

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

March 25, 2020

Crystal Layton Regulatory Manager UPL NA Inc. 640 Freedom Business Center, Suite 402 King of Prussia, PA 19406

Subject: Notification per PRN 98-10 – Change the primary brand name and referral statements on label Product Name: UPI-2005 EXP-06 RUP Insecticide EPA Registration Number: 70506-121 Application Date: 4/30/2019 Decision Number: 550460

Dear Ms. Layton:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped "Notification" and will be placed in our records.

The primary brand name "Lambda-Cy EC Insecticide-RUP" has been added to the product record.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If you have any questions, please contact me by phone at 703-347-0559, or via email at <u>herrick.jacquelyn@epa.gov</u>.

Sincerely,

Herrick

Jacquelyn Herrick, Product Manager 03 Invertebrate & Vertebrate Branch 1 Registration Division (7505P) Office of Pesticide Programs

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.

GROUP 3 INSECTICIDE

UPI-2005 EXP-06 RUP INSECTICIDE LAMBDA-CY[™] EC Insecticide-RUP For Agricultural and Turf and Ornamental Use

NOTIFICATION 70506-121

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

ACTIVE INGREDIENT	this notification by letter
Lambda-cyhalothrin	03/25/2020
[1a(S*),3a(Z)]-(±)-cyano-(3-phenoxyphenyl)methyl-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-	
dimethylcyclopropanecarboxylate	
INERT INGREDIENTS.	
	100.0%

Contains 1 lb. of active ingredient per gallon. Contains petroleum distillates.

 Optional booklet use referral statements:

 See inside for First Aid Statements, additional Precautionary Statements and complete Directions For Use.

 See inside for additional Precautionary Statements and complete Directions For Use.

 See attached booklet for additional Precautionary Statements and complete Directions For Use.

 See attached booklet for additional Precautionary Statements, Directions For Use, Storage and Disposal, and Conditions of Sale and Limitation of Warranty and Liability.

 PEEL DOWN FOR DIRECTIONS

 PEEL HERE TO OPEN

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. 			
IF IN EYES	 Do not give anything by mouth to an unconscious person. 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 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 INHALED Move person to fresh air. If person is not breathing, call 911 or an ambulance, give artificial respiration immediately, preferably by mouth-to-mouth. Call a poison control center or doctor for treatment advice. 				
Note to Physician: C	Contains petroleum distillates. Vomiting may cause aspiration pneumonia.			
Have the product con	tainer or label with you when calling a poison control center or doctor, or going for ency medical treatment information, contact the Rocky Mountain Poison Control			

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300.

United Phosphorus, Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406 1-800-438-6071 Net Contents: EPA Reg. No. 70506-121 EPA Est. No. Batch/Lot #

PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals WARNING

May be fatal if swallowed. Harmful if inhaled or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash hands thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove contaminated clothing and wash before reuse

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category G on an EPA chemical resistance category selection chart.

Applicators and Other Handlers Must Wear:

- Long-sleeved shirt and long pants
- Chemical resistant gloves made of any waterproof material such as Barrier Laminate, or Viton ≥14 mils
- Shoes plus socks
- Protective eyewear

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, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS STATEMENT

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 immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE/clothing 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 extremely toxic to fish and aquatic organisms and toxic to wildlife. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas.

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 runoff 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 visiting the treatment area.

Physical and Chemical Hazards

Combustible. Do not use or store near heat or open flame. Do not use this product in or on electrical equipment due to the possibility of shock hazard.

DIRECTIONS FOR USE

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

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR INSECT CONTROL, CROP INJURY, OR ILLEGAL RESIDUES.

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:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical resistant gloves made of any waterproof material such as Barrier Laminate, or Viton ≥ 14 mils

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep adults, children, and pets off treated areas until spray has dried following the application.

SPRAY DRIFT PRECAUTIONS

BUFFER ZONES

Vegetative Buffer Strip

Construct and maintain a minimum 10-foot-wide vegetative filter strip of grass or other permanent vegetation between the field edge and down gradient aquatic habitat (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marshes or natural ponds; estuaries; and commercial fish farm ponds).

Only apply products containing lambda-cyhalothrin onto fields where a maintained vegetative buffer strip of at least 10 feet exists between the field and down gradient aquatic habitat.

For guidance, refer to the following publication for information on constructing and maintaining effective buffers:

Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. USDA, NRCS. 2000. Fort Worth, Texas. 21 pp. www.in.nrcs.usda.gov/technical/agronomy/newconbuf.pdf

Buffer Zone for Ground Application (groundboom, overhead chemigation, or airblast)

Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Buffer Zone for ULV Aerial Application

Do not apply within 450 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, ponds, estuaries, and commercial fish ponds).

Buffer Zone for Non-ULV Aerial Application

Do not apply within 150 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries, and commercial fish ponds).

SPRAY DRIFT REQUIREMENTS

Wind Direction and Speed

Only apply this product if the wind direction favors on-target deposition. Do not apply when the wind velocity exceeds 15 mph.

Temperature Inversion

Do not make aerial or ground applications into 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.

Droplet Size

Use only Medium or coarser spray nozzles (for ground and non-ULV aerial application) according to ASAE (S572) definition for standard nozzles. In conditions of low humidity and high temperatures, applicators should use a coarser droplet size.

ADDITIONAL REQUIREMENTS FOR GROUND APPLICATIONS

Wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application.

For ground boom applications, apply using a nozzle height of no more than 4 feet above the gorund or crop canopy.

For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.

ADDITIONAL REQUIREMENTS FOR AERIAL APPLICATIONS

The spray boom should be mounted on the aircraft so as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length should be used and must not exceed 75% of the wing span or 80% rotor diameter.

Flight speed and nozzle orientation must be considered in determining droplet size.

Spray must be released at the lowest height consistent with pest control and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.

When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downward edge of the application area by adjusting the path of the aircraft upwind.

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 application. 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.

CHEMIGATION

Sprinkler Irrigation Application

Apply LAMBDA-CY EC INSECTICIDE-RUP using rates and timing described on this label. Consultation with your local State Extension Service or other local experts may be useful for recommendations on which adjuvants or diluent types to use, (see Tank Mix Applications section) as well as for rates and mixing instructions. Ascertain that the recommendations have been proven, through university and extension field trials, to be effective with this product applied by chemigation.

Be sure the irrigation system is providing uniform application of water to all areas, because good control requires thorough coverage of foliage. Maintain continuous agitation in the pesticide supply tank before and during the entire application period.

Inject the recommended rate of LAMBDA-CY EC INSECTICIDE-RUP into the irrigation system by means of a metering device that will provide a constant flow and distribute the product to the desired area in 0.1-0.2 inch of water. It is recommended that the minimum amount of water be used that will provide 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. Following application, flush the entire irrigation and injection system with clean water before stopping it.

If application is being made during a normal irrigation set of a stationary sprinkler, inject the recommended rate of LAMBDA-CY EC INSECTICIDE-RUP for the area covered into the system only during the end of the irrigation set for a sufficient time to provide adequate coverage and product distribution.

It is not recommended that LAMBDA-CY EC INSECTICIDE-RUP be applied 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 APPLICATION

- A. Apply this product only through (sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move) irrigation system(s). 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 nonuniform distribution of treated water.
- C. If you have 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-resource contamination from backflow.

- G. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid toward the injection pump.
- H. The pesticide injection pipeline must also contain a functional, normally closed, solenoidoperated 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 capable of being fitted with a system interlock.
- L. Do not apply when wind speed favors drift beyond the area intended for treatment.
- M. Do not apply through chemigation systems connected to public water systems.

GENERAL DIRECTIONS FOR USE

Thorough crop coverage is necessary for both initial and residual control. Apply by ground in at least 10 gal/A or by air in at least 2 gal/A using sufficient water to obtain full coverage of foliage unless this label specifies otherwise. In situations where foliage is dense or pest pressure is high (heavier insect or egg pressure, larger larval stages), control can be improved by use of higher application volumes and/or higher use rates.

For cutworm control, LAMBDA-CY EC INSECTICIDE-RUP may be applied before, during, or after planting. When making soil incorporated applications, use higher rates for better control.

Resistance Management

Lambda-Cy EC Insecticide – RUP is a Group 3 Insecticide (contains the active ingredient lambdacyhalothrin). 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.

Tank Mix Applications

LAMBDA-CY EC INSECTICIDE-RUP may be tank mixed with other currently registered pesticides unless expressly prohibited by the product label. Adjuvants such as spreader stickers, wetting agents, and penetrants may also be added. Use a small volume mixing test with the other products to confirm compatibility. If other chemicals are added to the applicator tank, LAMBDA-CY EC INSECTICIDE-RUP should be added last. Fill tank to desired volume and continue to agitate while making applications. If mixed with EC formulations, use within 24 hours. Observe all restrictions and precautions found on labels of products in the tank mix.

CROP USES AND SPRAY RECOMMENDATIONS

ALFALFA, ALFALFA GROWN FOR SEED

Pests	Rate Lambda-Cy EC Insecticide-RUP per Acre	Remarks
Alfalfa Caterpillar	0.015-0.025 lb. a.i.	See additional instructions below.

