

# DuPont<sup>TM</sup> Lannate<sup>®</sup> LV

insecticide

## DUPONT™ LANNATE® LV HIGHLIGHTS

- LANNATE® LV insecticide is a water soluble liquid containing 2.4 lbs active ingredient per gallon.
- LANNATE® LV is a broad spectrum insecticide registered in a wide range of field, fruit and vegetable crops.
- LANNATE® LV is particularly active on many Lepidopterous pests as an ovicide, larvicide and adulticide.
- LANNATE® LV is primarily a contact insecticide giving rapid knockdown effects on insects. LANNATE® LV also provides short term effects from the ingestion of treated foliage.
- LANNATE® LV's short residual on treated crops allows for short preharvest intervals.
- Consult label text for complete instructions. Always read and follow label directions for use.

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# **RESTRICTED USE PESTICIDE**

### Due to High Acute Toxicity to Humans.

For retail sale and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification. Direct supervision for this product requires the certified applicator to review federal and supplemental label instructions with all personnel prior to application, mixing, loading, or repair or cleaning of application equipment.

GROUP

INSECTICIDE



# DuPont<sup>™</sup> Lannate<sup>®</sup> LV

1A

# insecticide

# Water Soluble Liquid

Contains 2.4 lbs active ingredient per gallon.

Active Ingredient	By Weight
Methomyl	
(S-methyl-N-[(methylcarbamoyl)	
oxy]thioacetimidate)	29%
Other Ingredients	71%
TOTAL	100%

EPA Reg. No. 352-384 EPA Est. No. \_\_\_\_\_

# KEEP OUT OF REACH OF CHILDREN





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

# FIRST AID

This Product is an N-Methyl Carbamate insecticide.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. **IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.

#### ATROPINE IS AN ANTIDOTE --SEEK MEDICAL ATTENTION AT ONCE IN ALL CASES OF SUSPECTED POISONING.

If poisoning symptoms appear (see POISONING SYMPTOMS), get medical attention.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-441-3637 for emergency medical treatment information.

# PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER!** FATAL IF SWALLOWED, CONTAINS METHANOL; MAY CAUSE BLINDNESS. CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE.

Do not get in eyes, or on clothing. Wear protective eyewear. Harmful if inhaled or absorbed through skin. Avoid contact with skin or breathing spray mist. Wash hands thoroughly with soap and water after handling.

> ("PRECAUTIONARY STATEMENTS" Continued on next page)

#### PRECAUTIONARY STATEMENTS(continued) HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**POISONING SYMPTOMS** — Methomyl poisoning produces effects associated with anticholinesterase activity which may include weakness, blurred vision, headache, nausea, abdominal cramps, discomfort in the chest, constriction of pupils, sweating, slow pulse, muscle tremors. If poisoning symptoms appear, refer to First Aid section on front panel of DuPont<sup>TM</sup> LANNATE® LV label and seek medical attention at once.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

**TREATMENT** — Atropine sulfate should be used for treatment. Administer repeated doses, 1.2 to 2.0 mg. intravenously every 10 to 30 minutes until full atropinization is achieved. Maintain atropinization until the patient recovers. Artificial respiration or oxygen may be necessary. Allow no further exposure to any cholinesterase inhibitor until recovery is assured.

Do not use 2-PAM for exposure to LANNATE® LV alone. However, for exposure to combinations of LANNATE® LV and organophosphorous insecticides, 2-PAM may be used as required to supplement the atropine sulfate treatment. Do not use morphine.

For medical emergencies involving this product, call toll free 1-800-441-3637.

#### PERSONAL PROTECTIVE EQUIPMENT

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

# Applicators and others exposed to the diluted spray solution must wear:

Long-sleeved shirt and long pants.

Chemical-resistant gloves, such as barrier laminate or butyl rubber.

Shoes plus socks.

Protective eyewear.

#### Mixers, loaders, cleaners, repairers of application equipment, and others exposed to the concentrate must wear:

Long-sleeved shirt and long pants.

Chemical-resistant gloves, such as barrier laminate or butyl rubber.

Socks and chemical resistant footwear. Protective eyewear.

Chemical resistant apron.

For exposures in enclosed areas, a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or NIOSH approved respirator with an organic vapor (OV) cartridge or a canister with any R, P, or HE prefilter.

**For exposures outdoors,** Dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any R, P, or HE prefilter. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

# ENGINEERING CONTROL STATEMENTS

#### Human flaggers must be in enclosed cabs.

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

The enclosed cabs must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR part 170.240 (d)(4-6)]. The handler PPE requirements may be reduced or modified as specified in the WPS.

Pilots must not assist in the mixing and loading operations.

# USER SAFETY RECOMMENDATIONS

**USERS SHOULD:** Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## **ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish, aquatic invertebrates, and mammals. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean highwater mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

This chemical is known to leach through soil into groundwater under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This chemical can contaminate surface water through spray drift. Under some conditions, it may also have a high potential for runoff into surface water for several days to weeks after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlaying tile drainage systems that drain to surface water.

# PHYSICAL AND CHEMICAL HAZARDS

**Combustible.** Do not use or store near heat or open flame. Keep container closed. Use with adequate ventilation.

# **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). REI Summary: apple, cotton, grapefruit, lemon, nectarines, oranges, tangelo, tangerine = 3 day REI; peaches = 4 day REI; all other WPS uses = 48 hour REI.

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

Coveralls.

Chemical-resistant gloves, such as barrier laminate or butyl rubber.

Shoes plus socks.

Protective eyewear.

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

#### **GENERAL INFORMATION**

Chemigation: Overhead sprinkler chemigation is allowed for use in alfalfa, barley, succulent and dry beans, oats, onions, succulent peas, potatoes, rye, sugar beets, sweet corn and wheat. Drip chemigation is allowed for onions. See Federal Supplemental labeling for overhead sprinkler chemigation directions for use in sweet corn, succulent peas and succulent and dry beans; and for directions for use for drip chemigation in onions. Refer to supplemental, or Special Local Need (SLN) labeling or the crop specific sections of this label for use directions for chemigation. Do not apply this product through any other type of irrigation systems, except those allowed by instructions provided in a supplemental, SLN or this product label.

Do not formulate this product into other end-use products without written permission from DuPont.

DuPont<sup>TM</sup> LANNATE® LV insecticide must be used only in accordance with directions for use on this label or in separate DuPont supplemental labeling.

DuPont will not be responsible for use of the product in a manner not specified by DuPont in the product's labeling and User assumes all risk for such use. LANNATE® LV is a water soluble liquid that is applied by foliar application to control many important insect pests. LANNATE® LV is mixed with water for application.

Pilots must not assist in the mixing and loading operations. Do not apply by ground equipment within 25 feet, or by air within 100 feet of lakes, reservoirs, rivers, estuaries, commercial fish ponds and natural, permanent streams, marshes or natural, permanent ponds. Increase the buffer zone to 450 feet from the above aquatic areas when ultra low volume application is made.

Hand-held equipment is prohibited for applications to crops. This product must be applied to crops only with mechanical ground, overhead sprinkler chemigation or aerial application equipment.

Use only in commercial and farm plantings. Not for use in home plantings. Not for use during any period after a commercial crop site is opened for public entry as a "U-Pick", "Pick Your Own" or similar operation; in no case shall preharvest applications be made after first public entry. The restricted entry interval and preharvest interval for the crop stated elsewhere on this label must be followed.

#### SCOUTING

Monitor insect populations to determine whether or not there is a need for application of LANNATE® LV based on locally determined economic thresholds. More than one treatment of LANNATE® LV may be required to control a population of pests.

#### **BENEFICIAL ARTHROPODS**

LANNATE® LV at rates of 2/5 to 3/4 pt. per acre helps conserve certain beneficials, including big-eyed bugs, damsel bugs, flower bugs and spiders in cotton and soybeans. While these beneficials cannot be relied upon to control pests, they are of potential value and should be monitored along with pests in pest management programs on these crops.

#### **RESISTANCE MANAGEMENT**

For resistance management, LANNATE® LV insecticide is a group 1A insecticide. Repeated exclusive use of LANNATE® LV or other group 1A insecticides may lead to the buildup of resistant strains of insects in some crops. Not all members of this group have been shown to be crossresistant. Different resistance mechanisms that are not linked to target site of action, such as enhanced metabolism, are common for this group of chemicals. Alternation of compounds from different sub-groups within this group may be an acceptable part of an integrated pest management program.

Some insects are known to develop resistance to products used repeatedly for control. When this occurs, the recommended dosages fail to suppress the pest population below the economic threshold. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. These strategies may include incorporation of cultural and biological control practices, alternation of mode-of-action classes of insecticides on succeeding generations and targeting the most susceptible life stage. Consult your local or state agricultural authorities for details.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternate method of control for your area. For additional information on insect resistance monitoring, visit the Insecticide Resistance Action Committee (IRAC) on the web at http://www.irac-online.org.

## INTEGRATED PEST MANAGEMENT

This product should be used as part of an Integrated Pest Management (IPM) program which can include biological, cultural, and genetic practices aimed at preventing economic pest damage. Application of this product should be based on IPM principles and practices including field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop systems in your area.

#### SPRAY PREPARATION

Spray equipment must be clean and free of previous pesticide deposits before applying DuPont<sup>™</sup> LANNATE® LV.

Fill spray tank 1/4 to 1/2 full of water. Add LANNATE® LV directly to spray tank. Mix thoroughly. Use mechanical or hydraulic means; do not use air agitation. Spray mix should not be stored overnight in spray tank.

**Compatibility** — Since formulations may be changed and new ones introduced, it is recommended that users premix a small quantity of a desired tank mix and observe for possible adverse changes (settling out, flocculation, etc.). Avoid mixtures of several materials and very concentrated spray mixtures.

Do not use LANNATE® LV with Bordeaux mixture, "Du Ter" (triphenyltin hydroxide), lime sulfur, "Rayplex" iron nor in highly alkaline solutions. Use mildly alkaline mixtures immediately after mixing to prevent loss of insecticidal activity.

**Tank Mixing Sequence** - Add different formulation types in the sequence indicated below. Allow time for complete mixing and dispersion after addition of each product.

- 1. Water soluble bags.
- 2. Water dispersible granules.
- 3. Wettable powders.
- 4. Water based suspensions concentrates.
- 5. LANNATE® LV and other water soluble concentrates.
- 6. Oil based suspension concentrates.
- 7. Emulsifiable concentrates.
- 8. Adjuvants, surfactants, oils, soluble fertilizers and drift retardants: Follow local practice and manufacturer's recommendation.

#### **APPLICATION**

Apply at the recommended rates when insect populations reach locally determined economic thresholds. Consult the cooperative extension service, professional consultants or other qualified authorities to determine appropriate threshold levels for treatment in your area.

Follow-up treatments of LANNATE® LV should be applied, as needed, to keep pest populations within threshold limits. On most crops, LANNATE® LV should be applied at 5 to 7 day intervals to maintain control. Refer to crop specific directions for use in the crop tables for more specific information on treatment intervals. Use sufficient water to obtain thorough, uniform coverage. Since LANNATE® LV is a fast acting contact insecticide, best results follow direct spraying of the target insect.

For aerial, use a minimum of 2 gals. per acre (gpa) except 10 gpa for nectarines and peaches; 15 gpa for oranges, lemons, grapefruit, tangelos and tangerines.

LANNATE® LV is recommended for use as a low volume aerial spray 0.53 gpa (2L) for cotton\* and soybeans\* and 1 gpa for the crops listed below providing the following conditions are met:

- equipment is adjusted to distribute spray uniformly over the spray swath,
- wind conditions and other factors such as temperature and humidity are such that the spray is delivered to the target area,
- local regulations do not prohibit low-volume aerial sprays,
- use rates are applied as directed on the package label or supplemental labeling for the following crops:

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Alfalfa	Celery		Peas (succulent)
Anise	Collards		Peppermint
Asparagus	Corn		Peppers
Barley	Cotton		Potato
Beans	Cucumber		Rye
Broccoli	Lettuce		Soybean
Brussels sprouts	Melons		Spinach
Cabbage	Mint		Sugar beet
Carrot	Oats		Summer Squash
Cauliflower	Peanuts		Wheat

Apply the low rates on small plants, small insects and light infestations of insects. Use intermediate rates on large insects and heavier infestations of insects. Use 1 to 3 applications of the highest recommended rate for controlling severe infestations. Thereafter, use the lowest rate possible to maintain control.

