a spreader-sticker at recommended rates to enhance the control of insects. For spot treatments, use 0.44 fl. oz. Willowood Lambda-Cy 1EC per 1-2.5 gallons of water. Apply at 7-day intervals if retreatment is necessary. Do not apply more than 0.36 lb. a.i. (46 fl. oz. of product)/A per year. Consult your state university or local Cooperative Extension Service office for specific pest control application timing in your area. ¹ Bagworm: Apply Willowood Lambda-Cy 1EC when bagworm larvae begin to hatch and spray directly on the larvae. Control will be best if the larvae are young.
Forest Tent Caterpillars		•

ORNAMENTALS (continued)

Pest	Rate of Willowood Lambda-Cy 1EC per 100 gallons	Instructions
Root Weevils Sawflies Scale Insects (Crawlers) ² Spiders	1.3 - 4.4 fl. oz. (38 - 128 mL)	Begin application to ornamentals before high insect pest populations become established. Reapply as necessary to keep pest populations under control, using higher rates as pest pressure increases.
Spittlebugs Striped Beetles Striped Oakworms Thrips Tip Moths		Good spray coverage is necessary to provide the most effective level of control. For ornamentals with waxy, hard-to- wet foliage, add a spreader-sticker at recommended rates to enhance the control of insects. For spot treatments, use 0.44 fl. oz. Willowood Lambda-Cy
Tussock Moth Larvae Wasps		1EC per 1-2.5 gallons of water. Apply at 7-day intervals if retreatment is necessary.
Broad Mites Brown Soft Scales California Red Scales (Crawler)	2.6 - 4.4 fl. oz. (75 - 128 mL)	Do not apply more than 0.36 lb. a.i. (46 fl. oz. of product)/A per year.
Clover Mites Mealybugs Pine Needle Scales (Crawler)		Consult your state university or local Cooperative Extension Service office for specific pest control application timing in your area.
Spider Mites Whiteflies		² Scale: Cover the plant thoroughly with Willowood Lambda- Cy 1EC spray, including trunks, stems, twigs, and foliage.

TURFGRASS

Sod Farms

Lawns around Institutional, Public, Commercial, and Industrial Buildings, Parks, Recreational Areas, Golf Courses, and Athletic Fields, Golf Course and Athletic Field Turf

Pest	Amount of Willowood Lambda-Cy 1EC	Instructions
Ants (Including Imported fire ants)	2.9 - 6 mL/1,000 sq. ft.	Begin application to turf before the establishment of
Armyworms	(4.4 - 8.8 fl. oz./A)	high insect pest populations and before significant
Centipedes		turf damage has occurred. Reapply as necessary to
Crickets		keep pest populations under control, using higher
Cutworms		rates as pest pressure increases. Apply at 7-day
Earwig		intervals if retreatment is necessary.
Fleas (Adult)		Do not apply more than 0.36 lb. a.i. (46 fl. oz. of
Grasshoppers		product)/A per year.
Japanese Beetles (Adult)		For spot treatments, use 0.44 fl. oz. of Willowood
Millipedes		Lambda-Cy 1EC per 1-2.5 gals. of water.
Mites		Do not apply when turfgrass is waterlogged or
Pillbugs		when soils are saturated with water (i.e., will not
Sod Webworms		accept irrigation).
Sow Bugs		
Ticks (Including species which transmit		Keep children and pets off treated areas until spray
Lyme disease)		has dried following the application.
Bluegrass Billbugs (Adult)	6 mL/1,000 sq. ft.	See additional instructions below for specific pests.
Black Turfgrass Ataenius (Adult)	(8.8 fl. oz./A)	
Chiggers		
Fleas (Adult)		
Grub (Suppression)		
Hyperodes Weevils (Adult)		
Mole Crickets (Nymphs and Young Adults)		
Chinch Bugs	12 mL/1,000 sq. ft.	
Mole Crickets (Mature Adults)	(17.6 fl. oz./A)	
(Not for use on mature adult mole crickets		
and chinch bugs in New York State.)		est weakte analy Willowead Lambda Cy 150 is 0.5

Armyworms, cutworms, fleas, and other Surface Insects: For best results, apply Willowood Lambda-Cy 1EC in 2-5 gals. of water per 1,000 sq. ft. If high rainfall amounts are forecast, a spreader-sticker may be useful; otherwise the addition of adjuvants is not necessary under normal conditions for surface insect control in turf. Delay watering or mowing for 12-24 hours for optimum control of surface-feeding insect pests.

Chinch bugs, billbugs, and other Thatch Inhabiting Insects: For best results, apply Willowood Lambda-Cy 1EC in 2-10 gals. of water per 1,000 sq. ft. Use of a nonionic wetting agent, penetrant, or similar adjuvant at label rates. Irrigate lightly after application with up to ½ inch of water to move the Willowood Lambda-Cy 1EC into the thatch layer. If irrigation is not available, then use high water application rates for optimum results.

Mole crickets, grubs, and other Subsurface Insects: For best results, apply Willowood Lambda-Cy 1EC in 4-10 gals. of water per 1,000 sq. ft. Use a nonionic wetting agent, penetrant, or similar adjuvant following label rates. Use the highest water application rates possible with your sprayer. Apply Willowood Lambda-Cy 1EC to turf which is wet with dew, rain, or irrigation. Water-in immediately after application with ¼ - ½ inch of water for optimum results.

