

RESTRICTED USE PESTICIDE

Toxic 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.

Agri Star®

BIFENTHRIN GROUP 3 INSECTICIDE

SPECIMEN LABEL

LANCER® LFR

SOIL INSECTICIDE

For mixing directly with liquid fertilizer to control listed soil insect pests.

ACTIVE INGREDIENT:

Bifenthrin: (2 methyl[1,1'-biphenyl]-3-yl)methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethyl-cyclopropanecarboxylate*..... 17.15%

OTHER INGREDIENTS: 82.85%

TOTAL: 100.00%

*Cis isomers 97% minimum, trans isomers 3% maximum.

This product contains 1.5 LBS active ingredient per gallon.

EPA Reg. No. 45002-36

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:	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• DO NOT induce vomiting unless told to do so by a poison control center or doctor.• DO NOT give anything by mouth to an unconscious person.
IF IN EYES:	<ul style="list-style-type: none">• 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.

NOTE TO PHYSICIAN: This product is a pyrethroid. If large amounts have been ingested, the stomach and intestines should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. **Emergency Phone Numbers** CHEMTREC 1-800-424-9300 (transportation and spills)

See inside booklet for additional PRECAUTIONARY STATEMENTS

Manufactured for:

ALBAUGH, LLC

1525 NE 36th Street
Ankeny, Iowa 50021

**FOR CHEMICAL SPILL, LEAK,
FIRE, OR EXPOSURE, CALL
CHEMTREC 1-800-424-9300**



Albaugh®
Your Alternative™

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

WARNING. May be fatal if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers (other than mixers and loaders) must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of: barrier laminate, butyl rubber (≥ 14 mils), nitrile rubber (≥ 14 mils), neoprene rubber (≥ 14 mils), polyvinyl chloride (PVC) (≥ 14 mils), or viton (≥ 14 mils)
- Shoes plus socks

Mixers and Loaders must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of: barrier laminate, butyl rubber (≥ 14 mils), nitrile rubber (≥ 14 mils), neoprene rubber (≥ 14 mils), polyvinyl chloride (PVC) (≥ 14 mils), 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 exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Mixers and loaders supporting aerial applications to cotton must wear at a minimum:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves
- Shoes plus socks

USER SAFETY RECOMMENDATIONS

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

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish and aquatic invertebrates. Use with care when applying in areas adjacent to any body of water. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not make applications when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

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 while bees are visiting the treatment area. **Protect pollinating insects by following label directions intended to minimize drift and to reduce risk to those organisms.**

The use of bifenthrin is prohibited in areas that may result in exposure of endangered species to bifenthrin. Prior to use in a particular county contact the local extension service for procedures and precautions to use to protect endangered species.

DIRECTIONS FOR USE

RESTRICTED USE PESTICIDE

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.

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 12 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:

1. Coveralls,
2. Chemical-resistant gloves,
3. Shoes plus socks.

RESISTANCE MANAGEMENT

Lancer® LFR contains a Group 3 Insecticide. With repeated use of Group 3 insecticide as the primary method of control in the same field or in successive years, insect/mite populations can develop resistant biotypes. If this occurs, insect/mite biotypes with acquired resistance to Group 3 insecticides may eventually dominate the insect/mite population. This may result in partial or total loss of control of those species by Lancer® LFR or other Group 3 insecticides.

To delay insecticide resistance, take the following steps:

- Rotate the use of Lancer® LFR or other Group 3 insecticides within a growing season, or among growing seasons, with different groups that control the same pests.
- Use tank mixtures with insecticides from a different group that are equally effective on the target pest when such use is permitted. Do not rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues (for the targeted pests) between the individual components of a mixture.

In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):

- Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
 - Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
 - When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
 - Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
 - The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticidal activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticide use that includes scouting, uses historical information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological and other chemical control practices.
 - Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
 - Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
 - For further information, or to report suspected resistance, contact Albaugh LLC at 1-800-247-8013.

Base insecticide applications on comprehensive IPM programs. This program should include an insect management program that includes cultural and biological control where possible.

Use good resistance management strategies established for the use area. This may include the use of insecticide rotations or tank mixes with other groups of insecticide and miticides in an IPM program.

Always apply Lancer® LFR at the labeled rates and according to label directions. Do not use less than label rates alone or in tank mixtures unless directed otherwise in supplemental labeling supplied by Albaugh, LLC.

Monitor treated populations in the field for loss of control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain may be present. Immediately consult your local Albaugh, LLC representative or agricultural advisor for the best alternative method of control for your area.

Consult your local extension specialist, certified crop advisor, and/or manufacturer for insecticide resistance management and /or IPM guidance for the specific site and resistant pest problems.

CHEMIGATION USE DIRECTIONS

Apply this product only through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, drip irrigation, or hand move irrigation systems. Do not apply this product through any other type of irrigation system. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system.

For LEPA irrigation a minimum of 0.75 inch of water per acre is recommended. Where non-emulsified oils are used as the diluents, 1 to 2 pints per acre is recommended.

Results from utilizing chemigation have been variable and depend upon the set up and calibration of equipment. Crop injury, lack of effectiveness or illegal residues in the crop can result from non-uniform distribution of treated water. Contact your State Agricultural Extension Service specialists, equipment manufacturers or other experts for consultation on the suitability of the equipment set up to obtain effective control of the target insect pests.

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. Failure to cease application during a mechanical stoppage may result in undesirable residues to adjacent areas.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

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 distributions is adversely affected. 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.

Do not apply when wind speed favors drift beyond the area intended for treatment. Lancer® LFR Soil Insecticide should be applied continuously for the duration of the water application. Lancer® LFR Soil Insecticide should be diluted in sufficient volume to ensure accurate application over the area to be treated. When using chemigation, a minimum of 0.5 inches per acre of irrigation water is recommended. Agitation generally is not required when a suitable diluent is used. A diluent test should be conducted to ensure that phase separation will not occur during dilution and application. Failure to achieve a uniform dilution throughout the time of application may result in undesirable residues or less than desirable control.

APPLICATION AND MIXING INSTRUCTIONS

Lancer® LFR Soil Insecticide is an insecticide that contains 1.5 LBS of bifenthrin per gallon. Lancer® LFR Soil Insecticide can be mixed directly with liquid fertilizer or with water. The rate of application is variable according to pest pressure, timing of treatments and field scouting. Use lower labeled rates under light to moderate pest infestations, and higher labeled rates under heavier pest pressure. In arid climates applications rates are generally higher. Fill the tank one-half full with liquid fertilizer or water and begin spray tank agitation. Add the proper amount of Lancer® LFR Soil Insecticide, and then add the rest of the fertilizer or water. Maintain agitation until the mixture has been applied.

Shake well before using.

Agitate the Lancer® LFR Soil Insecticide spray solutions in nurse tanks prior to moving the solution to spray system.

Lancer® LFR Soil Insecticide can be applied in-furrow with the seed, as a T-band (band over the open furrow), as a broadcast application, as a band over the row, as a pre-emergent (PRE) application, as a pre-plant incorporated (PPI) application, as a foliar application (includes chemigation), or as a transplant-water drench during setting.

Use labeled rates in the individual crop sections for at-plant soil applications are listed as Fluid oz/1000 Linear ft based on 30 inch row spacings. For conversion to application rates applicable to other row spacings see the table below.

DO NOT exceed the maximum application rate per acre per season (LBS active ingredient /acre/season) as listed under the use directions for each crop. This seasonal maximum includes at-plant plus foliar applications of Lancer® LFR Soil Insecticide and other products containing bifenthrin.

For at-plant applications, Lancer® LFR Soil Insecticide can be mixed with commonly used liquid starter or pop-up fertilizers. Follow liquid fertilizer recommendations regarding seed safety and use guidelines. Conduct a preliminary jar test using the appropriate ratio of fertilizer and Lancer® LFR Soil Insecticide. Do not allow a tank mixture to set overnight, but if this occurs agitate tank mixture prior to application.

Lancer® LFR Soil Insecticide Required Per Acre for Various Row Spacings					
Row Spacing	36"	30"	20"	15"	Twin Row 30" centers
Linear row ft/acre	14,520 ft	17,424 ft	26,136 ft	34,848 ft	34,848 ft
Conversion	Fluid oz / acre				
0.2 Fluid oz/1000 Linear ft =	2.9	3.5	5.2	7.0	7.0
0.24 Fluid oz/1000 Linear ft =	3.5	4.2	6.3	8.4	8.4
0.3 Fluid oz/1000 Linear ft =	4.4	5.2	7.8	10.5	10.5
0.39 Fluid oz/1000 Linear ft =	5.7	6.8	10.2	13.6	13.6
0.49 Fluid oz/1000 Linear ft =	7.1	8.5	12.8		
0.73 Fluid oz/1000 Linear ft =	10.6	12.7			
0.78 Fluid oz/1000 Linear ft =	11.3	13.6			
0.98 Fluid oz/1000 Linear ft =	14.2	17.1			
1.47 Fluid oz/1000 Linear ft =	21.3	25.6			

CROP ROTATION RESTRICTIONS

Crops for which bifenthrin tolerances exist may be rotated at any time. All other crops may be rotated 30 days following the final application of bifenthrin.

TANK-MIXTURES

Lancer® LFR Soil Insecticide may be applied in tank mixtures with other products approved for use on registered crops. Observe all restrictions and precautions which appear on the labels of these products. To ensure successful applications, product compatibility tests should be conducted.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

MAXIMUM ALLOWABLE LANCER® LFR USE / ACRE / SEASON

Refer to the individual crop sections for maximum allowable Lancer® LFR Soil Insecticide usage per acre per season. The maximum allowable use must include all registered use patterns including at-plant, soil applied and/or foliar applications for the 12 months period. The 12 month period is to begin upon the initial application to the acre.

BUFFER ZONES

Vegetative Filter Strips

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

Only apply products containing (name of pyrethroid) onto fields where a maintained vegetative filter strip of at least 25 feet exists between the field edge and where a down gradient aquatic habitat exists. This minimum required width of 25 feet may be reduced or removed under the following conditions:

- For Western irrigated agriculture, a maintained vegetative filter strip of at least 10 feet wide is required. Western irrigated agriculture is defined as irrigated farmland in the following states: WA, OR, CA, ID, NV, UT, AZ, MT, WY, CO, NM, and TX (west of I-35).
 - For Western irrigated agriculture, if a sediment control basin is present, a vegetative filter strip is not required.
- In all other areas, a vegetative filter strip with a minimum width of 25 feet is required, unless the following conditions are met. The vegetative filter strip requirement may be reduced from 25 feet to 15 feet if at least one of the following applies:
 - The area of application is considered prime farmland (as defined in 7 CFR § 657.5).
 - Conservation tillage is being implemented on the area of application. Conservation tillage is defined as any system that leaves at least 30% of the soil surface covered by residue after planting. Conservation tillage practices can include mulch-till, no-till, or strip-till.

- A functional terrace system is maintained on the area of application.
- Water and sediment control basins for the area of application are functional and maintained.
- The area of application is less than or equal to 10 acres.

For further guidance on vegetated filter strips, refer to the following publication for information on constructing and maintaining effective buffers: Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. <https://www.regulations.gov/document?D=EPA-HQ-OPP2008-0331-0175>

Ground Application

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

Ultra Low Volume (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). Applications made by mosquito control districts and other public health officials are exempt from this requirement.

Non-ULV Aerial Application

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

In New York State this product may not be applied within 100 feet (using ground equipment) to 300 feet (using aerial equipment) of coastal marshes or streams that drain into coastal marshes.

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.

MANDATORY SPRAY DRIFT MANAGEMENT

Ground Boom Applications

- User must only apply with the nozzle height recommended by the manufacturer, but no more than 4 feet above the ground or crop canopy.
- Applicators are required to select nozzle and pressure that deliver medium or coarser droplets (ASABE S572).
- Do not apply when wind speeds exceed 15 mph at the application site.
- Do not apply during temperature inversions.

Airblast Applications

- Sprays must be directed into the canopy.
- Do not apply when wind speeds exceed 15 mph at the application site.
- User must turn off outward pointing nozzles at row ends and when spraying outer row.
- Do not apply during temperature inversions.

Aerial Applications

- Do not release spray at a height greater than 10 feet above the vegetative canopy, unless a greater application height is necessary for pilot safety.
- Applicators are required to select nozzle and pressure that deliver medium or coarser droplets (ASABE S641).
- Do not apply when wind speeds exceed 15 mph at the application site. If the wind speed is greater than 10 mph, the boom length must be 65% or less of the wingspan for fixed wing aircraft and 75% or less of the rotor diameter for helicopters. Otherwise, the boom length must be 75% or less of the wingspan for fixed-wing aircraft and 90% or less of the rotor diameter for helicopters.
- If the windspeed is 10 miles per hour or less, applicators must use ½ swath displacement upwind at the downwind edge of the field. When the windspeed is between 11-15 miles per hour, applicators must use ¾ swath displacement upwind at the downwind edge of the field.
- Do not apply during temperature inversions.