\* Not Registered for aerial application in a diluted volume of less than 1 gal in CA.

#### SPRAY TANK CLEANOUT

Immediately following application, thoroughly clean all spray equipment to reduce the risk of forming hardened deposits which might become difficult to remove.

Drain spray equipment. Thoroughly rinse sprayer and flush hoses, boom and nozzles with clean water.

Clean all other associated application equipment. Take all necessary safety precautions when cleaning equipment. Do not clean near wells, water sources or desirable vegetation. Dispose of waste rinse water in accordance with local regulations.

#### **CHEMIGATION**

Instructions for the Use of LANNATE® LV on Alfalfa, Barley, Oats, Green and Dry Bulb Onions, Potatoes, Rye, Sugar Beets and Wheat Using Overhead Sprinkler Chemigation

Overhead chemigation applications offer the advantage of greater penetration and coverage of the target plant. However, typical chemigation applications are more dilute than ground or aerial applications. For best results, it is recommended to keep the concentration of LANNATE® LV as high as possible in the application. Apply LANNATE® LV in 0.1 to 0.2 inches of water per acre.

LANNATE® LV is most active as a contact insecticide, although it does also have activity via ingestion of treated plants. For best results, applications of LANNATE® LV should take place when the insects are active and most likely to come into direct contact with the application.

#### **Types of Irrigation Systems:**

DuPont<sup>TM</sup> LANNATE® LV may be applied through overhead sprinkler irrigation systems for control of various pests. The irrigation system used must provide uniform water distribution. Do not use filter screens smaller than 50 mesh throughout the system, due to possible build up of material on 100 mesh or smaller screens. Do not apply LANNATE® LV through any other type of irrigation systems, except those allowed by instructions provided in a supplemental, SLN or this product label.

#### **General Directions for Chemigation:** Preparation

A pesticide tank is recommended for the application of LANNATE® LV in chemigation systems. Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard clean-out procedure. Dispose of any residues in accordance with State and Federal laws. Add 1/4 to 1/2 of the desired amount of water and then measure the required amount of LANNATE® LV into the tank. Complete filling the tank by adding the required amount of water. Agitate thoroughly to insure a uniform solution of LANNATE® LV. Once in solution, no further agitation is required. Injection solution should not be stored overnight. Highly alkaline water should be buffered so that the pH of the spray solution is in the range of neutral to slightly acidic (pH5-7).

#### **Injection Into Chemigation Systems**

Inject the proper amount of the LANNATE® LV solution into the irrigation water flow using a positive displacement injection pump. Injection should occur at a point in the main irrigation water flow to ensure thorough mixing with the irrigation water.

#### **Uniform Water Distribution**

The irrigation system used for application of LANNATE® LV must provide for uniform distribution of LANNATE® LV treated water. Non-uniform distribution might result in crop injury, lack of effectiveness or illegal pesticide residues in or on the crop being treated. Ensure the irrigation system is calibrated to uniformly distribute the chemigation application to the crop. Contact the equipment manufacturer, the local University Extension agent or other experts if you have questions about achieving uniform distribution of the application.

#### **Equipment calibration**

Calibrate the irrigation system and injector before applying LANNATE® LV. Calibrate the injection pump while the system is running using the expected irrigation rate. If you have questions about calibration, you should contact your state extension service specialists, equipment manufacturer or other experts.

#### **Monitoring of Chemigation Applications**

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of a responsible person, shall shut the system down and make necessary adjustments should the need arise. Wear the personal protective equipment as defined in the PPE section of the label for cleaners and repairers of application equipment when making adjustments or repairs on the chemigation system when LANNATE® LV is in the irrigation water.

#### **Required System Safety Devices**

Do not connect any irrigation system used for pesticide applications to a public water system unless the pesticide label-prescribed safety devices are in place. Public water system means a system for the provision to the public of piped water for human consumption, if such a system has at least 15 service connections or regularly serves an average of at least 25 individuals at least 60 days out of the year. 1. 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.

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

3. 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.

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

5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

6. 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.

7. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction.

There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

#### Posting of Areas to be Treated

Posting of areas to be chemigated is required when 1) any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, daycare centers, hospitals, in-patient clinics, nursing homes, or any other public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or 2) when the chemigated area is open to the public such as golf courses or retail greenhouses.

Posting must conform to all the following requirements. Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any other location affording maximum visibility to sensitive areas. The signs shall be printed in ENGLISH. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has

disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.

All words shall consist of letters at least 2 1/2 inches tall, and all letters and the symbol shall be a color, which sharply contrasts with their immediate background. At the top of the sign shall be the words "KEEP OUT", followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word "STOP". Below the symbol shall be the words "PESTICIDE IN IRRIGATED WATER". Posting for chemigation does not replace other posting and reentry requirements for farm worker safety.

#### Operation

Start the water pump and sprinkler, and let the system achieve the desired pressure and speed before starting the injector. Start the injector and calibrate the injection system according to the directions above. This procedure is necessary to deliver the desired rate per acre in a uniform manner. Apply LANNATE® LV in 0.1 to 0.2 inches of water per acre. When the application is finished, allow the entire irrigation and injector system to be thoroughly flushed clean before stopping the system.

End guns must be turned off during the application, if they irrigate nontarget areas or if they do not provide uniform application and coverage.

It is recommended that nozzles in the immediate area of control panels, chemical supply tanks, wellheads and system safety devices be plugged to prevent contamination of these areas.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Do not apply when system connections or fittings leak or when nozzles do not provide uniform distribution.

#### Cleaning the System

Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard clean-out procedure. Dispose of any residues in accordance with State and Federal laws. Consult your owner's manual or your local equipment dealer for cleanout procedures for your injection system.

#### SPRAY DRIFT MANAGEMENT

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions. The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

- 1. The distance of the outer most nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
- 2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they should be observed.

The applicator should be familiar with and take into account the information covered in the <u>Aerial Drift Reduction</u> <u>Advisory Information</u>.

# AERIAL DRIFT REDUCTION ADVISORY INFORMATION

#### Importance of Droplet Size

The most effective way to reduce drift potential is to apply large droplets (>150 - 200 microns). The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. APPLYING LARGER DROPLETS REDUCES DRIFT POTENTIAL, BUT WILL NOT PREVENT DRIFT IF APPLICATIONS ARE MADE IMPROPERLY OR UNDER UNFAVORABLE ENVIRONMENTAL CONDITIONS! See Wind, **Temperature and Humidity**, and **Temperature Inversions** sections of this label.

#### **Controlling Droplet Size - General Techniques**

- **Volume** Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure** Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.
- **Nozzle Type** Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

#### Controlling Droplet Size - Aircraft

- **Number of Nozzles** Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.
- Nozzle Orientation Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- Nozzle Type Solid stream nozzles (such as disc and core with swirl plate removed) oriented straight back produce larger droplets than other nozzle types and the lowest drift.
- **Boom Length** For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.
- **Application Height** Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.
- Swath Adjustment When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the fields, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.)

#### **BOOM HEIGHT**

Setting the boom at the lowest labeled height (if specified) which provides uniform coverage reduces the exposure of droplets to evaporation and wind. For ground equipment, the boom should remain level with the crop and have minimal bounce.

#### WIND

Drift potential is lowest between wind speeds of 3-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 3 mph due to variable wind direction and high inversion potential. AVOID GUSTY OR WINDLESS CONDITIONS.

**Note:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

#### TEMPERATURE AND HUMIDITY

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

#### **TEMPERATURE INVERSIONS**

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified 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.

#### SENSITIVE AREAS

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, nontarget crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

#### SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

#### AIR ASSISTED (AIR BLAST) FIELD CROP SPRAYERS

Air assisted field crop sprayers carry droplets to the target via a downward directed air stream. Some may reduce the potential for drift, but if a sprayer is unsuitable for the application and/or set up improperly, high drift potential can result. It is the responsibility of the applicator to determine that a sprayer is suitable for the intended application, is configured properly, and that drift is not occurring.

**Note:** Air assisted field sprayers can affect product performance by affecting spray coverage and canopy penetration. Consult the application equipment section of this label to determine if use of an air assisted sprayer is recommended.

#### AIR ASSISTED (AIR BLAST) TREE AND VINE SPRAYERS

Air assisted tree and vine sprayers carry droplets into the canopy of trees and vines via a radially or laterally directed air stream. These sprayers are not suitable for applying herbicides. In addition to the general drift management principles already described, the following specific practices will further reduce the potential for drift.:

- Adjust deflectors and aiming devices so that spray is only directed into the canopy.
- Block off upward pointed nozzles when there is no overhanging canopy.
- Use only enough air volume to penetrate the canopy and provide good coverage.
- Do not allow spray to go beyond the edge of the cultivated area. Spray the outside row only from outside the planting.

Crops	Insects	RateDuPont™LANNATE® LVPts. Per Acre	Last Application - Days To Harvest	REI
Alfalfa	Pea Aphid Lygus Bugs Blotch Leafminer Aphids Egyptian Alfalfa Weevil Larvae Loopers Beet Armyworm Armyworm Alfalfa Caterpillar Fall Armyworm Western Yellowstriped Armyworm Yellowstriped Armyworm	1 1/2 - 3	7 *	48 hrs
	Alfalfa Weevil Larvae Variegated Cutworm Do not apply to dormant or semidormant alfal Do not apply more than 12 pints of LANNAT Do not make more than 10 applications/crop. Chemigation - LANNATE® LV may be appl use the highest listed rate of LANNATE® LV "Chemigation" section for more information. * Do not apply within 7 days of cutting or allo	E® LV/acre/crop. ied by overhead sprinkler cher 7. Apply in 0.1 to 0.2 inches of	nigation. For best results,	-
Anise (Fennel)	Cabbage Looper Beet Armyworm Do not apply more than 15 pints of LANNAT Do not make more than 10 applications/crop.	3 1 1/2 - 3 E® LV/acre/crop.	7	48 hrs
<b>Apple</b> Ground application only	Apple AphidRosy Apple AphidTufted Apple BudmothGreen FruitwormTarnished Plant BugCodling Moth (10-12 day spray intervals)Leafrollers (Fruittree, Obliquebanded, Redbanded, Variegated)Lesser ApplewormWhite Apple Leafhopper Tentiform Leafminer Cutworm	1 1/2 - 3 * 		72 hrs
	Do not use on Early Macintosh & Wealthy va Do not apply more than 15 pints of LANNAT Do not make more than 5 applications/crop; n * Apply in a minimum of 50 gallons of water	'E® LV/acre /crop. ninimum interval between trea	tments is 7 days.	
Asparagus	Beet Armyworm Western Yellowstriped Armyworm Asparagus Beetle Spotted Asparagus Beetle White Cutworm Redbacked Cutworm Variegated Cutworm Do not apply more than 15 pints of LANNAT	1 1/2 - 3	1	48 hrs
Avocado	Do not make more than 8 applications/crop. Western Avocado Leafroller Omnivorous Looper Do not apply more than 3 pints of LANNATE	1 1/2 - 3 © LV/acre/crop.	1	48 hrs
Barley	Do not make more than 2 applications/crop. Armyworms Cereal Leaf Beetle* Aphids** Do not apply more than 6 pints of LANNATE Do not apply more than 4 applications/crop. Chemigation - LANNATE® LV may be appli- results, use the highest listed rate of LANNAT acre. See "Chemigation" section for more infor * Cereal leaf beetle: LANNATE® LV can pro- eggs when applied according to label directi- with the appearance of newly laid eggs or in effect. Use on this pest stage (egg) is not reg * Aphids: For aphid control, crop must be ac- adverse environmental conditions (such as, on Russian wheat aphid need to begin when	3/4 - 1 1/2 3/4 - 1 1/2 B LV/acre/crop. TE® LV. Apply in 0.1 to 0.2 in formation. wide contact ovicidal effect on ons. Application should be tin anticipation of egg hatch to a gistered in California. tively growing and not under a extreme temperatures or droug	nches of water per n cereal leaf beetle ned to correspond chieve maximum ovicidal stress from ght). Applications	48 hrs

