

Fact Sheet

WALNUTS



DATE: October 2020

LOCATION: Sacramento Valley, California



This side-by-side study was conducted in a Sacramento Valley walnut orchard, demonstrating NanoCrop's efficacy as a biostimulant. **After four applications of NanoCrop, Powered by PureCrop NanoTech during midseason, the walnut plot yielded significantly better compared to the control.** The results show a drastic difference in edible weight, defect weight, and total kernel weight of the walnuts.

KEY TAKEAWAYS

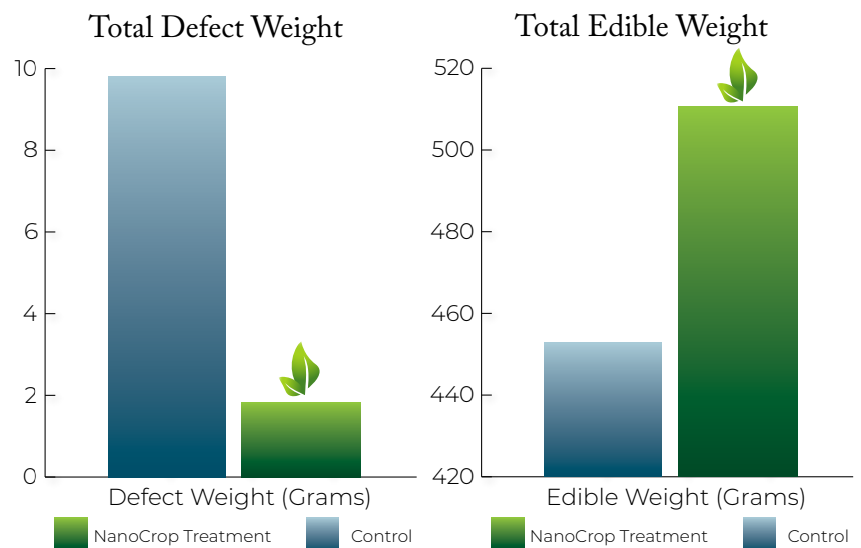
- Biostimulant properties lead to higher yields in edible weight.
- Decrease in off-grades when used full season.
- Decrease disease pressure when used in a fungicide program.
- Lower insect risk and damage due to insecticidal properties.

	Defect Weight	Edible Weight
NanoCrop	1.92	511.6
Control	9.93	453.97
	% Decrease 80.7%	% Increase 12.7%

DILUTION RATES

The plot received four treatments via air-blast orchard sprayer at 1.25% v/v NanoCrop with 100 gallons of water per acre, or 5 total gallons of NanoCrop.

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



**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.

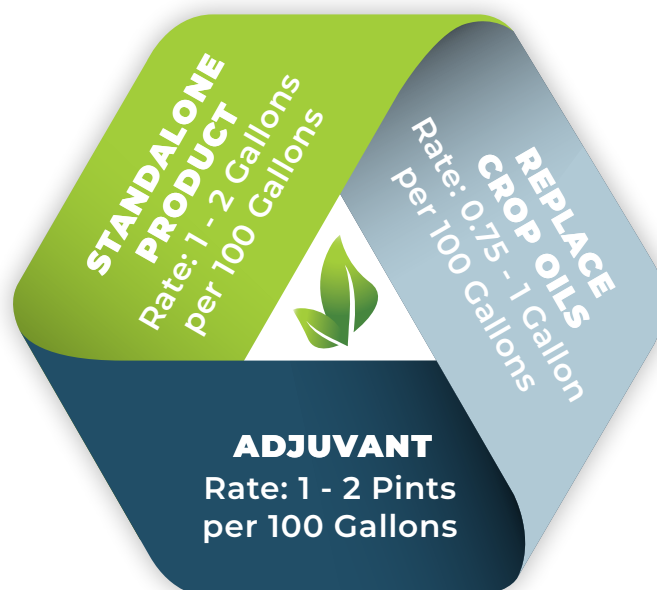
BIOSTIMULANT

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.

