Fact Sheet

CITRUS RUST MITE

DATE: September 2020

LOCATION: California

NanoCrop

The effectiveness of NanoCrop *powered by PureCrop NanoTech* in controlling Citrus Rust Mite is showcased in this test. A single application of NanoCrop was administered to the test plot, and the insect counts were recorded on a weekly basis for four weeks. The results showed that one week after the application, there was an **82% reduction in the overall population of citrus rust mite**. As the study progressed, **NanoCrop consistently demonstrated its ability to control and suppress the citrus rust mite population**. This study confirms that using NanoCrop as a standalone treatment at 1% is an effective way to control Citrus Rust Mite.

KEY TAKEAWAYS

- Can be used as a standalone treatment for Citrus Rust Mite.
- The mode of action is by bio-selective membrane disruption.
- NanoCrop's nano-particle is what allows great efficacy.
- Mortality is caused by a leaky cell of the insects gut.

These results compare the total amount of live mites to the control. Application should be reapplied every 10-12 to maintain control.

INSECT COUNT

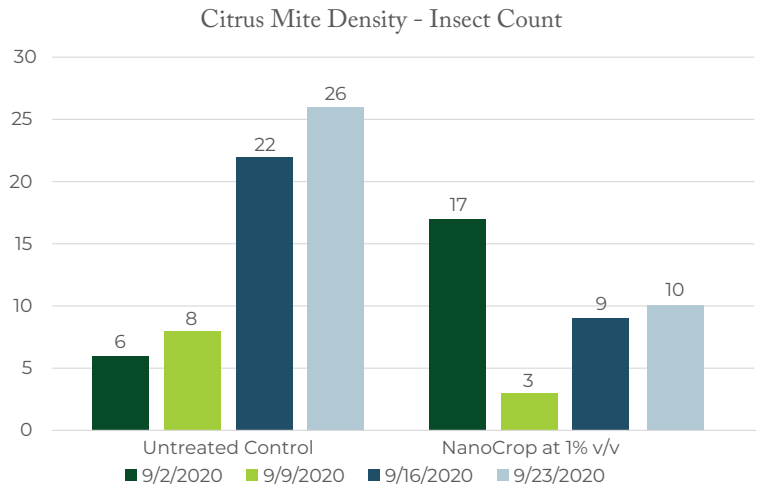
	9/2	9/9	9/16	9/23
CONTROL	6	8	22	26
NanoCrop	17	3	9	10

DILUTION RATES

As A Standalone: 1%-1.5% v/v rate of NanoCrop until control

**Frequency and dilution rates depend on the variation in crops, growing methods, climate, and geography. Adjust your IPM process based on your specific needs.*

BENEFICIAL FRIENDLY · PLANT BASED · ZERO HOUR REI & PHI 0



**All references to "NanoCrop" in this fact sheet and referenced data refer to and reference PureCrop1 data, results, and application. NanoCrop's formula is based on PureCrop NanoTech and is optimized for commercial agriculture application. Results will be comparable.*

Scan the QR Code to read more about this study!

See these results in YOUR fields
Call our team today! +1.707.972.5650

NanoCrop Label Summary

OPTIMIZED FOR COMMERCIAL AG
POWERED BY PURECROP NANOTECH

NanoCrop

Modes of Action

INSECTICIDE

Eliminates sap-sucking insects by interfering with their digestive enzymes, causing constant micelle expansion and rupturing the insect. NanoCrop — Powered by PureCrop NanoTech — is safe for use around beneficial insects, such as honey bees, predatory mites and wasps, and ladybugs.

FUNGICIDE

Contains surface acting agents that physically remove mold and mildew from the leaf's surface. The micelle encapsulates and biodegrades spores, while also preventing reattachment and growth for up to ten days due to its translaminar properties.

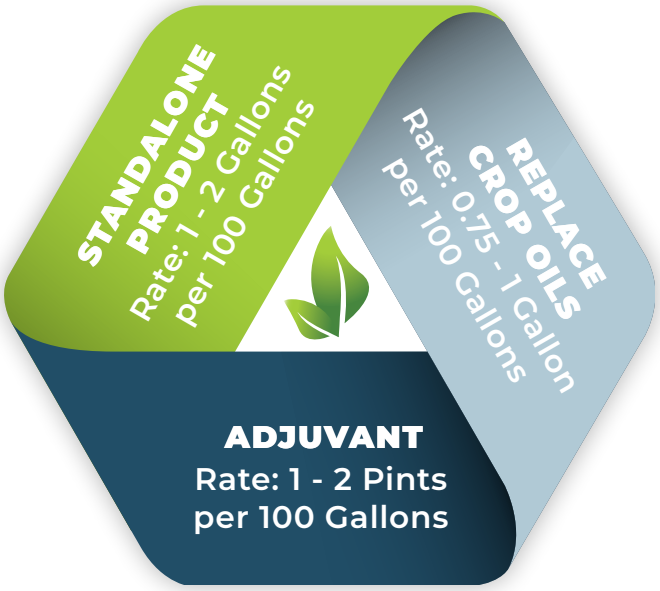
BIOSTIMULANT

NanoCrop is made of long-chain fatty acids that the plant converts into amino acids, which reduces interfacial tension, and enhances mesophyll conductance and ion transfer capacity—resulting in the ability to respond to abiotic stress, maximizing water and nutrient utilization and improve overall plant health.

SUPRA-MOLECULAR SURFACTANT

NanoCrop utilizes surfactant molecules, micelles, to lower the surface tension of water. They enable NanoCrop to spread and adhere to leaf surfaces uniformly, while dispersing evenly in water and mix indefinitely. Micelles do not clog or flood the stomata due to their size and are compatible with most products, except other surfactants.

NanoCrop Uses



PESTS & DISEASES

Including, but not limited to: Aphid, Asian Citrus Psyllid, Broad Mite, Citrus Rust Mite, Spider Mite, Russet Mite, Thrips, Whiteflies, Lygus, Stink Bug, Leaf-Footed Plant Bug, Mealybug, Scale, Snail, Botrytis, Fusarium Wilt, Downy Mildew, Powdery Mildew, Alternaria, Anthracnose, Bacterial Blast, FireBlight.

BUFFER RECOMMENDATIONS

Buffer water to pH 5.5-5.8 with citric acid before adding NanoCrop. Do not buffer with ammonia sulfates or sodium based buffers.

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