

## Manage Navel Orangeworm Larvae in Almonds & Pistachios

DiPel® DF Biological Insecticide Dry Flowable† is a proven insecticide derived from a soil bacterium that selectively targets navel orangeworm larvae and delivers effective, economical control. When applied as a program 14 days before hull split and again at hull split, *DiPel* DF can help manage navel orangeworm larvae before they enter the nut. *DiPel* DF also has no harvest residue or MRL concerns because it is exempt from tolerances.

- ▶ **Proven Lepidoptera Larvae Control:** Data shows *DiPel* DF is highly effective against navel orangeworm in almonds and pistachios
- ▶ **Excellent Fit for Resistance Management Programs:** *DiPel* DF is a great rotational partner to reduce the potential of larvae developing resistance to insecticides with other modes of action
- ▶ **Highly Selective—Won't Harm Beneficial Insects:** *DiPel* DF does not diminish or harm valuable beneficials
- ▶ ***DiPel* DF is NOP Compliant and OMRI Listed for Use in Organic Production**

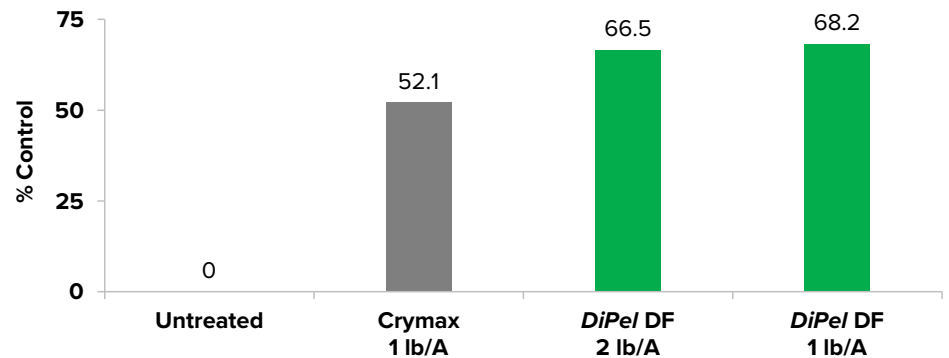


### *DiPel* DF Offers More Control of Navel Orangeworm in Almonds

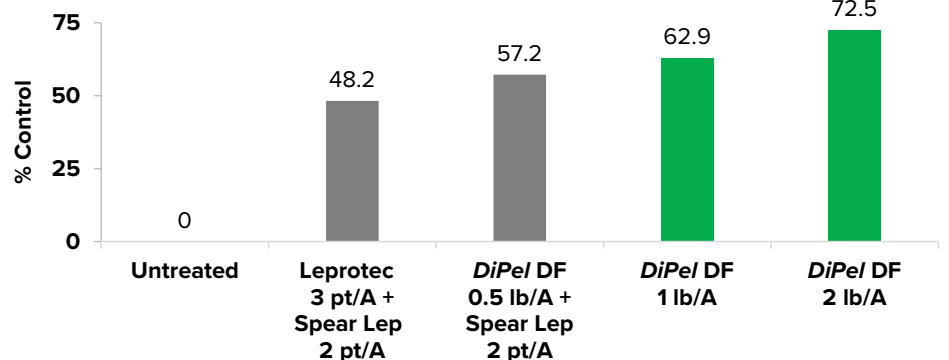
Both rates of *DiPel* DF resulted in the highest percentage control of navel orangeworm, but the 2 lb/A rate applied 4 times at 7-day intervals was the most effective. *DiPel* DF was also more effective than CryMax® and Leprotec® + Spear® Lep, and adding Spear Lep did not increase control vs. using *DiPel* DF alone.

Source: Valent U.S.A.

Two Applications / Product



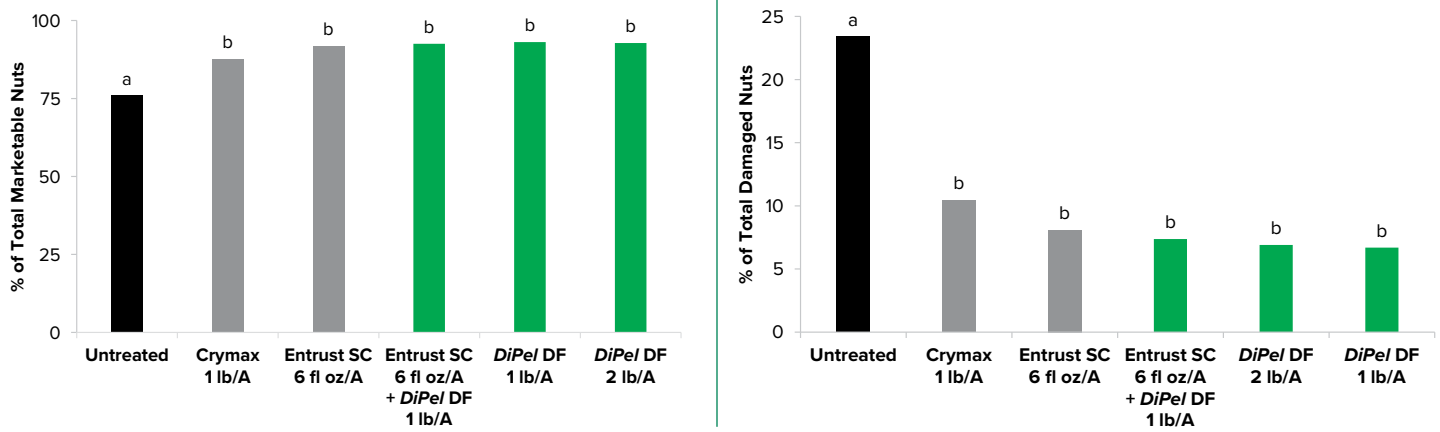
Four Applications / Tank Mix or Product



Based on Cabbage Looper Units (CLUs), the *DiPel* DF rate of 2 lb/A is equal to the Leprotec rate of 3 pt/A. *DiPel* DF has a stronger strain and reduced rates can be used in the tank mix with Spear-Lep to provide equal or better control of the target Lepidoptera.



## DiPel DF Yielded More Marketable Almond Nuts with Fewer Damaged Nuts



DiPel DF yielded more marketable nuts with fewer damaged nuts and was comparable to all other standard treatments.

All treatments were applied twice on a 14-day interval. Source: Kayleigh Paskwietz, Terra Bella, CA

## How To Use

<b>Rate</b>	1–2 lb/A for Tree Nuts (Crop Group 14-12)
<b>Timing</b>	Apply when monitoring (via traps, field history, scouting) indicates that larvae are in the early instars of development. Apply 7 to 14 days before hull split and again at hull split before navel orangeworm larvae enter the nut.
<b>Method</b>	Ground or air
<b>Spray Volume</b>	Coverage is key to control. Use sufficient spray volume. For optimal results, use at least 20 gallons of water per acre for ground application; for aerial application, use at least 3 gallons of water per acre.
<b>Adjuvant</b>	Use a spreader-sticker for hard-to-wet crops or to improve weather-fastness
<b>REI / PHI</b>	4 hours / 0 days—no MRL restrictions

## Other Important Information

- ▶ DiPel DF does not have ovicidal activity and applications must be timed when small larvae are developing. Larvae must be actively feeding on treated, exposed plant surfaces.
- ▶ Under heavy pest population pressure, use the higher label rates, shorten the spray interval, and/or raise spray volume to improve spray coverage



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**Always read and follow label instructions.**

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\*DiPel® DF Biological Insecticide Dry Flowable is NOP compliant and OMRI listed for organic production.



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