Army Cutworm	(1.92-3.20 fl. oz.)	
Cutworm spp.	(1.)2 5.20 11. 62.)	¹ Use higher rates for large larvae
Green Cloverworm		² Suppression only.
Leafhopper spp.		³ See resistance statement under General
Looper spp.		Directions for Use.
Threecornered Alfalfa Hopper		⁴ Does not include Western Flower Thrips.
Velvetbean Caterpillar		Does not menude western riower rimps.
Webworm spp.		
Alfalfa Seed Chalcid (Adult)	0.02-0.03 lb. a.i.	\square Do not apply more than 0.02 lb, $o \neq (0.24 \text{ pt})$
Alfalfa Weevil		Do not apply more than 0.03 lb. a.i. (0.24 pt. or 3.84 fl. oz of product)/A per cutting.
	(2.56-3.84 fl. oz.)	or 5.84 II. 62 of product)/A per cutting.
Armyworm		$\mathbf{D}_{\mathbf{r}}$ and $\mathbf{r}_{\mathbf{r}}$ is a second then 0.12 lb \mathbf{r} : (0.06 mb
Bean Leaf Beetle (Adult)		Do not apply more than 0.12 lb. a.i. (0.96 pt.)
Blister Beetle spp.		or 15.36 fl. oz. of product)/A per season.
Blue Alfalfa Aphid		
Clover Leaf Weevil spp.		Do not apply within 1 day of harvest for
Clover Root Borer (Adult)		forage or within 7 days of harvest for hay.
Clover Root Curculio spp. (Adult)		
Clover Stem Borer (Adult)		
Corn Earworm		
Cowpea Aphid		
Cowpea Curculio (Adult)		
Cowpea Weevil (Adult)		
Cucumber Beetle spp. (Adult)		
Egyptian Alfalfa Weevil		
Fall Armyworm ¹		
Grape Colaspis (Adult)		
Grasshopper spp.		
Green June Beetle (Adult)		
Green Peach Aphid ³		
Japanese Beetle (Adult)		
Meadow Spittlebug		
Mexican Bean Beetle		
Pea Aphid		
Pea Weevil (Adult)		
Plant Bug spp. including Lygus spp. ³		
Spotted Alfalfa Aphid		
Stink Bug spp.		
Sweet Clover Weevil (Adult)		
Thrips spp. ⁴		
Western Yellowstriped Armyworm		
Whitefringed Beetle spp. (Adult)		
Yellowstriped Armyworm		_
Beet Armyworm ^{1,3}	0.03 lb. a.i.	
Blotch Leafminer ³ Spider Mites ²	(3.84 fl. oz.)	

Use scouting to determine need for applications. Base the timing and frequency of applications on the timing when insect populations reach local economic thresholds.

Apply by ground or air using enough water to obtain full coverage of foliage. Apply in at least 2 gal./A by air or 10 gal/A by ground. In situations of dense foliage and/or high pest populations, use 5-10 gal/A by air or 20 gal./A by ground and higher use rates. Also use higher rates for improved 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.

CANOLA

Pests Rate Lambda-Cy EC	Remarks
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	Insecticide-RUP per Acre			
Armyworm spp.	0.015-0.03 lb. a.i.	See additional instructions below.		
Cabbage Seedpod Weevil	(1.92-3.84 fl. oz.)			
Cutworm spp.		Do not apply within 7 days of harvest.		
Diamondback Moth		Do not apply more than 0.09 lb. a.i.(0.72 pt. or		
Flea Beetle		11.52 fl. oz. of product)/A per year.		
Grasshoppers				
Looper spp.				
Lygus Bug				
Cabbage Aphid	0.03 lb. a.i.			
	(3.84 fl. oz.)			
Use scouting to determine need for applications, usually at intervals of 5 or more days. Base the timing and frequency of				
applications on when insect populations reach local economic thresholds.				
Apply by air or ground with enough water to obtain full coverage of foliage.				
For air applications, apply a minimum of 2 gal. of water /A.				

CEREAL GRAINS – CORN (AT PLANT): FIELD CORN, POPCORN, SEED CORN, SWEET CORN

Pests	In	Rate Lambda- secticide-RUP p of Row ²	er 1,000 ft			Remarks	
Corn Rootworm La (Western, North Southern, Mexic Cutworm spp. Lesser Cornstalk B Red Imported Fire Seedcorn Beetle Seedcorn Maggot Wireworm spp. ¹ White Grub spp.	ern, an) orer	0.005 lb. a (0.66 fl. oz		fee Do oz. Fo pro Fo pts and Fo as fur or Fo see the wh Ap	ed within 21 days o not apply more to of product)/A per r field corn, pope ore than 0.12 lb. a oduct)/A per crop r sweet corn do n a. or 61.44 fl. oz c d foliar applicatio r Banded Applica a 5-7 inch T-band row between the as a band applica r In-Furrow Apple d furrow through planter furrow o neel.	of at plant applica than 0.09 lb. a.i. (0 er crop at plant. form, and seed corn a.i. (0.96 pts. or 15. from at plant and ot apply more thar of product)/A per c ons. ations – Make appl d sprayed across th furrow openers an tion behind the pre- lications – Make ap a spray nozzles or a openers and in from of 3 gal. finished sp	.72 pt. or 11.52 fl. do not apply 36 fl. oz of foliar applications. a 0.48 lb. a.i. (3.84 rop from at plant ication at planting e open seed d the press wheels ess wheel. oplication into the microtubes, behind t of the press
² lbs. a.i. and fl. oz./A of LAMBDA-CY EC INSECTICIDE-RUP applied at 0.66 fl. oz./1000 ft. of row for				t. of row for			
various row spacin Row Spacing	<u>gs.</u> 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

CEREAL GRAINS – CORN (FOLIAR): FIELD CORN, POPCORN, SEED CORN

Pests	Rate Lambda-Cy EC Insecticide-RUP per Acre	Remarks
Corn Earworm ¹	0.015-0.025 lb. a.i.	See additional instructions below.

Cutworm on	(1.92-3.20 fl. oz.)	¹ For control before the larva bores		
Cutworm spp. Green Cloverworm	(1.92-5.20 11. 02.)	into the plant stalk or ear.		
Meadow Spittlebug		² Use higher rates for large larvae.		
Western Bean Cutworm ¹		³ Suppression only. ⁴ See resistance statement under		
2	0.02.0.02.11	General Directions for Use.		
Armyworm ²	0.02-0.03 lb. a.i.	Do not apply within 21 days of		
Bean Leaf Beetle	(2.56-3.84 fl. oz.)	harvest.		
Bird Cherry-Oat Aphid ³		Do not allow livestock to graze in		
Cereal Leaf Beetle		treated areas or harvest treated corn		
Corn Leaf Aphid ³		forage as feed for meat or dairy		
Corn Rootworm Beetle (Adult beetles		animals within 1 day after treatment.		
including Mexican, Northern,		Do not feed treated corn fodder or		
Southern, Western)		silage to meat or dairy animals within		
English Grain Aphid ³		21 days after last treatment.		
European Corn Borer ¹		Do not apply more than 0.12 lb. a.i.		
Fall Armyworm ²		(0.96 pt. or 15.36 fl. oz. of		
Flea Beetle spp.		product)/A per crop from at plant and		
Grasshopper spp.		foliar applications.		
Hop vine Borer ¹		Do not apply more than 0.06 lb. a.i.		
Japanese Beetle (Adult)		(0.48 pt. or 7.68 fl. oz. of product)		
Lesser Cornstalk Borer		after silk initiation.		
Sap Beetle (Adult)		Do not apply more than 0.03 lb. a.i.		
Seedcorn Beetle		(0.24 pt. or 3.84 fl. oz. of product)/A		
Southwestern Corn Borer ¹		after corn has reached the milk stage		
Stalk Borer ¹		(yellow kernels with milky fluid).		
Stink Bug spp.				
Tobacco Budworm ^{1,4}				
Webworm spp.				
Yellowstriped Armyworm ²				
Beet Armyworm ⁴	0.03 lb. a.i.			
Chinch Bug	(3.84 fl. oz.)			
Green Bug ^{3,4}				
Mexican Rice Borer ¹				
Rice Stalk Borer ¹				
Southern Corn Leaf Beetle ³				
Sugarcane Borer				
Use scouting or locally prescribed corn growth	stages to determine need for a	pplication, usually at intervals of 7 or more		
days. Base the timing and frequency of applica				
locally recommended methods.				
Apply by ground or air using sufficient water and application methods to obtain full coverage of target location. When				
applying by air, apply in at least 2 gal. of water/A.				
For chinch bug control, begin application when bugs migrate from small grains or grass weeds to small corn and direct the spray to the base of corn plants. Make additional applications at 3-5 day intervals if needed. LAMBDA-CV EC				
spray to the base of corn plants. Make addition	al applications at 3-5 day infer	Vals II needed I AMIKDA (Y HC		

spray to the base of corn plants. Make additional applications at 3-5 day intervals if needed. LAMBDA-CY EC INSECTICIDE-RUP may only suppress heavy infestations and/or subsequent migrations. For control of adult corn rootworm beetles (*Diabrotica* spp.) as part of an aerial applied corn rootworm control program use at least 3.84 fl. oz./A (0.03 lb. a.i./A).

CEREAL GRAINS – SWEET CORN (FOLIAR)

Pests	Rate Lambda-Cy EC Insecticide-RUP per	Remarks
	Acre	
Aphid spp. ^{2,3}	0.02-0.03 lb. a.i.	See additional instructions below.
Armyworm ¹	(2.56-3.84 fl. oz.)	¹ Use higher rates for large larvae.
Aster Leafhopper		² Suppression only.
Beet Armyworm ^{1,3}		³ See resistance statement under General
Cereal Leaf Beetle		Directions for Use.
Chinch Bug		

Common Cornstalk Borer		Do not apply within 1 day of harvest.
Corn Rootworm Beetle (Adult beetles		
including Mexican, Northern,		Do not allow livestock to graze in
Southern, Western)		treated areas or harvest treated corn
Corn Earworm		forage as feed for meat or dairy animals
Cutworm spp.		within 1 day after last treatment. Do
European Corn Borer		not feed treated corn fodder or silage to
Fall Armyworm ¹		meat or dairy animals within 21 days
Flea Beetle spp.		after last treatment.
Grasshopper spp.		
Japanese Beetle (Adult)		Do not apply more than 0.48 lb. a.i.
Sap Beetle (Adult)		(3.84 pt. or 61.44 fl. oz. of product)/A
Southern Armyworm ¹		per crop from at plant and foliar
Southwestern Corn Borer		applications.
Spider Mite spp. ²		
Stink Bug spp.		
Tarnished Plant Bug		
Yellowstriped Armyworm ¹		
Western Bean Cutworm		
Webworm spp.		
Corn Silkfly (Adult) ²	0.03 lb. a.i.	
Green Bug ^{2,3}	(3.84 fl. oz.)	
Use scouting or locally prescribed corn grow		
days. Base the timing and frequency of appli	ications on when insect population	ons reach local economic thresholds. For best

results target control before insects enter the stalk or ear. Apply ground or air using enough water and application methods to obtain full coverage of foliage and ears (if present). When applying by air, apply in at least 2 gal. of water per acre.