Crops	Insects	Rate DuPont™ LANNATE® LV Pts. Per Acre	Last Application - Days To Harvest	REI
Beans (Succulent) Including:	Leafhopper Mexican Bean Beetle	3/4 - 3	Succulent Beans 3/4 - 1 1/2 pt 1,	48 hrs
Kidney beans Lima beans	Fall Armyworm Variegated Cutworm	1 1/2	over 1 1/2 pt 3; 3 Vines	
Mung beans Navy beans Pinto beans Snap beans Wax Beans Broad beans Fava beans Asparagas beans Blackeyed peas Cowpeas Chickpeas	Beet Armyworm Corn Earworm Saltmarsh Caterpillar Yellowstriped Armyworm Western Yellowstriped Armyworm Lygus Bugs Thrips Aphids Loopers * European Corn Borer (Ovicide & Larvicide)	1 1/2 - 3	7 Hay	
Garbanzo beans Sweet lupine	Initiate when moth flights first appear and-continue preventive treatments at 3-4			
White sweet lupine	day intervals to control eggs and larvae Spotted Cucumber Beetle	3/4 - 1 1/2	-	
White lupine Grain lupine	Do not apply more than 15 pints of LANNATE® Do not make more than 10 applications/crop. * Do not use for Loopers in AL & GA.	LV/acre /crop.		
Beans (Dry) (Same as Succulent Beans)	(Same as Succulent Beans)	(Same as Succulent Beans)	14 Dry Beans * 14 Vines * 14 Hay *	48 hrs
	Do not apply more than 15 pints of LANNATE® Do not make more than 10 application/crop. Do not use for Loopers in AL & GA. * Do not apply within 14 days of cutting.	LV/acre /crop.		
Beets (Table)	Imported Cabbageworm	3/4 - 3 1 1/2 - 3	0 - Roots	48 hrs
	Beet Armyworm Cabbage Looper Diamondback Moth	1 1/2 - 5	10 - Tops	
	Cucumber Beetle Variegated Cutworm	1 1/2		
	Do not apply more than 12 pints of LANNATE® Do not make more than 8 applications/crop.	LV/acre/crop.		
Bermudagrass pasture	Fall Armyworm Armyworm Striped Grass Looper	3/4 - 3	7 Forage * 3 Dehydrated Hay **	48 hrs
	Do not apply more than 3 pints of LANNATE® I Do not make more than 4 applications/crop. * Do not apply within 7 days of feeding forage or ** Do not apply within 3 days of cutting for hay.	allowing livestock to graz	ze.	
Blueberries	Blueberry Leafhopper Aphids Tussock Moth Weevil Sharp-Nosed Leafhopper	1 1/2	3	48 hrs
	Cranberry Fruitworm * Cherry Fruitworm *	1 1/2 - 3		
	Flea Beetle (larvae) Sawfly (larvae) Blueberry Leafroller	3		
	Blueberry Maggot	3/4 - 1 1/2	1	
	Do not apply during bloom. Do not apply more than 12 pints of LANNATE® Do not make more than 4 applications/crop. * For ground use only.	LV/acre/crop.		

Crops	Insects	Rate           DuPont™           LANNATE® LV           Pts. Per Acre	Last Application - Days To Harvest	REI
Broccoli	Loopers	1 1/2 - 3 **	3	48 hrs
	Diamondback Moth			
	Imported Cabbageworm	3/4 - 3 **		
	Do not apply more than 21 pints of LANNA			
	Do not make more than 10 applications/crop ** Add a wetting agent to improve coverage		atments is 2 days.	
Brussels Sprouts	Loopers	1 1/2 - 3 **	3	48 hrs
-	Imported Cabbageworm			
	Diamondback Moth	1 1 /0 44	-	
	Variegated Cutworm Do not apply more than 18 pints of LANNA'	1 1/2 **		-
	Do not make more than 10 applications/crop ** Add a wetting agent to improve coverage	; minimum interval between trea	atments is 2 days.	
Cabbage	Loopers *	1 1/2 - 3 **	1	48 hrs
	Diamondback Moth Fall Armyworm			
	Imported Cabbageworm	3/4 - 3 **	-	
	Variegated Cutworm	1 1/2 **	-	
	Do not apply more than 24 pints of LANNA'			1
	Do not make more than 15 applications/crop * Do not use for Loopers in AL & GA. ** Add a wetting agent to improve coverage	; minimum interval between trea	atments is 2 days.	
Carrot	Aster Leafhopper	1 1/2 - 3	1	48 hrs
	Armyworms			
	Beet Armyworm	3/4 - 1 1/2	4	
	Variegated Cutworm Do not apply more than 21 pints of LANNA'			-
	Do not make more than 10 applications/crop			
Cauliflower	Imported Cabbageworm	3/4 - 3 **	3	48 hrs
	Loopers	1 1/2 - 3 **	7	
	Diamondback Moth	1.1.(2.4.4	_	
	Variegated Cutworm Do not apply more than 24 pints of LANNA'	1 1/2 **		4
	Do not make more than 10 applications/crop ** Add a wetting agent to improve coverage	; minimum interval between trea	atments is 2 days.	
Celery	Beet Armyworm Aster Leafhopper	1 1/2 - 3	7	48 hrs
	Loopers	3	_	
	Variegated Cutworm	<u> </u>	-	
	Armyworms Do not apply more than 24 pints of LANNA'			-
	Do not make more than 10 applications/crop			
Chicory	Beet Armyworm	1 1/2 - 3	80	48 hrs
	Variegated Cutworm			
	Leafhoppers Do not apply more than 6 pints of LANNAT	En I V/agra/aran		-
	Do not make more than 2 applications/crop.	E Viacie/ciop.		
Chinese Cabbage	Loopers	1 1/2 - 3 *	10	48 hrs
	Beet Armyworm			4
	Do not apply more than 24 pints of LANNA' Do not make more than 10 applications/crop			
	* Minimum of 25 gallons water per acre by g			
Collards (Fresh market	Diamondback Moth Variegated Cutworm	1 1/2	10	48 hrs
only)	Imported Cabbageworm	1 1/2 - 3	-	
only)	Beet Armyworm Loopers*	1 1/2 - 5		
	Do not apply when temp. is less than 50° F. Do not apply when crop is less than 10" tall. Do not apply more than 18 pints of LANNA' Do not make more than 8 applications/crop. * Do not use for Loopers in AL & GA.	TE® LV/acre/crop.		

Crops	Insects	Rate DuPont™ LANNATE® LV Pts. Per Acre	Last Application - Days To Harvest	REI
Corn (Field, Popcorn & Seed)	Earworm, - (Ovicide/Larvicide) Armyworm Fall Armyworm European Corn Borer - Ears 1 - 3 days or as needed Corn Rootworm (adult beetles) Flea Beetles Picnic Beetles Aphids	3/4 - 1 1/2	21 Ears 3 Forage* 21 Stover*	48 hrs
	Variegated Cutworm Beet Armyworm Do not apply more than 7.5 pints of LANNATE® Do not make more than 10 applications/crop.	1 1/2 D LV/acre/crop.	-	-
	*Corn forage is green actively growing plants that be fed directly to animals or used to make silage. remain after removal of the grain at full plant mat can be fed as roughage to animals.	Corn stover are the parts of	the plant that	
Corn (Sweet)	EarwormWhorl as needed	1 - 1 1/2	0 Ears	48 hrs
	Fall Armyworm Armyworm Earworm, - (Ovicide/Larvicide) European Corn Borer - Ears 1 - 3 days or as needed Corn Rootworm (adult beetles) Flea Beetles Picnic Beetles Aphids	3/4 - 1 1/2	3 Forage 21 Stover	
	Variegated Cutworm Beet Armyworm Certain hybrid varieties of sweet corn are suscept Treat a small area to determine crop safety before Do not apply more than 21 pints of LANNATE®	e full scale spraying.		-
	Do not make more than 28 applications/crop; min	nimum interval between trea	atments is 1 day.	
Cotton U.S	Ovicide/Larvicide - Bollworm Tobacco Budworm (Initiate schedule when significant numbers of eggs are present. Continue at 3 to 5-day intervals while eggs are present and larval control is adequate. If significant larvae survive, use higher rates below.) Lygus Bugs/Plant Bugs (adults and nymphs) Start treatment on low level population for suppression.	2/5 - 3/4 (see Insect Predators section)	15	72 hrs
	Cotton Leafworm	3/4 - 1 1/2		
	Cotton Fleahopper (as needed)	2/5 - 3/4		
East of Rockies only	Aphids, Thrips(Early Season)BollwormTobacco BudwormBeet ArmywormCotton LeafperforatorFall ArmywormLygus Bugs/Plant Bugs (adults and nymphs)Use as occasional spray in regular schedulebut not more often than every 10 days.	3/4 1 1/2		
	(Late Season) Bollworm Tobacco Budworm Beet Armyworm Cotton Leafperforator Fall Armyworm Lygus Bugs/Plant Bugs (adult and nymphs) Up to 3 applications at 3-5 day intervals after desired boll load set on plants.	1 1/2 - 2 1/4		

Crops	Insects	Rate       DuPont <sup>TM</sup> LANNATE® LV       Pts. Per Acre	Last Application - Days To Harvest	REI
Cotton (cont'd) Texas West of Rockies only	Cotton Aphid Larvicide for worms: Bollworm Beet Armyworm Fall Armyworm Tobacco Budworm Lygus Bugs	3/4 - 2 1 1/2 - 2 1/4	15	72 hrs
	Cotton Leafperforator For applications West of the Rockies, make appliset on plants. For all applications made to cotton in the Uni Do not apply more than 6 pints of LANNATE® Do not make more than 8 applications/crop. Do not graze or feed. Use may redden cotton; if excessive stop or alter	ted States: LV/acre/crop.	after desired boll load	-
Cucumber	Loopers Tobacco Budworm Beet Armyworm, Yellowstriped Armyworm Granulate Cutworm Flea Beetles Cucumber Beetles Melon Aphid Melonworm Pickleworm Fall Armyworm	1 1/2 - 3	1 1/2 pt 1 Over 1 1/2 pt3	48 hrs
	Variegated Cutworm Do not apply more than 18 pints of LANNATE Do not make more than 12 applications /crop.	1 1/2 B LV/acre/crop.		-
Eggplant	Green Peach Aphid Tomato Pinworm (Ground Application Only) Beet Armyworm Corn Earworm	3/4 - 3 1 1/2 - 3	5	48 hrs
	Do not apply more than 15 pints of LANNATE® Do not make more than 10 applications/crop.	B LV/acre/crop.		
Endive, Escarole	Beet Armyworm Do not apply more than 15 pints of LANNATE Do not make more than 8 applications/crop.	1 1/2 - 3 D LV/acre/crop.	10	48 hrs
Garlic	Beet Armyworm Do not apply more than 9 pints of LANNATE® Do not make more than 6 applications/crop. ** Add a wetting agent to improve coverage.	1 1/2 ** LV/acre/crop.	7	48 hrs
Grapefruit CA, AZ & HI only	Thrips Fruittree Leafroller Orange Tortrix Western Tussock Moth Beet Armyworm Do not apply more than 9 pints of LANNATE® Do not make more than 4 applications/crop.	1 1/2 - 3 LV/acre/crop.		72 hrs

Crops	Insects	Rate       DuPont <sup>TM</sup> LANNATE® LV       Pts. Per Acre	Last Application - Days To Harvest	REI
Horseradish Ground application only	Aphids Thrips Do not apply more than 6 pints of LANNAT Do not make more than 4 applications/crop.	-	65	48 hrs
Leafy Green Vegetables: Beet (tops) Dandelions, Kale, Mustard Greens, Parsley, Swiss Chard, Turnip Greens	Beet Armyworm Cabbage Looper * Diamondback Moth Imported Cabbageworm Do not apply more than 12 pints of LANNAT Do not make more than 8 applications/crop. * Do not use for Cabbage Looper in AL & G		10	48 hrs
<b>Lemon</b> CA, AZ & HI only	Thrips Western Tussock Moth Orange Tortrix Beet Armyworm Do not apply more than 9 pints of LANNATT Do not make more than 4 applications/crop.	1 1/2 - 3 E® LV/acre/crop.	1	72 hrs
Lentils	Western Yellowstriped Armyworm Do not apply more than 3 pints of LANNAT Do not make more than 2 applications/crop.	1 1/2 - 3 E® LV/acre/crop.	21	48 hrs
Lettuce (head varieties and Leaf varieties)	Alfalfa Looper Thrips Aphids Beet Armyworm Cabbage Looper Corn Earworm Aster Leafhopper	3/4 - 3 1 1/2 - 3	3/4-1 1/2 pt 7 over 1 1/2 pt 10	48 hrs
	Variegated Cutworm Lettuce (head varieties) Do not apply more than 24 pints of LANNAT Do not make more than 15 applications/crop; Lettuce (leaf varieties) Do not apply more than 12 pints of LANNAT Do not make more than 8 applications/crop; 1	, minimum interval between tre FE® LV/acre/crop.		-
Melons Including: Canteloupe Casaba Santa Claus melon Crenshaw melon Honeydew melon Honey balls Persian melon Golden Pershaw melon	Loopers Tobacco Budworm Beet Armyworm Yellowstriped Armyworm Granulate Cutworm Flea Beetles Cucumber Beetles Melon Aphid Melonworm Pickleworm Fall Armyworm	1 1/2 - 3	1 1/2 pt 1 day over 1 1/2 pt. 3 days	48 hrs
Mango melon Pineapple melon Snake melon Watermelon	Variegated Cutworm Do not apply more than 18 pints of LANNAT Do not make more than 12 applications/crop.	1 1/2 TE® LV/acre/crop.		

