

A New Class of Aphid Control for Brassica and Leafy Vegetables

Benefits of Versys[®] Insecticide

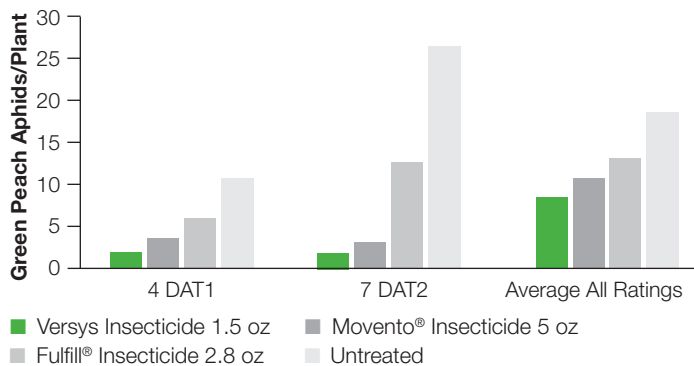
- Fast onset of action that quickly stops insect feeding to limit damage and pathogen transmission
- Strong residual activity
- Unique (IRAC 9D) classification effectively controls aphids and takes resistance development pressure off other products
- Gentle on pollinators and beneficial insects

- Active Ingredient: Afidopyropen
- Mode of Action: Group 9D Pyropenes

Versys Insecticide Is Labeled for the Following Crops and Target Pests:

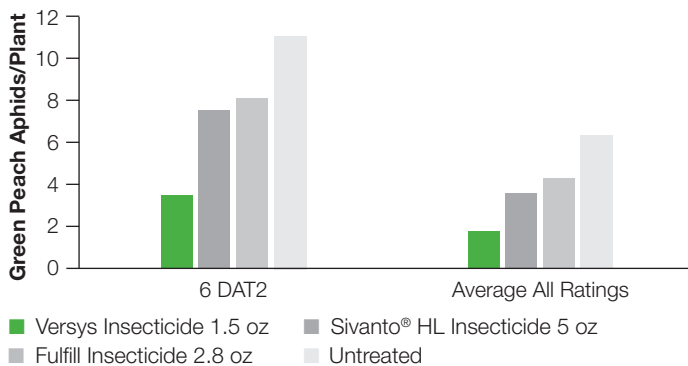
Target Crops	Target Pests
Brassica head and stem vegetables	Cabbage aphid, Green peach aphid, Turnip aphid
Leafy Petioles Vegetables subgroup	Cabbage aphid, Green peach aphid, Turnip aphid
Leafy vegetables group	Foxglove aphid, Green peach aphid, Lettuce aphid, Potato aphid, Cotton/melon aphid

Green Peach Aphid Control on Broccoli



2019 John Palumbo, University of Arizona. Broccoli var. 'Emerald Star' planted Jan 24, 2019. Application Mar 4 and Mar 20, 2019. MSO/O-Si adjuvant 0.25% v/v with all treatments.

Green Peach Aphid Control on Spinach



2019 John Palumbo, University of Arizona. Spinach var. 'Amazon F1' planted Jan 24, 2019. Application Feb 26, Mar 7 and Mar 19, 2019. No adjuvant used.



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Technical Information Bulletin

Aphid Management in Desert Produce Crops* *Relative Efficacy Index*

Product	IRAC MOA	Green Peach	Potato Aphid	<i>A. lactuca</i> ¹	Foxglove Aphid	Lettuce Aphid ²	Cabbage Aphid
Imidacloprid	4A						
Assail® Insecticide	4A						
Sequoia® Insecticide	4C						
Sivanto Insecticide	4D						
Versys® Insecticide	9D						
Fulfill Insecticide	9B						
Beleaf® Insecticide	29						
Movento Insecticide	23						

■ Good Residual Control ■ Control Except Infestations Inside the Head ■ Marginal Control ■ Poor Control

2020. *Selected content from John Palumbo, U of AZ VegIPM Update Vol 11, No. 2, Jan 2020. 1 *Acyrtosiphon lactucae*; no common name. 2 *Nasonovia ribisnigri*; aka "red aphid."

Best Use Recommendations

- Use Rate: 1.5 fl oz/A
- REI: 12 hours
- PHI: 0 days
- Rainfast: 1 hour
- Minimum Application Interval: 7 days
- Maximum Cumulative Rate/Season: 14 fl oz/A
- Minimum Spray Volumes/Acre:
 - Aerial: 2 GPA
 - Ground: 10 GPA

Versys Insecticide Reduces Disease Transmission

Versys insecticide has been shown to reduce the primary and secondary spread of insect pest-vectored viruses by causing rapid feeding cessation that leads to death of the insect pest.

New IRAC Mode of Action Subgroup – 9D

Versys insecticide is a novel member of a group of insecticides known as chordotonal organ TRPV channel modulators and has been classified as **the only member of the new mode of action subgroup 9D**. Versys insecticide selectively binds to the TRPV ion channels, causing them to open and generate continuous chordotonal nerve signals independently of joint movement. This false stretch signaling makes it impossible for the brain to detect sound, gravity and the movement and position of body parts. **Deaf, disoriented and uncoordinated, insects treated with Versys insecticide rapidly cease feeding and die from dehydration and starvation.**

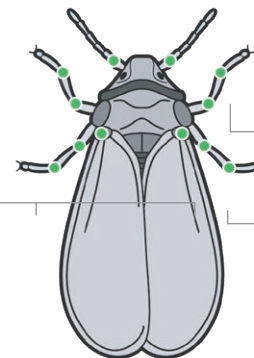
Chordotonal Organs in Insects

Antennae

React to:

- Air motion
- Gravity
- Sound

● Locations of chordotonal organs



Joints

React to:

- Muscle contraction
- Movement

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Versys®
Inscalis® Insecticide