For control of adult corn rootworm beetles (*Diabrotica* spp.) as part of an aerial applied corn rootworm control program use a minimum of 0.025 lb. a.i (3.2 fl. oz.)/A.

CEREAL GRAINS – RICE AND WILD RICE

Pests	Rate Lambda-Cy EC	Remarks
	Insecticide-RUP per Acre	
Bird Cherry-Oat Aphid	0.025-0.04 lb. a.i.	See additional instructions below.
Chinch Bug	(3.20-5.12 fl. oz.)	
Fall Armyworm		¹ For control before the larvae bore into the plant
Grasshopper spp.		stalk.
Green Bug		Do not release flood water within 7 days of an
Leafhopper spp.		application.
Rice Stink Bug		Do not combo more than 0.12 lb ~ 10.00 mt cm
Riceworm		Do not apply more than 0.12 lb. a.i. (0.96 pt. or 15.36 fl. oz, of product)/A per season.
Rice Water Weevil (Adult)		Do not apply more than 0.08 lb. a.i. (0.64 pt.)/A
Sharpshooter spp.		within 28 days of harvest or more than 0.04 lb. a.i.
True Armyworm		(0.32 pt.)/A within 21 days of harvest.
Yellowstriped Armyworm		
Yellow Sugarcane Aphid		Do not apply within 21 days of harvest.
European Corn Borer ¹	0.03 - 0.04	
Mexican Rice Borer ¹	(3.84 – 5.12 fl. oz.)	Do not use treated rice fields for the aquaculture of
Rice Seed Midge ¹		edible fish and crustacea.
Rice Stalk Borer ¹		Do not apply as an ultra-low volume (ULV) spray.
Sugarcane Borer ¹		Do not apply as an unra-low volume (OL V) spray.

Mixers/loaders supporting aerial applications to wild rice at a rate of 0.04 lb. a.i./A, and treating 1200 acres (or more) per day must wear a dust-mist respirator.

Use scouting to determine timing of need for application and the need for repeat applications, usually at 5-7 day intervals. Base the timing and frequency of applications on when insect populations reach local economic thresholds.

LAMBDA-CY EC INSECTICIDE-RUP can be safely used when propanil products are being used for weed control.

Apply by air or ground using enough water to obtain full coverage of foliage. When applying by air, apply in at least 2 gal. of water (or a total carrier volume)/A but ensure that application is made in sufficient volume to provide adequate coverage. When applying at lower volumes by air, the addition of an emulsifiable crop oil (e.g. 1 pt./A) 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 allow more than 10 days to elapse from starting permanent flood until insecticide application unless scouting indicates weevils have not been previously present. Treatment of adults may also be made 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 1/2 inch above the waterline. When there is prolonged migration into the field, begin field scouting for adults and/or feeding scars 3-5 days after the first treatment and, if needed, make a second application within 7-10 days of the first application. Treatment of adults may also be made at later stages of rice development to reduce overwintering populations.

California: In addition to the directions above for control of rice water weevil in water seeded rice, LAMBDA-CY EC INSECTICIDE-RUP may be applied at the 1-3 leaf growth stage, with the majority at the 2 leaf growth stage. Adults are vulnerable both on levees and in the water. Larvae are vulnerable while feeding on the leaves before they enter the soil. Monitor for adults, based upon field history and density of population. Monitor field edges and levee areas for adults, then treat in one of the following ways: 1) spray the inside perimeter of the field, or 2) spray the entire field. Because Green bug is known to have many biotypes, it is possible that LAMBDA-CY EC INSECTICIDE-RUP may only provide suppression. If the first application of LAMBDA-CY EC INSECTICIDE-RUP does not give satisfactory control, a resistant biotype may be present and use of an alternate chemistry may be necessary.

For control of stem borers, scout fields when rice growth is near panicle differentiation for early symptoms of damaging populations. This damage will be 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.

Pests	Rate Lambda-Cy EC Insecticide-RUP per Acre	Remarks
Cutworm spp.	0.015-0.02 lb. a.i.	See additional instructions below.
Sorghum Midge	(1.92-2.56 fl. oz.)	
		¹ Use higher rates for large larvae.
		² For control before the larva bores into the
Armyworm	0.02-0.03 lb. a.i.	plant stalk.
Beet Armyworm ³	(2.56-3.84 fl. oz.)	³ See resistance statement under General Directions
Corn Earworm		for Use.
European Corn Borer ²		
Fall Armyworm ¹		Do not apply more than 0.08 lb. a.i. (0.64 pt. or 10.24 fl.
Flea Beetle spp.		oz. of product)/A per season.
Grasshopper spp.		Denot contained then 0.001 is $(0.49 \text{ st} \text{ so } 7.09 \text{ ft})$
Lesser Cornstalk Borer ²		Do not apply more than 0.06 lb. a.i. (0.48 pt. or 7.68 fl. oz. of product)/A per season after crop emergence.
Southwestern Corn Borer ²		of product)/A per season after crop emergence.
Stink Bug spp.		Do not apply more than 0.02 lb. a.i. (0.16 pt. or 2.56 fl. oz.
Webworm spp.		of product)/A per season once crop is in soft dough stage.
Yellowstriped		
Armyworm ¹		Do not apply within 30 days of harvest.
Chinch Bug	0.03 lb. a.i.	1
Mexican Rice Borer ²	(3.84 fl. oz.)	
Sugarcane Borer ²		
Use scouting to determine need	for treatment, usually at interva	ls of 5 or more days. Base the timing and frequency of

applications on when insect populations reach local economic thresholds.

Apply by ground or air using enough water and application methods to obtain full coverage of target location. When applying by air, apply in at least 2 gal. of water/A.

For sorghum midge control, make first application when one quarter of the sorghum heads have emerged and are in tip bloom. If needed, repeat applications at 5-day intervals.

For chinch bug control, start applications when bugs migrate from small grains or grass weeds to small sorghum, directing spray to the base of sorghum plants. If needed, repeat applications at 3-5 day intervals.

LAMBDA-CY EC INSECTICIDE-RUP may only suppress heavy infestations and/or subsequent migrations.

Pests	Rate Lambda-Cy EC	Remarks
	Insecticide-RUP per Acre	
Army Cutworm	0.015-0.025 lb. a.i.	See additional instructions below.
Cutworm spp.	(1.92-3.20 fl. oz.)	¹ Best control is obtained before insects begin to
		roll leaves. Once crop has started to boot,
		LAMBDA-CY EC INSECTICIDE-RUP may
		provide suppression only. Higher rates and
		increased coverage will be necessary.
		² Supprssion only.
		³ See resistance statement under General
		Directions for Use.
		⁴ Make application when adults emerge.
Armyworm	0.02-0.03 lb. a.i.	
Bird Cherry-Oat Aphid ¹	(2.56-3.84 fl. oz.)	Do not apply within 30 days of harvest.
Cereal Leaf Beetle		
English Grain Aphid ¹		Do not apply more than 0.06 lb. a.i. (0.48 pt. or
Fall Armyworm		7.68 fl. oz. of product)/A per season.
Flea Beetle spp.		
Grasshopper spp.		Do not allow livestock to graze in treated areas
Hessian Fly ⁴		or harvest treated wheat forage as feed for meat
Orange Blossom Wheat		or dairy animals within 7 days after treatment.
Midge		Do not feed treated straw to meat or dairy
Russian Wheat Aphid ¹		animals within 30 days after last treatment.
Stink Bug spp.		
Yellowstriped Armyworm		
Grass Sawfly	0.025-0.03 lb. a.i.	
	(3.20-3.84 fl. oz.)	
Chinch Bug	0.03 lb. a.i.	
Corn Leaf Aphid ²	(3.84 fl. oz.)	
Greenbug ^{1,3}		
Mite spp. ²		
		or more days. Base the timing and frequency of
	ations reach local economic thresho	
		to obtain full coverage of foliage. When applying by
air, apply in at least 2 gal. of wate		
		ded. LAMBDA-CY EC INSECTICIDE-RUP may onl
suppress heavy infestations and/or	r migrations.	

CEREAL GRAINS – WHEAT, WHEAT HAY, TRITICALE, BARLEY, BUCKWHEAT, OATS, AND RYE

Because Greenbug is known to have many biotypes, it is possible that LAMBDA-CY EC INSECTICIDE-RUP may only provide suppression. If this occurs, a second application using an alternative chemistry may be needed.