Crops	Insects	Rate DuPont™ LANNATE® LV Pts. Per Acre	Last Application - Days To Harvest	REI
Mint (Peppermint, Spearmint)	Variegated Cutworm Alfalfa Looper Flea Beetles Do not apply more than 6 pints of LANNATE® I Do not make more than 4 applications/crop.	3 2 1/4 - 3 	14	48 hrs
Nectarine CA & AZ only	Thrips Do not apply more than 9 pints of LANNATE® 1 Do not make more than 3 applications/crop.	1 1/2 - 3 _V/acre/crop.	1	72 hrs
Oats	Armyworms Cereal Leaf Beetle* Aphids** Do not apply more than 6 pints of LANNATE® I Do not make more than 4 applications/crop. Chemigation - LANNATE® LV may be applied use the highest listed rate of LANNATE® LV. A	by overhead sprinkler chem		48 hrs
	"Chemigation" section for more information. * Cereal leaf beetle: LANNATE® LV can provid when applied according to label directions. App the appearance of newly laid eggs or in anticipa Use on this pest stage (egg) is not registered in ** Aphids: For aphid control, crop must be active environmental conditions (such as, extreme terr aphid need to begin when the aphid population	blication should be timed to tion of egg hatch to achieve California. ely growing and not under superatures or drought). App	o correspond with e maximum ovicidal effect. stress from adverse lications on Russian wheat	
Onions (Green & Dry Bulb)	Beet Armyworm         Thrips*         Variegated Cutworm         Black Cutworm         Onions, green         Do not apply more than 18 pints of LANNATE®         Do not make more than 8 applications/crop; mini         Onions, dry bulb         Do not make more than 12 pints of LANNATE®         Do not make more than 8 applications/crop; mini         treatments is 5 days.         *Chemigation - LANNATE® LV may be applied         control thrips. Begin applications before thrips         use the highest listed rate of LANNATE® LV a         of water per acre. See "Chemigation" section for         ** Add a wetting agent to improve coverage.	1 1/2 - 3 **         3 **         LV/acre/crop.         mum interval between treat         LV/acre/crop.         mum interval between         l by overhead sprinkler che         populations reach 3-5 thrips         and a wetting agent. Apply	7 Green and Dry Bulb Onions tments is 5 days. migation to s per plant. For best results.	48 hrs
Oranges CA, AZ & HI only	Thrips Western Tussock Moth Orange Tortrix Fruittree Leafroller Beet Armyworm Citrus Cutworm Do not apply more than 9 pints of LANNATE® I	1 1/2 - 3	1	72 hrs
Peaches	<ul> <li>Do not make more than 4 applications/crop.</li> <li>Catfacing Insects <ul> <li>(Plant Bugs and Stink Bugs)</li> <li>begin at petal fall and continue in <ul> <li>cover sprays at 7-to 10-day intervals</li> </ul> </li> <li>Oriental Fruit Moth * <ul> <li>begin at petal fall; use trapping devices</li> <li>and frequent field inspection to</li> <li>determine need for treatment</li> <li>Continue treatment in cover sprays</li> <li>and alternate with residual-type</li> <li>insecticides registered for this use.</li> </ul> </li> <li>Green Peach Aphid</li> <li>Do not apply more than 18 pints of LANNATE®</li> <li>Do not make more than 6 applications/crop.</li> <li>* Oriental Fruit Moth (Ground Application Only)</li> </ul> </li> </ul>	-	4	4 days

Crops	Insects	Rate       DuPont <sup>TM</sup> LANNATE® LV       Pts. Per Acre	Last Application - Days To Harvest	REI
Peanuts	Corn Earworm * Potato Leafhopper Fall Armyworm	3/4 - 3	21	48 hrs
	Beet Armyworm Green Cloverworm Velvetbean Caterpillar Cabbage Looper Soybean Looper ** Thrips Granulate Cutworm	<u>1 1/4 - 3</u> <u>1 1/2 - 3</u>	-	
	Do not apply more than 12 pints of LANNATE Do not make more than 8 applications/crop. Do not feed treated vines. * LANNATE® LV has ovicidal and larvicidal c ** Soybean Looper is difficult to control. Do no Use higher rate for severe infestations	ontrol on corn earworm.	1 an 1/2" long.	-
<b>Pears</b> Northeast only	Green Fruitworm Obliquebanded Leafroller Do not apply more than 6 pints of LANNATE® Do not make more than 2 applications/crop.		7	48 hrs
	* Apply in a minimum of 50 gallons of water pe			40.1
Peas (succulent) Including: Pigeon peas Chick peas Garbanzo beans Dwarf peas	Alfalfa Looper1 1/2 - 31 PeasCabbage Looper *5 ForagePea Aphid14 HayBeet Armyworm14 HaySaltmarsh CaterpillarVariegated Cutworm	5 Forage	48 hrs	
Garden peas Green peas English Peas	Alfalfa Caterpillar Armyworm Green Cloverworm	3/4 - 3		
Field peas Edible pod peas	Do not apply more than 9 pints of LANNATE® Do not make more than 6 applications/crop; min * Do not use for Cabbage Looper in AL & GA.		ments is 3 days.	
Pecans Southeast only	Aphids Do not apply more than 21 pints of LANNATE	1 1/2 - 3	30	48 hrs
	Do not make more than 7 applications/crop.	s E vracicreiop.		
<b>Peppers</b> Including: Bell Hot	Loopers Beet Armyworm Green Peach Aphid Fall Armyworm	1 1/2 - 3	3	48 hrs
Pimentos Sweet	Armyworm Vorigested Cutworm	2/4 1 1/2	-	
Sweet	Variegated Cutworm European Corn Borer	3/4 - 1 1/2	-	
	Do not apply more than 15 pints of LANNATE Do not make more than 10 applications/crop.	*		-
Pomegranates	Omniverous Leafroller Do not apply more than 6 pints of LANNATE® Do not make more than 2 applications/crop.	3 LV/acre/crop.	14	48 hrs
Potato	Tuberworm* Loopers Aphids Beet Armyworm Leafhoppers Fall Armyworm	1 1/2 - 3	6	48 hrs
	Variegated Cutworm Flea Beetles	1 1/2	-	
	Do not apply more than 15 pints of LANNATE® Do not make more than 10 applications/crop. Chemigation - LANNATE® LV may be applied use the highest listed rate of LANNATE® LV for per acre. See "Chemigation" section for more in * Repeat applications of LANNATE® LV on a tuberworm populations. An application schedu action may be needed to keep foliar feeding la reduce the risk of larval damage to the tubers. crop scenescence or vinekill increases the risk	by overhead sprinkler chem or the target pests. Apply in ( formation. 5-7 day schedule, or longer a ule of effective insecticides w rval populations as low as po Failure to adequately control	0.1 to 0.2 inches of water as needed, to control with different modes of possible prior to harvest to	