SPRAY DRIFT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT. BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

Controlling Droplet Size – Ground Boom

- Volume – Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzles with a higher flow rate.
- Pressure – Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle – Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

Controlling Droplet Size – Aircraft

- Adjust Nozzles – Follow nozzle manufacturers recommendations for setting up nozzles.
- Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

BOOM HEIGHT – Ground Boom

- For ground equipment, the boom should remain level with the crop and have minimal bounce.

RELEASE HEIGHT - Aircraft

- Higher release heights increase the potential for spray drift.

SHIELDED SPRAYERS

- Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

TEMPERATURE AND HUMIDITY

- When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

- Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

WIND

- Drift potential generally increases with wind speed. **AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.**
- Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

NON-TARGET ORGANISM ADVISORY STATEMENT: This product is highly toxic to bees and other pollinating insects exposed to direct treatment or to residues in/on blooming crops or weeds. Protect pollinating insects by following label directions intended to minimize drift and reduce pesticide risk to these organisms.

Following best management practices can help reduce risk to terrestrial pollinators. Examples of best management practices include applying pesticides in the evening and at night when pollinators are not foraging and checking to confirm hive locations before spraying. For additional resources on pollinator best management practices, visit <https://www.epa.gov/pollinator-protection/find-bestmanagement-practices-protect-pollinators>

Managed pollinator protection plans are developed by states/tribes to promote communication between growers, landowners, farmers, beekeepers, pesticide users, and other pest management professionals to reduce exposure of bees to pesticides. If available, visit state plans for additional information on how to protect pollinators.

How to Report Bee Kills

It is recommended that users contact both the state lead agency and the U.S. Environmental Protection Agency to report bee kills due to pesticide application. Bee kills can be reported to EPA at beekill@epa.gov. To contact your state lead agency, see the current listing of state pesticide regulatory agencies at the National Pesticide Information Center's website: http://npic.orst.edu/reg/state_agencies.html

CROP USE RATES

Do not treat seedling plants grown for transplant in greenhouses, shade houses, or field plots.

ARTICHOKE

AT-PLANT

PEST	USE RATES			DIRECTIONS
	Fluid oz/acre	Fluid oz/1000 Linear ft.	LBS ai/acre	
Cribrate Weevil (Grubs)	8.5	0.49	0.1	Apply as a 5 to 7 inch band (T-band) over an open furrow, or in-furrow with the seed.

PPI & PRE

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Cribrate Weevil (Grubs)	PRE 8.5	PRE 0.1	Lancer® LFR Soil Insecticide can be tank mixed and applied with PRE herbicides.
	PPI 8.5	PPI 0.1	Lancer® LFR Soil Insecticide can be tank mixed and applied with PPI herbicides. Do not incorporate Lancer® LFR Soil Insecticide any deeper than the intended planting depth and no deeper than 3 inches. Incorporate at a depth close to the intended seed planting depth.

FOLIAR

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Cribrate Weevil Artichoke Plume Moth	8.5	0.1	Apply when pest population reaches damaging threshold and repeat as necessary to maintain control, but not more often than 15 day intervals. Application by ground: Apply a full cover spray in a minimum of 75 gallons of finished spray per acre. Application by air: Apply specified dosage in a minimum of 10 gallons of finished spray per acre.
Foliar Restrictions:			
<ul style="list-style-type: none"> DO NOT apply within 5 days of harvest. 			

Artichoke Restrictions:

- DO NOT** apply more than 0.5 lb ai/A per season including at-plant, PPI, PRE and foliar applications of Lancer® LFR Soil Insecticide and other bifenthrin containing products.

BRASSICAS, HEAD AND STEM (CROP SUBGROUP 5A)

Broccoli, Chinese, Broccoli (gai lon, white flowering broccoli), Brussels Sprouts, Cauliflower, Cavalo broccoli, Kohlrabi, Cabbage, Chinese Cabbage (napa), and Chinese Mustard Cabbage (gai choy)

At-Plant

PEST	USE RATES			DIRECTIONS
	Fluid oz/acre	Fluid oz/1000 Linear ft.	LBS ai/acre	
Army cutworm Armyworm species Cabbage maggot Cutworm species Grubs Root aphids Root maggot Seedcorn maggot Wireworm	3.4 – 6.8	0.2 – 0.39	0.04-0.08	Apply as a 5-7 inch band (T-band) over the open seed or transplant furrow, or in-furrow with the seed or transplant. Cutworm and armyworm treatments may be applied as broadcast treatments to the soil surface. May be applied through transplant water at time of transplanting
At Plant Restrictions:				
<ul style="list-style-type: none"> • DO NOT apply more than 0.1lb ai/A per season as an at-plant application 				

PPI & PRE

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Root Aphids Root Maggots Seed corn maggot Wireworms Garden Symphylans	PRE 3.4 – 6.8	PRE 0.04 – 0.08	Lancer® LFR Soil Insecticide can be tank mixed and applied with PRE labeled herbicides and fungicides for pre-transplant application.
	PPI 3.4 – 6.8	PPI 0.04 - 0.08	DO NOT incorporate Lancer® LFR Soil Insecticide any deeper than the intended planting depth and no deeper than 3 inches. Incorporate at a depth close to the intended seed planting or transplant depth.

Foliar

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Aphids Armyworms Cutworms Corn Earworm Crickets Cucumber Beetles Diamondback Moth Flea Beetles Ground Beetles Imported Cabbageworm Leafhoppers Loopers Saltmarsh Caterpillar Stink Bugs Thrips Tobacco Budworm Whitefly Wireworm (adults) Black burrowing bug	2.8 – 8.5	0.033 – 0.1	Thorough coverage is necessary to attain acceptable control. Make application at the onset of infestation reaching locally determined economic thresholds. Apply in a minimum of 2 gallons of finished spray per acre by air or in a minimum of 10 gallons per acre with ground equipment. When applying by air, 1 - 2 quarts of emulsified oil may be substituted for 1 - 2 quarts of water in the finished spray. Thorough coverage is essential to achieve control.
Banks Grass Mite Carmine Mite Lygus Species Pacific Spider Mite Two spotted Spider Mite	6.8 – 8.5	0.08 – 0.1	
Foliar Restrictions:			
<ul style="list-style-type: none"> • DO NOT make more than 5 applications after bloom. • DO NOT make applications less than 7 days apart. 			

Brassicas, Head and Stem (Crop Subgroup 5A) Restrictions:

- **DO NOT** apply more than 0.5 lb ai/A per season including At-Plant, PRE, PPI, and Foliar applications of Lancer® LFR Soil Insecticide and other bifenthrin containing products.

BUSHBERRIES (CROP SUBGROUP 13-07B)

Aronia berry; blueberry, highbush; blueberry, lowbush; buffalo currant; Chilean guava; cranberry, highbush; currant, black; currant, red; elderberry; European barberry; gooseberry; honeysuckle, edible; huckleberry; jostaberry; Juneberry (Saskatoon berry); lingonberry; native currant; salal; sea buckthorn; cultivars, varieties, and/or hybrids of these

At-Plant

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Wireworm White Grubs	8.5	0.1	Apply as a (T-band) over an open furrow immediately prior to transplanting, or in-furrow with the transplant in sufficient water for planting. May also be applied as a solid drench with transplant water at time of transplanting.

PPI (Site Preparation) & PRE

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Wire worm White Grubs Blueberry Maggot (larvae)	PRE 3.4 – 8.5	PRE 0.04 – 0.1	Lancer® LFR Soil Insecticide can be tank mixed and applied with PRE herbicides
	PPI 8.5	PPI 0.1	Lancer® LFR Soil Insecticide can be tank mixed and applied with PPI herbicides, insecticides and fungicides where allowed. DO NOT incorporate Lancer® LFR Soil Insecticide any deeper than the intended planting depth. Incorporate at a depth close to the intended planting depth.

Foliar

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Aphids Blueberry maggot Fruitworms Japanese beetle Leafhoppers Leaf rollers Lecanium scale (crawlers) Obliquebanded leafroller Plum curculio Red banded leafroller Spanworm Variegated leafroller Spotted Winged Drosophila	3.4 – 8.5	0.04 - 0.1	Apply in a minimum of 2 gallons finished spray per acre by air or in a minimum of 10 gallons per acre with ground equipment. Thorough coverage is essential to achieve control. Make application at the onset of infestation reaching locally determined economic thresholds.
Carmine Mite Lygus species Pacific Spider Mite Twospotted Spider Mite	6.8 - 8.5	0.08 - 0.1	

Foliar Restrictions:

- **DO NOT** make applications less than 7 days apart.
- **DO NOT** apply within 1 day of harvest.

Bushberries (Crop Subgroup 13-07B) Restrictions:

- **DO NOT** apply more than 0.5 lb ai/A per season including at-plant, PRI, PRE and foliar application of Lancer® LFR Soil Insecticide and other bifenthrin containing products.

CANEBERRIES (Crop Subgroup 13-07A)

Caneberries including Bingleberries, Blackberries, Dewberries, Loganberries, Lowberries, Marionberries, Olallieberries, Raspberries, and Youngberries.

At-Plant

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Wireworm White grubs	8.5	0.1	Apply as a 5 to 7 inch band (T-band) over an open furrow in sufficient water for planting, or in-furrow with the seed. May be applied through transplant water at time of transplanting.

PPI (Site Preparation) & PRE

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Wireworm White Grubs	PRE 8.5	PRE 0.1	Lancer® LFR Soil Insecticide can be tank mixed and applied with PPI pesticides labeled for site preparation. DO NOT incorporate Lancer® LFR Soil Insecticide any deeper than the intended planting depth. Incorporate at a depth close to the intended planting depth.
	PPI 8.5	PPI 0.1	

Foliar

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Leafrollers Orange Tortrix Root Weevils Spotted Winged Drosophila	4.3 – 8.5	0.05 - 0.1	Apply by air or ground equipment using sufficient water to obtain full coverage of foliage (minimum of 10 gallons per acre by air and 50 gallons per acre by ground). One application may be made pre-bloom and a second application can be made post-bloom.
Raspberry Crown Borer Spider Mites	8.5	0.1	For Crown Borer, apply 0.1 lb ai/a post harvest (fall) or pre bloom (spring), as a drench application directed at the crown of plants in a minimum of 200 gallons water per acre. Greater efficacy is observed at higher gallons (up to 400 gallons/a) or in an application prior to a significant rainfall event. Do not make both pre bloom foliar and pre bloom drench applications.

Foliar Restrictions:

- One application may be made pre bloom and a second application may be made post bloom.
- **DO NOT** apply within 3 days of harvest.

Caneberries (Crop Subgroup 07A) Restrictions:

- **DO NOT** exceed 0.2 lb ai/A per season including at-plant, PRI, PRE, and foliar applications of Lancer® LFR Soil Insecticide and other bifenthrin containing products.

CANOLA, CRAMBE, RAPESEED

At-Plant

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Army cutworm Armyworm species Cutworm species Grape colaspis Grubs Root aphids Seed corn beetle Seed corn maggot Stalkborer Sugarcane beetle True armyworm Wireworm	6.83	0.08	Apply as a 5 to 7 inch band (T-band) over an open furrow, or in-furrow with the seed.

CANOLA, CRAMBE, RAPESEED (continued)

PPI & PRE

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Army cutworm Armyworm species Cutworm species	PRE 6.83	PRE 0.08	Lancer® LFR Soil Insecticide can be tank mixed and applied with PRE herbicides
Grape colaspis Grubs Root aphids Seed corn beetle Seed corn maggot Stalkborer Sugarcane beetle True armyworm Wireworm (PPI only)	PPI 6.83	PPI 0.08	Lancer® LFR Soil Insecticide can be tank mixed and applied with PPI herbicides. DO NOT incorporate Lancer® LFR Soil Insecticide any deeper than the intended planting depth and no deeper than 3 inches. Incorporate at a depth close to the intended seed planting depth.

Foliar

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Aphids Armyworms Cutworms Diamondback Moth Loopers Other Lepidopterous Larvae Flea Beetle Flea Hopper Grasshopper Plant Bug Stink Bugs Seedpod Weevil Thrips Whitefly	2.8 - 3.4	0.033 - 0.04	Apply in a minimum of 2 gallons finished spray per acre by air or in a minimum of 10 gallons per acre with ground equipment. . When applying by air, 1 - 2 quarts of emulsified oil may be substituted for 1 - 2 quarts of water in the finished spray. Thorough coverage is essential to achieve control.

Foliar Restrictions:

- **DO NOT** make applications less than 14 days apart.
- **DO NOT** apply within 35 days of harvest.

Canola, Crambe, and Rapeseed Restrictions:

- **DO NOT** apply more than 0.08 lb ai/A per season including at-plant, PRI, PRE, and foliar applications of Lancer® LFR Soil Insecticide and other bifenthrin containing products.