COLE CROPS – BROCCOLI, BRUSSELS SPROUTS, CABBAGE, CAVALO BROCCOLO, CAULIFLOWER, CHINESE BROCCOLI (GAI LON), CHINESE CABBAGE (NAPA), CHINESE MUSTARD CABBAGE (GAI CHOY), KOHLRABI

Pests	Rate Lambda-Cy EC Insecticide-RUP per	Remarks
	Acre	
Alfalfa Looper	0.015-0.025 lb. a.i.	See additional instructions below.
Cabbage Looper	(1.92-3.20 fl. oz.)	¹ For control of first and second instars only.
Cabbage Webworm		² Suppression only.
Cutworm spp.		³ See resistance statement under General
Imported Cabbageworm		Directions for Use.
Southern Cabbageworm		
Aphid spp. ^{2,3}	0.02-0.03 lb. a.i.	Do not apply within 1 day of harvest.
Armyworm	(2.56-3.84 fl. oz.)	
Beet Armyworm ^{1,3}		Do not apply more than 0.24 lb. a.i. (1.92 pt. or

r	
Corn Earworm	30.72 fl. oz. of product)/A per season.
Diamondback Moth ³	
Fall Armyworm ¹	
Flea Beetle spp.	
Grasshopper spp.	
Japanese Beetle (Adult)	
Leafhopper spp.	
Meadow Spittlebug	
Plant Bug spp. – including	
Lygus spp. ³	
Spider Mite spp. ²	
Stink Bug spp.	
Thrips spp. ²	
Vegetable Weevil (Adult)	
Whitefly spp. ^{2,3}	
Yellowstriped Armyworm	
Use scouting to determine need for a	pplication, usually at intervals of 5 or more days. Base the timing and frequency of
applications on when insect population	
	water to obtain full coverage of foliage. When applying by air, apply in at least 2 gals.
of water/A.	

COTTON

Pests	Rate Lambda-Cy EC Insecticide-RUP per Acre	Remarks
Cutworm spp.	0.015-0.02 lb. a.i.	See additional instructions below.
Soybean Thrips Tobacco Thrips	(1.92-2.56 fl. oz.)	¹ For control of first and second instars only. ² Suppression only.
Cabbage Looper Cotton Fleahopper Cotton Leafperforator	0.02-0.03 lb. a.i. (2.56-3.84 fl. oz.)	³ See resistance statement under General Directions for Use. Do not apply within 21 days of harvest.
Cotton Leafworm Lygus Bug spp. ³ Pink Bollworm Saltmarsh Caterpillar		Do not graze livestock in treated areas. Do not apply more than 0.2 lb. a.i (1.6 pt. or 25.6
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 Sweetpotato Whitefly ^{2,3} Tobacco Budworm ³ Twospotted Spider Mite ²	0.025-0.04 lb. a.i. (3.20-5.12 fl. oz.)	fl. oz. of product)/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.

Use scouting to determine need for application, usually at intervals of 5-7 days. Base the timing and frequency of applications on when insect populations reach local economic thresholds.

Apply ground or air using enough water to obtain full coverage of foliage.

Applications may also be made with equipment adapted and calibrated for ULV sprays. LAMBDA-CY EC INSECTICIDE-

RUP may be mixed with once-refined vegetable oil and applied in a minimum of at least one qt. of finished spray/A. When bollworm/budworm infestation levels are light, 0.02 lb. a.i. (2.56 fl. oz. of product)/A may be applied in conjunction with

intense field monitoring.

For boll weevil, spray on a 3-5 day schedule.

When applied according to the directions above for control of cotton bollworm and tobacco budworm, LAMBDA-CY EC INSECTICIDE-RUP also provides ovicidal control of unhatched *Heliothis* species eggs.

CUCURBIT VEGETABLES – CHAYOTE (fruit), CHINESE WAXGOURD, CITRON MELON, CUCUMBER, GHERKIN, GOURD (edible), MOMORDICA spp., MUSKMELON, PUMPKIN, SQUASH (summer and winter), WATERMELON

Pests	Rate Lambda-Cy EC Insecticide-RUP per	Remarks
A 1	Acre	
Armyworm spp. ¹	0.02-0.03 lb. a.i.	See additional instructions below.
Blister Beetle spp.	(2.56-3.84 fl. oz.)	¹ See resistance statement under General
Cabbage Looper		Directions for Use.
Corn Earworm		² Western Flower Thrips are not included.
Cricket spp.		³ Suppression only.
Cucumber Beetle species (adults)		
Cutworm spp.		Do not apply within 1 day of harvest.
Flea Beetle spp.		
Grasshopper spp.		Do not apply more than 0.18 lb. a.i (1.44 pt. or 23 fl.
June Beetle spp.		oz.)/A per season.
Leaffooted Bug		
Leafhopper spp.		
Lygus Bug spp. ¹		
Melonworm		
Pickleworm		
Plant Bug spp.		
Rindworm species complex		
Saltmarsh Caterpillar		
Squash Beetle		
Squash Bug spp.		
Squash Vine Borer spp.		
Stink Bug spp.		
Thrips spp. ^{1, 2}		
Tobacco Budworm ¹		
Webworm spp.		
Aphid spp. ¹	0.03 lb. a.i.	-
Leafminer spp. ^{1,3}	(3.84 fl. oz.)	
Spider Mite spp. ³	(3.0 + 11. 02.)	
Whitefly spp. ^{1, 3}		
v 11		
		f 5 or more days. Base the timing and frequency of
applications on when insect populat		olds.

applications on when insect populations reach local economic thresholds. Apply by ground or air using enough water to obtain full coverage of foliage. When applying by air, apply in at least 2 gals.

of solution per acre. When applying by ground, apply in a minimum of 10 gals. of solution per acre.

Use higher application volumes and/or application rates when foliage is dense, larvae are large, pest populations are high, size of plants increases, or weather conditions are adverse. Use higher rates for longer residual.

Insects that tunnel or bore into leaves, stems, vines, or fruit must be controlled before penetration. Only insects (larvae and adults) exposed to the product can be controlled with foliar applications of Lambda-Cy EC Insecticide - RUP.

Pests	Rate Lambda-Cy EC Insecticide-RUP per	Remarks
Cabbaga Lagran	Acre 0.015-0.025 lb. a.i.	See additional instructions below.
Cabbage Looper		
Cutworm spp.	(1.92-3.20 fl. oz.)	¹ For control of first and second instars only.
Hornworm spp.	0.02.0.02.11	² Suppression only.
Aphid spp. ^{2,3}	0.02-0.03 lb. a.i.	³ See resistance statement under General
Beet Armyworm ^{1,3}	(2.56-3.84 fl. oz.)	Directions for Use.
Blister Beetle spp.		⁴ For control before the larva bores into the
Colorado Potato Beetle ³		plant stalk or fruit.
Cucumber Beetle spp. (Adult)		⁵ Does not include Western Flower thrips.
European Corn Borer ⁴		
Fall Armyworm ¹		Do not apply within 5 days of harvest.
Flea Beetle spp.		
Grasshopper spp.		Do not apply more than 0.36 lb. a.i. (2.88 pt
Japanese Beetle (Adult)		or 46.08 fl. oz. of product)/A per season.
Leafhopper spp.		
Leafminer spp. ²		
Meadow Spittlebug		
Pepper Weevil (Adult) ²		
Plant Bug spp.		
Southern Armyworm ¹		
Spider Mite spp. ²		
Stalk Borer ⁴		
Stink Bug spp.		
Thrips ⁵		
Tobacco Budworm ³		
Tomato Fruitworm		
Tomato Pinworm		
Tomato Psyllid ^{2,3}		
Vegetable Weevil (Adult)		
Whitefly spp. ^{2,3}		
Yellowstriped Armyworm ¹		
		more days. Base the timing and frequency of
applications on the timing when insect p		
Apply by ground or air using enough wa	ter to obtain till coverage of foliad	be When applying by air apply in at least 2 gal o

FRUITING VEGETABLES – TOMATO, TOMATILLO, PEPPERS (BELL AND NONBELL), EGGPLANT, GROUND CHERRY, PEPINO

applications on the timing when insect populations reach local economic thresholds. Apply by ground or air using enough water to obtain full coverage of foliage. When applying by air, apply in at least 2 gal. of water/A.

GRASS FORAGE, FODDER, AND HAY – PASTURE AND RANGELAND GRASS, GRASS GROWN FOR HAY OR SILAGE, AND GRASS GROWN FOR SEED

Pests	Rate Lambda-Cy EC Insecticide-RUP per Acre	Remarks
Army Cutworm Cutworm spp. Essex Skipper Range Caterpillar Striped Grass Looper	0.015-0.025 lb. a.i. (1.92-3.2 fl. oz.)	See additional instructions below. ¹ Best control is obtained before insects begin to roll leaves. ² See resistance statement under General Directions for Use. ³ Suppression only. ⁴ Greenbug is known to have many biotypes. Lambda-Cy EC Insecticide - RUP may provide suppression only. A second application using alternative chemistry may be needed.

