

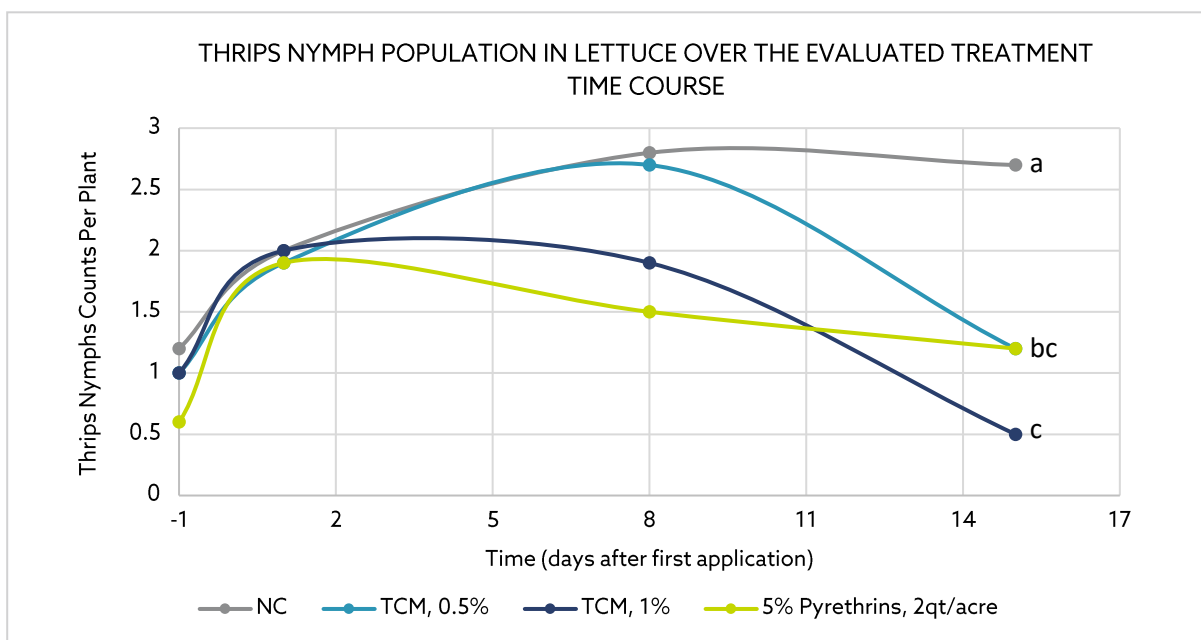


ORGANIC INSECTICIDE FOR WESTERN FLOWER THRIPS

EFFICACY ON THRIPS NYMPH POPULATIONS IN ROMAINE LETTUCE

TRIAL PROTOCOL:

LOCATION: King City, California • **CROP:** Romaine lettuce (*Lactuca sativa*) • **INFESTATION:** Western flower thrips (*Frankliniella occidentalis*) • **PERIOD:** October 22-November 11, 2021 • **DESIGN:** Random complete block of one row (double planted) wide by 20-25 ft. long of lettuce row blocks. Four replicate blocks for each treatment • **SPRAY VOLUME:** 60 gal/acre • **TREATMENT RATES:** Two rates of TetraCURB MAX (TCM) at 64 and 128 fl. oz./100 gal. water | Negative control (NC): Untreated (water) | Industry standard (A.I.: 5% Pyrethrins - Group 3A insecticide) at 2 qt/acre • **APPLICATION TYPE:** R&D CO2 backpack sprayer with 4 nozzles/bed • **APPLICATION:** Once a week for three weeks, after the pre-counts reached on average one nymph per plant • **NYMPH COUNTS:** Prior to the first application and once after each application (24-48 hours post application).

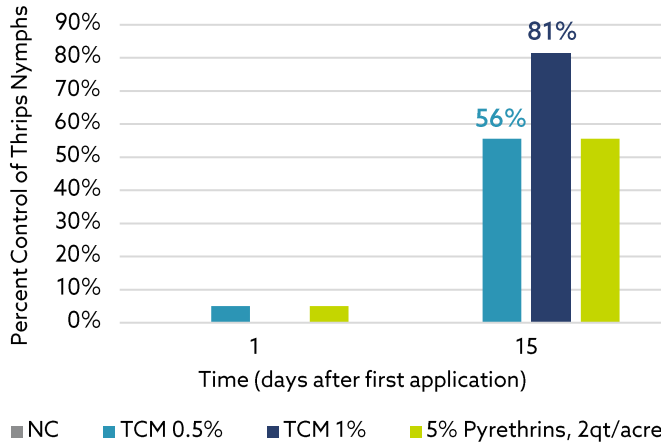


TETRACURB MAX APPLIED AT 1% SHOWED SUPERIOR EFFICACY AGAINST WESTERN FLOWER THRIPS NYMPHS COMPARED TO THE INDUSTRY STANDARD, WITH SIGNIFICANT TREATMENT SEPARATION WHEN LOOKING AT THE NYMPH POPULATION AFTER THE THIRD APPLICATION.

AT THE END OF THE TRIAL, TETRACURB AT 0.5% PERFORMED AS WELL AS THE INDUSTRY STANDARD.



PERCENT CONTROL OF THE THRIPS NYMPH POPULATION ON LETTUCE OVER THE EVALUATED TREATMENT TIME COURSE



TETRACURB MAX AT THE 0.5% RATE WAS COMPARABLE TO THE INDUSTRY STANDARD WITH 56% CONTROL FOLLOWING THE THIRD APPLICATION.

TETRACURB MAX AT 1% RATE WAS ABLE TO CONTROL 81% OF THE THRIPS NYMPHS AFTER THE THIRD APPLICATION COMPARED TO INDUSTRY STANDARD.

NO SIGNS OF PHYTOTOXICITY WERE OBSERVED FROM ANY TREATMENT.

WE RECOMMEND USING TETRACURB MAX IN A LETTUCE IPM PROGRAM TO CONTROL PESTS LIKE WESTERN FLOWER THRIPS.

Top features & benefits

- Smart blend: Active ingredients formulated with emulsifiers, surfactants and synergistic solvents
- No adjuvant required
- No phytotoxicity observed at label rate

Active ingredients

- Castor oil.....20%
- Rosemary oil.....10%
- Clove oil.....3%
- Peppermint oil.....2%

Multiple modes of action

- Neurotoxic effect: Paralysis
- Contact effect: Suffocation and desiccation
- Repellency
- Quick knockdown
- Reduce development of pesticide resistance

Target pests controlled

- Thrips, Lygus
- Aphids, Mites
- Other small, soft-bodied insects

Directions for use

Shake well before use

Must be diluted in water before application

- Recommended rates: 64 fl.oz./100 gal. of water
- Application method: Foliar spray. Full plant coverage required until runoff
- Spray volume (leafy green applications): Recommended at 50-60 gal. of finished solution per acre.
- Treatment interval: 5-7 days (no restrictions).



Sources: Kemin SD-21-24442, Image: shutterstock_1133859392.

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