

Case Study

DORMANCY SPRAY FOR NUT CROPS



A successful crop season heavily relies on plant health, and Craig Calandra, a farmer in San Joaquin Valley, believes that **starting with dormancy sprays is key to limiting issues**. Craig discovered the efficacy of NanoCrop, an alternative to conventional crop oil, in treating his almond crops.



How Craig Used NanoCrop:

Add 1-2 gallons of NanoCrop per 100 gallons of water in your dormant spray.



KEY TAKEAWAYS

- NanoCrop is an effective alternative to conventional crop oil.
- Prevent fungal diseases and pests while improving overall plant health.
- NanoCrop can eliminate the need for an extra spray.
- Performs equally or better than conventional crop oil.

NanoCrop proved to be superior to crop oil, as Craig was able to **delay treatments until February's bloom without the risk of phytotoxicity**, unlike conventional crop oil, which required spraying as early as December or January. Moreover, Craig **eliminated at least one extra spray**, which was necessary when using crop oil to eliminate any Alternaria spores caused by late-season rains in January or early February.

In addition, **NanoCrop significantly prevented fungal diseases and pests** while enhancing overall plant health, resulting in better control of Scale, Mites, and Alternaria spores. The product also blended well with other sprays and was easy to use.

As growers face numerous pressures that can adversely impact the crop's appearance, value, and volume, finding effective solutions to prevent these issues is imperative. Based on NanoCrop's outstanding performance, Craig Calandra of Uvas, Inc. plans to use it again for dormant crops in 2023 and beyond.

**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.

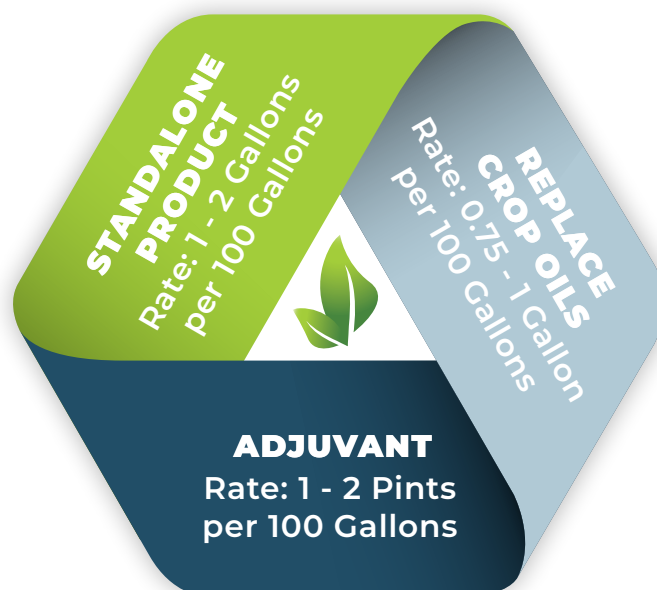
BIOSTIMULANT

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.