Bye         Armyworms Careal Leaf Beetle* Aphids**         3/4 - 1 1/2         7         48 hrs           Do not apply more than 6 pints of LANNATE® LV/acre/crop . Do not apply more than 4 applications/crop. Chemigation - LANNATE® LV may be applied by overhead sprinkler chemigation. *Cereal Leaf beetle: LANNATE® LV can provide contact ovicidal effect on cereal leaf beetle: LANNATE® LV apply in 0.1 to 0.2 inches of water per acre. See "Chemigation" section for more information. *Cereal leaf beetle: LANNATE® LV can provide contact ovicidal effect on cereal leaf beetle: LANNATE® LV acan provide contact ovicidal effect to achieve maximum ovicidal effect. Use on this pest stage (egg) is not registered in California. ** Aphids: For aphic control, crop must be actively growing and not under stress from adverse environmental conditions (such as, extreme temperatures or drough). Applications on Russian wheat aphid need to begin when the aphid population is low (<10 adults per stem).         48 hrs           Sorghum, netuding Storghum, Beet Armyworm Corne Earworm Armyworm Corne Earworm Armyworm Corne Earworm Light to moderate infestations         11/2 *         14 **         48 hrs           Soybeans         Green Cloverworm Light to moderate infestations         3/4 - 1 1/2 *         14 stressed 3 for age         48 hrs           Soybeans         Green Cloverworm Light to moderate infestations         3/4 - 1 1/2         14 stressed 3 for age         48 hrs           Soybean Aphid         1/2 - 1         12 Hay         48 hrs         48 hrs           Soybean Aphid         1/2 - 1         14 hrs         48 hrs	Crops	Insects	Rate DuPont™ LANNATE® LV Pts. Per Acre	Last Application - Days To Harvest	REI
Aphilds**         Image: Second S	Rye				48 hrs
Do not apply more than 6 prins of LANNATE® LVace/crop. Do not make applications/crop.         Do the set results, use the highest listed rate of LANNATE® LV, Apply 10.01.00.2 inches of water per acre. See "Chemigation" section for more information.           ** Cerceil late Detel: LANNATE® LV, Apply 10.01.00.2 inches of water per acre. See "Chemigation" section for more information.         **           ** Cerceil late Detel: LANNATE® LV, Apply 10.01.00.2 inches of water per acre. See "Chemigation" section for more information.         **           ** Cerceil late Detel: LANNATE® LV close provide contact ovicidal effect on cercal leaf beetle eggs when applied according to label directions. Application of egg hatch to achieve maximum ovicidal effect.         **           ** Applied. For aphid control, crop must be actively growing and not under stress from adverse environmental conditions (tot a. extreme temperatures of dought). Applications on Russian wheat aphid aced to begin when the aphid population is low (<10 adults per stem).	·				
Do not mike more than 4 applications/crop.         Chemigation - LANNATEP LV may be applied by overhead sprinkler chemigation. For hest results, use the highest listed rate of LANNATEP LV. Apply in 0.1 to 0.2 inches of water per acre. See "Chemigation" section for more information.           ** Creat leaf bestle: LANNATEP LV can provide continue should be timed to correspond with egs in the displation of egg hack to achieve maximum ovicidal effect on correspond with egs in an indicipation of egg hack to achieve maximum ovicidal effect on carely leaf bestle egg.         *** Aphiek. For aphie control, crop must be actively growing and not under stress from adverse environmental conditions (such as, externe temperatures or drough). Applications on Russian wheat aphid need to begin when the aphid population is low (<10 adults per stem).		I ST			
Sorghum,         Chemigation - LANNATE® LV may be applied by overhead sprinkler chemigation. For the results, use the higher listed at of LANNATE® U.V. Appty in 0.1 to 0.2 inches of water per acre. See "Chemigation" section for more information.           * Cereal left beetle: LANNATE® U.V. anp two its to 0.2 inches of water per acre. See "Chemigation" section for more information.         ************************************			© L V/acre/crop.		
sign best listed rate of LANNATE® LV. Apply in 0.1 to 0.2 inches of water per acre. See "Chemigation" section for more information.           * Cercal leaf beetle: LANNATE® LV can provide contact ovicidal effect on cercal leaf beetle: gass when applied according to label directions. Applications should be timed to correspond with the appearance of newly liad eggs or in anticipation of egg hatch to achieve maximum ovicidal effect. We construct the aphild opplation is fow (c10) adults per stems from adverse environmental conditions (such as, extreme temperatures or drough). Applications on Russian wheat aphil need to begin when the aphild opplation is fow (c10) adults per stem).         14 **         48 hrs           Sorghum, relating sindangrass except Sweet is gradient and the aphild opplation is fow (c10) adults per stem).         14 **         48 hrs           Sorghum webworm aphil needs.         10 adults per stem by air.         14 **         48 hrs           Sorghum, relating sindangrass except Sweet is regin and the aphild opplation is fow (c10) adults per stem by air.         14 **         48 hrs           Sorghum, relating the more than 2 application/crop. * Minimum of 10 gallons per acre by air.         14 **         48 hrs           Sorgheans         Green Coverworm (Con Earworm Armyworm Early when 14 days of feeding forage or cuting for age infestations         172 **         14 **         48 hrs           Soybean Aphid         1/2 *-         14 **         48 hrs         48 hrs           Soybean Aphild         1/2 *-         14 **         48 hrs <t< td=""><td></td><td>Chemigation - LANNATE® LV may be applied</td><td>d by overhead sprinkler chem</td><td>nigation. For best results.</td><td></td></t<>		Chemigation - LANNATE® LV may be applied	d by overhead sprinkler chem	nigation. For best results.	
* Cereal leaf beetle: LANNATE® LV can provide contact ovicidal effect on cereal leaf beetle eggs when applied according to label directions. Application should be timed to correspond with the appearance of newly liad eggs or in anticipation of egg hatch to achieve maximum ovicidal effect. Use on this pest stage (egg) is not registered in California.         ** Aphids. For aphid control, crop must be actively growing and not under stress from adverse environmental conditions (sch as, extreme temperatures or drough). Applications not wheat aphid need to begin when the aphid population is low (<10 adults per stem).		use the highest listed rate of LANNATE® LV.			
when applied according to label directions. Application should be timed to correspond with T         the appearance of newly lade eggs or in anticipation of egg hach to achieve maximum ovicidal effect. Use on this pest stage (egg) is not registered in California.         *** Aphick. For aphic donutly, crop must be actively growing and not under stress from adverse environmenial condutions (such as, externe temperatures or drough). Applications on Russian wheat aphid need to begin when the aphid population is low (<100 datus per stern).					
be appearance of newly laid eggs or in anticipation of egg hach to achieve maximum ovicidal effect. Use on this pest stage (egg) is not registered in California.         *** Aphids: For aphid control, crop must be actively growing and not under stress from adverse environmental conditions (such as, extreme temperatures or drough). Applications on Russian wheat aphid need to begin when the aphid population is low (<10 adults per stem).		* Cereal leaf beetle: LAINNATE® LV can prov when applied according to label directions A	number of the should be timed to	correspond with	
Sorghum, encluding sudangrass except Sweet         Sorghum Webworm         112 *         14 **         48 hrs           Sorghum, encluding sudangrass except Sweet         Sorghum Webworm         112 *         14 **         48 hrs           Sorghum, encluding sudangrass except Sweet         Sorghum Webworm         112 *         14 **         48 hrs           Sorghum, encluding sudangrass except Sweet         Sorghum Webworm         112 *         14 **         48 hrs           Sorghum, bet Armyworm Corn Earworm Armyworm         Bot Armyworm         3/4 - 1 1/2 *         14 **         48 hrs           Sorghum, bet Armyworm Corn Earworm Armyworm         Bot Armyworm         3/4 - 1 1/2 *         14 **         48 hrs           Sorghum, bet Armyworm Corn Earworm Corn Earworm Corn Earworm Corn Earworm Corn Earworm         2/2 - 3/4         14 Soybeans         48 hrs           Soybeans         Green Cloverworm Core Earworm Solybeans         2/2 - 3/4         14 Soybeans         48 hrs           Mexican Bean Beetle Corn Earworm Solybean Aphid         1/2 - 1         Bot Armyworm Beat Lafe Beetle Fall Armyworm Salt Marsh Caterpillar Beat Lafe Beetle Fall Armyworm Thrips Silver Spotted Skipper Light to moderate infestations         1/2 - 1         1/2 - 1           Moderute to severe infestations/crop.         1/2 - 3         7         48 hrs           Splinach         Afafafa Loopers Cabhage Looper					
environmental conditions (such as, exterme temperatures or drough). Applications on Russian wheat aphil need to begin when the aphil population is low (c10 adults per stem). Sorghum Webworm 1172 * 14 ** 48 hrs except Sweet Sorghum Webworm (Budworm) Bet Armyworm (Budworm) Bet Armyworm Do not apply more than 3 pints of LANNATE® LV/acre/crop. Do not apply more than 3 pints of CANNATE® LV/acre/crop. ** Monia more than 3 application/crop. * Minimum of 10 gallons per acre by ground or 2 gallons per acre by air. ** Do not apply when 50 feeding forage or cutiling for hay. Soybeans Green Cloverworm Corn Earworm Corn Earworm Corne Earworm Corne Cloverworm Yelvetben Caterpillar Mescian Bean Beetle Corne Earworm Subta Mash Caterpillar Mederate to severe 3/4 - 1 1/2 infestations Soybean Aphid 1/2 - 1 Beet Armyworm Bat Markh Caterpillar Bean Largy South 1 + 5 pints of LANNATE® LV/acre/crop. Do not make more than 3 application/crop. * Moderate to severe 1 - 1 1/2 infestations Subjean Aphid 1/2 - 1 Bean Largy Bean Largy South 1 + 5 pints of LANNATE® LV/acre/crop. Do not make more than 3 application/scrop. * Moderate to severe 1 - 1 1/2 infestations Subjean Aphid 1 - 1 1/2 ************************************		Use on this pest stage (egg) is not registered i	in California.		
aphid need to begin when the aphid population is low (<10 adults per stein).		** Aphids: For aphid control, crop must be act	ively growing and not under s	tress from adverse	
Sorghum, including, sudangerses, except 30% bloom and 3-5 days except in faced.       11/2 *		environmental conditions (such as, extreme to applid need to begin when the applid population	emperatures or drought). App on is low (<10 adults per stem	lications on Russian wheat	
Sorghum Midge - Apply when 50% bloom and 3-5 days later if needed.       3/4 - 1 1/2 *         Sorghum)       All and the set of the s	Sorghum	· · · ·	-		48 hrs
Suddangrass except Sweet Sorghum)       - Åpply when 50% bloom and 3-5 days later i needed.         Fall Armyworn Beet Armyworn Com Earworm Armyworn Do not apply more than 3 pints of LANNATE@ LV/acre/crop. Do not apply when 10 application/crop.       -         ** Do not apply when 10 gallons per acre by ground or 2 gallons per acre by air.       **         ** Do not apply when 11 days of feeding forage or cutting for hay.       14 Soybeans         Soybeans       Green Cloverworm Light to moderate infestations       12 Soybeans         Wetyetbean Caterpillar Mexican Bean Beetle Corn Earworm Light to moderate infestations       (see Insect Predator section)       3 Forage 12 Hay         Soybean Aphid       1/2 - 1         Beet Armyworm Sait Marsi Caterpillar Bean Leaf Beetle Fail Armyworm Thrips Silver Spotted Skipper Light to moderate infestations       3/4 - 1         Moderate to severe infestations       1 - 1 1/2         Moderate to severe infestations       1 - 1 1/2         Moderate to severe infestations       1 - 1 1/2         Do not apply more than 4.5 pints of LANNATE® LV/acre/crop. Do not apply more than 3 applications/crop.       7         Spinach       Affafa Looper Cabbag Looper Beet Army worm Fail Army worm       3/4 - 3       21 Roots 30 Tops         Variegated Cutworm Field Beetles Carion age more than 3 applications/crop.       3/4 - 3       21 Roots 30 Tops       48 hrs         Sugar Beet       Beet Webworm Field Beetles	0 .	6			40 111 3
Sorghum)       Fall Armyworm (Budworm) Beet Armyworm       Image: Commercial state of the second	Sudangrass		5/1 11/2		
Beet Armyworm Core Earworm Armyworm     Image: Spin action of the spin action acti	(except Sweet				
Corn Earworm       Armyword       48 hrs         Do not apply more than 3 pints of LANNATE@ LV/acre/crop.       60 hot apply work in 14 days of feeding for age or cutting for hay.       48 hrs         Soybeans       Green Cloverworm       2/5 - 3/4       14 Soybeans       48 hrs         Corn Earworm       2/5 - 3/4       14 Soybeans       48 hrs         Velvetbean Caterpillar       (see Insect Predator section)       12 Hay       48 hrs         Corn Earworm       1/2 - 1       12 Hay       48 hrs         Soybeans       Moderate to severe       3/4 - 1 1/2       12 Hay       48 hrs         Soybeans       Sevene Aphid       1/2 - 1       12 Hay       48 hrs         Soybeans       Moderate to severe       3/4 - 1 1/2       12 Hay       48 hrs         Soybeans       Soybeans       1/2 - 1       12 Hay       14 Soybeans       12 Hay       12 Hay       14 Soybeans       12 Soybeans       12 So	Sorghum)				
Armyworm       Image: Constraint of LANNATE@ LV/acre/crop.         Do not apply more than 3 pints of LANNATE@ LV/acre/crop.       Image: Constraint of Log allons per acre by ground or 2 gallons per acre by air.         ** Do not apply within 14 days of feeding forage or cutting for hay.       2/5 - 3/4       14 Soybeans         Soybeans       Green Cloverworm       2/5 - 3/4       14 Soybeans       48 hrs         Velvetbean Caterpillar       (sce Insect Predator section)       12 Hay       48 hrs         Corn Earworm       3/4 - 1 1/2       12 Hay       48 hrs         Soybean Aphid       1/2 - 1       12 Hay       48 hrs         Soybean Aphid       1/2 - 1       12 Hay       48 hrs         Soybean Aphid       1/2 - 1       14 Soybean       12 Hay       48 hrs         Soybean Aphid       1/2 - 1       12 Hay       14 Soybean Ayt					
Do not apply more than 3 pints of LANNATE® LV/acre/crop. Do not make more than 2 application/crop.         **           ** Do not apply within 14 days of feeding forage or cutting for hay.         **           ** Do not apply within 14 days of feeding forage or cutting for hay.         **           Soybeans         Green Cloverworm Velvetbean Caterpillar Mexican Bean Beetle Light to moderate infestations         (see Insect Predator section)         3 Forage 12 Hay         48 hrs           Soybean Aphid         1/2 - 1         12 Hay         12 Hay         48 hrs           Soybean Aphid         1/2 - 1         12 Hay         12 Hay         48 hrs           Soybean Aphid         1/2 - 1         12 Hay         12 Hay         12 Hay         12 Hay           Beet Armyworm         3/4 - 1 1/2         infestations         3/4 - 1         12 Hay         12 Hay         12 Hay         14 Soybeans         12 Hay         14 Soybeans         14 Soybeans         12 Hay         14 Soybeans         12 Hay					
Do not make more than 2 application/crop.       *         * Minimum of 10 gallons per acre by ground or 2 gallons per acre by air.       **         ** Do not apply within 14 days of feeding forage or cutting for hay.       225 - 334       14 Soybeans         Soybeans       Green Cloverworm       225 - 334       14 Soybeans       18 hrs         Velvetbean Caterpillar       (see Insect Predator section)       12 Hay       12 Hay       48 hrs         Corn Earworm       Light to moderate infestations       1/2 - 1       12 Hay       14 Soybeans       12 Hay         Soybean Aphid       1/2 - 1       Beet Armyworm       3/4 - 1       14 Soybean Aphid       1/2 - 1         Beet Armyworm       3/4 - 1       Soybean Aphid       1/2 - 1       14 Soybeans       14 Soybeans         Soybean Aphid       1/2 - 1       Beet Armyworm       3/4 - 1       14 Soybeans       14 Soybeans         Soybean Aphid       1/2 - 1       Do not aphy sore than 3 applications/crop.       1 - 1 1/2       1/2 Hay       1/2 Hay         Do not apply more than 3 applications/crop.       Do not apply more than 3 applications/crop.       1/2 - 3       7       48 hrs         Graphage Looper       1 1/2 - 3       7       48 hrs       1/4 So hrs       3/4 - 3       21 Roots       3/4 hrs         <			B LV/acre/crop.		1
** Do not apply within 14 days of feeding forage or cutting for hay.     2/5 - 3/4     14 Soybeans       Soybeans     Green Cloverworm     2/5 - 3/4     14 Soybeans       Velvetbean Caterpillar     (see Insect Predator section)     3 Forage       User Soybean Aphid     1/2 - 1       Bet Armyworm     3/4 - 1 1/2       Soybean Aphid     1/2 - 1       Bet Armyworm     3/4 - 1       Soybean Aphid     1/2 - 1       Bet Armyworm     3/4 - 1       Salt Marsh Caterpillar     3/4 - 1       Bean Leaf Beetle     1/2 - 1       Bean Leaf Beetle     1/2 - 1       Bean Leaf Beetle     1/2 - 1       Moderate to severe     1 - 1 1/2       Moderate to severe     1 - 1 1/2       Do not apply more than 4.5 pints of LANNATE@ LV/acre/crop .     0       Do not apply more than 3 aplications/crop.     1 1/2 - 3       Variegated Cutworm     1 1/2       Variegated Cutworm     1 1/2       Variegated Cutworm     3/4 - 3       Variegated Cutworm     3/4 - 3       Sugar Beet     Beet Webworm       Flea Beetles     3/4 - 3       Carbiage Looper     3/4 - 3       Sugar Beet     Beet Webworm *       Variegated Cutworm     1 1/2       Do not apply more than 1 5 pints of LANNATE® LV/acre/crop. <td></td> <td>Do not make more than 2 application/crop.</td> <td>-</td> <td></td> <td></td>		Do not make more than 2 application/crop.	-		
Soybeans       Green Cloverworm       2/5 - 3/4       14 Soybeans       48 hrs         Velvetbean Caterpillar       (see Insect Predator section)       3 Forage       12 Hay       48 hrs         Light to moderate       infestations       3/4 - 1 1/2       3/4 - 1       14 Soybeans       3 Forage       12 Hay       48 hrs         Soybean Aphid       1/2 - 1       1       14 Soybeans       3/4 - 1       14 Soybeans       3 Forage       12 Hay       14 Soybeans       3 Forage       12 Hay       48 hrs         Soybean Aphid       1/2 - 1       1       14 Soybeans       3/4 - 1       14 Soybeans       3 Forage       12 Hay       14 Soybeans       3 Forage       14 Soybeans       3 Forage       14 Soybean Aphid       12 Hay       14 Soybeans <td></td> <td>* Minimum of 10 gallons per acre by ground of</td> <td>r 2 gallons per acre by air.</td> <td></td> <td></td>		* Minimum of 10 gallons per acre by ground of	r 2 gallons per acre by air.		
Velvetbean Caterpillar Mexican Bean Beetle Corn Earworm Light to moderate infestations       (see Insect Predator section)       3 Forage 12 Hay         Moderate to severe       3/4 - 1 1/2         Soybean Aphid       1/2 - 1         Beet Armyworm       3/4 - 1         Salt Marsh Caterpillar Bean Leaf Beetle       3/4 - 1         Bean Leaf Beetle       3/4 - 1         Moderate to severe       1 - 1 1/2         Do not apply more than 4.5 pints of LANNATE@ LV/acre/crop . Do not make more than 3 applications/crop.       7         Alfalfa Loopers       1 1/2 - 3         Spinach       Alfalfa Loopers         Beat Armyworm       1 1/2 - 3         Variegated Cutworm       1 1/2         Variegated Cutworm       1 1/2         Not apply wore than 8 applications/crop.       3 Hars         Spinach       Alfalfa Loopers         Beet Armyworm       1 1/2         Variegated Cutworm       1 1/2         Do not apply been min. daily temp. is 32° F. or lower. Do not make more than 8 applications/crop.       30 Tops         Sugar Beet       Beet Webworm       3/4 - 3       21 Roots 30 Tops         Flea Beetles Carrion Beetles Beet Armyworm <sup>8</sup> Aphidis <sup>4</sup> 3/4 - 3       21 Roots 30 Tops       48 hrs         Do not apply more than 15 pints of LANNATE@ LV/acre/crop. Do	Sayhaana		<u> </u>	14 Soubcons	18 hrs
Mexican Bean Béetle     section)     12 Hay       Corn Earworm     Light to moderate     infestations       Moderate to severe     3/4 - 1 1/2       infestations     3/4 - 1       Soybean Aphid     1/2 - 1       Beet Armyworm     3/4 - 1       Salt Marsh Caterpillar     3/4 - 1       Been Leaf Beetle     3/4 - 1       Fall Armyworm     3/4 - 1       Thrips     Thrips       Silver Spotted Skipper     1 - 1 1/2       Do not apply more than 4.5 pints of LANNATE@ LV/acre/crop .     Do not make more than 3 applications/crop.       Diaffa Loopers     1 1/2 - 3       Pieted Armyworm     1 1/2 - 3       Variegated Cutworm     1 1/2       Variegated Cutworm     1 1/2       Variegated Cutworm     1 1/2       Variegated Cutworm     3/4 - 3       Fleat Beetles     3/4 - 3       Carrion Beetles     3/4 - 3       Beet Webworm # han 8 applications/crop.     3/4 - 3       Do not make more than 8 applications/crop.     3/4 - 3       Do not make more than 8 applications/crop.     3/4 - 3       Do not make more than 8 applications/crop.     3/4 - 3       Do not make more than 8 applications/crop.     3/4 - 3       Do not make more than 8 applications/crop.     3/4 - 3       Do not make more than 15 pints	Suydeans				40 111 5