CILANTRO, CORIANDER

At-Plant

PEST	USE RATES			DIRECTIONS
	Fluid oz/acre	Fluid oz/1000 Linear ft.	LBS ai/acre	
Armyworm species Cutworm species Flea beetle larvae Wireworm	3.4 – 6.8	0.2 – 0.39	0.04 – 0.08	Apply as a 5 to 7 inch band over the row on the soil surface, a 5 to 7 inch band over the open furrow (T-band) in-furrow with the seed, or broadcast to the soil surface.
At-plant Restrictions:				
<ul style="list-style-type: none"> • DO NOT apply more than 0.1 lb ai/A per season as an at-plant application. 				

PPI & PRE

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Army cutworm Armyworm species Cutworm species	PRE 3.4 – 6.8	PRE 0.04 – 0.08	Lancer® LFR Soil Insecticide can be tank mixed and applied with PRE herbicides
Grape colaspis Grubs Root aphids Seed corn beetle Seed corn maggot Wireworms (PPI Only)	PPI 3.4 – 6.8	PPI 0.04 – 0.08	Lancer® LFR Soil Insecticide can be tank mixed and applied with PPI herbicides. DO NOT incorporate Lancer® LFR Soil Insecticide any deeper than the intended planting depth and no deeper than 3 inches. Incorporate at a depth close to the intended seed planting depth.

Foliar

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Aphids Beet Armyworm Cabbage Looper Cutworm Flea beetle Grasshoppers Leafminer Saltmarsh caterpillar Spotted Cucumber beetle Thrips Whitefly	2.8 – 8.5	0.033 - 0.1	Apply using sufficient water to obtain uniform coverage. Apply with ground equipment using a minimum of 10 gallons of finished spray per acre or a minimum of 2 gallons per acre by aircraft
Two Spotted Spider Mite	6.8 – 8.5	0.08 - 0.1	
Foliar Restrictions:			
<ul style="list-style-type: none"> • DO NOT make applications less than 7 days apart. • DO NOT apply within 3 days of harvest. 			

Cilantro and Coriander Restrictions:

- **DO NOT** apply more than 0.5 lb ai/A per season including at-plant, PPI, PRE and foliar applications of Lancer® LFR Soil Insecticide and other bifenthrin containing products.

CITRUS (Crop Group 10-10)

Australian desert lime; Australian finger-lime; Australian round lime; Brown River finger lime; calamondin; citron; citrus hybrids; grapefruit; Japanese summer grapefruit; kumquat; lemon; lime; Mediterranean mandarin; mount white lime; New Guinea wild lime; orange, sour; orange, sweet; pummelo; Russell River lime; satsuma mandarin; sweet lime; tachibana orange; Tahiti lime; tangelo; tangerine (mandarin); tangor; trifoliolate orange; unqi fruit; cultivars, varieties, and/or hybrids of these

General Use Directions:

When applied as directed, Lancer® LFR Soil Insecticide will provide control of the following pests listed in the table below. Apply Lancer® LFR Soil Insecticide by ground equipment to bare soil beneath citrus trees. Lancer® LFR Soil Insecticide must be uniformly applied from the trunk to the drip line of tree. Apply in a minimum of 40 gallons of dilute spray per acre. Use a greater spray volume to ensure uniformity of coverage. Perform a pre- and post-application irrigation to aid in the uniformity of coverage.

Lancer® LFR Soil Insecticide protects citrus tree roots from *Diaprepes* and other citrus root weevil feeding by forming a barrier which provides contact activity on newly hatched larvae (neonates). As citrus root weevil eggs hatch in new foliage, neonates fall to the soil surface beneath the tree and come in contact with Lancer® LFR Soil Insecticide as they attempt to burrow into the root zone. Minimize disturbance of the soil beneath trees

Timing of Lancer® LFR Soil Insecticide applications is critical. Current information suggests that peak emergence of adult *Diaprepes* root weevil varies by citrus growing region and these emergence peaks can be dramatically affected by environmental factors, such as soil moisture. Typically, two peaks are observed for *Diaprepes*, first in spring then late summer or early fall. Southern blue-green citrus root weevils, blue-green citrus root weevils and Fuller rose beetle typically exhibit a single emergence peak in the spring. Brown leaf notchers and Little Leaf Notchers typically exhibit three emergence peaks, spring, summer and fall. Since emergence varies seasonally and by location, timing of Lancer® LFR Soil Insecticide application can be accurately forecast by observing adults. Adults are most active early morning and late afternoon; numbers can be estimated by trapping throughout spring and summer (emergence periods). Egg laying will occur for 8 to 10 weeks following adult emergence from the soil; larval invasion of the soil will begin 2 to 3 weeks following adult emergence. It is critical to have the Lancer® LFR Soil Insecticide soil barrier in place prior to drop of the neonates.

Lancer® LFR Soil Insecticide is one of several effective tools in an integrated pest management program for Citrus Root Weevils. Application of Lancer® LFR Soil Insecticide should be used in conjunction with good cultural practices, biological control of larvae and foliar control of adults. Consult local university extension personnel for current information to protect citrus trees from Citrus Root Weevils and other pests.

Apply to individual citrus resets, when not in solid planted rows, using hand-gun or shielded sprayer.

Peak emergence of *Diaprepes* root weevil generally occurs in the spring. Depending on weather conditions, a minor emergence of *Diaprepes* root weevil may also occur in the fall.

If the citrus grove to be treated is in an area where weather conditions are conducive to primary emergence occurring in the spring, apply 42.5 fluid ounces of formulated product to obtain the longest residual management of *Diaprepes* root weevil. If the citrus grove to be treated is in an area where weather conditions will promote more than one peak of pest emergence, 21.25 fluid ounces formulated product can be applied early season and 21.25 fluid ounces formulated product can be applied later in the season.

BARE SOIL SURFACE UNDER DRIP LINE

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Asian cockroach Fire ants (<i>Solenopsis species</i>)	8.5 - 21.25	0.1 - 0.25	Apply the specified dosage in a minimum of 40 gallons of finished spray per acre.
Blue Green Citrus Root Weevil Brown Leaf Notcher Diaprepes Root Weevil Little Leaf Notcher Southern Blue Green Citrus Root Weevil	21.25- 42.5	0.25 - 0.5	

Restrictions:

- **DO NOT** allow any application of Lancer® LFR Soil Insecticide to contact fruit or foliage.
- **DO NOT** apply more than a total of 42.5 fluid ounces of formulated product (0.5 LBS active ingredient) per acre per year.
- **DO NOT** apply by air.

CORN

Field Corn (Grain and Silage), Popcorn, Field Corn Grown for Seed, Sweet Corn, Sweet Corn Grown for Seed

General Use Directions:

Heavy Corn Rootworm Pressure Management Program: In areas where large corn rootworm populations are present, a multi-approach system may be needed for optimal pest management. However, if the population level is not known and if a corn rootworm adult scouting program along with threshold adult control measures were not completed during the previous growing season, then utilize a maximum dosage seed treatment program or genetically modified corn rootworm resistant hybrid in addition to Lancer® LFR Soil Insecticide.

At-Plant

PEST	USE RATES			DIRECTIONS
	Fluid oz/acre	Fluid oz/1000 Linear ft.	LBS ai/acre	
Corn rootworm larvae (Northern, Southern and Western)	6.8 – 17.0	0.39 - 0.98	0.08 - 0.2	Apply as a 5 to 7 inch band (T-band) over an open furrow, or in-furrow with the seed. For Army cutworm, Stalkborer, Cutworm species, True armyworm or Armyworm species, apply as a 5 to 7 inch band over the row on the soil surface, a 5 to 7 inch band over the open furrow (T-band), in-furrow with the seed, or broadcast to the soil surface.
Army cutworm Armyworm species Cutworm species Grape colaspis Grubs Root aphids Seed corn beetle Seed corn maggot Stalkborer Sugarcane beetle True armyworm Wireworm	3.4 – 13.6	0.2 - 0.78	0.04 - 0.16	

At-Plant Restrictions:

- **DO NOT** apply more than 0.2 LBS active per acre per season as an at-plant application.
- For field corn - **DO NOT** apply more than 0.3 lb ai/A per season including ppi, at-plant, pre-emergence, and foliar applications of other bifenthrin products (such as Brigade 2EC).
- For sweet corn - **DO NOT** apply more than 0.2 lb ai/A total per season including ppi, at-plant, pre-emergence, and foliar applications of other bifenthrin products (such as Brigade 2EC).

PPI & PRE

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Armyworm species Black Cutworm Grape colaspis Seed corn beetle Seed corn maggot White Grub Wireworm	PPI 4 to 5.3	PPI 0.047 to 0.062	Lancer® LFR Soil Insecticide can be tank mixed and applied with PPI herbicides. DO NOT incorporate Lancer® LFR Soil Insecticide any deeper than the intended planting depth and no deeper than 3 inches. Incorporate at a depth close to the intended seed planting depth.
Armyworm species Black Cutworm Seed corn beetle Stalkborer	PRE 3.4	PRE 0.04	Lancer® LFR Soil Insecticide can be tank mixed and applied with PRE herbicides.

CORN (continued)
Foliar

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Aphids Army Cutworm Beet Armyworm Cereal Leaf Beetle Chinch Bug Common Stalk Borer Corn Earworm ¹ Corn Rootworm Adults Cucumber Beetle Adult Cutworm species European Corn Borer ² Fall Armyworm Flea Beetle Grasshoppers Greenbug Japanese Beetle Adult Sap Beetle Southern Armyworm Southern Corn Leaf Beetle Southwestern Corn Borer ² Stinkbugs Tarnished Plant Bug True Armyworm or Armyworm species Webworms Western Bean Cutworm Yellowstriped Armyworm	2.8 – 8.5	0.033 - 0.1	Apply in a minimum of 2-5 gallons of finished spray per acre by aircraft or in a minimum of 10 gallons per acre with ground equipment. To improve control by aircraft, use 5 gallons of finished spray per acre particularly when initial populations are heavier than normal. When applying by air, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray. Thorough coverage is essential to achieve control. ¹ To Control Ear Attacking Pests: Apply Lancer [®] LFR Soil Insecticide just before silking and repeat as necessary to maintain control. ² Southwestern Corn Borer, European Corn Borer: Make application for corn borer control with initial application at or shortly before egg hatch. For Control of Other Insect Pests: Apply when pests first appear and repeat as necessary. ³ For Control of Mites: Apply for Banks Grass Mite control when colonies first form prior to leaf damage or discoloration and before dispersal above the bottom third of the plant. For Twospotted Spider Mite and Carmine Mite control, apply when colonies first form prior to leaf damage or discoloration and before widespread mite dispersal throughout the canopy. Higher labeled rates will be necessary for heavier initial populations and corn under heat or drought stress. Field experience with dimethoate at 0.5 lb. active per acre in tank mixture has demonstrated good control under these conditions. For Mite Control in Texas, New Mexico, Oklahoma, and Arizona: Apply in a minimum of 5 gallons of finished spray per acre by aircraft or in a minimum of 10 gallons per acre with ground equipment
Banks Grass Mite ³ Carmine Mite ³ Twospotted Spider Mite ³	6.8 – 8.5	0.08 - 0.1	

Foliar Restrictions:

- For field corn
 - **DO NOT** apply within 30 days of harvest for field corn (grain and silage), popcorn, field corn grown for seed.
 - **DO NOT** graze livestock in treated areas or cut treated crops for feed within 30 days of the last application for field corn (grain and silage), popcorn, field corn grown for seed.
- For sweet corn
 - **DO NOT** apply within 1 day of harvest for sweet corn or sweet corn grown for seed.
 - **DO NOT** graze livestock in treated areas or cut treated crops for feed within 1 day of the last application for sweet corn or sweet corn grown for seed.
- Use of ultra low volume (ULV) application on corn is prohibited.
- **DO NOT** make aerial or ground applications to corn if heavy rainfall is imminent.

Corn Restrictions:

- For field corn
 - **DO NOT** apply more than 0.3 lb ai/A total per season including ppi, at-plant, pre-emergence, and foliar applications of Lancer[®] LFR Soil Insecticide and other bifenthrin products.
- For sweet corn
 - **DO NOT** apply more than 0.2 lb ai/A total per season including ppi, at-plant, pre-emergence, and foliar applications of Lancer[®] LFR Soil Insecticide and other bifenthrin products.

COTTON

At-Plant

PEST	USE RATES			DIRECTIONS
	Fluid oz/acre	Fluid oz/1000 Linear ft.	LBS ai/acre	
Cutworm spp White Grub Wireworm Grape colaspis Root Maggot Seedcorn Maggot	1.7 – 8.5	0.1 – 0.5	0.02 – 0.1	Apply as a 5 to 7 inch band (T-band) over an open furrow, or in-furrow with the seed.