Beet Armyworm 0.02 - 0.03 lb. a.i. Billog spp. ³ (2.56 - 3.84 fl. oz.) Bird Cherry-Oat Aphid. ¹ (2.56 - 3.84 fl. oz.) Black Grass Bug Do not apply more than 0.09 lb. a.i. (0.72 pt. or 11.52 fl. oz. of product) per acre per season. Black Turfgrass Beetle (adult) Buse Stem Midge Cereal Leaf Beetle Crane Fly spp. Cricket spp. English Grain Aphid ¹ Fall Armyworm Flea Beetle spp. Grass Mealybug Grass Mealybug Grass Sawfly (adult) Grass Mealybug Green June Beetle (adult) Mite spp. Green June Beetle (adult) Mite spp. Green June Beetle (adult) Grass Mealybug Grass Mealybug Grass Mealybug Grass Mealybug Grass Mealybug Grass Mealybug Grass Mealybug Green June Beetle (adult) Mite spp. Southern Armyworm Spittlebug spp. Sugarcane Aphid ¹ Sugarcane Aphid ¹ Thrips spp. Tick spp. Tick spp. True Armyworm Webworm spp. Vellowstriped Armyworm Webworm spp. Vellowstriped Armyworm			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. Grass grown for seed: Straw 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 (0.24 pt. or 3.84 fl. oz.)/A per cutting for pastures, rangeland, and grasses grown for seed. A minimum re-treatment interval (RTI) of 30 days is required for pastures and
Bird Cherry-Oat Aphid.111.52 fl. oz. of product) per acre per season.Black Grass Bug11.52 fl. oz. of product) per acre per season.Black Turfgrass Beetle (adult)11.52 fl. oz. of product) per acre per season.Blue Stem Midge11.52 fl. oz. of product) per acre per season.Creael Leaf Beetle11.52 fl. oz. of product) per acre per season.Cricket sp.11.52 fl. oz. of product) per acre per season.Crane Fly spp.11.52 fl. oz. of product) per acre per season.Cricket sp.11.52 fl. oz. of product) per acre per season.Crane Fly spp.11.52 fl. oz. of product) per acre per season.Crane Fly spp.11.52 fl. oz. of product) per acre per season.Crane Fly spp.11.52 fl. oz. of product) per acre per season.Crane Fly spp.11.52 fl. oz. of product) per acre per season.Crane Fly spp.11.52 fl. oz. of product) per acre per season.Crane Fly spp.11.52 fl. oz. of product) per acre per season.Crane Fly spp.11.52 fl. oz. of product) per acre per season.Crane Fly spp.11.52 fl. oz. of product per season.Crane Fly spp.11.52 fl. oz. of product per season.Grass Bay fly (adult)11.52 fl. oz. of product per season.Grass Bay fly (adult)11.52 fl. oz. of product per season.Grass Bay fly (adult)11.52 fl. oz. of product per season.Grass Bay fly (adult)11.52 fl. oz. of product per season.Grass Bay fly (adult)11.52 fl. oz. of product per season.Grass Bay fly (adult)11.52 fl. oz. of per season.Southern Armyworm11.52 fl. oz. of per sea			Do not apply more than 0.09 lb. a.i. (0.72 pt. or
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Tick spp. True Armyworm Webworm spp. Yellowstriped Armyworm			
True Armyworm Webworm spp. Yellowstriped Armyworm			
Webworm spp. Yellowstriped Armyworm	True Armyworm		
	Webworm spp.		

Use scouting to determine application requirements. Base the timing and frequency of applications on when insect populations reach local economic thresholds.

Apply by ground or air using enough water to obtain full coverage of foliage. When applying by air, apply in at least 2 gals. of water per acre. When applying by ground, apply in a minimum of 7 gals. of water per acre.

Use higher application volumes and/or application rates when foliage is dense, larvae are large, pest populations are high, or weather conditions are adverse. Use higher rates for longer residual. For chinch bug control, Lambda-Cy EC Insecticide - RUP may only suppress heavy infestations and/or migrations. In these

situations, a second application using alternative chemistry may be needed.

LEGUME VEGETABLES (BEANS AND PEAS):

EDIBLE PODDED (ONLY): *Canavalia gladiata* – sword bean; *Canavalia ensiformis* – jackbean; *Glycine max* – soybean (immature seed).

EDIBLE PODDED, SUCCULENT SHELLED OR DRIED SHELLED: *Phaseolus* spp. – includes field, kidney, lima, navy, pinto, runner, snap, tepary, and wax beans; *Vigna* spp. – includes adzuki, asparagus, moth, mung, rice, urd and yardlong beans, blackeyed pea, catjang, Chinese longbean, cowpea, Crowder pea, and Southern pea; *Pisum* spp. – includes dwarf, edible-pod, English, field, garden, green, snow, and sugar peas; *Cajanus cajan* – Pigeon pea.

SUCCULENT SHELLED OR DRIED SHELLED: Vica faba – broadbean (fava bean).

DRIED SHELLED (ONLY): *Lupinus* spp. – includes grain, sweet, white and sweet white lupines; *Cicer arietimum* – chickpea (garbanzo bean), *Cyamopsis tetraganoloba* – guar, *Lablab pupureus* – Lablab bean (hyacinth bean), *Lens esculata* – lentils.

Pests	Rate Lambda-Cy EC	Remarks
	Insecticide-RUP per	
	Acre	
Cutworm spp.	0.015-0.025 lb. a.i.	See additional instructions below.
Green Cloverworm	(1.92-3.20 fl. oz.)	¹ For control before the larva bores into the
Imported Cabbageworm		plant stalk or pods.
Mexican Bean Beetle		² Use higher rates for large larvae.
Saltmarsh Caterpillar		³ For suppression only.
Velvetleaf Caterpillar		⁴ See resistance statement under General
Alfalfa Caterpillar	0.02-0.03 lb. a.i.	Directions for Use.
Aphid spp. ⁴	(2.56-3.84 fl. oz.)	⁵ Does not include Western Flower Thrips
Armyworm ²		_
Bean Leaf Beetle		For edible podded and succulent shelled legume
Bean Leafskeletonizer		vegetables, do not apply within 7 days of
Blister Beetle spp.		harvest.
Corn Earworm		For dried shelled legume vegetables, do not
Corn Rootworm Beetle spp. (Adult)		apply within 21 days of harvest.
Cucumber Beetle spp. (Adult)		uppry within 21 days of harvest.
Curculio and Weevil spp. ¹		Do not apply more than 0.12 lb. a.i. (0.96 pt. or
(foliage and pod feeding adults and		15.36 fl. oz. of product)/A per season.
larvae)		
European Corn Borer		For succulent and dried shelled peas and beans,
Fall Armyworm ²		do not graze livestock in treated areas or harvest
Flea Beetle spp. (Adult)		vines for forage or hay.
Flea Hopper spp.		
Grasshopper spp.		
Japanese Beetle (Adult)		
Leafhopper spp.		
Leaftier spp.		
Looper spp.		
Meadow Spittlebug		
Painted Lady Butterfly (Larva)		
Plant Bug spp. including Lygus spp. ⁴		
Stalk Borer ¹		
Stink Bug spp.		
Threecornered Alfalfa Hopper		
Thrips spp. ^{4,5}		
Tobacco Budworm ⁴		
Webworm spp.		
Western Bean Cutworm		
Western Yellowstriped Armyworm ²		
Yellowstriped Armyworm ²	0.02.11 :	
Beet Armyworm ^{3,4}	0.03 lb. a.i.	
Leafminer spp. ^{3,4}	(3.84 fl. oz.)	
Lesser Cornstalk Borer ³		

Soybean Looper ^{3,4} Spider Mite spp. ³ Whitefly spp. ^{3,4}		
Use scouting to determine need for application, applications on when insect populations reach 1 Apply by ground or air using enough water to c water/A.	ocal economic thresholds.	re days. Base the timing and frequency of When applying by air, apply in at least 2 gal. of

LEGUME VEGETABLES: SOYBEANS

Pests	Rate Lambda-Cy EC Insecticide-RUP per Acre	Remarks
Bean Leaf Beetle	0.015-0.025 lb. a.i.	See additional instructions below.
Cabbage Looper	(1.92-3.20 fl. oz.)	¹ Use higher rates for large larvae.
Corn Earworm	· · · · · · · · · · · · · · · · · · ·	² Suppression only.
Corn Rootworm Beetle (Adult beetles		³ See resistance statement under
including Mexican, Northern,		General Directions for Use.
Southern, Western)		⁴ Use lower rates for early season
Cutworm spp.		applications and/or lighter
Green Cloverworm		populations.
Mexican Bean Beetle		⁵ Does not include Western Flower
Painted Lady (Thistle) Caterpillar		Thrips.
Potato Leafhopper		_
Saltmarsh Caterpillar		Do not apply within 30 days of
Soybean Aphid ⁴		harvest.
Threecornered Alfalfa Hopper		
Thrips spp. ⁵		Do not apply more than 0.06 lb. a.i.
Velvetbean Caterpillar		(0.48 pt.)/A per season.
Woolybear Caterpillar		
Armyworm ¹	0.025-0.03 lb. a.i.	-
Blister Beetle spp.	(3.20-3.84 fl. oz.)	
European Corn Borer		
Fall Armyworm ¹		
Grasshopper spp.		
Japanese Beetle (Adult)		
Plant Bug spp.		
Silverspotted Skipper		
Stink Bug spp.		
Tobacco Budworm ³		
Webworm spp.		
Yellowstriped Armyworm ¹		4
Beet Armyworm ^{2,3}	0.03 lb. a.i.	
Lesser Cornstalk Borer ²	(3.84 fl. oz.)	
Soybean Looper ^{2,3}		
Spider Mite spp. ² Use scouting to determine need for application, us		

Use scouting to determine need for application, usually at intervals of 5 or more days. Base the timing and frequency of applications on when insect populations reach local economic thresholds.

Do not graze or harvest treated soybean forage, straw or hay for livestock feed.

Apply by ground or air using enough water to obtain full coverage of foliage. When applying by air, apply in at least 2 gal. of water/A.

For control of adult corn rootworm beetles (*Diabrotica* spp.) as part of an aerial applied to corn rootworm control program use at least 2.56 fl. oz./A of product (0.02 lb. a.i./A).

LETTUCE (HEAD AND LEAF)

Pests	Rate Lambda-Cy EC	Remarks
	Insecticide-RUP per	
	Acre	
Alfalfa	0.015-0.025 lb. a.i.	See additional instructions below.
Cabbage Looper	(1.92-3.20 fl. oz.)	¹ For control of first and second instars only.
Cutworm spp.		² Suppression only.
Green Cloverworm		³ See resistance statement under General
Imported Cabbageworm		Directions for Use.
Saltmarsh Caterpillar		
Aphid spp. ^{2,3}	0.02-0.03 lb. a.i.	Do not apply within 1 day of harvest.
Armyworm	(2.56-3.84 fl. oz.)	
Beet Armyworm ^{1,3}		Do not apply more than 0.3 lb. a.i. (2.4 pt. or
Corn Earworm		38.4 fl. oz. of product)/A per season.
Diamondback Moth ³		
European Corn Borer		
Fall Armyworm ¹		
Flea Beetle spp.		
Grasshopper spp.		
Japanese Beetle (Adult)		
Leafhopper spp.		
Meadow Spittlebug		
Plant Bug spp. including Lygus spp. ³		
Southern Armyworm		
Spider Mite spp. ²		
Stink Bug spp.		
Tobacco Budworm ³		
Vegetable Weevil (Adult)		
Whitefly spp. ^{2,3}		
Use scouting to determine need for application		e days. Base the timing and frequency of
applications on when insect populations reach		
Apply by ground or air using enough water to	obtain full coverage of foliage.	When applying by air, apply in at least 2 gal. of

water/A.

