

TRIAL DATA SUMMARY

A proprietary 3rd party research company conducted the research.

BioWorks Products Included in Trial

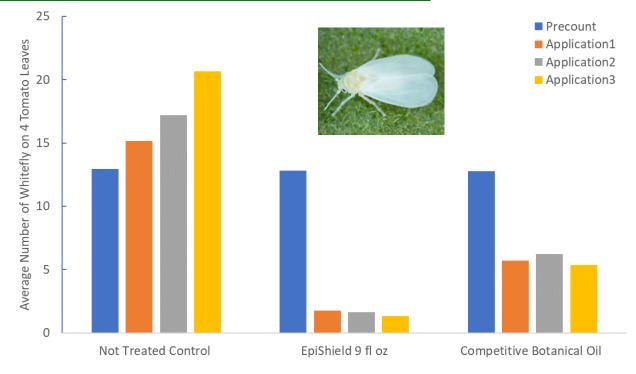
EpiShield™

Summary:

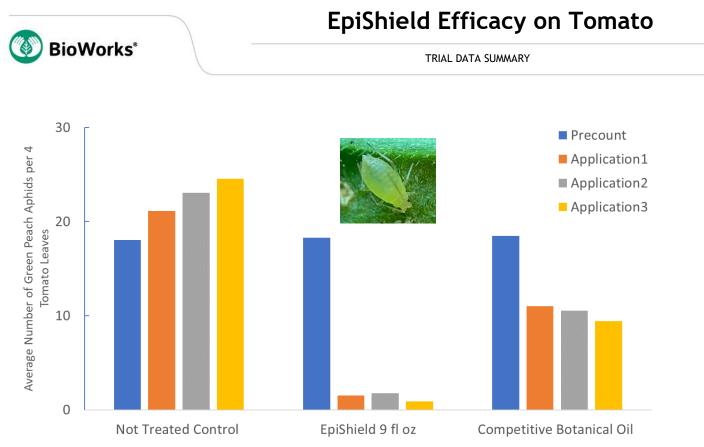
EpiShield controlled whiteflies, aphids, mites, and thrips on greenhouse grown tomatoes.

Treatment	Rate/100 Gallons
Untreated Check	-
Competitive Oil	64 fl oz
EpiShield	9 fl oz

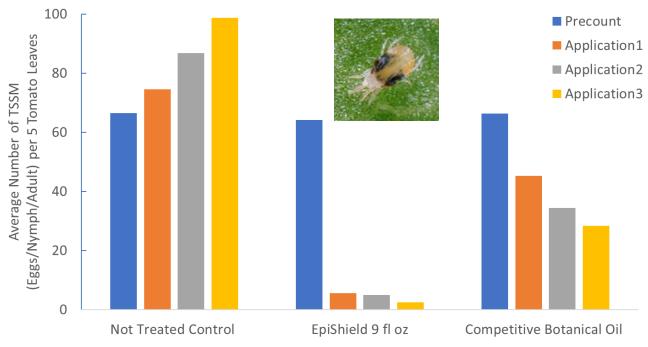
Method Summary	
Сгор	Tomato (IZMIR F1)
Location	Greenhouse
Pest	Greenhouse whitefly (Trialeurodes vaporariorum)
	Green peach aphids (Myzus persicae)
	Twospotted spider mites (Tetranychus urticae)
	Western flower thrips (Frankliniella occidentalis)
Trial Design	Randomized complete block
Application Method	Foliar Spray



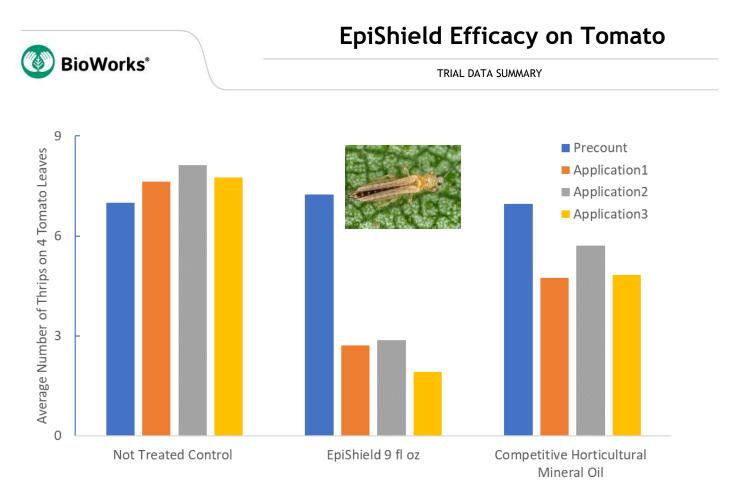
Average number of greenhouse whitefly per 4 leaves. Three applications were made three days apart, data recorded one day after treatment (November 29, December 2, & 5 2021). EpiShield at 9 fl oz caused an 89.7% reduction and a competitive oil product caused a 58% reduction of greenhouse whiteflies after 3 applications.



Average number of green peach aphids per 4 leaves. Three applications were made three days apart, data recorded one day after treatment (October 9, 12, & 15 2021). EpiShield at 9 fl oz caused a 95% reduction and a competitive oil product caused a 48.9% reduction of green peach aphids after 3 applications.



Average number of twospotted spider mites. Three applications were made three days apart, data recorded one day after treatment (October 1, 4, & 7 2021). EpiShield at 9 fl oz caused a 95.7% reduction and a competitive oil product caused a 52.1% reduction of twospotted spider mites after 3 applications.



Average number of western flower thrips per 4 leaves. Three applications were made three days apart, data recorded one day after treatment (November 22, 27, & December 2, 2021). EpiShield at 9 fl oz caused a 73% reduction and a competitive oil product caused a 29.5% reduction of western flower thrips after 3 applications.

Result Summary

- EpiShield (15% peppermint oil, 10% clove oil & 3% sodium lauryl sulfate) significantly reduced whitefly, aphids, mites and thrips after three applications.
- EpiShield did not cause plant phytotoxicity during the study.

Recommendations from Data

- Apply EpiShield at 0.07% (9 fl oz/100 gallons) for control of arthropods.
- Apply EpiShield as a fine spray to full coverage but not the point of run off.
- EpiShield is ideal for integrated pest programs against damaging arthropod pests.