PPI & PRE

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Cutworm species	PRE 3.4-8.5	PRE 0.04 - 0.1	
Cutworm species White Grub Wireworm Grape colaspis Root maggot Seedcorn maggot	PPI 3.4 – 8.5	PPI 0.04 - 0.1	Lancer® LFR Soil Insecticide can be tank mixed and applied with PPI herbicides. DO NOT incorporate Lancer® LFR Soil Insecticide any deeper than the intended planting depth and no deeper than 3 inches. Incorporate at a depth close to the intended seed planting depth.

Foliar

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
European Corn Borer Soybean (Banded) Thrips Tobacco Thrips	1.7 – 8.5	0.02 - 0.1	Apply as needed using sufficient water to obtain uniform coverage. Apply with ground equipment using a minimum of 5 gallons of finished spray per acre or a minimum of 1 gallon per acre by aircraft. Lancer® LFR Soil Insecticide may be applied in water or refined vegetable oil (soybean/cottonseed).
Boll Weevil ¹ Bollworm Cabbage Looper Cotton Aphid ² Cotton Fleahopper Cotton Leafperforator Cutworms Fall Armyworm Plant Bugs Saltmarsh Caterpillar Southern Garden Leafhopper Stink Bugs Tobacco Budworm Whitefly Yellow Striped Armyworm	3.4 – 8.5	0.04 - 0.1	Application in Water: Apply in a minimum of 5 gallons per acre with ground equipment or 1 gallon per acre by aircraft. When applying by air, 1 quart of emulsified oil may be substituted for one quart of water in the finished spray. ULV Application: Apply the labeled rate of Lancer® LFR Soil Insecticide in refined vegetable oil in a minimum of 1 quart of finished spray per acre with aircraft calibrated to give adequate coverage. ¹Boll Weevil: Apply Lancer® LFR Soil Insecticide at an interval of 3 to 4 days until pest numbers are reduced to acceptable levels. ²Aphids and Mites: Apply when pests first appear. Repeat as necessary to maintain control. Higher labeled rates will be required once a damaging threshold is established.
Beet Armyworm Carmine Spider Mite ² Lygus species Pink Bollworm Twospotted Spider Mite ²	5.1 – 8.5	0.06 - 0.1	

Foliar Restrictions:

- **DO NOT** apply within 14 days of harvest.
- **DO NOT** graze livestock in treated areas or cut treated crops for feed.

Cotton Restrictions:

- **DO NOT** apply more than 0.5 lb ai/A per season including at-plant, PRE, PPI, and foliar applications of Lancer® LFR Soil Insecticide and other bifenthrin containing products in all states except in California
 - For California do not apply more than 0.3 LBS active per acre per season.
- **DO NOT** make more than 10 synthetic pyrethroid applications (of one product or combination of products) to a cotton crop in one growing season. Synthetic pyrethroid products include but are not limited to Ambush®, Ammo®, Asana® XL, Baythroid®, Baythroid XL®, Brigade®, Capture®, Danitol®, Declare®, Discipline®, Fanfare®, Karate®, and Mustang®.

CUCURBITS (Crop Group 9)

Chayote (fruit), Chinese waxgourd (Chinese preserving melon), Citron melon, Cucumber, Gherkin, Gourd, edible *Lagenaria* species (includes hyotan, cucuzza), *Luffa* species (includes hechima, Chinese okra), *Momordica* species (includes balsam apple, balsam pear, bitter melon, Chinese cucumber), Muskmelon (hybrids and/or cultivars of *Cucumis melo*) (includes true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon), Pumpkin (*Cucurbita* species), Squash, summer (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini), Squash, winter (includes butternut squash, calabaza, hubbard squash (*C. mixta*; *C. pepo*) includes acorn squash, spaghetti squash), Watermelon (includes hybrids and/or varieties of *Citrullus* species).

At-Plant

PEST	USE RATES			DIRECTIONS
	Fluid oz/acre	Fluid oz/1000 Linear ft.	LBS ai/acre	
Cucumber beetle larvae	6.8 – 8.5	0.39 – 0.49	0.08 – 0.1	Apply as a 5 to 7 inch band (T-band) over an open furrow, or in-furrow with the seed. May be applied through transplant water at time of transplanting.
Army cutworm Armyworm species Cutworm species Flea beetle larvae Grubs True Armyworm Wireworm True armyworm	3.4 – 6.8	0.2 – 0.39	0.04 – 0.08	To control cucumber beetle larvae, apply as a 5 to 7 inch band over an open furrow (T-band), or in-furrow with the seed. To control wireworm, grubs, and flea beetle larvae, apply as a 5 to 7 inch band over an open furrow (T-band), or in-furrow with the seed or transplant To control army cutworm, cutworm species, true armyworm and armyworm species, apply as a 5 to 7 inch band over the row on the soil surface, a 5 to 7 inch band over the open furrow (T-band), in-furrow with the seed, broadcast to the soil surface or banded over the row.
At Plant Restrictions:				
<ul style="list-style-type: none"> • DO NOT apply more than 0.1 lb ai/A per season as an at-plant application 				

PPI & PRE

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Seed Corn Maggot Wireworms Army cutworm Armyworm species Cutworm species Flea beetle larvae Grubs True Armyworm True armyworm	PRE 6.8 – 8.5	PRE 0.08 – 0.1	Lancer® LFR Soil Insecticide can be tank mixed and applied with PRE pesticides. Apply through drip of drip tape. Apply when soil is moist towards the end of the irrigation run.
	PPI 6.8 – 8.5	PPI 0.08 - 0.1	Lancer® LFR Soil Insecticide can be tank mixed and applied with PPI labeled pesticides. DO NOT incorporate Lancer® LFR Soil Insecticide any deeper than the intended planting depth. Incorporate at a depth close to the intended depth. Apply through drip or Drip tape. Apply when soil is moist towards the end of the irrigation run.

CUCURBITS (Crop Group 9) (continued)

Foliar

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Aphids Armyworms Cabbage Looper Corn Earworm Cucumber beetles Cutworms Grasshopper Leafhoppers Melonworm Pickleworm Plant Bug Rindworm Squash Bugs Squash Vine Borer Stink Bugs Tobacco Budworm	3.4 – 8.5	0.04 – 0.1	Thorough coverage is necessary to attain acceptable control. Make application at the onset of infestation reaching locally determined economic thresholds Apply in a minimum of 5 gallons of finished spray per acre by air or in a minimum of 20 gallons per acre with ground equipment When applying by air 1-2 quarts of emulsified oil may be substituted for 1 – 2 quarts of water in the finished spray. Thorough coverage is essential to achieve control
Carmine Mite Lygus species Mite Twospotted Spider Mite Whitefly	6.8 – 8.5	0.08 – 0.1	

Foliar Restrictions:

- **DO NOT** make more than two applications after bloom.
- **DO NOT** make applications less than 7 days apart
- **DO NOT** apply within 3 days of harvest

Cucurbits (Crop Group 9) Restrictions:

- **DO NOT** apply more than 0.3 lb ai/A per season including At-plant, PRE & PPI, and foliar applications of Lancer® LFR Soil Insecticide and other bifenthrin containing products.

DRIED BEANS AND PEAS (Crop Subgroup 6C)

Dried cultivars of: Bean (Lupinus); Bean (Phaseolus), Field bean, Kidney bean, Lima bean (dry), Navy bean, Pinto bean, Tepary bean; Bean (Vigna), Adzuki bean, Blackeyed pea, Catjang, Cowpea, Crowder pea, Moth bean, Mung bean, Rice bean, Southern pea, Urd bean; Broad bean (dry), Chickpea, Guar, Lablab bean, Lentil; Pea (Pisicum), Field pea, Pigeon pea., purple hulled peas

At-Plant

PEST	USE RATES			DIRECTIONS
	Fluid oz/acre	Fluid oz/ 1000 Linear ft.	LBS ai/acre	
Corn rootworm larvae	6.8 – 8.5	0.39 – 0.49	0.08 – 0.1	Apply as a 5 to 7 inch band over the row on the soil surface, 5 to 7 inch band (T-band) over an open furrow, or in-furrow with the seed. Apply broadcast to the soil surface for control of Army cutworm, Cutworm species, True armyworm, or Armyworm species.
Army cutworm Armyworm species Cutworm species Grape colaspis Grubs Root maggot True armyworm Wireworm	3.4 – 6.8	0.2 – 0.39	0.04 – 0.08	

At Plant Restrictions:

- **DO NOT** apply more than 0.1 lb ai/A per season as an at-plant application.

DRIED BEANS AND PEAS (Crop Subgroup 6C) (continued)

PPI & PRE

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Army cutworm Armyworm species Cutworm species	PRE 6.8 – 8.5	PRE 0.08 – 0.1	Lancer® LFR can be tank mixed and applied with PRE herbicides. Apply in a minimum of 10 gallons per acre.
Grape colaspis Grubs Root maggot True armyworm Wireworm (PPI only)	PPI 6.8 – 8.5	PPI 0.08 – 0.1	Lancer® LFR Soil Insecticide can be tank mixed and applied with PPI herbicides. DO NOT incorporate Lancer® LFR Soil Insecticide any deeper than the intended planting depth and no deeper than 3 inches. Incorporate at a depth close to the intended seed planting depth. Apply in a minimum of 10 gallons per acre.

Foliar

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Aster Leafhopper Flea Beetle Grasshoppers Leafhoppers	2.1 – 8.5	0.025 – 0.1	Apply in a minimum of 2 gallons finished spray per acre by air or in a minimum of 10 gallons per acre with ground equipment. Thorough coverage is essential to achieve control.
Alfalfa Caterpillar Aphids Bean Leaf Beetle Beet Armyworm Cloverworm Corn Earworm Corn Rootworm (Adult) Cucumber Beetles Cutworms European Corn Borer Fall Armyworm Grasshoppers Imported cabbageworm Japanese beetle (Adult) Leafminer Loopers Mexican Bean Beetle Pea Leaf Weevil Pea Weevil Plant Bug Saltmarsh caterpillar Sap Beetle Southern Armyworm Stink Bugs Tarnished Plant Bug Thrips Twospotted Spider Mite Tobacco budworm Webworms Western Bean Cutworm Whitefly Yellowstriped Armyworm	2.8 – 8.5	0.033 – 0.1	When applying by air 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray. Thorough coverage is essential to achieve control
Banks Grass Mite Carmine Mite Lygus Species	6.8 - 8.5	0.08 – 0.1	

Foliar Restrictions:

- **DO NOT** apply within 14 days of harvest
- **DO NOT** make applications less than 7 days apart

Dried Beans and Peas (Crop Subgroup 6C) Restrictions:

- **DO NOT** apply more than 0.2 lb ai/A to peas, or 0.3lb ai/A to beans per season including At-Plant, PRE & PPI, and Foliar applications of Lancer® LFR Soil Insecticide and other bifenthrin containing products.

EGGPLANT

At-Plant

PEST	USE RATES			DIRECTIONS
	Fluid oz/acre	Fluid oz/1000 Linear ft.	LBS ai/acre	
Army cutworm Armyworm species Cutworm species Grubs Root maggot True armyworm Wireworm	3.4 – 6.8	0.2 – 0.39	0.04 – 0.08	Apply as a 5 to 7 inch band over the row on the soil surface, a 5 to 7 inch band over the open furrow (T-band), or in-furrow with the transplant or seed. Apply broadcast to the soil surface for control of Army Cutworm, Cutworm species, True Armyworm or Armyworm species.
At Plant Restrictions: <ul style="list-style-type: none"> • DO NOT apply more than 0.1 lb ai/A per season as an at-plant application. 				

PPI & PRE

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Army cutworm Armyworm species Cutworm species Grubs Root maggot True armyworm Wireworm	PRE 8.5	PRE 0.1	Lancer® LFR can be tank mixed and applied with PRE pesticides Post Plant Soil Applied: Apply through drip or Drip tape. Apply when soil is moist towards the end of the irrigation run.
	PPI 3.4 – 8.5	PPI 0.04 – 0.1	Lancer® LFR Soil Insecticide can be tank mixed and applied with PPI labeled pesticides. DO NOT incorporate Lancer® LFR Soil Insecticide any deeper than the intended planting depth. Incorporate at a depth close to the intended depth. Post Plant Soil Applied: Apply through drip or Drip tape. Apply when soil is moist towards the end of the irrigation run.

