

DuPont™ Vydate® L insecticide/nematicide and Lannate® LV insecticide

*Thrips control in onions: Best management practices**



Name: Vydate® L
insecticide/nematicide
Lannate® LV insecticide

Active ingredients: Oxamyl
Methomyl

DuPont™ Vydate® L and Lannate® LV thrips control program — Starts with Vydate® L

Use Vydate® L early to enhance crop establishment. Start at 2- to 3-leaf and make 3 applications at 4 pints per application in a drip irrigation system.

Drip application

- Apply 4 pints per acre through the drip irrigation system. Apply before insects reach the economic threshold. Repeat applications at 14-day intervals. Apply in enough water to thoroughly wet the root zone. Start injection toward the end of the irrigation cycle and stop when the beds are fully wet.
- **Always buffer the Vydate® L injection solution to a pH of 5 or lower.**

At planting and side-dress application

- Apply up to 1 gallon per acre with or without liquid fertilizer. Begin applications before thrips reach the 5 percent plant threshold.

- Inject into soil 2 to 4 inches below onion plants. Repeat applications can be made by soil injection or at 4 pints per acre via foliar spray (normally at 14-day intervals).
- Irrigate with enough water to thoroughly wet the root zone once application is complete.
- **Always acidify the solution to a pH lower than 6.0.**
- Add 10 percent water to the Vydate® L solution before adding to high load liquid fertilizers.
- See label for product information.

DuPont™ Vydate® L and Lannate® LV thrips control program — Follow Vydate® L with Lannate® LV

Foliar application (recommended management program):

- Start applications at threshold of less than 5 thrips per plant (adults + nymphs). Once thrips reach levels of 10 per plant or higher they are impossible to successfully manage.
- Optimize spray coverage by adding ¼% V/V non-ionic surfactant and using a minimum of 40 GPA and 40 PSI.
- Use Lannate® LV starting when thrips counts are less than 5 per

plant. Include Lannate® in a tank mix with additional products (such as Success or Mustang Max), making sure to rotate different modes of action with Lannate® to maintain efficacy. Make applications every 7 days until thrips counts drop at bulb maturity.

- Application 1: Lannate® LV 2 pt/A + Success 4 oz/A + NIS.
- Application 2: Lannate® LV 2 pt/A + non-encapsulated pyrethroid + NIS.
- It is recommended to alternate application 1 and application 2 every 7 days for a maximum of 4 applications before rotating to a product with a different mode of action.
- See label for product information.

* These best management practices are based on a Vydate® L Special Local Need Label 24(c) for Colorado, EPA SLN NO. CO-010005.

2007 Onion Thrips Program – 2007

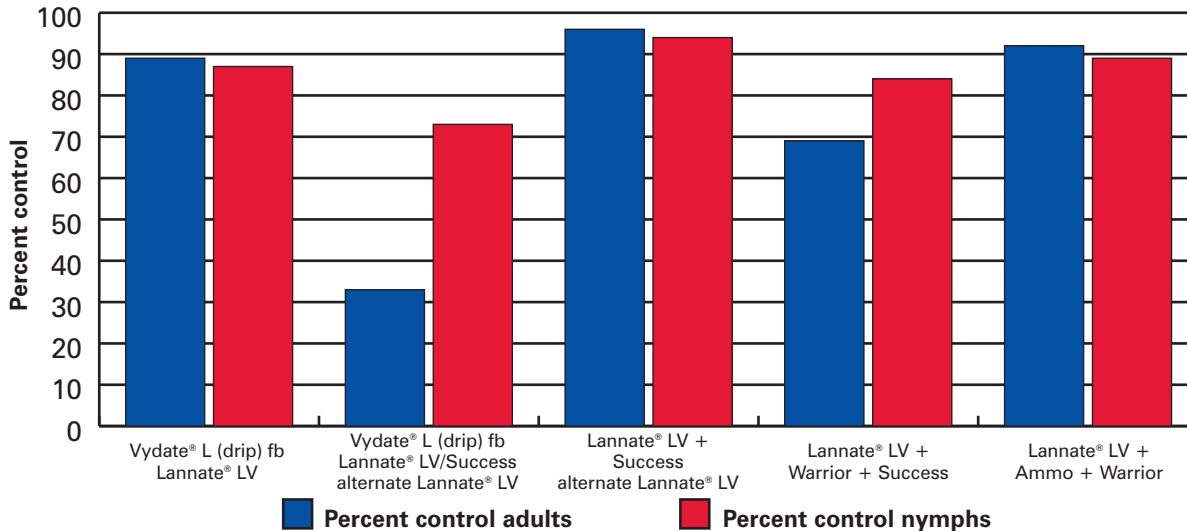


Figure 1: Two studies were conducted in 2007, a DuPont internal test at LaSalle, Colo., and a test in Delta, Colo., by Kenny Hines with Hinesite Research. Data on adults and nymphs were taken over the study period. Data reported here is for seven days after the last application — season control levels.

- Vydate® L alternated with Lannate® LV + NIS (3 pt/A) controlled thrips 88 percent (average adults + nymphs).
- Vydate® L alternated with Lannate® LV + Success + NIS (2 pt/A + 4 oz/A) or Lannate® + NIS (3 pt/A) controlled thrips 53 percent. Control was reduced due to the use of Lannate® LV every 14 days and the lower rate of Lannate® LV in combination with Success.
- Lannate® LV + NIS (3 pt/A) alternated with Lannate® LV + Success + NIS (2 pt/A + 4 oz per/A) controlled thrips 95 percent.
- Lannate® LV + Warrior + Success + NIS (2 pt/A + 3 oz/A + 4 oz/A) or Lannate® LV + Warrior + Ammo + NIS (2 pt/A + 3 oz/A + 4 oz/A) controlled thrips 77 percent and 90 percent. Control was reduced by using the encapsulated pyrethroid Warrior.

Ammo, Lannate® LV, Mustang Max, Vydate® L and Warrior are restricted-use pesticides.

This reference guide is not intended as a substitute for the product label for the product(s) referenced herein. Product labels for the above product(s) contain important precautions, directions for use and product warranty and liability limitations that must be read before using the product. Applicators must be in possession of the product label(s) at the time of application. Always read and follow all label directions and precautions for use when using any pesticide alone or in tank mix combinations.

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