

Rose Buitenhuis, Vineland Research & Innovation Center. Trial funded by AFE.

BioWorks Products Included in Trial

SuffOil-X® (80% horticultural mineral oil)

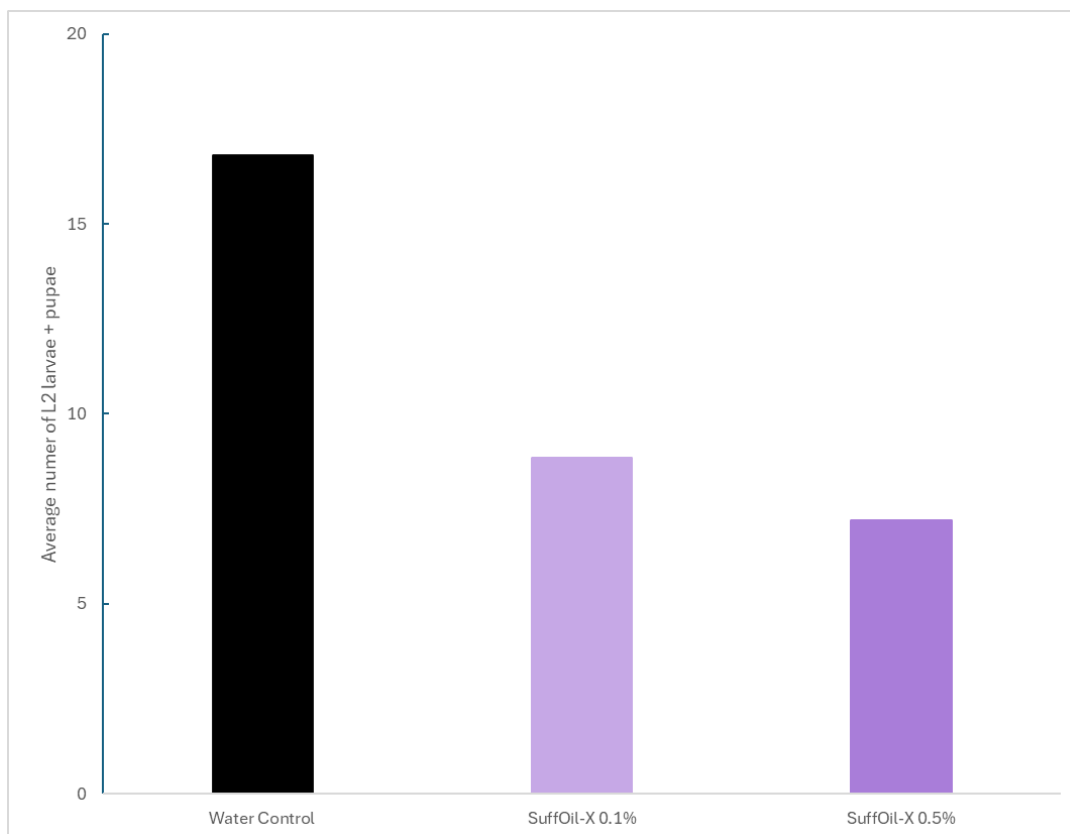
Summary:

SuffOil-X killed thrips eggs after dip application.

Treatment	Rate/1 Liter
Water Check	-
SuffOil-X 0.1%	1 mL
SuffOil-X 0.5%	5 mL

Method Summary

Crop	Chrysanthemum (Var. Springdale Purple)
Location	Laboratory
Pest	Western Flower Thrips (Frankliniella occidentalis)
Trial Design	Randomized complete block with 4 replications
Trial Year	2019
Application Method	Dip



Ten adult thrips were allowed to oviposit for 24 hours then removed. Dip application immediately after adult removal. L2 larvae and pupae were counted 7 days after treatment.

Result Summary

- SuffOil-X suffocated thrips eggs significantly reducing the emergence of thrips larvae.
- Both rates 0.1% (1 mL/liter) and 0.5% (5 mL/liter) caused a significant reduction in thrips compared to the control.

Recommendations from Data

- Start clean by dipping unrooted cuttings or the foliage of rooted cuttings in SuffOil-X at 0.1 – 0.5% (1 – 5 mL/liter) for control of thrips as well as other damaging pests.
- Use rates of 0.1 – 0.25% (1 – 2.5 mL/liter) for most dip situations and for crops that are more sensitive to crop tolerance issues.
- Following the dip, SuffOil-X can be used in a spray rotation to prevent high pest populations. Spray rates for greenhouse ornamentals range from 10 – 20 liters/1,000 liters of water (1 – 2 gallons/100 gallons of water).