Fact Sheet

HEMP TERPENE

DATE: 2019 - 2020
LOCATION: Hollister, California

NanoCrop

NanoCrop, Powered by PureCrop NanoTech, significantly increases terpene levels. The graph below shows data from three different hemp harvests, comparing them to an untreated control from 2019. The first trial received three applications, while the other two trials received ten and eleven total applications. **A notable trend is that plants that receive more applications of NanoCrop have higher overall terpene levels.**

KEY TAKEAWAYS

- Terpenes are responsible for the aromas, flavors, and colors of plants.
- Terpenes repel predators such as pests and animals.
- Plants with increased terpenes have a more potent smell and taste.
- More applications throughout the season increased terpene levels.

PERCENT INCREASE VS CONTROL

Treatment Amount	% Increase
3X TREATED	149.26%
10X TREATED	1196.38%
11X TREATED	1410.58%

DILUTION RATES

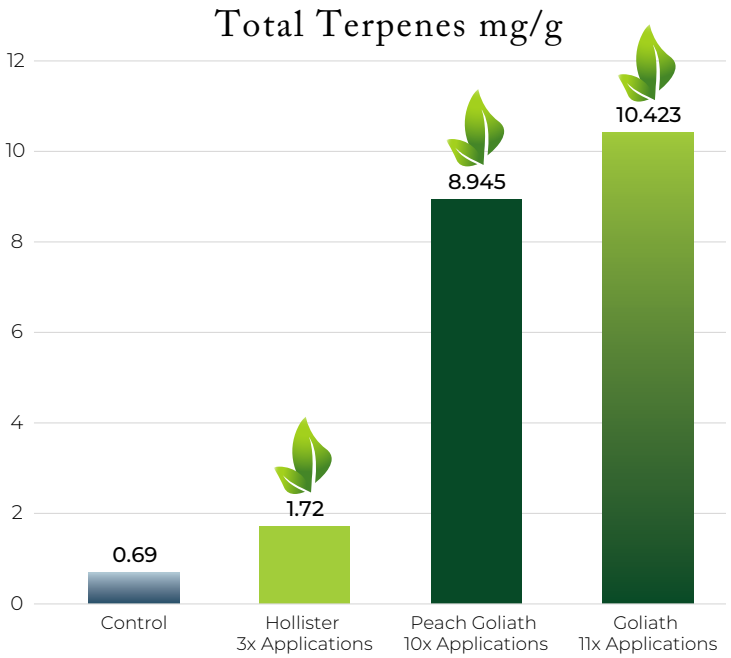
Curative treatment:
1.5% v/v rate at higher frequency until control

Preventative care:
1% v/v rate every 7 - 10 days

**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

Scan the QR Code to read more about this study!



**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.*

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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.

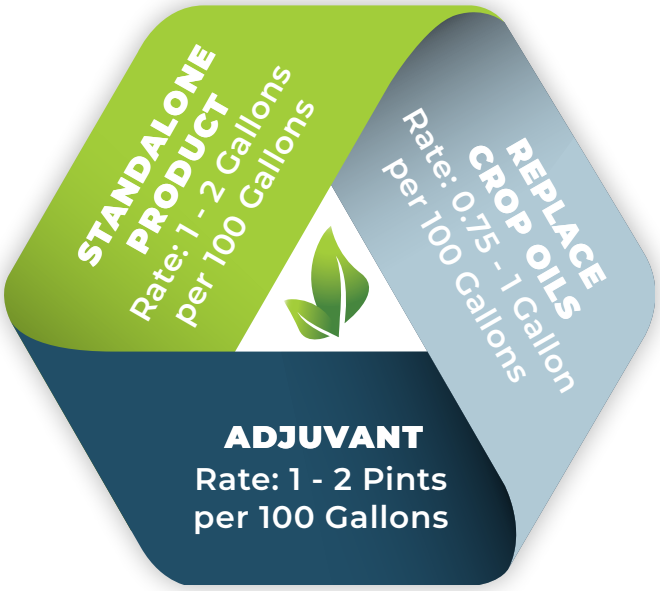
BIOSTIMULANT

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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