EGGPLANT (continued)

Foliar

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Armyworms (Including Beet) Armyworm Fall Armyworm Southern Cabbage Looper Colorado Potato Beetle Corn Earworm Cucumber Beetle Cutworms European Corn Borer Flea Beetle Leafminers Loopers Pepper weevil Plant Bug Stink Bug Thrips Tomato Hornworm Tomato Pinworm Vegetable Leafminer Whitefly Yellowstriped Armyworm	2.8 – 8.5	0.033 – 0.1	Thorough coverage is necessary to attain acceptable control. Make application at the onset of infestation reaching locally determined economic thresholds. Apply in a minimum of 2 gallons of finished spray per acre by air or in a minimum of 10 gallons per acre with ground equipment. When applying by air, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray. Thorough coverage is essential to achieve control.
Banks Grass Mite Broad Mite Carmine Mite Lygus species Pacific Spider Mite Twospotted Spider Mite	6.8 – 8.5	0.08 – 0.1	
<p>Foliar Restrictions:</p> <ul style="list-style-type: none"> • DO NOT make applications less than 7 days apart. • DO NOT apply within 7 days of harvest. 			

Eggplant Restrictions:

- **DO NOT** apply more than 0.2 lb ai/A per season including At-Plant, PRE & PPI, and Foliar applications of Lancer® LFR Soil Insecticide and other bifenthrin containing products.

GRAPES

At-Plant

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Grape Phylloxera (suppression only) White Grubs Wireworms	8.5	0.1	Apply at time of planting over an open furrow in sufficient water for planting. May be applied through transplant water at time of transplanting.

PPI (Site Preparation) & PRE

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Vine Mealybug Grape Phylloxera (suppression only)	PRE 8.5	PRE 0.1	Lancer® LFR can be tank mixed and applied with PRE pesticides. Post Plant Soil Applied: Apply through drip or Drop Tape. Apply when soil is moist towards the end of the irrigations run.
	PPI 8.5	PPI 0.1	Lancer® LFR Soil Insecticide can be tank mixed and applied with PPI pesticide labeled for site preparation. DO NOT incorporate Lancer® LFR Soil Insecticide any deeper than the intended planting depth. Incorporate at a depth close to the intended depth. Post Plant Soil Applied: Apply through drip or Drop Tape. Apply when soil is moist towards the end of the irrigations run.

Foliar

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Cutworms Eastern Grape Leafhopper Grape Berry Moth Japanese Beetles Adults Lady Beetle (Scymnus spp.) Variegated Leafhopper Western Grape Leafhopper Grapevine root borer	4.3 – 8.5	0.05 - 0.1	Thorough coverage is necessary to attain acceptable control. Make application at the onset of infestation reaching locally determined economic thresholds. Apply in a minimum of 10 gallons of finished spray by air or in a minimum of 25 gallons of finished spray with ground equipment. When applying by air, 1 to 2 quarts of emulsified oil may be substituted for 1 to 2 quarts of water in the finished spray. When pest pressure is moderate to severe, use higher labeled rate.
Black Vine Weevil Glassywinged Sharpshooter Twospotted Spider Mite	8.5	0.1	

Foliar Restrictions:

- **DO NOT** apply within 30 days of harvest.

Grape Restrictions:

- **DO NOT** apply more than 0.10 lb ai per acre per season including at-plant, PPI, PRE and foliar applications of Lancer® LFR Soil Insecticide and other bifenthrin containing products.

HEAD LETTUCE

At-Plant

PEST	USE RATES			DIRECTIONS
	Fluid oz/acre	Fluid oz/1000 Linear ft.	LBS ai/acre	
Rootworm larvae	6.8 – 8.5	0.39 – 0.49	0.08 – 0.1	Apply as a 5 to 7 inch band over the row on the soil surface, a 5 to 7 inch band over the open furrow (T-band), or in-furrow with the seed. Apply broadcast to the soil surface for control of Army cutworm, Cutworm species, True armyworm, armyworm species, or bulb mites.
Army cutworm Armyworm species Bulb mites Cutworm species Grubs Lettuce root aphid Root maggot True armyworm Wireworm	3.4 – 6.8	0.2 – 0.39	0.04 – 0.08	
At Plant Restrictions:				
<ul style="list-style-type: none"> • DO NOT apply more than 0.1 lb ai/A per season as an at-plant application. 				

PPI

PEST	USE RATES	
	Fluid oz/acre	LBS ai/acre
Lettuce Root Aphid Garden Symphians	6.8-8.5	0.08 – 0.1

Foliar

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Aphids Armyworms Corn earworm Cucumber Beetles Cutworms Diamondback Moth Flea Beetles Imported Cabbageworm Leafhoppers Loopers Salt Marsh Caterpillar Stink Bug species Tobacco Budworm Whitefly	2.8 – 8.5	0.033 – 0.1	Apply in water as necessary for insect control using a minimum of 15 gallons of finished spray per acre with ground equipment and 5 gallons per acre by air. When applying by air, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray. Thorough coverage is essential to achieve control.
Carmine Mite Lygus Species Twospotted Spider Mite	6.8 – 8.5	0.08 – 0.1	
Foliar Restrictions:			
<ul style="list-style-type: none"> • DO NOT make applications less than 7 days apart. • DO NOT apply within 7 days of harvest. 			

Head Lettuce Restrictions:

- **DO NOT** apply more than 0.5 lb ai/A per season including At-Plant, PRE & PPI, and Foliar applications Lancer® LFR Soil Insecticide and other bifenthrin containing products.

HOPS

At-Plant

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Grape colaspis Rootworms Sweet potato flea beetle White grub Wireworms	5.1 – 8.5	0.06 - 0.1	Apply in a T-band that ensures coverage of the entire furrow, immediately prior to planting, or at planting. May also be applied as a soil drench with transplant water at time of transplanting. Apply in a minimum of 10 gallons per acre of spray.

Lay-By

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Grape colaspis Rootworms Wireworms White grub	5.1 – 8.5	0.06 - 0.1	Apply Lancer® LFR to the transplant area and incorporate with cultivation equipment set to throw soil towards the hill. Apply in a minimum of 10 gallons per acre of spray

PPI

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Grape colaspis Rootworms Wireworms White grub	PPI 5.1 – 8.5	PPI 0.06 – 0.1	Apply Lancer® LFR to the transplant area and incorporate to planting depth. Apply in a minimum of 10 gallons per acre of spray. May be applied as a broadcast application or an incorporated band application

PRE & Post Plant Soil Applied

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Grape colaspis Rootworms Wireworms White grub	PRE 5.1 – 8.5	PRE 0.06 – 0.1	Apply through drip or Drip tape. Apply when soil is moist towards the end of the irrigation run.

Foliar

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Aphids Armyworms Cutworms Leafrollers Loopers	5.1 – 8.5	0.06 - 0.1	Application by ground: For best results, full coverage is essential. Early season recommend 100 – 150 gallons of spray per acre. Late season recommend 200 – 250 gallons of spray per acre. For Root Weevil control, make a directed spray to the base of the plant. Spray up the vine 3 feet and the soil surface 1.5 to 2 feet on either side of the plant. Application by air for late season control of twospotted spider mites: Apply no less than 6.4 oz (0.1 lb ai) per application in a minimum of 10 gallons per acre.
Root Weevils	4.3 – 8.5	0.05 to 0.1	
Twospotted spider mite	8.5	0.1	

Foliar Restrictions:

- **DO NOT** exceed 0.1 lb ai per acre per foliar application.
- **DO NOT** make applications less than 21 days apart
- **DO NOT** apply within 14 days of harvest.

Hops Restrictions:

- **DO NOT** exceed 0.3 lb ai per acre per season including at-plant, PRE, PPI, Layby and foliar application of Lancer® LFR Soil Insecticide and other bifenthrin containing products.
- Use of ultra low volume (ULV) application on hops is prohibited.

LEAFY BRASSICAS (Crop Subgroup 5B), TURNIP GREENS

Broccoli Raab, Bok Choy, Collards, Kale, Mizuna, Mustard Greens, Mustard Spinach, Rape Greens, Turnip Greens

At-Plant

PEST	USE RATES			DIRECTIONS
	Fluid oz/acre	Fluid oz/ 1000 Linear ft.	LBS ai/acre	
Rootworm larvae	6.8 – 8.5	0.39 – 0.49	0.08 – 0.1	Apply as a 5-7 inch band over the row on the soil surface, a 5-7 inch band over the open furrow (T-band), or in-furrow with the seed or transplant. May be applied through transplant water at time of transplanting. Apply broadcast over the soil surface for control of Army cutworm, Cutworm species, True armyworm or armyworm species.
Army cutworm Armyworm species Cutworm species Grubs Lettuce root aphid Root maggot True armyworm Wireworm	3.4 – 6.8	0.2 – 0.39	0.04 – 0.08	

At Plant Restrictions:

- **DO NOT** apply more than 0.1 lb ai/A per season as an at-plant application

PPI & PRE

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Lettuce root aphid Root Maggots Wireworms	PRE 3.4 – 6.8	PRE 0.04 – 0.08	Lancer® LFR Soil Insecticide can be tank mixed and applied with PRE pesticides. Post Plant Soil Applied: Apply through drip or drip tape. Apply when soil is moist towards the end of the irrigation run.
Army cutworm Armyworm species Cutworm species Flea beetle larvae Grubs True Armyworm	PPI 3.4 – 6.8	PPI 0.04 – 0.08	Lancer® LFR Soil Insecticide can be tank mixed and applied with PPI labeled pesticides. DO NOT incorporate Lancer® LFR Soil Insecticide any deeper than the intended planting depth. Incorporate at a depth close to the intended depth. Post Plant Soil Applied: Apply through drip or drip tape. Apply when soil is moist towards the end of the irrigation run.

LEAFY BRASSICAS (Crop Subgroup 5B), TURNIP GREENS (continued)

Foliar

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Aphids Armyworms Corn Earworm Cutworms Crickets Cucumber Beetles Diamondback Moth Flea Beetles Grasshoppers Ground Beetles Imported Cabbageworm Japanese Beetle (adult) Leafhoppers Loopers Saltmarsh Caterpillar Stink Bugs Tobacco Budworm Thrips Whitefly Wireworm (adults)	2.8 – 8.5	0.033 – 0.1	<p>Thorough coverage is necessary to attain acceptable control. Make application at the onset of infestation reaching locally determined economic thresholds.</p> <p>Apply in a minimum of 2 gallons of finished spray per acre by air or in a minimum of 10 gallons per acre with ground equipment. When applying by air, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray. Thorough coverage is essential to achieve control.</p>
Banks Grass Mite Carmine Mite Lygus species Pacific Spider Mite Twospotted Spider Mite	6.8 – 8.5	0.08 – 0.1	
<p>Foliar Restrictions:</p> <ul style="list-style-type: none"> • DO NOT make applications less than 7 days apart. • DO NOT apply within 7 days of harvest. 			

Leafy Brassica (Crop Subgroup 5B) and Turnip Greens Restrictions:

- **DO NOT** apply more than 0.4 lb ai/A per season including at-plant, PPI, PRE, and foliar applications of Lancer® LFR Soil Insecticide and other bifenthrin containing products.

LEAFY PETIOLE VEGETABLES (Crop Subgroup 4B)

Celery, Cardoon, Chinese celery, Celtuce, Florence fennel, Rhubarb, Swiss chard

At-Plant

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Lettuce Root Aphid Garden Symphlans Cutworm spp.	3.4 – 8.5	0.04 – 0.1	Apply as a 5 to 7 inch band (T-band) over an open furrow, or in-furrow with the seed. May be applied through transplant water at time of transplanting.

PPI & PRE

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Army cutworm Armyworm species Cutworm species Flea beetle larvae Grubs True Armyworm Wireworm True armyworm	PRE 3.4 – 8.5	PRE 0.04 – 0.1	Lancer® LFR Soil Insecticide can be tank mixed and applied with labeled PRE pesticides.
	PPI 8.5	PPI 0.1	Lancer® LFR Soil Insecticide can be tank mixed and applied with PPI labeled pesticides. DO NOT incorporate Lancer® LFR Soil Insecticide any deeper than the intended planting depth. Incorporate at a depth close to the intended depth.

Foliar

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Aphids Armyworms Corn Earworm Crickets Cucumber Beetles Cutworms Diamondback Moth Flea Beetles Ground Beetles Imported Cabbageworm Leafhoppers Loopers Saltmarsh Caterpillar Stink Bugs Thrips Tobacco Budworm Whitefly Wireworm (adults)	3.4 – 8.5	0.04 - 0.1	Thorough coverage is necessary to attain acceptable control. Make application at the onset of infestation reaching locally determined economic thresholds. Apply in a minimum of 2 gallons of finished spray per acre by air or in a minimum of 10 gallons of finished spray per acre with ground equipment. When applying by air, 1 to 2 quarts of emulsified oil may be substituted for 1 to 2 quarts of water in the finished spray. Thorough coverage is essential to achieve control.
Banks Grass Mite Carmine Mite Lygus species Pacific Spider Mite Twospotted Spider Mite	6.8 - 8.5	0.08 - 0.1	

Foliar Restrictions:

- **DO NOT** make applications less than 7 days apart.
- **DO NOT** apply within 7 days of harvest.

