

Fact Sheet

CITRICOLA SCALE

DATE: August 2021


LOCATION: California





US NATIONAL COLLECTION OF SCALE INSECTS, PHOTOGRAPHS, USDA AGRICULTURAL RESEARCH SERVICE, BUGWOOD.ORG

NanoCrop, Powered by PureCrop NanoTech, was applied at 1% v/v to young oranges (cv. Cara cara) to evaluate control of citricola scale. For comparison, a Flupyradifurone product was applied at 12 fl oz per acre. Two total applications were made of NanoCrop, whereas the conventional insecticide was applied once. Applications were made with a Stihl mistblower and delivered at the desired mature tree coverage (300 gpa). Each plot consisted of a single tree and each treatment was replicated four times.

KEY TAKEAWAYS

 Effective on soft scales, armored scale, citrus thrips, and mites.

 Utilizing NanoCrop as a bio-stimulant will help increase Brix and calcium levels.

 NanoCrop an organic product, provided nearly the same protection as leading conventional treatment.

“PureCrop [NanoTech] applied at 1% v/v twice showed good citricola scale control (about 50%), similar to that of [a Flupyradifurone product].”

- Stephen Deitz
Research Biologist
Sawtooth Ag Research Inc.

DILUTION RATES

Preventative care:

0.75% rate of NanoCrop once every 10 - 12 days.

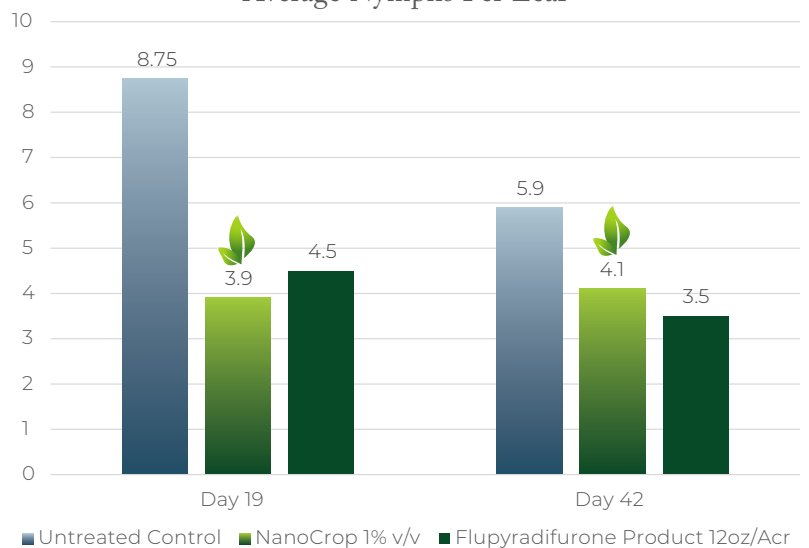
Curative treatment:

1% 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.



Average Nymphs Per Leaf



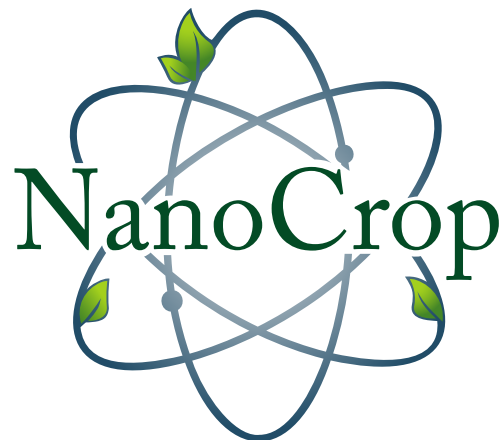
*All references to "NanoCrop" in this fact sheet and referenced data refer to and reference PureCrop1 data, results, and application. NanoCrop's formula is based on PureCrop NanoTech and is optimized for commercial agriculture application. Results will be comparable.



Scan the QR Code to read more about this study!

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NanoCrop Label Summary



OPTIMIZED FOR COMMERCIAL AG
POWERED BY PURECROP NANOTECH

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.

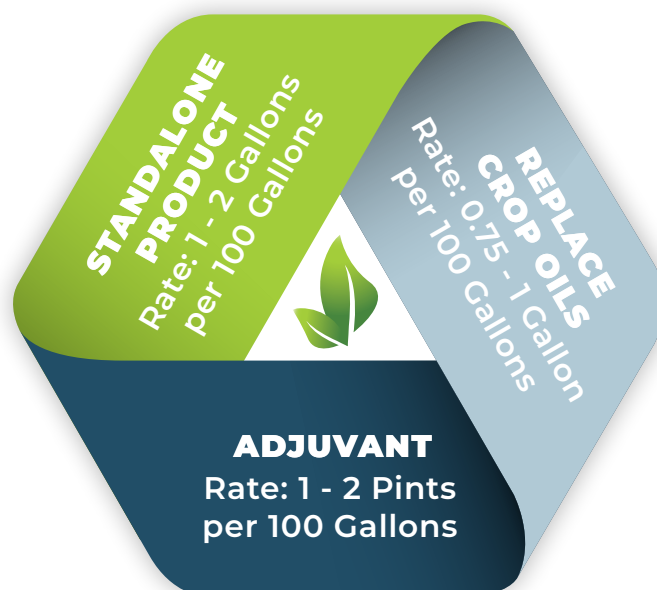
BIOSTIMULANT

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.

