

Deliver[®]
BIOLOGICAL INSECTICIDE



For Use on Tree Fruit, Nut and Vine Crops

Highly Potent

Like most other Bts used to control worm pests, Deliver is based on Bt subspecies kurstaki. However, its higher concentration of Cry1Ac protein results in higher potency and better control of Lepidoptera pests in orchard and vine crops. With 1.5 to 5 times the potency of other Bts, Deliver offers more control power on a pound-for-pound basis. One container of Deliver will cover more area than conventional Bts. This translates to lower application and storage / handling costs.

As with every biological insecticide, coverage is key for effective pest control. The superior wettable granular formulation of Deliver provides uniform dispersion of Bt in spray droplets and facilitates better spreading and sticking. The result is maximum coverage and pest ingestion.

Key Pests

- Peach twig borer (stone fruit)
- Oriental fruit moth (suppression)
- Navel orangeworm (almonds, walnuts)
- Western grapeleaf skeletonizer (grapes)
- Omnivorous leafroller (grapes)
- Amorbia (citrus)
- Citrus cutworm (citrus)
- Fruit tree leafroller (citrus)
- Codling moth (pome fruits)
- Oblique-banded leafroller (pome fruits)
- Redbanded leafroller (pome fruits)
- Light brown apple moth (multiple crops)
- European grapevine moth (multiple crops)

Always read and carefully follow label directions.

Crops

- Almonds
- Nectarines
- Prunes
- Grapes
- Apples
- Peaches
- Plums
- Apricots
- Oranges
- Pears

A Potent New Biological Insecticide for Orchards and Vines

Cry1Ac is the most broadly active of the dozens of natural Bt insecticidal crystal proteins (ICPs) that have been identified. Deliver contains more of this ICP than other Bt products, which means higher potency and cost-effective control of a broad spectrum of worm pests in orchard and vine crops.

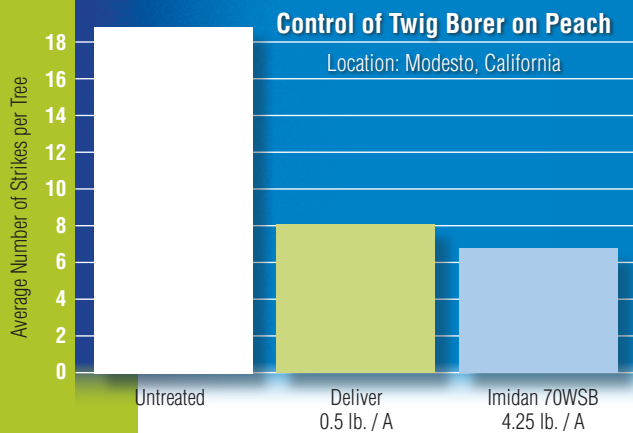
Bioassays by an independent testing laboratory confirm what can be read from the labels: Deliver provides more insecticidal potency per pound than any other Bt product.

Soft on Beneficials

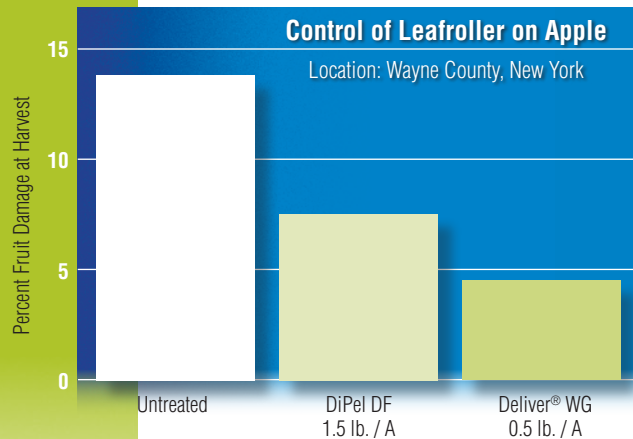
Deliver complements the convenience of dormant sprays and goes one better. The specificity and tank mix compatibility of Deliver allows PCAs to mix it with early season fungicide applications to control worms without disrupting predators or other beneficial species. The use of broad spectrum organophosphate insecticides in dormant sprays can kill beneficials, causing mite flare-ups later in the season. Using Deliver to control worms helps avoid these secondary pest outbreaks.

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Four applications were made (bloom, petal fall, 50% final size and 75% final size) using a backpack sprayer delivering 21 gpa.



Formulated product and rate per acre

Timing and Application

Recommended rates for application vary from 0.5 to 2.0 lbs. / acre. Use lower rates when infestations are light and worms are uniformly small. Multiple worm stages or continuous egg hatches require medium rates. For heavy infestations, larger worms (third-instar) and harder-to-control worms, higher application rates are recommended, especially late in the season. Proper timing and good coverage are crucial with all biological insecticides and applications should be closely monitored.

Apply two bracketed sprays at 7- to 14-day intervals during critical popcorn and petal fall periods. Deliver can also be tank mixed with fungicide sprays at this time. For all pests, apply early while larvae are small. In the case of peach twig borer, application should be timed to target overwintering second-instar larvae as they come out of hibernation during tree bloom.

Consult the Deliver label for complete application information.

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