Leafy Petiole Restrictions:

- **DO NOT** apply more than 0.5 lb. active ingredient per acre per season including at-plant, PPI, PRE and foliar applications of Lancer® LFR Soil Insecticide and other bifenthrin containing products.

MAYHAW

PPI & PRE

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
White Grub Wireworm	PRE 8.5	PRE 0.1	Lancer® LFR Soil Insecticide can be tank mixed and applied with labeled PRE pesticides
	PPI 8.5	PPI 0.1	Lancer® LFR Soil Insecticide can be tank mixed and applied with PPI pesticides labeled for site preparation. DO NOT incorporate Lancer® LFR Soil Insecticide any deeper than the intended planting depth. Incorporate at a depth close to the intended depth.

Foliar

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Plum Curculio	6.8 – 8.5	0.08 - 0.1	Apply foliar treatments in at least 28 gallons per acre

Foliar Restrictions:

- Apply no more than once every 7 days.
- **DO NOT** apply within 30 days of harvest

Mayhaw Restrictions:

- **DO NOT** apply more than 0.2 lb ai per acre per season including at-plant, PRE, PPI and foliar applications of Lancer® LFR Soil Insecticide and other bifenthrin containing products.

OKRA

At-Plant

PEST	USE RATES			DIRECTIONS
	Fluid oz/acre	Fluid oz/ 1000 Linear ft.	LBS ai/acre	
Armyworm Cutworm spp Flea beetle larvae Grape colaspis Root maggot Wireworm White Grub	3.4 – 6.8	0.2 – 0.39	0.04 – 0.08	Apply as a 5 to 7 inch band over the row on the soil surface, a 5 to 7 inch band over the open furrow (T-band), in-furrow with the seed, or broadcast to the soil surface.

At-Plant Restrictions:

DO NOT apply more than 0.1 lb ai/A per season as an at-plant application

PPI & PRE

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Cutworm spp	PRE 3.4 – 8.5	PRE 0.04 – 0.1	Lancer® LFR Soil Insecticide can be tank mixed and applied with PPI or PRE herbicides. DO NOT incorporate Lancer® LFR Soil Insecticide any deeper than the intended planting depth and no deeper than 3 inches. Incorporate at a depth close to the intended seed planting depth.
Cutworm species Flea beetle larvae Wireworm White Grub Grape colaspis Root maggot	PPI 3.4-8.5	PPI 0.04 to 0.1	

OKRA (continued)

Foliar

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Aphids Armyworms Corn earworm Cucumber Beetles Cutworms European Corn Borer Flea Beetles Japanese Beetle (Adult) Leafminers Loopers Stink bugs Thrips Whitefly	2.8 – 8.5	0.033 - 0.1	Apply as needed using sufficient water to obtain uniform coverage. Apply with ground equipment using a minimum of 10 gallons of finished spray per acre or a minimum of 2 gallons per acre by aircraft.
Broad Mite Carmine Mite Lygus species Twospotted Spider Mite	6.8 – 8.5	0.08 - 0.1	
Foliar Restrictions: <ul style="list-style-type: none"> • DO NOT make applications less than 7 days apart. • DO NOT apply within 7 days of harvest. 			

Okra Restrictions:

- **DO NOT** apply more than 0.2 lb ai/A per season including At-Plant, PRE & PPI, and Foliar applications of Lancer® LFR Soil Insecticide and other bifenthrin products.

PEANUT

At-Plant

PEST	USE RATES			DIRECTIONS
	Fluid oz/acre	Fluid oz/1000 Linear ft.	LBS ai/acre	
Thrips, Leafhoppers, Aphids, and Wireworms	6.8 – 8.5	0.39 – 0.49	0.08 – 0.1	Apply as a 5 to 7 inch band (T-band) over an open furrow, or in-furrow with the seed.

Foliar

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Beet Armyworm Corn Earworm Cutworm species Fall Armyworm Grasshoppers Green Cloverworm Leafhoppers Lesser Cornstalk borer Loopers Rednecked peanut worm Southern Armyworm Southern Corn Rootworm Stink Bugs Threecornered alfalfa hopper Velvetbean caterpillar Yellowstriped armyworm	2.8 – 8.5	0.033 – 0.1	Apply in a minimum of 10 gallons per acre with ground equipment or 2 gallon per acre by air craft
Aphids Spider Mites Thrips Whitefly	6.8 – 8.5	0.08 - 0.1	

Foliar Restrictions:

- **DO NOT** make applications less than 14 days apart
- **DO NOT** apply within 14 days of harvest.
- **DO NOT** feed green immature plants and peanut hay to livestock.

Peanut Restrictions:

- **DO NOT** apply more than 0.5 lb ai per acre per season including at-plant, PPI, PRE and foliar applications of Lancer® LFR Soil Insecticide and other bifenthrin containing products.

PEARS

Foliar

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Aphids Codling Moth Cutworms Green Fruitworm Leafhoppers Leafminers Leafrollers Lygus species Plant Bugs Plum Curculio San Jose Scale (Crawlers) Stink Bugs Tarnished Plant Bugs	3.4 – 17.1	0.04 - 0.2	<p>Application by ground: Apply as a dilute (minimum of 200 gallons of finished spray per acre) or concentrate (minimum of 50 gallons of finished spray per acre) spray in sufficient water to provide thorough coverage.</p> <p>Application by air: Apply the specified dosage in a minimum of 10 gallons per acre by air.</p>
Twospotted Spider mite Yellow Mite	5.1 – 17.1	0.06 - 0.2	
European Red Mite	6.8 – 17.1	0.08 - 0.2	
<p>Foliar Restrictions:</p> <ul style="list-style-type: none"> • DO NOT make applications less than 30 days apart. • Apply up to 14 days prior to harvest. • DO NOT graze livestock in treated orchards or cut treated cover crops for feed 			

Pear Restrictions:

- **DO NOT** apply more than 0.5 LBS active per acre per season including at-plant, PRE, PPI and foliar applications of Lancer® LFR Soil Insecticide and other bifenthrin containing products with no more than 0.45 LBS ai per acre applied after petal fall.

PEPPERS (BELL and NON-BELL) & PEPINO

At-Plant

PEST	USE RATES			DIRECTIONS
	Fluid oz/acre	Fluid oz/ 1000 Linear ft.	LBS ai/acre	
Army Cutworm Armyworm species Cutworm species Flea beetle larvae Grubs Pepper maggot Root aphid Root maggot Stalk borer True armyworm Wireworm	3.4 – 6.8	0.2 – 0.39	0.04 – 0.08	<p>Apply as a 5 to 7 inch band over the row on the soil surface, a 5 to 7 inch band over the open furrow (T-band), or in-furrow with the transplant or seed. May be applied through transplant water at time of transplanting.</p> <p>Apply broadcast over the soil surface for control of Army cutworm, Cutworm species, True armyworm, Armyworm species, or Stalk Borer.</p>
<p>At Plant Restrictions:</p> <ul style="list-style-type: none"> • DO NOT apply more than 0.1 lb ai/A per season as an at-plant application 				

PPI & PRE

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Army cutworm Armyworm species Cutworm species Flea beetle larvae Grubs True Armyworm Wireworm True armyworm	<p>PRE 8.5</p> <p>PPI 3.4 – 8.5</p>	<p>PRE 0.1</p> <p>PPI 0.04 – 0.1</p>	<p>Lancer® LFR Soil Insecticide can be tank mixed and applied with PRE pesticides</p> <p>Post Plant Soil Applied: Apply through drip or drip tape. Apply when soil is moist towards the end of the irrigation run.</p> <p>Lancer® LFR Soil Insecticide can be tank mixed and applied with PPI labeled pesticides. DO NOT incorporate Lancer® LFR Soil Insecticide any deeper than the intended planting depth. Incorporate at a depth close to the intended depth.</p> <p>Post Plant Soil Applied: Apply through drip or drip tape. Apply when soil is moist towards the end of the irrigation run.</p>

PEPPERS (BELL and NON-BELL) & PEPINO *(continued)*

Foliar

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Armyworms (Including Beet) Armyworm Fall Armyworm Southern Cabbage Looper Colorado Potato Beetle Corn Earworm Cucumber Beetle Cutworms European Corn Borer Flea Beetle Leafminers Loopers Pepper weevil Plant Bug Stink Bug Thrips Tomato Hornworm Tomato Pinworm Vegetable Leafminer Whitefly Yellowstriped Armyworm	2.8 – 8.5	0.033 - 0.1	Thorough coverage is necessary to attain acceptable control. Make application at the onset of infestation reaching locally determined economic thresholds. Apply in a minimum of 2 gallons of finished spray per acre by air or in a minimum of 10 gallons per acre with ground equipment. When applying by air, 1 to 2 quarts of emulsified oil may be substituted for 1 to 2 quarts of water in the finished spray. Thorough coverage is essential to achieve control.
Broad Mite Carmine Mite Lygus species Pacific Spider Mite Twospotted Spider Mite	6.8 – 8.5	0.08 - 0.1	
Foliar Restrictions: <ul style="list-style-type: none"> • DO NOT make applications less than 7 days apart. • DO NOT apply within 7 days of harvest. 			

Pepper (Bell and Non-Bell) Restrictions:

- **DO NOT** apply more than 0.2 lb ai/A per season including at-plant, PPI, PRE and foliar applications of Lancer® LFR Soil Insecticide and other bifenthrin containing products.

ROOT CROPS (Except Sugar Beets and Garden Beets) (Crop Subgroup 1B)

Burdock Edible, Carrot, Celериac, Chervil Turnip Rooted, Chicory, Garden Beet, Ginseng, Horseradish, Turnip Rooted Parsley, Parsnip, Radish, Radish Oriental, Rutabaga, Salsify, Salsify Black, Salsify Spanish, Skirret, and Turnip.

At-Plant

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Crown and Root Aphids Flea Beetles Cutworms Seedcorn and Root Maggots Wireworms	8.5	0.1	Apply as a 5 to 7 inch band (T-band) over an open furrow, or in-furrow with the seed. May be applied through transplant water at time of transplanting.

PPI & PRE

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Crown and Root Aphids Flea Beetles Cutworms	PRE 8.5	PRE 0.1	Lancer® LFR Soil Insecticide can be tank mixed and applied with PRE pesticides.
Seedcorn and Root Maggots Wireworms	PPI 8.5	PPI 0.1	Lancer® LFR Soil Insecticide can be tank mixed and applied with PPI labeled herbicides. DO NOT incorporate Lancer® LFR Soil Insecticide any deeper than the intended planting depth. Incorporate at a depth close to the intended depth.

Foliar

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Aphids Beet Armyworm Celery Leaf Tier Corn Earworm Cross Striped Cabbageworm Cutworms Diamondback Moth European Corn Borer Fall Armyworm Fire Ants Flea Beetles Green Cloverworm Hornworms Imported Cabbageworm Loopers Southern Armyworm Spider Mites Tobacco Budworm Velvetbean Caterpillar Whitefly Yellowstriped Armyworm	6.8 – 8.5	0.08 - 0.1	Thorough coverage is necessary to attain acceptable control. Make application at the onset of infestation reaching locally determined economic thresholds. Apply foliar treatments in at least 25 gallons per acre.

Foliar Restrictions:

- **DO NOT** make applications less than 7 days apart.
- **DO NOT** apply within 21 days of harvest.

Root Crops Restrictions:

- **DO NOT** apply more than 0.5 lb ai per acre per season including at-plant, PRE, PPI and foliar applications of Lancer® LFR Soil Insecticide and other bifenthrin containing products.

GARDEN BEETS

At-Plant

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Crown and Root Aphids Flea Beetles Cutworms Seedcorn and Root Maggots Wireworms	8.5	0.1	Apply as a 5 to 7 inch band (T-band) over an open furrow, or in-furrow with the seed. May be applied through transplant water at time of transplanting.

PPI & PRE

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Crown and Root Aphids Flea Beetles Cutworms Seedcorn and Root Maggots Wireworms	PRE 8.5	PRE 0.1	Lancer® LFR Soil Insecticide can be tank mixed and applied with PRE pesticides
	PPI 8.5	PPI 0.1	Lancer® LFR Soil Insecticide can be tank mixed and applied with PPI labeled herbicides. DO NOT incorporate Lancer® LFR Soil Insecticide any deeper than the intended planting depth. Incorporate at a depth close to the intended depth.

Foliar

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Garden Beet Pests Only Aphids Fire Ants Flea Beetles Lepidopterous Larvae Spider Mites Whitefly	6.8 – 8.5	0.08 - 0.1	Thorough coverage is necessary to attain acceptable control. Make application at the onset of infestation reaching locally determined economic thresholds. Apply foliar treatments in at least 25 gallons per acre.

Foliar Restrictions:

- **DO NOT** make applications less than 7 days apart
- **DO NOT** apply within 1 day of harvest

Garden Beets Restrictions:

- **DO NOT** apply more than 0.4 lb ai per acre per season including at-plant, PRE, PPI and foliar applications of Lancer® LFR Soil Insecticide and other bifenthrin containing products.