ONION (BULB) AND GARLIC

Pests	Rate Lambda-Cy EC	Remarks
	Insecticide-RUP per Acre	
Cutworm spp.	0.015-0.025 lb. a.i.	See additional instructions below.
Leafminer spp. (Adult)	(1.92-3.20 fl. oz.)	¹ For control of first and second instars only.
Onion Maggot (Adult)		² Suppression only.
Seedcorn Maggot (Adult)		³ See resistance statement under General
Aphid spp. ²	0.02-0.03 lb. a.i.	Directions for Use.
Armyworm spp. ¹	(2.56-3.84 fl. oz.)	
Flower Thrips ^{2,3}		Do not apply within 14 days of harvest.
Onion Thrips ³		
Plant Bug spp.		Do not apply more than 0.24 lb. a.i. (1.92 pt. or
Stink Bug spp.		30.72 fl. oz. of product)/A per season.
Tobacco Thrips ³		
Western Flower Thrips ^{2,3}		
Use scouting to determine need for application, usually at intervals of 5 or more days. Base the timing and frequency of		

applications on when insect populations reach local economic thresholds.

Use the higher label rates as thrips population increases and avoid rescue situations.

Apply by ground or air using enough water and application methods to obtain full coverage of foliage. When applying by air, apply in at least 2 gal. of water/A.

To control thrips by aerial application, the addition of 1% COC v/v, $\frac{1}{4\%}$ NIS v/v or a silicone adjuvant (follow manufacturer's use directions) may improve the deposition of the spray and increase plant coverage.

PEANUT

Pests	Rate Lambda-Cy EC	Remarks
	Insecticide-RUP per Acre	
Cutworm spp.	0.015-0.025 lb. a.i.	See additional instructions below.
Green Cloverworm	(1.92-3.20 fl. oz.)	¹ Use higher rates for large larvae.
Potato Leafhopper		² Suppression only.
Rednecked Peanut Worm		³ See resistance statement under General
Threecornered Alfalfa Leafhopper		Directions for Use.
Velvetbean Caterpillar		
Bean Leaf Beetle	0.02-0.03 lb. a.i.	
Corn Earworm	(2.56-3.84 fl. oz.)	Do not apply within 14 days of harvest.
Fall Armyworm ¹		
Grasshopper spp.		Do not apply more than 0.12 lb. a.i. (0.96 pt.
Southern Corn Rootworm (Adult)		or 15.36 fl. oz. of product)/A per season.
Stink Bug spp.		
Tobacco Thrips		
Vegetable Weevil		
Whitefringed Beetle (Adult)		
Aphid spp. ²	0.03 lb. a.i.	
Beet Armyworm ^{2,3}	(3.84 fl. oz.)	
Lesser Cornstalk Borer ²		
Soybean Looper ^{2,3}		
Spider Mite spp. ²		
Use scouting to determine need for application, usually at intervals of 7 or more days. Base the timing and frequency of applications		
on when insect populations reach local economic thresholds.		

on when insect populations reach local economic thresholds. Apply by ground or air using enough water to obtain full coverage of foliage. When applying by air, apply in at least 2 gal. of water/A.

POME FRUITS – APPLE, CRABAPPLE, LOQUAT, MAYHAW, ORIENTAL PEAR, PEAR, QUINCE

Pests	Rate Lambda-Cy EC	Remarks
	Insecticide-RUP per	
	Acre	
Apple Aphid	0.02-0.04 lb. a.i.	See additional instructions below.
Apple Maggot (Adult)	(2.56-5.12 fl. oz.)	¹ Suppression only.
Cherry Fruit Fly spp. (Adult)		
Coding Moth		Do not apply within 21 days of harvest.
Green Fruitworm		
Japanese Beetle		Do not apply more than 0.2 lb. a.i. (1.6 pt. or
Leafhopper spp.		25.6 fl. oz. of product)/A per year.
Leafroller spp.		
Lesser Appleworm		Do not apply more than 0.16 lb. a.i. (1.28 pt.
Omnivorous Leafroller		or 20.48 fl. oz. of product)/A per year post
Orange Tortrix		bloom.
Oriental Fruit Moth		
Pear Psylla ¹		
Pear Sawfly		
Periodical Cicada		
Plant Bug spp.		
Plum Curculio		
Rosy Apple Aphid		
San Jose Scale (fruit infestations only)		
Spirea Aphid ¹		
Stink Bug spp.		
Tent Caterpillar spp.		
Tentiform Leaf Miner spp.		
Tree Borer spp.		

Tufted Apple Budworm		
Webworm spp.		
Use scouting to determine need for application,	usually at intervals of 5 or more	days. Base the timing and frequency of applications

on when insect populations reach local economic thresholds and IPM recommendations.

Apply by ground or air using enough water to obtain full coverage of the foliage or target area. When applying by air, apply in at least 5 gal. of water per acre, but use higher volumes as appropriate for thorough coverage.

STONE FRUITS – APRICOT, SWEET CHERRY, TART CHERRY, NECTARINE, PEACH, PLUM, CHICKASAW PLUM, DAMSON PLUM, JAPANESE PLUM, PLUMCOT, PRUNE

Pests	Rate Lambda-Cy EC	Remarks
	Insecticide-RUP per Acre	
American Plum Borer	0.02-0.04 lb. a.i.	See additional instructions below.
Apple Maggot (Adult)	(2.56-5.12 fl. oz.)	
Black Cherry Aphid		Do not apply within 14 days of harvest.
Cherry Fruit Fly spp. (Adult)		
Codling Moth		Do not apply more than 0.2 lb. a.i. (1.6 pt.
Green Fruitworm		or 25.6 fl. oz. of product)/A per year. Do
Japanese Beetle		not apply more than 0.16 lb. a.i. (1.28 pt. or
June Beetle		20.48 fl. oz. of product)/A per year post
Leafhopper spp.		bloom.
Leafroller spp.		
Oriental Fruit Moth		
Peachtree Borer spp.		
Peach Twig Borer		
Pear Sawfly		
Periodical Cicada		
Plant Bug spp.		
Plum Curculio		
Rose Chafer		
Stink Bug spp.		
Tent Caterpillar spp.		
Thrips spp.		
Use scouting to determine need for application, usually at intervals of 5 or more days. Base the timing and frequency of applications		
on when insect populations reach local econom		
Apply by ground or air using enough water to obtain full coverage of the foliage or target area. When applying by air, apply at least		

Apply by ground or air using enough water to obtain full coverage of the foliage or target area. When applying by air, apply at least 5 gal. of water per acre, but use higher volumes as appropriate for thorough coverage.

SUGARCANE

Pests Rate Lambda-Cy EC Insecticide-RUP per Acre	Remarks
Mexican Rice Borer10.025-0.04 lb. a.i.Pygmy Mole Cricket(3.20-5.12 fl. oz.)Rice Stalk Borer1Sugarcane Aphid3Sugarcane Beetle (Adult)2Sugarcane Borer1West Indian CraneflyYellow Sugarcane Aphid3	See additional instructions below. ¹ For control before the larva bores into the plant stalk. ² Suppression only of beetles active above ground. ³ See resistance statement under General Directions for Use. Do not apply within 21 days of harvest. Do not apply more than 0.16 lb. a.i. (1.28 pt. or 20.48 fl. oz. of product)/A per season.

Apply by ground or air using enough water to obtain full coverage of the foliage or target area. When applying by air, apply at least 2 gal. of water/A.

SUNFLOWER

Target Pests	Rate Lambda-Cy EC	Remarks
	Insecticide-RUP per	
	Acre	
Cutworm spp.	0.015-0.025 lb. a.i.	See additional instructions below.
Sunflower Beetle	(1.92-3.20 fl. oz.)	¹ Use higher rates for large larvae.
		² Suppression only.
		³ See resistance statement under General
Banded Sunflower Moth	0.02-0.03 lb. a.i.	Directions for Use.
Fall Armyworm ¹	(2.56-3.84 fl. oz.)	
Grasshopper spp.		Do not apply within 45 days of harvest.
Head-Clipper Weevil (Adult)		
Japanese Beetle (Adult)		Do not apply more than 0.12 lb. a.i. (0.96 pt. or
Leafhopper spp.		15.36 fl. oz. of product)/A per season. Do not
Meadow Spittlebug		apply more than 0.09 lb. a.i. (0.72 pt. or 11.52 fl.
Painted Lady (Thistle) Caterpillar		oz. of product)/A per season after bloom
Seed Weevil (Adult)		initiation.
Spotted Cabbage Looper		
Stem Weevil (Adult)		Do not apply as an Ultra Low Volume (ULV)
Stink Bug spp.		spray.
Sunflower Maggot (Adult)		
Sunflower Moth		
Woolybear Caterpillar		
Beet Armyworm ^{2,3}	0.03 lb. a.i.	
Spider Mite spp. ²	(3.84 fl. oz.)	
		nore days. Base the timing and frequency of applications
on when insect populations reach local economic thresholds.		
Apply by ground or air using enough water to obtain full coverage of sunflower heads and/or foliage. When applying by air, apply		

Apply by ground or air using enough water to obtain full coverage of sunflower heads and/or foliage. When applying by air, apply in at least 2 gal. of water/A.

