WHEAT

General Information

PRODUCT INFORMATION
Chemigation: overhead sprinkler chemigation is allowed for use in alfalfa, succulent and dry beans, onions, succulent peas, potatoes, sugar beets and wheat. Drip chemigation is allowed for onions in the states of ID, NV, OR, UT, and WA oNLY.

Refer to the chemigation and the crop sections of this label for specific 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.

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, drip 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 Dupont 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 cross-resistant. 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, use this product as part of 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.

unless directed otherwise in the specific crop/pest sections of this label, the best practices are to follow these instructions to delay the development of insecticide resistance:

- Avoid using the same mode of action (same IRAC number and subgroup) on consecutive generations of insect pests.
- Avoid using less than the labeled rates of LANNATE LV when applied alone or in tank mixtures.
- Target the most susceptible insect life stages, whenever possible.

- Monitor insect populations for product effectiveness. If resistance to LANNATE LV develops in your area,
LANNATE LV, 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 Dupont Crop protection company representative or agricultural advisor for the best alternate method of control.
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.

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 Dupont 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.

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.

Dupont 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:
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 than1 gal in CA.

Limitations, Restrictions, and Exceptions

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 control of all pests listed, except brown marmorated stink bug. 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).

Method
Broadcast/Foliar Air

Broadcast/Foliar Ground

Pre-Harvest Interval

7 days

Rates

field_rates 0

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Restricted Entry Interval

48 hours

Timings

N.A.