Light to moderate infestations       3/4 - 1 1/2         Moderate to severe infestations       3/4 - 1 1/2         Beet Armyworm Salt Marsh Caterpillar Been Leaf Beetle Fall Armyworm Thrips Silver Spotted Skipper Light to moderate infestations       3/4 - 1         Moderate to severe Light to moderate infestations       3/4 - 1         Do not apply more than 4.5 pints of LANNATE® LV/acre/crop . Do not make more than 3 applications/crop.       7         Spinach       Alfalfa Loopers Reet Armyworm Fall Armyworm Fall Amyworm       1 1/2 - 3         Variegated Cutworm       1 1/2       7         Do not apply when min. daily temp. is 32° F. or lower. Do not apply when min. daily temp. is 32° F. or lower. Do not apply user than 5° diameter . Do not apply user than 8° diameter . Do not apply to seedlings less than 3° diameter . Do not apply more than 12 pints of LANNATE® LV/acre/crop. Do not make more than 8 applications/crop.       3/4 - 3       21 Roots 30 Tops         Sugar Beet       Beet Webworm Flea Beetles Carrion Beetles Beet Armyworm* Western Yellowstriped Armyworm* Western Yellowstriped Armyworm* Western Yellowstriped Armyworm* Western Yellowstriped Armyworm* Western Yellowstriped Armyworm* Unit applications/crop.       3/4 - 3       21 Roots 30 Tops       48 hrs         Do not apply more than 15 pints of LANNATE® LV/acre/crop. Do not apply more than 10 applications/crop.       0 not apply more than 10 applications/crop.       49 hrs			<b>`</b>		
Signach       3/4 - 1 1/2         Moderate to severe       3/4 - 1 1/2         Beet Armyworm       3/4 - 1         Salt Marsh Caterpillar       3/4 - 1         Beet Armyworm       3/4 - 1         Salt Marsh Caterpillar       3/4 - 1         Been Leaf Beetle       3/4 - 1         Fail Armyworm       1/2 - 1         Been Leaf Beetle       1         Fail Armyworm       1/2         Thrips       Silver Spotted Skipper         Light to moderate       infestations         Do not apply more than 4.5 pints of LANNATE@ LV/acre/crop .       Do         Do not make more than 3 applications/crop.       1 1/2 - 3         Spinach       Alfalfa Loopers       1 1/2 - 3         Variegated Cutworm       1 1/2         Do not apply when min. daily temp. is 32° F. or lower.       Do not apply when min. daily temp. is 32° F. or lower.         Do not apply when min. daily temp. is 32° F. or lower.       Do not apply to seedlings less than 3" diameter .         Do not apply when min. daily temp. is 32° F. or lower.       Do not apply to seedlings less than 3" diameter .         Do not apply when min. daily temp. is 32° F. or lower.       Do not apply more than 1 & applications/crop.         Sugar Beet       Beet Webworm       3/4 - 3       21 Roots         Fl					
Moderate to severe       3/4 - 1 1/2         infestations       1/2 - 1         Beet Armyworm       3/4 - 1         Salt Marsh Caterpillar       3/4 - 1         Been Leaf Beetle       3/4 - 1         Fall Armyworm       3/4 - 1         Bean Leaf Beetle       3/4 - 1         Fall Armyworm       3/4 - 1         Denot Leaf Beetle       Fall Armyworm         Thrips       Silver Spotted Skipper         Light to moderate       infestations         Moderate to severe       1 - 1 1/2         infestations       Moderate to severe         Do not apply more than 4.5 pints of LANNATE® LV/acre/crop .       Do not apply more than 4.5 pints of LANNATE® LV/acre/crop .         Do not apply where than 3 applications/crop.       1 1/2 - 3       7         Spinach       Alfafa Loopers       1 1/2 - 3         Beet Armyworm       1 1/2       1         Do not apply when min. daily temp. is 32° F. or lower.       Do not apply where than 3 applications/crop.       7         Beet Webworm       1 1/2       1       21 Roots         Beet Webworm *       3/4 - 3       30 Tops       48 hrs         Flea Beetles       30 Tops       48 hrs         Carrion Beetles       30 Tops       30 Tops					
Soybean Aphid       1/2 - 1         Beet Armyworm       3/4 - 1         Salt Marsh Caterpillar       3/4 - 1         Bean Leaf Beetle       Fall Armyworm         Fall Armyworm       Thrips         Silver Spotted Skipper       Light to moderate         infestations       1 - 1 1/2         Moderate to severe       1 - 1 1/2         Do not apply more than 4.5 pints of LANNATE® LV/acre/crop.       Do not make more than 3 applications/crop.         Spinach       Affafa Loopers       1 1/2 - 3         Cabbage Looper       1 1/2 - 3       7         Beet Armyworm       1 1/2       48 hrs         Variegated Cutworm       1 1/2       0         Do not apply when min. daily temp, is 32° F. or lower.       Do not apply when min. daily temp, is 32° F. or lower.       0         Do not apply when min. daily temp, is 32° F. or lower.       Do not apply when min. daily temp. Si 32° F. or lower.       48 hrs         Do not apply more than 12 pints of LANNATE® LV/acre/crop.       30 Tops       48 hrs         Sugar Beet       Beet Webworm *       3/4 - 3       31 Tops         Flea Beetles       3/4 - 3       30 Tops       48 hrs         Garion Beetles       Beet Armyworm*       30 Tops       48 hrs         Variegated Cutworm			3/4 - 1 1/2	-	
Beet Armyworm Salt Marsh Caterpillar Been Leaf Beetle Fall Armyworm Thrips Silver Spotted Skipper Light to moderate infestations     3/4 - 1       Moderate to severe I-1 1/2     1 - 1 1/2       Do not apply more than 4.5 pints of LANNATE® LV/acre/crop. Do not make more than 3 applications/crop.     1 - 1 1/2       Spinach     Alfalfa Loopers Cabbage Looper Beet Armyworm Fall Armyworm Fall Armyworm     1 1/2 - 3       Variegated Cutworm     1 1/2       Do not apply when min. daily temp. is 32° F. or lower. Do not apply when min. daily temp. is 32° F. or lower. Do not apply to seedlings less than 3" diameter . Do not apply to seedlings less than 3" diameter . Do not apply more than 12 pints of LANNATE® LV/acre/crop. Do not make more than 8 applications/crop.     3/4 - 3     21 Roots 30 Tops       Sugar Beet     Beet Webworm Flea Beetles Beet Armyworm* Variegated Cutworm     3/4 - 3     21 Roots 30 Tops     48 hrs       Do not apply more than 15 pints of LANNATE® LV/acre/crop. Do not make more than 15 pints of LANNATE® LV/acre/crop. Do not make more than 10 applications/rop.     47 - 3     21 Roots 30 Tops					
Salt Marsh Caterpillar Bean Leaf Beetle Fall Armyworm Thrips Silver Spotted Skipper Light to moderate infestations       Image: Construct on the sector of the		Soybean Aphid	1/2 - 1	]	
Bean Leaf Beetle Fall Armyworm Thrips Silver Spotted Skipper Light to moderate infestations       1 - 1 1/2         Moderate to severe infestations       1 - 1 1/2         Do not apply more than 4.5 pints of LANNATE® LV/acre/crop . Do not make more than 3 applications/crop.       7         Affalfa Loopers Cabbage Looper Beet Armyworm Fall Armyworm       1 1/2 - 3       7         Variegated Cutworm       1 1/2       7         Do not apply when min. daily temp. is 32° F. or lower. Do not apply when min. daily temp. is 32° F. or lower. Do not apply when min. daily temp. is 32° F. or lower. Do not apply when min. daily temp. is 32° F. or lower. Do not apply us cedlings less than 3" diameter . Do not apply more than 1 2 pints of LANNATE® LV/acre/crop. Do not make more than 8 applications/crop.       3/4 - 3       21 Roots 30 Tops         Sugar Beet       Beet Webworm Flea Beetles Beet Armyworm* Aphids* Western Yellowstriped Armyworm* Variegated Cutworm       1 1/2       30 Tops         Do not apply more than 15 pints of LANNATE® LV/acre/crop. Do not make more than 10 applications/crop.       30 Tops       48 hrs         Carrion Beetles Beet Armyworm* Aphids* Western Yellowstriped Armyworm* Variegated Cutworm       1 1/2       50       50         Do not apply more than 15 pints of LANNATE® LV/acre/crop. Do not make more than 10 applications/crop.       *       48 hrs			3/4 - 1		
Fall Armyworm Thrips Silver Spotted Skipper Light to moderate infestations       Image: Spotted Skipper Light to moderate infestations         Moderate to severe infestations       1 - 1 1/2         Do not apply more than 4.5 pints of LANNATE® LV/acre/crop . Do not make more than 3 applications/crop.       1 1/2 - 3         Spinach       Alfalfa Loopers Cabbage Looper Beet Armyworm Fall Armyworm       1 1/2 - 3         Variegated Cutworm       1 1/2         Do not apply when min. daily temp. is 32° F. or lower. Do not apply when min. daily temp. is 32° F. or lower. Do not apply more than 12 pints of LANNATE® LV/acre/crop. Do not make more than 8 applications/crop.       3/4 - 3         Sugar Beet       Beet Webworm Flea Beetles Carrion Beetles Beet Armyworm* Aphids* Western Yellowstriped Armyworm* Variegated Cutworm       3/4 - 3       21 Roots 30 Tops         Variegated Cutworm       1 1/2       1/2       48 hrs         Do not apply more than 15 pints of LANNATE® LV/acre/crop. Do not make more than 10 applications/crop.       30 Tops       48 hrs         Variegated Cutworm       1 1/2       11/2       48 hrs					
Thrips       Silver Spotted Skipper         Light to moderate       infestations         Moderate to severe       1 - 1 1/2         Do not apply more than 4.5 pints of LANNATE® LV/acre/crop.       Do not make more than 3 applications/crop.         Spinach       Alfalfa Loopers       1 1/2 - 3         Alfalfa Looper       1 1/2 - 3       7         Beet Armyworm       1 1/2         Variegated Cutworm       1 1/2         Do not apply when min. daily temp. is 32° F. or lower.       7         Do not apply up to seedlings less than 3" diameter.       7         Do not apply more than 12 pints of LANNATE® LV/acre/crop.       8         Do not apply more than 12 pints of LANNATE® LV/acre/crop.       7         Beet Webworm       3/4 - 3       21 Roots         Flea Beetles       30 Tops       48 hrs         Carrion Beetles       30 Tops       48 hrs         Beet Webworm *       1 1/2       30 Tops       48 hrs         Variegated Cutworm *       1 1/2       1 1/2       48 hrs         Do not apply more than 15 pints of LANNATE® LV/acre/crop.       30 Tops       48 hrs         On ot apply more than 15 pints of LANNATE® LV/acre/crop.       0 not apply more than 15 pints of LANNATE® LV/acre/crop.       0 not make more than 10 applications/crop.					
Light to moderate infestations       Image: Spinach       Light to moderate infestations       Image: Note of the severe infestations       Ima					
Spinach       Moderate to severe       1 - 1 1/2         Do not apply more than 4.5 pints of LANNATE® LV/acre/crop .       Do not anake more than 3 applications/crop.         Spinach       Alfalfa Loopers Cabbage Looper Beet Armyworm       1 1/2 - 3       7       48 hrs         Fall Armyworm       1 1/2       7       48 hrs         Do not apply when min. daily temp. is 32° F. or lower. Do not apply to seedlings less than 3" diameter . Do not apply to seedlings less than 3" diameter . Do not apply more than 12 pints of LANNATE® LV/acre/crop. Do not make more than 8 applications/crop.       3/4 - 3       21 Roots 30 Tops       48 hrs         Sugar Beet       Beet Webworm Flea Beetles Carrion Beetles Beet Armyworm*       3/4 - 3       21 Roots 30 Tops       48 hrs         Variegated Cutworm       1 1/2       1       1       1       1         Do not apply more than 15 pints of LANNATE® LV/acre/crop. Do not make more than 15 pints of LANNATE® LV/acre/crop. Do not apply more than 15 pints of LANNATE® LV/acre/crop. Chemigation - LANNATE® LV may be applied by overhead sprinkler chemigation to control beet					
Moderate to severe infestations       1 - 1 1/2         Do not apply more than 4.5 pints of LANNATE® LV/acre/crop . Do not make more than 3 applications/crop.       48 hrs         Spinach       Alfalfa Loopers Cabbage Looper Beet Armyworm Fall Armyworm       1 1/2 - 3       7       48 hrs         Variegated Cutworm       1 1/2       7       48 hrs         Do not apply when min. daily temp. is 32° F. or lower. Do not apply more than 12 pints of LANNATE® LV/acre/crop. Do not apply more than 12 pints of LANNATE® LV/acre/crop. Do not make more than 8 applications/crop.       3/4 - 3       21 Roots 30 Tops       48 hrs         Sugar Beet       Beet Webworm Flea Beetles Carrion Beetles Beet Armyworm* Aphids* Western Yellowstriped Armyworm*       1 1/2       48 hrs         Variegated Cutworm       1 1/2       1 1/2       0 not apply more than 15 pints of LANNATE® LV/acre/crop. Do not make more than 15 pints of LANNATE® LV/acre/crop. Do not make more than 10 applications/crop.       48 hrs					
infestations       infestations         Do not apply more than 4.5 pints of LANNATE® LV/acre/crop.       Do not make more than 3 applications/crop.         Spinach       Alfalfa Loopers Cabbage Looper Beet Armyworm Fall Armyworm       1 1/2 - 3         Variegated Cutworm       1 1/2         Do not apply when min. daily temp. is 32° F. or lower. Do not apply when min. daily temp. is 32° F. or lower. Do not apply to seedlings less than 3" diameter . Do not apply nore than 12 pints of LANNATE® LV/acre/crop. Do not make more than 8 applications/crop.       3/4 - 3       21 Roots 30 Tops         Sugar Beet       Beet Webworm Flea Beetles Carrion Beetles Beet Armyworm* Aphids* Western Yellowstriped Armyworm*       3/4 - 3       21 Roots 30 Tops       48 hrs         Variegated Cutworm       1 1/2       Do not apply more than 15 pints of LANNATE® LV/acre/crop. Do not apply more than 15 pints of LANNATE® LV/acre/crop. Do not apply more than 15 pints of LANNATE® LV/acre/crop. Do not make more than 10 applications/crop.       1 1/2			1 1 1/2	4	
Do not apply more than 4.5 pints of LANNATE® LV/acre/crop .         Do not make more than 3 applications/crop.         Alfalfa Loopers Cabbage Looper Beet Armyworm Fall Armyworm         Variegated Cutworm         Variegated Cutworm         Do not apply when min. daily temp. is 32° F. or lower. Do not apply to seedlings less than 3" diameter . Do not apply more than 12 pints of LANNATE® LV/acre/crop. Do not make more than 8 applications/crop.         Sugar Beet       Beet Webworm Flea Beetles Carrion Beetles Beet Armyworm* Aphids* Western Yellowstriped Armyworm* Variegated Cutworm       3/4 - 3       21 Roots 30 Tops       48 hrs         Variegated Cutworm       1 1/2       0       0       48 hrs			1 - 1 1/2		
Do not make more than 3 applications/crop.         Spinach       Alfalfa Loopers Cabbage Looper Beet Armyworm Fall Armyworm       1 1/2 - 3       7       48 hrs         Variegated Cutworm       1 1/2       7       48 hrs         Do not apply when min. daily temp. is 32° F. or lower. Do not apply to seedlings less than 3" diameter . Do not apply more than 12 pints of LANNATE® LV/acre/crop. Do not make more than 8 applications/crop.       3/4 - 3       21 Roots 30 Tops       48 hrs         Sugar Beet       Beet Webworm Flea Beetles Carrion Beetles Beet Armyworm* Aphids* Western Yellowstriped Armyworm* Variegated Cutworm       3/4 - 3       21 Roots 30 Tops       48 hrs         Do not apply more than 15 pints of LANNATE® LV/acre/crop. Do not apply more than 15 pints of LANNATE® LV/acre/crop. Do not apply more than 10 applications/crop.       *Chemigation to control beet       48 hrs			E® LV/acre/crop.		
Cabbage Looper Beet Armyworm Fall Armyworm       I 1/2         Variegated Cutworm       1 1/2         Do not apply when min. daily temp. is 32° F. or lower. Do not apply to seedlings less than 3" diameter . Do not apply more than 12 pints of LANNATE® LV/acre/crop. Do not make more than 8 applications/crop.       21 Roots         Sugar Beet       Beet Webworm Flea Beetles Carrion Beetles Beet Armyworm* Aphids* Western Yellowstriped Armyworm* Variegated Cutworm       3/4 - 3       21 Roots 30 Tops       48 hrs         Variegated Cutworm       1 1/2       0       11/2       48 hrs         Variegated Cutworm       1 1/2       11/2       11/2					
Beet Armyworm       Fall Armyworm         Fall Armyworm       1 1/2         Variegated Cutworm       1 1/2         Do not apply when min. daily temp. is 32° F. or lower. Do not apply to seedlings less than 3" diameter . Do not apply more than 12 pints of LANNATE® LV/acre/crop. Do not make more than 8 applications/crop.       21 Roots         Sugar Beet       Beet Webworm Flea Beetles Carrion Beetles Beet Armyworm* Aphids* Western Yellowstriped Armyworm*       3/4 - 3       21 Roots 30 Tops         Variegated Cutworm       1 1/2       48 hrs         Do not apply more than 15 pints of LANNATE® LV/acre/crop. Do not make more than 10 applications/crop. *Chemigation - LANNATE® LV may be applied by overhead sprinkler chemigation to control beet	Spinach		1 1/2 - 3	7	48 hrs
Fall Armyworm       11/2         Variegated Cutworm       11/2         Do not apply when min. daily temp. is 32° F. or lower.       Do not apply to seedlings less than 3" diameter .         Do not apply more than 12 pints of LANNATE® LV/acre/crop.       Do not make more than 8 applications/crop.         Sugar Beet       Beet Webworm         Flea Beetles       3/4 - 3         Carrion Beetles       30 Tops         Beet Armyworm*       30 Tops         Variegated Cutworm       1 1/2         Do not apply more than 15 pints of LANNATE® LV/acre/crop.       Do not apply more than 15 pints of LANNATE® LV/acre/crop.         Do not make more than 10 applications/crop.       *Chemigation - LANNATE® LV may be applied by overhead sprinkler chemigation to control beet					
Variegated Cutworm       1 1/2         Do not apply when min. daily temp. is 32° F. or lower.         Do not apply to seedlings less than 3" diameter .         Do not apply more than 12 pints of LANNATE® LV/acre/crop.         Do not make more than 8 applications/crop.         Sugar Beet         Beet Webworm         Flea Beetles         Carrion Beetles         Beet Armyworm*         Aphids*         Western Yellowstriped Armyworm*         Variegated Cutworm         Variegated Cutworm         Do not apply more than 15 pints of LANNATE® LV/acre/crop.         Do not apply more than 15 pints of LANNATE® LV/acre/crop.         Do not make more than 10 applications/crop.         *Chemigation - LANNATE® LV may be applied by overhead sprinkler chemigation to control beet					
Do not apply when min. daily temp. is 32° F. or lower.         Do not apply to seedlings less than 3" diameter .         Do not apply more than 12 pints of LANNATE® LV/acre/crop.         Do not make more than 8 applications/crop.         Sugar Beet         Beet Webworm         Flea Beetles         Carrion Beetles         Beet Armyworm*         Aphids*         Western Yellowstriped Armyworm*         Variegated Cutworm         Variegated Cutworm         Do not apply more than 15 pints of LANNATE® LV/acre/crop.         Do not apply more than 15 pints of LANNATE® LV/acre/crop.         Do not make more than 10 applications/crop.         *Chemigation - LANNATE® LV may be applied by overhead sprinkler chemigation to control beet		-	1 1/2	-	
Do not apply to seedlings less than 3" diameter .       Do not apply more than 12 pints of LANNATE® LV/acre/crop.         Do not make more than 8 applications/crop.       3/4 - 3       21 Roots         Sugar Beet       Beet Webworm       3/4 - 3       21 Roots         Flea Beetles       30 Tops       48 hrs         Carrion Beetles       30 Tops       48 hrs         Beet Armyworm*       Aphids*       Variegated Cutworm       11/2         Do not apply more than 15 pints of LANNATE® LV/acre/crop.       Do not make more than 10 applications/crop.       *Chemigation - LANNATE® LV may be applied by overhead sprinkler chemigation to control beet					
Do not apply more than 12 pints of LANNATE® LV/acre/crop. Do not make more than 8 applications/crop.       3/4 - 3       21 Roots       48 hrs         Sugar Beet       Beet Webworm Flea Beetles Carrion Beetles Beet Armyworm* Aphids* Western Yellowstriped Armyworm*       3/4 - 3       30 Tops       48 hrs         Variegated Cutworm       11/2       0<		Do not apply to seedlings less than 3" diameter			
Sugar Beet       Beet Webworm       3/4 - 3       21 Roots       48 hrs         Flea Beetles       Carrion Beetles       30 Tops       30 Tops         Beet Armyworm*       Aphids*       Western Yellowstriped Armyworm*       11/2       11/2         Variegated Cutworm       1 1/2       Do not apply more than 15 pints of LANNATE® LV/acre/crop.       Do not make more than 10 applications/crop.       *Chemigation - LANNATE® LV may be applied by overhead sprinkler chemigation to control beet			E® LV/acre/crop.		
Flea Beetles       30 Tops         Carrion Beetles       Beet Armyworm*         Aphids*       Western Yellowstriped Armyworm*         Variegated Cutworm       1 1/2         Do not apply more than 15 pints of LANNATE® LV/acre/crop.       Do not make more than 10 applications/crop.         *Chemigation - LANNATE® LV may be applied by overhead sprinkler chemigation to control beet	Concern D. (		2/4 2		40.1
Carrion Beetles         Beet Armyworm*         Aphids*         Western Yellowstriped Armyworm*         Variegated Cutworm         Do not apply more than 15 pints of LANNATE® LV/acre/crop.         Do not make more than 10 applications/crop.         *Chemigation - LANNATE® LV may be applied by overhead sprinkler chemigation to control beet	Sugar Beet		3/4 - 3		48 hrs
Beet Armyworm*       Aphids*         Aphids*       Western Yellowstriped Armyworm*         Variegated Cutworm       1 1/2         Do not apply more than 15 pints of LANNATE® LV/acre/crop.       Do not make more than 10 applications/crop.         *Chemigation - LANNATE® LV may be applied by overhead sprinkler chemigation to control beet				50 1008	
Western Yellowstriped Armyworm*         Variegated Cutworm         1 1/2         Do not apply more than 15 pints of LANNATE® LV/acre/crop.         Do not make more than 10 applications/crop.         *Chemigation - LANNATE® LV may be applied by overhead sprinkler chemigation to control beet		Beet Armyworm*			
Variegated Cutworm       1 1/2         Do not apply more than 15 pints of LANNATE® LV/acre/crop.         Do not make more than 10 applications/crop.         *Chemigation - LANNATE® LV may be applied by overhead sprinkler chemigation to control beet					
Do not apply more than 15 pints of LANNATE® LV/acre/crop. Do not make more than 10 applications/crop. *Chemigation - LANNATE® LV may be applied by overhead sprinkler chemigation to control beet			1.1/2	4	
Do not make more than 10 applications/crop. *Chemigation - LANNATE® LV may be applied by overhead sprinkler chemigation to control beet					
*Chemigation - LANNATE® LV may be applied by overhead sprinkler chemigation to control beet			www.v/acre/crop.		
armyworm aphids and western vellowstrined armyworm For best results, use the highest listed rate		*Chemigation - LANNATE® LV may be applied	ied by overhead sprinkler che	migation to control beet	
		armyworm, aphids and western yellowstriped	armyworm. For best results,	use the highest listed rate	
of LANNATE® LV. Apply in 0.1 to 0.2 inches of water per acre. See "Chemigation" section for more information.		of LANNATE® LV. Apply in 0.1 to 0.2 inche			

