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Dr. Sarah Zukoff, Zukoff Research Services, California

BioWorks Products Included in Trial

PRINCIPLE WP (Beauveria bassiana strain BW149)

Summary:

PRINCIPLE WP controlled western flower thrips on field-grown lettuce.

Treatment	Rate/100	0 Method Summary	
	Gallons	Crop	Lettuce
Untreated Control	-	Location	Field
PRINCIPLE WP*	0.5 lb	Pest	Western flower thrips (Frankliniella occidentalis)
PRINCIPLE WP*	1 lb	Trial	Randomized complete block, 4 reps/treatment
PRINCIPLE WP*	2 lb	Design Application Dates	
Spinetoram SC rotated	7 fl oz/A, 3		July 1, 8, 14, 2024
	pts/A	Application	Foliar spray
*Treatments were tank mixed with a non-ionic		Method	

adjuvant to facilitate good foliar coverage.



Average number of thrips per 5 lettuce plants. Three foliar applications applied. Data with a star indicates statistically significant difference from untreated control.

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Result Summary

- All PRINCIPLE WP treatments provided significant suppression by 7 days after treatment, by over 55%.
- Medium and high rates of PRINCIPLE WP provided significant suppression of thrips by 14 days after treatment, by 60%.
- PRINCIPLE WP provided control similar to the chemical standard.
- No plant phytotoxicity was observed during the study.

Recommendations from Data

- PRINCIPLE WP can be applied at 0.5 2 lb/100 gallons in an integrated program to control thrips as well as other damaging insect pests.
- Apply PRINCIPLE WP as a fine spray to full coverage. Sprench applications (apply to run off) when targeting pupating thrips in the soil.