

Fact Sheet

THRIPS


DATE: August 2020


LOCATION: California




Evaluations from this study analyze the effectiveness of NanoCrop *Powered by PureCrop NanoTech* against Western Flower Thrips. The data shows the percent mortality of thrips for each day throughout the seven day trial, comparing an untreated control to three different dilution rates of NanoCrop. A 1.5% v/v dilution, 1% dilution, and 0.75% dilution each received a single direct spray, 2 trigger pulls from a 12-inch distance.

KEY TAKEAWAYS

 Due to particle size, NanoCrop penetrates hard to reach areas.

 Use NanoCrop as a preventative care and a curative treatment.

 NanoCrop is not your standard “knockout” treatment. Our eco-friendly product can take several days after the initial application to eliminate unwanted pests.

Treatment	30 Min	24 Hr	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
Control - Untreated	0%	0%	0%	0%	3%	13%	38%	85%
NanoCrop 1.5% v/v	5%	0%	0%	25%	55%	98%	100%	100%
NanoCrop 1% v/v	5%	8%	8%	15%	48%	80%	95%	100%
NanoCrop 0.75% v/v	0%	13%	15%	15%	15%	33%	73%	98%

**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.*

DILUTION RATES

A 1.5% v/v rate of NanoCrop provides the best eradication. Mixing NanoCrop to other chemistry can provide an excellent active ingredient to the tank.

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



The results above show that a 1.5% v/v dilution rate of NanoCrop provided the best results against thrips, with **98% mortality at day 5 after a single application**. The lower rates of NanoCrop also provided significant eradication after 7 days when the trial ended, with 1.5% v/v, recording 100% mortality and 1% v/v, recording 98% mortality.

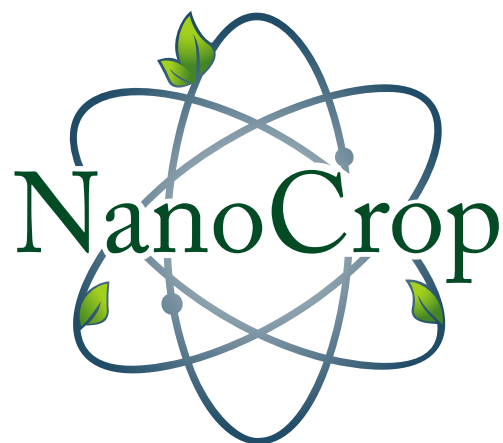
Formula:
Percent Mortality = # Dead/Total Population X 100



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.

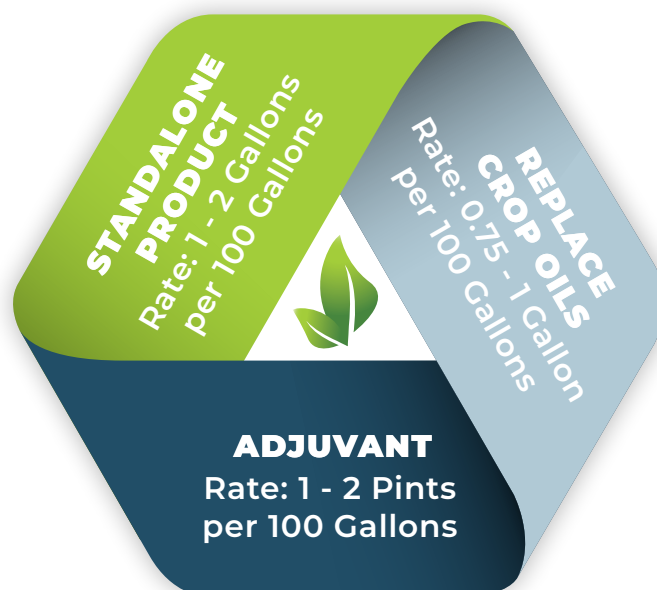
BIOSTIMULANT

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.

