



Spear[®]-T controls three of the major greenhouse and nursery pests — spider mites, thrips and whiteflies — as effectively as conventional insecticides, and with the safety and sustainability of biologicals. With an excellent safety profile for pollinators and other beneficials, Spear-T also has a short 4-hour restricted-entry interval (REI), 0-day pre-harvest interval (PHI), and is MRL exempt. The combination of these characteristics makes Spear-T a valuable new tool for greenhouse and nursery pest management, as well as a safe and versatile rotation partner in integrated pest management programs.

Combining the power of synthetics with the safety and sustainability of biologicals, Vestaron[®]'s Spear insecticide solutions are created using short chains of amino acids, or peptides. The resulting products overcome existing insecticide resistance issues while offering a desired safety profile for workers, beneficials, and the environment.

PRODUCT INFORMATION

PCP #	34679
AI	GS-OMEGA/ KAPPA-HXTX-HV1A
FORMULATION	LIQUID
IRAC GROUP	32
SIGNAL WORD	CAUTION
REI	4 HOURS
PHI	0 DAY
PACKAGE SIZE	5 LITRE, 2X5 LITRE CASE
USE RATE	2 - 3% product solution
SURFACTANT	For best performance use with a NIS or spreader/sticker at labeled rates

KEY FACTS

- New IRAC Group 32 supporting resistance management
 - Mode of Action: Disruption of the nicotinic acetylcholine receptor
- Control equivalent to synthetic options
- Very low risk for beneficials
- MRL Exempt
- Works on contact via foliar spray
- Low risk of phytotoxicity

MAIN CROPS

(refer to label for full list of crops)

- BERRIES
- CANNABIS
- CUCUMBER
- EGGPLANT
- ORNAMENTALS
- PEPPERS
- TOMATO
- VEGETABLE TRANSPLANTS

PESTS CONTROLLED

(refer to label for full list of pests controlled)

- SPOTTED-WING DROSOPHILA
- THRIPS
- TWOSPOTTED SPIDER MITE
- SILVERLEAF/SWEETPOTATO WHITEFLY
- GREENHOUSE WHITEFLY

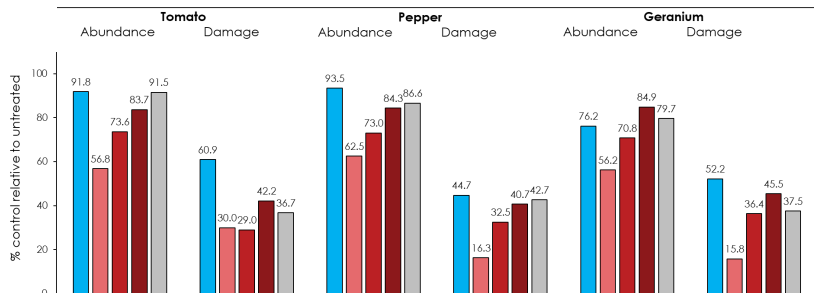




Common to all trials:

- Conducted in greenhouse
- Grower standard varied across trials
- Spear-T rates were 1, 2, 3 gal/acre per 100 gal, or 1, 2, 3% product solutions
- Note that the PMRA label only allows 2-3% product solution, and in these trials we also tested 1% solution
- 4 applications at 7-day intervals
- 6 experimental replicates
- % control values are based on the AUDPC with respect to UTC for both abundance and damage
- NIS at 0.125% v/v was added to the 2% rate to compare with and without NIS
- Any and all information about the site-specific protocol available

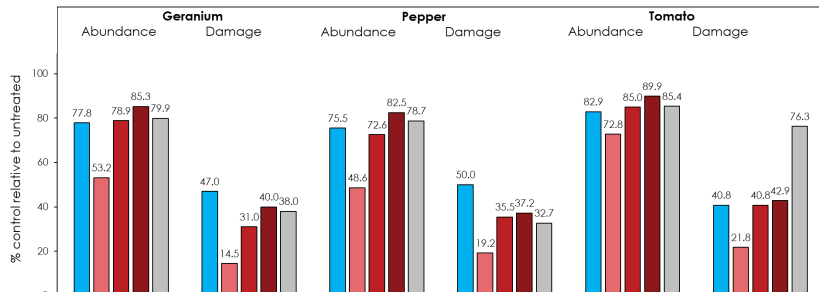
Twospotted Spider Mite (*Tetranychus urticae*)



Notes for Twospotted Spider Mite:

- Tomato, ACDS, NY 2019, Agri-Mek (abamectin)
- Pepper, AgroSci, CA, 2019, Avid (abamectin)
- Geranium, AgroSci, 2019, Avid (abamectin)

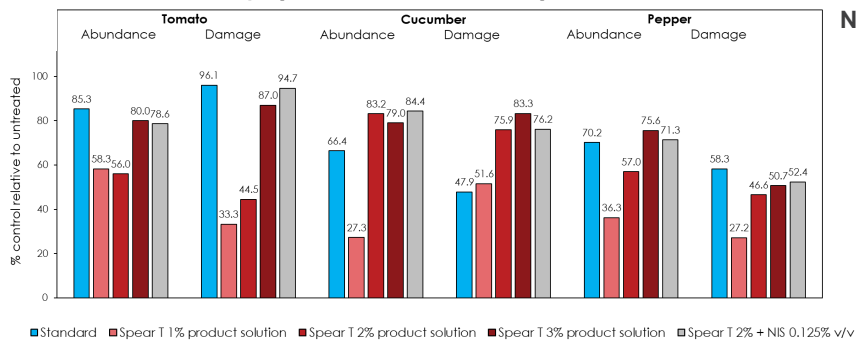
Silverleaf Whitefly (*Bemisia tabaci*)



Notes for Silverleaf Whitefly:

- Geranium, AgroSci, NY 2019, Distance (pyriproxyfen)
- Pepper, AgroSci, NY 2019, Distance (pyriproxyfen)
- Tomato, AgroSci, 2019, Distance (pyriproxyfen)

Western Flower Thrips (*Frankliniella occidentalis*)



Notes for Western Flower Thrips:

- Tomato, ACDS, NY 2019, Agri-Mek (abamectin)
- Cucumber, ACDS, NY 2019, Agri-Mek (abamectin)
- Pepper, AgroSci, 2019, Success (spinosad)