Grass Forage, Fodder, and Hay Group and Grass Grown for Seed, Pasture and Rangeland

bahiagrass, barnyardgrass, bentgrass, Bermudagrass, Kentucky bluegrass, big bluestem, smooth bromegrass, buffalograss, reed canarygrass, centipedegrass, crabgrass, cupgrass, dallisgrass, sand dropseed, Kentucky fescue, meadow foxtail, eastern gramagrass, side-oats grama, guinea grass, Indian grass, Johnsongrass, lovegrass, napiergrass, oatgrass, orchardgrass, pangolagrass, paspalum, redbud, Italian ryegrass, St. Augustine grass, sprangletop, squirreltailgrass, stargrass, switchgrass, timothy, crested wheatgrass, wildrye grass and zoysia grass. Also included are sudangrass and sorghum forages and their hybrids.

NOTE: Use on grasses is limited to the States of Idaho, Oregon, and Washington.

At-Plant

PEST	USE RATES			DIRECTIONS
	Fluid oz/acre	Fluid oz/ 1000 Linear ft.	LBS ai/acre	
Army cutworm Armyworm species Cutworm species Grape colaspis Grubs Root maggot True armyworm Wireworm	8.5	0.39	0.1	Apply as a 5 to 7 inch band over the row on the soil surface, a 5 to 7 inch band over the open furrow (T-band), or in-furrow with the seed. Apply broadcast over the soil surface for control of Army cutworm, Cutworm species, True armyworm, or Armyworm species. Apply in a minimum of 5 gallons per acre when applied as an in-furrow or T-band application.

Grass Forage, Fodder, and Hay Group and Grass Grown for Seed, Pasture and Rangeland (continued)

PPI & PRE

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Army cutworm Armyworm species Cutworm species	PRE 8.5	PRE 0.1	Lancer® LFR Soil Insecticide can be tank mixed and applied with PRE herbicides Apply in a minimum of 10 gallons per acre.
Grape colaspis Grubs Root maggot True armyworm Wireworm (PPI only)	PPI 8.5	PPI 0.1	Lancer® LFR Soil Insecticide can be tank mixed and applied with PPI herbicides. DO NOT incorporate Lancer® LFR Soil Insecticide any deeper than the intended planting depth and no deeper than 3 inches. Incorporate at a depth close to the intended seed planting depth. Apply in a minimum of 10 gallons per acre.

Foliar

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Alfalfa Caterpillar Alfalfa Looper Alfalfa Weevil Banks Grass Mite Blue Alfalfa Aphid ¹ Carmine Mite Cutworms Egyptian Alfalfa Weevil (larvae & adult) Flea Beetles Green Cloverworm Green Peach Aphid ¹ Hornworms Lygus species Meadow Spittlebug Pea Aphid ¹ Potato Leafhopper Spotted Alfalfa Aphid ¹ Threecornered Alfalfa Hopper Velvetbean Caterpillar Webworms Armyworm, southern Armyworm, true Armyworm, yellowstriped Ant spp. Cereal Leaf Beetle Chinch Bug Cricket Grass Mealybug Grasshoppers Range caterpillar Stink Bugs Armyworm, fall Black Grass Bug Hunting Bill Bug Plant Bug spp.	8.5	0.1	Apply as insects appear in sufficient volume of water to ensure thorough coverage of foliage. Use higher labeled dosage for increased pest pressure or for increased residual pest control. Do not exceed maximum allowable rate. Apply in a minimum of 2 gallons finished spray per acre by air or in a minimum of 10 gallons per acre with ground equipment. Higher volumes of finished spray may improve insect control under high temperatures, when foliage is dense and/or when insect pressure is high.

¹Aphid control may be variable depending on species present and host-plant relationships

Foliar Restrictions:

- **DO NOT** apply within 30 days of harvest for forage and hay
- **DO NOT** make applications less than 14 days apart

Grass Forage, Fodder, Hay Group and Grass Grown for Seed, Pasture, and Rangeland Restrictions:

- **DO NOT** apply more than 0.2 lb. active ingredient to Grass Forage, Fodder, and Hay Group and Grass Grown for Seed, Pasture and Rangeland including At-Plant, PRE & PPI, and Foliar applications of Lancer® LFR Soil Insecticide and other bifenthrin containing products.

SOYBEANS

At-Plant

PEST	USE RATES			DIRECTIONS
	Fluid oz/acre	Fluid oz/1000 Linear ft.	LBS ai/acre	
Rootworm larvae	6.8 – 8.5	0.39 – 0.49	0.08 – 0.1	Apply as a 5 to 7 inch band over the row on the soil surface, a 5 to 7 inch band over the open furrow (T-band), or in-furrow with the seed.
Army cutworm Armyworm species Cutworm species Grape colaspis Grubs Root maggot Seed corn beetle Seedcorn maggot True armyworm Wireworm Bean Leaf Beetle Larvae	3.4 – 6.8	0.2 – 0.39	0.04 – 0.08	Apply broadcast over the soil surface for control of Army cutworm, Cutworm species, True armyworm, or Armyworm species.

At Plant Restrictions:

- **DO NOT** apply more than 0.1 lb ai/A per season as an at-plant application

PPI & PRE

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Armyworm species Black Cutworm	PRE 3.4	PRE 0.04	Lancer® LFR can be tank mixed and applied with PRE herbicides.
Armyworm species Black Cutworm Seed corn beetle Stalkborer Bean leaf Beetle Larvae Seed corn Maggot White Grub Wireworm Seedcorn Maggot	PPI 4 - 5.3	PPI 0.047 - 0.062	Lancer® LFR Soil Insecticide can be tank mixed and applied with PPI herbicides. DO NOT incorporate Lancer® LFR Soil Insecticide any deeper than the intended planting depth and no deeper than 3 inches. Incorporate at a depth close to the intended seed planting depth.

SOYBEANS (continued)

Foliar

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Alfalfa Caterpillar Aphids Armyworms Bean Leaf Beetle Blister Beetle species Corn Earworm Corn Rootworm Adult Cowpea Curculio Cucumber Beetle Adult Cutworms Dectes Stem Borer European Corn Borer False Cinch Bug Flea Beetle Grasshoppers Green cloverworm Hornworms Imported Cabbageworm Japanese Beetle Adult Leaf Skeletonizer species Leafhoppers Leafminers Adults Lesser Cornstalk Borer Loopers Kudzu Bug Mexican Bean Beetle Painted Lady (Thistle) Caterpillar Pea Leaf Weevil Saltmarsh Caterpillar Seedcorn Maggot Adult Silverspotted Skipper Spittlebug Stink Bug Three Cornered Alfalfa Hopper Thrips Tobacco Budworm Velvetbean Caterpillar Webworm Woollybear Caterpillar	2.8 – 8.5	0.033 - 0.1	Apply in a minimum of 10 gallons per acre with ground equipment or 2 gallon per acre by aircraft. Pyrethroid resistance is common for Beet Armyworm and Tobacco Budworm. Please consult your local or state agricultural authority to determine if resistant pest populations are in your area. If so, refer to the resistance management statement in the DIRECTIONS FOR USE section of this label.
Lygus species Whitefly Twospotted spider mite	6.8 – 8.5	0.08 - 0.1	

Foliar Restrictions:

- **DO NOT** make applications less than 30 days apart
- **DO NOT** apply within 18 days of harvest.

Soybean Restrictions:

- **DO NOT** apply more than 0.3 lb ai/A per season including At-Plant, PRE & PPI, and Foliar applications of this and other bifenthrin products.

SPINACH

At Plant

PEST	USE RATES			DIRECTIONS
	Fluid oz/acre	Fluid oz/1000 Linear ft.	LBS ai/acre	
Rootworm larvae Garden Symphylans	6.8– 8.5	0.39 – 0.49	0.08 – 0.1	Apply as a 5 to 7 inch band over the row on the soil surface, a 5 to 7 inch band over the open furrow (T-band), or in-furrow with the seed.
Army cutworm Armyworm species Cutworm species Grubs Root maggot Seedcorn maggot True armyworm Wireworm	3.4 – 6.8	0.2 – 0.39	0.04 – 0.08	Apply broadcast to the soil surface for control of Army cutworm, Cutworm species, True armyworm, or Armyworm species.
At Plant Restrictions:				
<ul style="list-style-type: none"> DO NOT apply more than 0.1 lb ai/A per season as an at-plant application 				

PPI

PEST	USE RATES	
	Fluid oz/acre	LBS ai/acre
Seed Corn Maggot Wireworms Garden Symphylans	PPI 3.4 – 6.8	PPI 0.04 – 0.08

Foliar

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Armyworms Colorado Potato Beetle Corn earworm Cucumber Beetles Cutworms European Corn Borer Flea Beetles Leafminers Loopers Pepper Weevil Tomato Hornworm Tomato Pinworm Thrips Whitefly	2.8 – 8.5	0.033 to 0.1	For control of whiteflies, apply foliar treatments of Lancer® LFR Soil Insecticide by ground or air at rates of up to 0.1 lb active per acre at minimum 7 day intervals up to a maximum of 4 applications. Do not apply within 40 days of harvest. For control of fire ants apply Lancer® LFR Soil Insecticide to the soil (at planting) or as a foliar treatment by ground or air at rates of up to 0.1 lb active per acre at minimum 7 day intervals up to a maximum of 4 applications. Apply the specified dosage in 5-50 gallons of finished spray per acre by air or 10-50 gallons finished spray per acre by ground.
Banks Grass Mite Broad Mite Carmine Mite Fire Ants Lygus species Pacific Spider Mite Twospotted spider mite	6.8 – 8.5	0.08 to 0.1	
Foliar Restrictions:			
<ul style="list-style-type: none"> DO NOT make applications less than 7 days apart. DO NOT apply within 40 days of harvest 			

Spinach Restrictions:

- DO NOT apply more than 0.4 lb ai/A per season including At-Plant, PRE & PPI, and Foliar applications of this and other bifenthrin products.

SUCCULENT PEAS AND BEANS (Crop Subgroups 6A and 6B)

Pea (*Pisum* spp.): Dwarf pea, Edible-pod pea, English pea, Garden pea, Green pea, Snow pea, Sugar snap pea, Pigeon pea; Bean (*Phaseolus* spp.): Broadbean (succulent), Lima bean (green), Runner bean, Snap bean, Wax bean; Bean, (*Vigna* spp.): Asparagus bean, Blackeyed pea, Chinese longbean, Cowpea, Moth bean, Southern pea, Yardlong bean, Jackbean, Soybean (immature seed), Sword bean, purple hulled pea.

At Plant:

PEST	USE RATES			DIRECTIONS
	Fluid oz/acre	Fluid oz/1000 Linear ft.	LBS ai/acre	
Rootworm larvae	6.8 – 8.5	0.39 – 0.49	0.08 – 0.1	Apply as a 5 to 7 inch band over the row on the soil surface, a 5 to 7 inch band over the open furrow (T-band), or in-furrow with the seed.
Army cutworm Armyworm species Cutworm species Grape colaspis Grubs Root maggot Seedcorn maggot True armyworm Wireworm	3.4 – 6.8	0.2 – 0.39	0.04 – 0.08	Apply broadcast over the soil surface for control of Army cutworm, Cutworm species, True armyworm, or Armyworm species.
At Plant Restrictions:				
<ul style="list-style-type: none"> • DO NOT apply more than 0.1 lb ai/A per season as an at-plant application 				

PPI & PRE

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Army cutworm Armyworm species Cutworm species Grape colaspis Grubs Root maggot True armyworm Wireworm (PPI only)	PRE 6.8 – 8.5	PRE 0.08 – 0.1	Lancer® LFR Soil Insecticide can be tank mixed and applied with PRE herbicides. Post Plant Soil Applied: Apply through drip or Drip Tape. Apply when soil is moist towards the end of the irrigation run.
	PPI 6.8 – 8.5	PPI 0.08 – 0.1	Lancer® LFR Soil Insecticide can be tank mixed and applied with PPI herbicides. DO NOT incorporate Lancer® LFR Soil Insecticide any deeper than the intended planting depth and no deeper than 3 inches. Incorporate at a depth close to the intended seed planting depth. Apply in a minimum of 10 gallons per acre. Post Plant Soil Applied: Apply through drip or Drip tape. Apply when soil is moist towards the end of the irrigation run.