TOBACCO

Pests	Rate Lambda-Cy EC	Remarks
	Insecticide-RUP per	
	Acre	
Armyworm spp. ¹	0.015-0.03 lb. a.i.	See additional instructions below.
Blister Beetle spp.	(1.92-3.84 fl. oz.)	¹ For control of first and second instars only.
Cabbage Looper		² Suppression only.
Corn Earworm		³ See resistance statement under General
Cucumber Beetle spp. (Adult)		Directions for Use.
Cutworm spp.		
Grasshopper spp.		Do not apply within 40 days of harvest.
Japanese Beetle (Adult)		
Katydid spp.		Do not apply more than 0.09 lb. a.i. (0.72 pt. or
Plant Bug spp. ³		11.52 fl. oz. of product)/A per year.
Potato Tuberworm		
Saltmarsh Caterpillar		
Stinkbug spp.		
Tobacco Aphid spp. ^{2,3}		
Tobacco Budworm ³		
Tobacco Flea Beetle (Adult)		
Tobacco Hornworm		
Tobacco Thrips spp. ²		
Tomato Hornworm		
Tree Cricket spp.		
Vegetable Weevil (Adult)		
Webworm spp.		
Use scouting to determine need for application	on, usually at intervals of 7 or mo	ore days. Base the timing and frequency of

applications on when insect populations reach local economic thresholds.

Apply by ground or air using enough water to obtain full coverage of the foliage. When applying by air, apply in at least 2 gal. of water/A.

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), PECAN

Pests	Rate Lambda-Cy EC Insecticide-RUP per Acre	Remarks
Ants	0.02-0.04 lb. a.i.	See additional instructions below.
Chinch Bug	(2.56-5.12 fl. oz.)	
Coddling Moth		Do not apply within 14 days of harvest.
Filbertworm		
Leaffooted Bug		Do not apply more than 0.16 lb. a.i. (1.28 pt.
Leafroller spp.		or 20.48 fl. oz. of product)/A per year.
Navel Orangeworm		
Peach Twig Borer		Do not apply more than 0.12 lb. a.i. (0.96 pt.
Plant Bug spp.		or 15.36 fl. oz. of product)/A per year post
Stink Bug spp.		bloom.
Walnut Aphid		
Walnut Husk Fly spp. (Adult)		
Hickory Shuckworm		
Pecan Aphid spp.		
Pecan Casebearer spp.		
Pecan Phylloxera spp.		
Pecan Spittlebug		
Pecan Weevil		
Stink Bug spp.		
Use scouting to determine need for applicat on when insect populations reach local ecor		e days. Base the timing and frequency of application

Apply by ground or air using enough water to obtain full coverage of the foliage or target area. When applying by air, apply in at least 5 gal. of water per acre, but use higher rates as appropriate for thorough coverage.

TUBEROUS AND CORM VEGETABLES – ARRACACHA, ARROWROOT, ARTICHOKE (Chinese and Jerusalem only), CANNA (edible), CASSAVA (bitter and sweet), CHAYOTE (root), CHUFA, DASHEEN, GINGER, LEREN, POTATO, SWEET POTATO, TANIER, TURMERIC, YAM (bean and true)

Pests	Rate Lambda-Cy EC Insecticide-RUP per Acre	Remarks
Cutworm spp.	0.015-0.025 lb. a.i.	See additional instructions below.
Leafhopper spp.	(1.92-3.2 fl. oz.)	¹ See resistance statement under General
Saltmarsh Caterpillar		Directions for Use.
Sweet Potato Hornworm		² Does not include Western Flower Thrips.
Woolybear Caterpillar spp.		³ Suppression only.
Aphid spp. ¹	0.02-0.03 lb. a.i.	Do not apply within 7 days of harvest.
Armyworm spp. ¹	(2.56-3.84 fl. oz.)	
Blister Beetle spp.		Do not apply more than 0.12 lb. a.i. (0.96 pt. or
Colorado Potato Beetle ¹		15.36 fl. oz. of product) per acre per season.
Corn Earworm		

	1	
Cricket spp.		
Cucumber Beetle spp. (adults)		
European Corn Borer		
Flea Beetle spp. (adults)		
Grasshopper spp.		
Looper spp. ¹		
Lygus Bug spp. ¹		
Plant Bug spp.		
Potato Psyllid		
Potato Tuberworm		
Stink Bug spp.		
Sweet Potato Leaf Beetle		
(adults)		
Sweet Potato Vine Borer		
Thrips spp. ^{1, 2}		
Tortoise Beetle spp.		
Webworm spp.		
Weevil spp. (adults)		
Leafminer spp. ^{1, 3}	0.03 lb. a.i.	
Whitefly spp. ^{1, 3}	(3.84 fl. oz.)	
Spider Mite spp. ³		
		7 or more days. Base the timing and frequency of
applications on when insect populati		
Apply by ground or air using enough	water to obtain full coverage of	foliage. When applying by air, apply in at least 2 gals.

of water per acre. When applying by ground, apply in a minimum of 10 gals. of water per acre.

Use higher application volumes and/or application rates when foliage is dense, larvae are large, pest populations are high, plant size increases, or weather conditions are adverse. Use higher rates for longer residual.

Insects that tunnel or bore 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 Lambda-Cy EC Insecticide - RUP.

Pests	Rate Lambda-Cy EC	Remarks
	Insecticide-RUP per Acre	
Bagworm	0.02-0.04 lb. a.i.	See additional instructions below.
Balsam Twig Aphid	(2.56-5.12 fl. oz.)	¹ Suppression only.
Balsam Wooly Aphid		
Birch Leafminer		Do not apply more than 0.24 lb. a.i. (1.92 pt.
Black Pine Weevil		or 30.72 fl. oz. of product)/A per year.
Elm Leaf Beetle		
European Elm Leaf Beetle		
Gypsy Moth		
Japanese Beetle		
June Beetle spp.		
Leaf Beetle spp.		
Leafroller spp.		
May Beetle spp.		
Mealybug spp. ¹		
Pales Weevil		
Pine Chafer		
Pine Colaspis Beetle		
Pine Conelet Bug		
Pine Leaf Chermid		
Pine Needle Scale		
Pine Sawfly spp.		
Pine Tip Moth spp.		
Pine Tortoise Scale		
Pine Weevil spp.		

CONIFER AND DECIDUOUS TREES – PLANTATIONS AND NURSERIES

Poplar Aphid spp.		
Sawfly spp.		
Spittlebug spp.		
Spruce Budworm		
Tent Caterpillar spp.		
Tussock Moth spp.		
Webworm spp.		
Use scouting to determine timing for control	of exposed foliage, flower, cone, so	eed, and bark feeding insects. Base the timing and
frequency of applications on when insect pop	pulations reach local economic three	sholds.
Apply by ground or air using enough water to	o obtain full coverage of target site.	When applying by air, apply in at least 2 gal. of
water/A.		

CONIFER AND DECIDUOUS TREES – SEED ORCHARDS

Pests	Rate Lambda-Cy EC Insecticide- RUP per Acre	Remarks
Coneworm spp. Seed Bug spp. Thrips spp.	See Remarks	For high volume sprayers, dilute 5.12 fl. oz. of product per 100 gal. of water and apply 5-10 gal. of finished spray per tree. For low volume sprayers, dilute 20 fl. oz. of product per 100 gal. of water and apply 100 gal. of finished spray per acre. For aerial applications, apply 15 fl. oz. of product per acre in a minimum of 10 gal. of finished spray per acre. Do not apply more than 0.5 lb. a.i. (4 pt. or 64 fl. oz. of product)/A per year.

NON-CROPLAND (EXCLUDING PUBLIC LAND)

Pests	Instructions
See crop instructions in sections above for specific pest and rate information	Spray non-cropland adjacent to agricultural areas to control insects which may migrate to and threaten crops. Follow the General Directions for Use instructions, application rates, and spray recommendations found elsewhere on this label for the adjacent crop outlet and target pests. When foliage is dense/large, insect populations are high or larval stages are large, use the highest labeled rate for that crop-pest combination. Repeat as necessary to maintain control. Do not apply more than 0.2 lb. a.i. (1.6 pt. or 25.6 fl. oz. of product)/A per year.
	Do not graze livestock in treated areas.

Rate Conversion Chart

Treated Acres/Gal	66	50	40	33	25
pt./A	0.12	0.16	0.20	0.24	0.32
fl. oz./A	1.92	2.56	3.20	3.84	5.12
lb. a.i./A	0.015	0.02	0.025	0.03	0.04

TURF AND ORNAMENTALS

LAMBDA-CY EC INSECTICIDE-RUP may be used for applications to ornamentals grown in commercial greenhouses, shade houses, and nurseries, and turf grown on sod farms or for commercial seed production.

LAMBDA-CY EC INSECTICIDE-RUP may be used for applications to maintain indoor or outdoor areas where turf and ornamentals are grown, such as residential landscape areas and non-residential landscapes around institutional, public, commercial, and industrial buildings, parks, recreational areas, golf courses, and athletic fields. LAMBDA-CY EC INSECTICIDE-RUP may also be used for applications 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

LAMBDA-CY EC INSECTICIDE-RUP 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

LAMBDA-CY EC INSECTICIDE-RUP 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 LAMBDA-CY EC INSECTICIDE-RUP 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 LAMBDA-CY EC INSECTICIDE-RUP 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.

Desired Rate of LAMBDA-CY EC INSECTICIDE- RUP per 100 gal.	25 gallons spray tank	50 gallons spray tank	100 gallon spray tank	200 gallon. spray tank	300 gallon spray tank
1.3 oz.	0.33 oz.	0.65 oz.	1.3 oz.	2.6 oz.	4.0 oz.
2.6 oz.	0.65 oz.	1.3 oz.	2.6 oz.	5.2 oz.	7.9 oz.
4.4 oz.	1.1 oz.	2.2 oz.	4.4 oz.	8.8 oz.	13.3 oz.

