Green Peach Aphids on Peppers

BIOWORKS

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Dr. Eric Clifton, R&D Manager, BioWorks inc.

BioWorks Products Included in Trial

PRINCIPLE WP (Beauveria bassiana strain BW149)

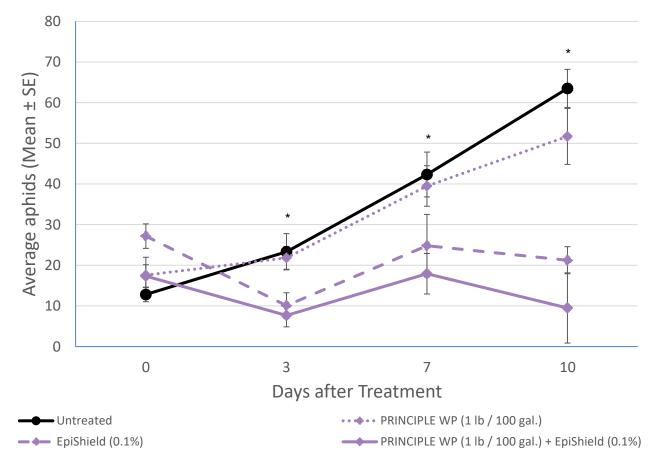
EpiShield (peppermint & clove essential oils)

Summary:

Tank-mixing PRINCIPLE WP & EpiShield controlled green peach aphids on sweet peppers.

Treatment	Rate/100 Gallons
Untreated Control	-
PRINCIPLE WP	1 lb
EpiShield	0.1%
PRINCIPLE WP + EpiShield	1 lb + 0.1%

Method Summary	
Crop	Sweet pepper (Capsicum annuum 'Mini
	Yellow').
Location	Greenhouse
Pest	Green Peach Aphids (Myzus persicae)
Trial Design	2 applications 0 & 7 days apart, 6
	reps/treatment
Application Dates	September 2024
Application Method	Foliar spray



Average number of aphids after two foliar spray applications. Data with a star indicates a statistically

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significant difference from the untreated control.

Result Summary

- EpiShield (0.1% or 12 fl. oz. / 100 gal.) alone provided significant suppression of aphids by 10 days after treatment (66%).
- PRINCIPLE WP (1 lb. / 100 gal.) + EpiShield (0.1%) tank mix provided significant aphid suppression starting day 3 after treatment and provided up to 86% aphid suppression by 10 days after treatment.
- No plant phytotoxicity was observed during the study.

Recommendations from Data

- EpiShield and PRINCIPLE WP can be applied in an integrated program to manage aphids as well as other damaging insect pests.
- Due to aphids' fast life cycle, it is recommended to tank mix PRINCIPLE WP with EpiShield, SuffOil-X, Molt-X or other compatible products.
- Apply PRINCIPLE WP and EpiShield as a fine spray to full coverage.

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