SUCCULENT PEAS AND BEANS (Crop Subgroups 6A and 6B) (continued)

Foliar

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Aster Flea Beetle Leafhopper	2.1 – 8.5	0.025 - 0.1	Apply in a minimum of 2 gallons finished spray per acre by air or in a minimum of 10 gallons per acre with ground equipment. When applying by air, 1–2 quarts of emulsified oil may be substituted for 1–2 quarts of water in the finished spray. Thorough coverage is essential to achieve control. Make application at the onset of infestation reaching locally determined economic threshold.
Adult Sap Beetle Alfalfa Caterpillar Aphids Armyworm, Beet Armyworm, Fall Armyworm, Southern Armyworm, Yellowstriped Bean Leaf Beetle Cloverworm Corn earworm Corn Rootworm Adult Cucumber Beetle Cutworms European Corn Borer Grasshoppers Japanese Beetle Loopers Pea Leaf Weevil Pea Weevil Plant Bug Stink Bugs Tarnished Plant Bug Thrips Webworms Western Bean Cutworm Whitefly	2.8 – 8.5	0.033 - 0.1	
Banks Grass Mite Carmine Mite Lygus species Twospotted spider mite	6.8 – 8.5	0.08 to 0.1	
<p>Foliar Restrictions:</p> <ul style="list-style-type: none"> • Do not apply within 3 days of harvest. • Do not make applications less than 3 days apart 			

Succulent Peas and Beans (Crop Subgroups 6A and 6B) Restrictions:

- **DO NOT** apply more than 0.2 lb ai/A per season including At-Plant, PRE & PPI, and Foliar applications of Lancer® LFR Soil Insecticide and other bifenthrin containing products.

TOBACCO

Pre-Transplant & At-Transplant

PEST	USE RATES			DIRECTIONS
	Fluid oz/acre	Fluid oz/ 1000 Linear ft.	LBS ai/acre	
Armyworm species Cutworm species Flea beetle larvae Mole cricket Stalkborer White grubs Wireworm	3.4 – 8.5	0.2 - 0.49	0.04 - 0.1	Pre-transplant soil applications: Use of suitable equipment to incorporate into top 4” of the soil is required to control below ground pests. At-transplant water treatment application: Apply 0.0625 to 0.1 LBS ai/A in a water treatment application volume of 10 to 200 gal/A. May be tank mixed with Command, Spartan, and other herbicides approved for tobacco use.

Pre-Transplant & At-Transplant Restrictions:

- **DO NOT** apply later than layby

Foliar

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Aphid spp.* Armyworm spp. Chinch Bugs Cutworm spp. Flea Beetle (Adults) Grasshoppers Green Bugs Japanese Beetles Stink Bugs Thrips Whiteflies Tarnished plant bugs	3.4 – 8.5	0.04 - 0.1	Apply 0.04 to 0.10 lb ai/A per foliar application up to, and including, layby in a minimum of 10 gal/A. May be tank mixed with Command, Spartan and other herbicides approved for tobacco use. *See resistance statement under “Directions for Use” section.
Hornworm Tobacco Budworm	6.8 - 8.5	0.08- 0.1	
Spider mites Lygus spp.	8.5	0.1	

Foliar Restrictions:

- **DO NOT** make more than 2 foliar applications per season.
- **DO NOT** apply later than layby.

Tobacco Restrictions:

- **DO NOT** apply more than 0.2 lb ai/A per season including at-plant, PRE, PPI and foliar applications of Lancer® LFR Soil Insecticide and other bifenthrin containing products.

TOMATOES, TOMATILLOS, & GROUNDCHERRIES

At-Plant

PEST	USE RATES			DISCOVER
	Fluid oz/acre	Fluid oz/ 1000 Linear ft.	LBS ai/acre	
Army cutworm Armyworm species Cutworm species Flea beetle larvae Grubs Root maggot Stalkborer True armyworm Wireworm	3.4 - 6.8	0.2 - 0.39	0.04 - 0.08	Apply as a 5 to 7 inch band over the row on the soil surface, a 5 to 7 inch band over the open furrow (T-band), or in-furrow with the transport or seed. May be applied through transplant water at time of transplanting. Apply broadcast to the soil surface for control of Army cutworm, Cutworm species, True armyworm, Armyworm species, or Stalkborer.

At Plant Restrictions:

- **DO NOT** apply more than 0.1 lb ai/A per season as an at-plant application

TOMATOES, TOMATILLOS, & GROUNDCHERRIES (continued)

PPI & PRE

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Army cutworm Armyworm species Cutworm species Flea beetle larvae Garden symphylans	PRE 6.8	PRE 0.08	Lancer® LFR Soil Insecticide can be tank mixed and applied with PRE herbicides. Post Plant Soil Applied: Apply through drip or Drip Tape. Apply when soil is moist towards the end of the irrigation run.
Grubs True Armyworm Wireworm True armyworm	PPI 3.4 – 6.8	PPI 0.04 – 0.08	Lancer® LFR Soil Insecticide can be tank mixed and applied with PPI labeled herbicides. DO NOT incorporate Lancer® LFR Soil Insecticide any deeper than the intended planting depth. Incorporate at a depth close to the intended depth. Post Plant Soil Applied: Apply through drip or Drip Tape. Apply when soil is moist towards the end of the irrigation run.

Foliar

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Aphids Armyworms (including Beet) Armyworm, Fall Armyworm, Southern Bean Leaf Beetle Cabbageworm Carmine Mite Cloverworm Corn earworm Corn Rootworm Cucumber Beetles Cutworms Diamondback Moth European Corn Borer Flea Beetles Flea Hopper Grasshopper Japanese Beetle (Adult) Leafhoppers Loopers Lygus species Melonworm Pea Weevil Pea Leaf Weevil Pickleworm Plant Bug Rindworm Salt Marsh Caterpillar Sap Beetle Seedpod Weevil Squash Bugs Stink bug species Tobacco Budworm Tarnished Plant Bug Thrips Whitefly Yellowstriped Armyworm	2.8 – 6.8	0.033 to 0.08	Thorough coverage is necessary to attain acceptable control. Make application at the onset of infestation reaching locally determined economic levels. Apply in water. Apply the specified dosage in 5 to 50 gallons of finished spray per acre by air or 10 to 50 gallons of finished spray per acre by ground. Thorough coverage is essential to achieve control.
Twospotted spider mite	6.8 – 8.5	0.08 - 0.1	

Foliar Restrictions:

- **DO NOT** make applications less than 10 days apart.
- **DO NOT** apply within 1 day of harvest

Tomato, Tomatillo, and Groundcherry Restrictions:

- **DO NOT** apply more than 0.40 lb ai/A per season including at-plant, PRE, PPI and foliar applications of Lancer® LFR Soil Insecticide and other bifenthrin containing products.

TREE NUTS

African nut-tree; almond; beechnut; Brazil nut; Brazilian pine; bunya; bur oak; butternut; Cajou nut; candlenut; cashew; chestnut; chinquapin; coconut; coquito nut; dika nut; ginkgo; Guiana chestnut; hazelnut (filbert); heartnut; hickory nut; Japanese horse-chestnut; macadamia nut; mongongo nut; monkey-pot; monkey puzzle nut; Okari nut; Pachira nut; peach palm nut; pecan; pequi; Pili nut; pine nut; pistachio; Sapucaia nut; tropical almond; walnut, black; walnut, English; yellowhorn; cultivars, varieties, and/or hybrids of these

Foliar

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Black Pecan Aphid Codling Moth Filbert Worm Hickory Shuckworm Leaffooted Bugs Navel Orangeworm Oblique Banded Leafroller Peach Twig Borer Pecan Leaf Casebearer Pecan Nut Casebearer Pecan Phylloxera Plant Bugs Stink Bugs Walnut Aphid Yellow Pecan Aphid	4.3 – 17.1	0.05 - 0.2	Apply by ground or air equipment using sufficient water to obtain full coverage of foliage. Apply as a dilute (minimum of 200 gallons of finished spray per acre) or concentrate (minimum of 50 gallons of finished spray per acre) by ground or apply the specified amount in a minimum of 10 gallons of finished spray per acre by air
European Red Mite Pecan Weevil Spider Mite species	6.8 – 17.1	0.08 - 0.2	
Fire ants Walnut Husk Fly	8.5 – 17.1	0.1 - 0.2	
Foliar Restrictions: <ul style="list-style-type: none"> • DO NOT make applications less than 15 days apart. • DO NOT apply within 21 days of harvest for pecans and 7 days for all other registered tree nut crops. • DO NOT graze livestock in treated orchards or cut treated cover crops for feed. 			

Tree Nuts Restrictions:

- **DO NOT** apply more than 0.5 lb active ingredient (1 quart) per acre per season including at-plant, PRE, PPI and foliar applications of Lancer® LFR Soil Insecticide and other bifenthrin containing products.

TUBEROUS AND CORM VEGETABLES (Crop Subgroup 1C)

Potato, Sweet potato, Arracacha, Arrowroot, Chinese artichoke, Jerusalem artichoke, Edible canna, Cassava (bitter and sweet), Chayote (root), Chufa, Dasheen (taro), Ginger, Leren, Tanier, Tumeric, Yam bean, True yam

At-Plant

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Grape colaspis Rootworms Sweet potato flea beetle White grub Wireworms	12.75 – 25.5	0.15 – 0.3	Lancer® LFR insecticide may be applied as a soil incorporated broadcast, directed bed spray or a T-band spray into the planting furrow for the control of wireworms, sweet potato flea beetle, and white grubs. Apply Lancer® LFR Soil Insecticide at the rate of 0.15 to 0.3 LBS active ingredient (12.75 to 25.5 fluid ounces formulated) per acre in a minimum of 10 gallons per acre of spray.
At Plant Restrictions:			
<ul style="list-style-type: none"> • DO NOT apply more than 0.3 lb ai/A per season as an at-plant application. 			

Lay-By

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Grape colaspis Rootworms Wireworms White grub	12.75 – 25.5	0.15 – 0.3	Lancer® LFR insecticide may be applied as one or more soil directed and incorporated treatments at cultivation or layby for the control of wireworms and white grubs. Apply Lancer® LFR to the drill area and incorporate by cultivation equipment set to throw soil towards the drill area. Apply in a minimum of 10 gallons per acre of spray.

PPI

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Grape colaspis Rootworms Wireworms White grub	12.75 – 25.5	0.15 – 0.3	Apply Lancer® LFR to the transplant area and incorporate to planting depth. Apply Lancer® LFR Soil Insecticide in a minimum of 10 gallons per acre of spray. May be applied as a broadcast application or an incorporated band application.

Foliar

PEST	USE RATES		DIRECTIONS
	Fluid oz/acre	LBS ai/acre	
Banded Cucumber beetle Black flea beetle Corn wireworm Cucumber beetle Japanese beetle grubs June beetle Rootworms Southern potato wireworm Sugarcane beetle Sweetpotato flea beetle Sweetpotato weevil Tobacco wireworm Whitefringed beetle White grub	2.8 – 8.5	0.033 - 0.1	Apply in a minimum of 3 gallons finished spray per acre by air or in a minimum of 10 gallons per acre with ground equipment. Lancer® LFR Soil Insecticide may be applied as a foliar spray for the control of the adult life stages of flea beetles, click beetles (wireworms), cucumber beetles (rootworms), white fringed beetles and May/June beetles (white grubs).
Foliar Restrictions:			
<ul style="list-style-type: none"> • DO NOT make more than 2 foliar applications per season • DO NOT make applications less than 21 days apart. • DO NOT apply within 21 days of harvest. 			

Tuberous and Corm Vegetables (Crop Subgroup 1C) Restrictions:

- **DO NOT** apply more than 0.5 lb ai/A per season including soil, lay-by, at-plant, PPI and foliar applications of Lancer® LFR Soil Insecticide and other bifenthrin containing products.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Do not freeze. Do not store below 40° F. If crystals are observed, warm material to above 60° F by placing container in warm location. Shake or roll container periodically to redissolve solids. Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers. In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Call CHEMTREC (Transportation and Spills): (800)-424-9300. To confine spill, dike surrounding area or absorb with sand, cat litter or commercial clay. Place damaged package in a holding container. Identify contents.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. 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 of the nearest EPA Regional Office for guidance.

CONTAINER HANDLING:

[Non-refillable container (in sizes 5 gallons or less)] Do not reuse or refill this container. Triple rinse as follows: Empty the contents into application equipment or a mix tank and drain for 10 seconds after flow begins to drip. Fill container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or 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. Then offer for recycling, if available or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill.

[Non-refillable container (in sizes greater than 5 gallons)] Do not reuse or refill this container. Triple rinse or pressure rinse. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ 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 back and forth several times. Turn the container over onto its other end and tip 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.

[Returnable/Refillable Containers] Refill this container with pesticide only. Do not reuse this container for any other purpose. Do not rinse container. Do not empty remaining formulated product. Do not break seals. Return intact to point of purchase. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

DO NOT USE CONTAINERS FOR THE STORAGE OF FOOD, FEED, OR DRINKING WATER!

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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

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

ALBAUGH, LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent consistent with applicable law, this warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or ALBAUGH, LLC and Buyer and User assume the risk of any such use. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ALBAUGH, LLC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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