Fire Ants: Treat individual mounds with a drench application by means of a watering can. Use 0.32 fl. oz. of Willowood Lambda-Cy 1EC per 2.5 gals. of water. Thoroughly soak each mound as well as a 3 ft. diameter circle around each mound. Apply the mixture gently to avoid disturbing the mound; disturbing the mound may cause the ants to migrate and reduce the effectiveness of the treatment. For best results, apply in early morning or late evening hours. Make additional treatments if necessary, but not more than every 7 days.

Mosquitoes: Apply as a general spray around landscape plantings, turf, and building foundations to control mosquitoes. For best results, apply Willowood Lambda-Cy 1EC in 2-5 gals. of water per 1,000 sq. ft.

NON-AGRICULTURAL USES

Cron	Townet Deete	Ra	Rate		
Crop	Target Pests	Lb. a.i./A	Fl. Oz./A		
CONIFER AND DECIDUO	JS TREES				
CONIFER AND DECIDUO Plantations and Nurseries	JS TREES Bagworm Balsam Twig Aphid Balsam Woolly Aphid Birch Leafminer Black Pine Weevil Elm Leaf Beetle European Elm Bark Beetle Gypsy Moth Japanese Beetle June Beetle species Leaf Beetle species Leaf Beetle species May Beetle species May Beetle species ¹ Pales Weevil Pine Chafer Pine Colaspis Beetle Pine Conelet Bug Pine Leaf Chermid	Lb. a.i./A	Fl. Oz./A		
	Pine Needle Scale Pine Sawfly species Pine Tip Moth species Pine Tortoise Scale Pine Weevil species Poplar Aphid species Sawfly species Spruce Budworm Tent Caterpillar species Tussock Moth species Webworm species				

¹ Suppression only.

Remarks:

- To control exposed foliage, flower, cone, seed and bark feeding insects, apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground equipment using sufficient water to obtain full coverage of target site. When applying by air, apply a minimum of 2 gals. of water per acre.
- Do not apply more than 0.24 lb. a.i. (1.92 pts.)/A per year.

Сгор	Target Pests	Rate		
		Lb. a.i./A	FI. Oz./A	
CONIFER AND DECIDUOUS TREES				
Seed Orchards	Coneworm species Seed Bug species Thrips species	See Remarks	See Remarks	

- For high volume sprayers, dilute 5.12 fl. oz. per 100 gals. of water and apply 5-10 gals. of finished spray per tree.
- For low volume sprayers, dilute 20 fl. oz. per 100 gals. of water and apply 100 gals. of finished spray per acre.
- For aerial applications, apply 15 fl. oz./A in a minimum of 10 gals. finished spray per acre.
- Do not apply more than 0.5 lb. a.i. (4 pts.)/A per year.

Сгор	Target Pests	Rate	
		Lb. a.i./A	FI. Oz./A
NON-CROPLAND (EXCLU			
	See Crop Outlets on this Willowood Lambda-Cy 1EC label for target pests and rates.	See Crop Outlets	See Crop Outlets

Remarks:

- Spray non-cropland adjacent to agricultural areas to control migratory insects, which may threaten crops.
- Follow **Use Directions**, rates and spray recommendations found elsewhere in this label for the adjacent crop outlet and target pests.
- Use highest labeled rates for dense/large foliage, high insect populations and larger larval stages.
- Repeat as necessary to maintain control.
- **Do not** exceed 0.2 lb. a.i. (1.6 pts.) per acre per year.
- **Do not** graze livestock in treated areas.

Rate Conversion Chart

Lb. A.I. Per Acre	Fl. Oz. Per Acre	Pints Per Acre	Treated Acres Per Gal.
0.015	1.92	0.12	66
0.02	2.56	0.16	50
0.025	3.20	0.20	40
0.03	3.84	0.24	33
0.04	5.12	0.32	25

STORAGE AND DISPOSAL

Prohibitions

Do not contaminate water, food, or feed by storage and disposal.

Storage

Store in original containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill or leak on floor or paved surfaces, soak up with sand, earth, or synthetic absorbent. Remove to chemical waste area.

Pesticide Disposal

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Container Handling

NONREFILLABLE CONTAINER (EQUAL TO OR LESS THAN 5 GALLONS): Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

NONREFILLABLE CONTAINER (GREATER THAN 5 GALLONS): Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¹/₄ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Offer for recycling, if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

REFILLABLE CONTAINER: Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

REFILL ONLY WITH WILLOWOOD LAMBDA-CY 1 EC. The contents of RETURNABLE CONTAINERS cannot be completely removed by cleaning. Refilling with materials other than Willowood Lambda-Cy 1 EC will result in contamination and may weaken container.

After filling and before transporting, check for leaks. Do not refill or transport damaged or leaking container.

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Willowood, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold Willowood, LLC and Seller harmless for any claims relating to such factors.

Willowood, LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or Willowood, LLC, and (2) Buyer and User assume the risk of any such use. TO THE EXTENT PERMITTED BY APPLICABLE LAW, WILLOWOOD, LLC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL. To the extent permitted by applicable law, in no event shall Willowood, LLC be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF WILLOWOOD, LLC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF WILLOWOOD, LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

Willowood, LLC and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of Willowood, LLC.

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