		Rate DuPont™ LANNATE® LV	Last Application - Days	
Crops	Insects	Pts. Per Acre	To Harvest	REI
Summer Squash * Including: Crookneck squash Straightneck squash Scallop squash Vegetable marrow Spaghetti squash Hyotan Cucuzza Hechima	Loopers Tobacco Budworm Beet Armyworm Yellowstriped Armyworm Granulate Cutworm Flea Beetles Cucumber Beetles Melon Aphid Melonworm	1 1/2 - 3	1 1/2 pt 1 day over 1 1/2 pt 3 days	48 hrs
	Pickleworm Fall Armyworm			
Chinese okra Bitter melon Balsam pear Balsam apple Chinese Cucumber	<ul> <li>Do not apply more than 18 pints of LANNATE® LV/acre/crop.</li> <li>Do not make more than 12 applications/crop.</li> <li>* Fruit of the Gourd (Cucurbitaceae) family that are consumed when immature, 100% of the fruit is edible cooked or raw, once picked cannot be stored, has a soft rind which is easily penetrated, and if seeds were harvested they would not germinate.</li> </ul>			
Tangelo, Tangerine CA, AZ & HI only	Thrips Western Tussock Moth Orange Tortrix Beet Armyworm	1 1/2 - 3	1	72 hrs
	Do not apply more than 9 pints of LANNATE® LV/acre/crop. Do not make more than 4 applications/crop.			
<b>Tobacco</b> (Except shade)	Flea Beetle Hornworm	3/4 - 1 1/2	5 Flue cured 14 Air or fire cured	48 hrs
	Loopers Aphids Tobacco Budworm Fall Armyworm	1 1/2		
	Do not apply more than 7.5 pints of LANNATE® LV/acre/crop. Do not make more than 5 applications/crop.			
Tomato (Including Tomatillos *)	Tomato Fruitworm Aphids Hornworm Loopers Beet Armyworm Southern Armyworm Pinworm Fall Armyworm Armyworm	1 1/2 - 3	1	48 hrs
	Variegated Cutworm	1 1/2	-	
	Do not apply more than 21 pints of LANNATE® LV/acre/crop. Do not make more than 16 applications/crop. * For tamatillos, do not apply more than 15 pints of LANNATE® LV/acre/crop. Do not make more than 5 applications/crop.			
<b>Turf</b> (For use on sod farms	Sod Webworm (after application, sprinkle irrigate for 15 minutes)	3 (1.1 fl. ozs. per 1000 sq. ft.)		48 hrs
only)	Do not apply more than 12 pints of LANNATE® LV/acre/crop. Do not make more than 4 applications/crop. Do not graze or feed.			
Wheat	Armyworms Cereal Leaf Beetle* Aphids**	3/4 - 1 1/2	7	48 hrs
	Do not apply more than 6 pints of LANNATE® LV/acre/crop. Do not make more than 4 applications/crop. Chemigation - LANNATE® LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of LANNATE® LV. Apply in 0.1 to 0.2 inches of water per acre. See "Chemigation" section for more information. * Cereal leaf beetle: LANNATE® LV can provide contact ovicidal effect on cereal leaf beetle eggs when applied according to label directions. Application should be timed to correspond with the appearance of newly laid eggs or in anticipation of egg hatch to achieve maximum ovicidal effect. Use on this pest stage (egg) is not registered in California. ** Aphids: For aphid control, crop must be actively growing and not under stress from adverse environmental conditions (such as, extreme temperatures or drought). Applications on Russian wheat aphid need to begin when the aphid population is low (<10 adults per stem).			

### STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Do not subject to temperatures below 32 degrees F. Store product in original container only. Not for use or storage in or around the home.

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

#### **CONTAINER HANDLING:**

Refer to the Net Contents section of this product's labeling for the applicable "Nonrefillable Container" or "Refillable Container" designation.

Nonrefillable Plastic and Metal Containers (Capacity Equal to or Less Than 5 Gallons): Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Plastic and Metal Containers (Capacity Greater Than 5 Gallons): Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Plastic and Metal Containers, e.g., Intermediate Bulk Containers [IBC] (Size or Shape Too Large to be Tipped, Rolled or Turned Upside Down): Nonrefillable container. Do not reuse or refill this container. Pressure rinse as follows: Empty the remaining product contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Insert pressure rinsing nozzle in the container, and rinse at about 40 PSI for at least 30 seconds. Drain rinsate for 10 seconds after the flow begins to drip. Pour or pump rinsate into application equipment or rinsate collection system. Then, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

All Refillable Containers: Refillable container. Refilling Container: Refill this container with DuPont<sup>™</sup> LANNATE® LV containing methomyl only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn out threads and closure devices. Check for leaks after refilling and before transporting. Disposing of Container: Do not reuse this container for any other purpose other than refilling (see preceding). Cleaning the container before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Do not transport if container is damaged or leaking.

If the container is damaged, leaking or obsolete, or in the event of a major spill, fire or other emergency, contact DuPont at 1-800-441-3637, day or night.

FOR PUERTO RICO: PESTICIDES MUST BE STORED IN THEIR ORIGINAL CONTAINER; DO NOT REUSE CONTAINER OR STORE CONTENTS IN ANY OTHER CONTAINER.

**Notice:** Please read the entire label, including the supplemental labeling enclosed. Before buying or using this product, read the Limitationof Warranty and Liability in the supplemental labeling. If the terms are not acceptable, return the product at once, unopened, for a refund of the purchase price.

**Notice to Buyer:** Purchase of this material does not confer any rights under patents of countries outside of the United States.

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#### LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read this 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.

It is impossible to eliminate all risks associated with the use of this product. Such risks arise from weather conditions, soil factors, off target movement, unconventional farming techniques, presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of DuPont. These risks can cause: ineffectiveness of the product, crop injury, or injury to non-target crops or plants. WHEN YOU BUY OR USE THIS PRODUCT, YOU AGREE TO ACCEPT THESE RISKS.

DuPont warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for the purpose stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, DUPONT MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO EVENT SHALL DUPONT OR SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. BUYER'S OR USER'S BARGAINED-FOR EXPECTATION IS CROP PROTECTION. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER AND THE EXCLUSIVE LIABILITY OF DUPONT OR SELLER, FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE, TORT OR STRICT LIABILITY), WHETHER FROM FAILURE TO PERFORM OR INJURY TO CROPS OR OTHER PLANTS, AND RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT, OR AT THE ELECTION OF DUPONT OR SELLER, THE REPLACEMENT OF THE PRODUCT.

To the extent consistent with applicable law that allows such requirement, DuPont or its Ag Retailer must have prompt notice of any claim so that an immediate inspection of buyer's or user's growing crops can be made. Buyer and all users shall promptly notify DuPont or a DuPont Ag Retailer of any claims, whether based on contract, negligence, strict liability, other tort or otherwise, or be barred from any remedy.

This Limitation of Warranty and Liability may not be amended by any oral or written agreement.

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