LAMBDA-CY EC INSECTICIDE-RUPMixing Chart for Ornamental Insect Pest Control (LAMBDA-CY EC INSECTICIDE-RUP to add per spray tank)

Rate of LAMBDA- CY EC INSECTICIDE- RUP	2 gals.	4 gals.	6 gals.	8 gals.	10 gals.
4.4 oz./A	5.0 oz.	2.5 oz.	1.7 oz.	1.2 oz.	1.0 oz.
8.8 oz./A	10.0 oz.	5.0 oz.	3.3 oz.	2.5 oz.	2.0 oz.
17.6 oz./A	20.0 oz.	10.0 oz.	6.7 oz.	5.0 oz.	4.0 oz.

LAMBDA-CY EC INSECTICIDE-RUP Mixing Chart for Turf Insect Pest Control (LAMBDA-CY EC INSECTICIDE-RUP to add per 100 gallon spray tank)

Conversion Rate: 1 Fluid ounce (fl. oz.) equals 29 milliliters (mL).

COMPATIBILITY

LAMBDA-CY EC INSECTICIDE-RUP has been found to be compatible with most commonly used fungicides, miticides, liquid fertilizers, and other insecticides. Use a jar 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 DIRECTIONS

ORNAMENTALS

Ornamentals in Greenhouses, Shadehouses, and Nurseries

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

Pest	Rate of LAMBDA-CY EC	Instructions
	INSECTICIDE-	Thistr actions
	RUP per 100	
	gallons	
Ants (Including Imported	1.3-4.4 fl oz.	Begin application to ornamentals before high insect
fire ants)		pest populations become established. Reapply as
Aphids	(38-128 mL)	necessary to keep pest populations under control, using
Armyworms		higher rates as pest pressure increases.
Azalea caterpillars		Good spray coverage is necessary to provide the most
Bagworms ¹		effective level of control. For ornamentals with waxy,
Black vine weevils (adult)		hard-to-wet foliage, add a spreader-sticker at
Boxelder bugs		recommended rates to enhance the control of insects.
Budworms		
California Oakworms		For spot treatments, use 0.44 fl. oz. LAMBDA-CY EC
Cankerworms		INSECTICIDE-RUP per 1-2.5 gallons of water.
Cockroaches		
Crickets		Apply at 7- day intervals if retreatment is necessary.
Cutworms		
Eastern tent caterpillars		Do not apply more than 0.36 lb. of the active ingredient
Elm leaf beetles		(46 fl. oz. of product) per acre per year.
European sawflies		
Fall webworms		Consult your state university or local Cooperative
Flea beetles		Extension Service office for specific pest control
Forest tent caterpillars		application timing in your area.
Gypsy moth larvae		
Japanese beetles (adult)		¹ Bagworm: Apply LAMBDA-CY EC

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June beetles (adult)		INSECTICIDE-RUP when bagworm larvae begin to
Lace bugs		hatch and spray directly on the larvae. Control will be
Leaf-feeding caterpillars		best if the larvae are young.
Leafhoppers		
Leafminers, (adult)		² Scale: Cover the plant thoroughly with LAMBDA-
Leaf rollers		CY EC INSECTICIDE-RUP spray, including trunks,
Leaf skeletonizers		stems, twigs, and foliage.
Midges		
Mosquitoes		
Oleander moth larvae		
Pillbugs		
Pine sawflies		
Pine shoot beetles		
Pinetip moths		
Plant bugs		
Root weevils		
Sawflies		
Scale insects (crawlers) ²		
Spiders		
Spittlebugs		
Striped beetles		
Striped oakworms		
Thrips		
Tip moths		
Tussock moth larvae		
Wasps		
Broadmites	2.6-4.4 fl. oz.	
Brown softscales		
California redscales	(75-128 mL)	
(crawler)	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Clover mites		
Mealybugs		
Pine needlescales		
(crawler)		
Spider mites		
Whiteflies		
·· internets	L	1

TURFGRASS

Sod Farms

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

Pest	Amount of	Instructions
	LAMBDA-CY EC	
	INSECTICIDE-	
	RUP	
Ants (Including Imported fire	2.9-6 ml/1,000 sq. ft.	Begin application to turf before the establishment
ants)		of high insect pest populations and before
Armyworms	(4.4-8.8 fl. oz./A)	significant turf damage has occurred. Reapply as
Centipedes		necessary to keep pest populations under control,
Crickets		using higher rates as pest pressure increases.
Cutworms		
Earwig		Apply at 7-day intervals if retreatment is
Fleas (adult)		necessary.
Grasshoppers		
Japanese beetles (adult)		Do not apply more than 0.36 lb. of active
Millipedes		ingredient (46 fl. oz. of product) per acre per year.
Mites		

Pillbugs		For spot treatments, use 0.44 fl. oz. of LAMBDA-
Sod webworms		CY EC INSECTICIDE-RUP per 1-2.5 gals. of
Sow bugs		water.
Ticks (including species		
which transmit Lyme		Do not apply when turfgrass is waterlogged or
disease)		when soils are saturated with water (i.e., will not
Bluegrass billbugs (adult)	6 ml/1,000 sq. ft.	accept irrigation).
Black turfgrass ataenius		
(adult)	(8.8 fl. oz./A)	Keep children and pets off treated areas until spray
Chiggers		has dried following the application.
Fleas (adult)		
Grub (suppression)		See additional instructions below for specific
Hyperodes weevils (adult)		pests.
Mole crickets (nymphs and		
young adults)		
Chinch bugs	12 ml/1,000 sq. ft.	
Mole crickets (mature adults)	-	
(Not for use on mature adult	(17.6 fl. oz./A)	
mole crickets and chinch		
bugs in New York State)		

Armyworms, cutworms, fleas, and other Surface Insects: For best results, apply LAMBDA-CY EC INSECTICIDE-RUP at recommended rates 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 LAMBDA-CY EC INSECTICIDE-RUP at recommended rates in 2-10 gals. of water per 1,000 sq. ft. The use of a nonionic wetting agent, penetrant, or similar adjuvant is recommended at label rates. Irrigate lightly after application with up to ½ inch of water to move the LAMBDA-CY EC INSECTICIDE-RUP 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 LAMBDA-CY EC INSECTICIDE-RUP at recommended rates in 4-10 gals. of water per 1,000 sq. ft. The use of a nonionic wetting agent, penetrant, or similar adjuvant is strongly recommended following label rates. Use the highest water application rates possible with your sprayer. Apply LAMBDA-CY EC INSECTICIDE-RUP to turf which is wet with dew, rain, or irrigation. Water-in immediately after application with ¹/₄ - ¹/₂ 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 LAMBDA-CY EC INSECTICIDE-RUP 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 LAMBDA-CY EC INSECTICIDE-RUP at recommended rates in 2-5 gals. of water per 1,000 sq. ft.

STORAGE AND DISPOSAL

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

Pesticide 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)

Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure 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 ¹/₄ 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.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

(Nonrefillable container greater than 5 gallons)

Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure 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.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

IMPORTANT INFORMATION READ BEFORE USING PRODUCT

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 reflect the opinion of experts based on field use and tests and must be followed carefully. It is impossible to eliminate all risks 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 United Phosphorus, Inc. or Seller. Handling, storage, and use of the product by Buyer or User are beyond the control of United Phosphorus, Inc. and Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold United Phosphorus, Inc. and Seller harmless for any claims relating to such factors.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, UNITED PHOSPHORUS, INC. AND SELLER MAKE NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ON THIS LABEL.

To the extent consistent with applicable law, United Phosphorus, Inc. or Seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product and THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF UNITED PHOSPHORUS, INC. 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 UNITED PHOSPHORUS, INC. OR SELLER, THE REPLACEMENT OF THE PRODUCT.

United Phosphorus, Inc. and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by the duly authorized representative of United Phosphorus, Inc.

Rev. 06/15/1004/30/2019

LAMBDA-CY EC INSECTICIDE-RUP, 70506-121 LABEL NOTES

<u>4/30/2019 – Brand name change to existing ABN and Optional referral statements for booklet labeling.</u>

06/15/2010 – EPA required changes in the Environmental Hazard statements per their letter dated June 4, 2009.

08/21/2009 – Additional modification to the notifications submitted 4/3/09 and 8/18/09 as requested by EPA in a telephone call on 8/19/09.

08/18/2009 – Additions to the Notification for container handling statements due to additional package sizes requested by Marketing.

04/03/2009 - Notification to EPA regarding container disposal statements per PR Notice 2007-4

11/10/2008 – EPA approved label with comments (both spray drift notification and various corrections amendment), submission of final printed label

8/11/2008 – Various corrections to match the Warrior label, i.e. soybean PHI changed from 45 days to 30 days, remove tobacco types, remove grazing restriction from sorghum, add pistachios, etc.

7/17/2008 - Spray Drift language changes required by EPA letter dated February 21, 2008

6/24/2008 - EPA approved final label

3/21/2008 – submission for new crop uses (cucurbits, potatoes, grasses, wild rice, barley, etc.)

2/23/2007 - submission of label to (1) incorporate EPA required changes, (2) change to commercial name,(3) update warranty statement.

11/1/2006 - EPA approval with minor changes required.

Source labels: Syngenta's Karate, 100-998 (PPLS 7/15/04) and MANA's Lambda-Cy 1EC, 66222-104 (PPLS 10/21/05), and Syngenta's 100-1088 (PPLS 4/6/04) (which is a 0.88 lb./gal product whose rates have been adjusted for this label), Drexel, 19713-572 (PPLS 3/18/05)