Trial Study

BRIX & CALCIUM INCREASE IN CHERRIES

NanoCrop

COLLOIDAL·SEA

DATE: May 2023
LOCATION: Patterson, CA

A trial conducted by West Coast Ag Products and all samples were taken to be analyzed by JM Lord to examine the effects of NanoCrop and ColloidalSea on cherries' brix levels (sweetness) and calcium content.

NanoCrop and ColloidalSea were compared to the grower's standard seaweed. NanoCrop was sprayed three times and ColloidalSea sprayed twice. Nanocrop was sprayed at 1 qt/100 and CollidalSea was used at a rate of 1qt per acre. The results showed significant improvements in brix levels and calcium content.

ColloidalSea with the grower stand adjuvant outperformed the standard seaweed, increasing brix levels in cherries by 11%. This indicates that ColloidalSea can enhance the sweetness and flavor of cherries compared to conventional seaweed products.

Using **NanoCrop as an adjuvant with the standard seaweed resulted in a 9.33% increase in brix levels**, making the cherries even sweeter.

KEY TAKEAWAYS

NanoCrop increased calcium levels in cherry tissue samples by 51% when used as a carrier.

NanoCrop increased brix levels by 9.33%, enhancing the sweetness of cherries.

ColloidalSea showed an 11% increase in brix levels compared to the standard seaweed, indicating its potential as a superior product for improving fruit flavor.

In terms of calcium content, NanoCrop showed a remarkable 51% increase in cherry tissue samples compared to the standard seaweed. This suggests that **NanoCrop can significantly improve the calcium levels of cherries**, enhancing their nutritional value and overall quality.

These findings offer exciting opportunities for cherry growers seeking to improve the quality, taste, and nutritional content of their crops. By incorporating NanoCrop and ColloidalSea into their cultivation practices, farmers may increase the market value and consumer appeal of their cherries.
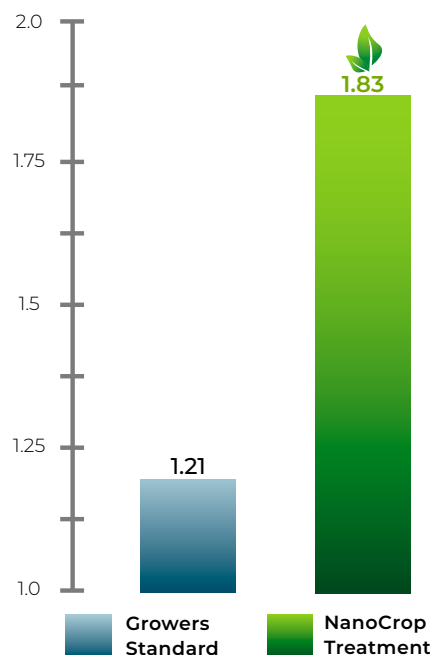
DILUTION RATES

- NanoCrop at 1 qt. per 100 gal.
- ColloidalSea 1 qt.

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 INSECT FRIENDLY · PLANT BASED · ZERO HOUR REI & PHI

Calcium Level Report

	Calcium Level
Growers Standard	1.21
NanoCrop Treatment	1.83

BRIX LEVELS

Block 1 Grower Standard	16.20
Block 1 ColloidalSea	18.00
Block 2 No NanoCrop	15.00
Block 2 with NanoCrop	16.40

Scan the QR Code to read more about this study!

See these results in **YOUR** fields
Call our team today! **+1.707.972.5650**

NanoCrop
Label Summary

OPTIMIZED FOR COMMERCIAL AG
POWERED BY PURECROP NANOTECH

Modes of Action

NanoCrop Uses

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.
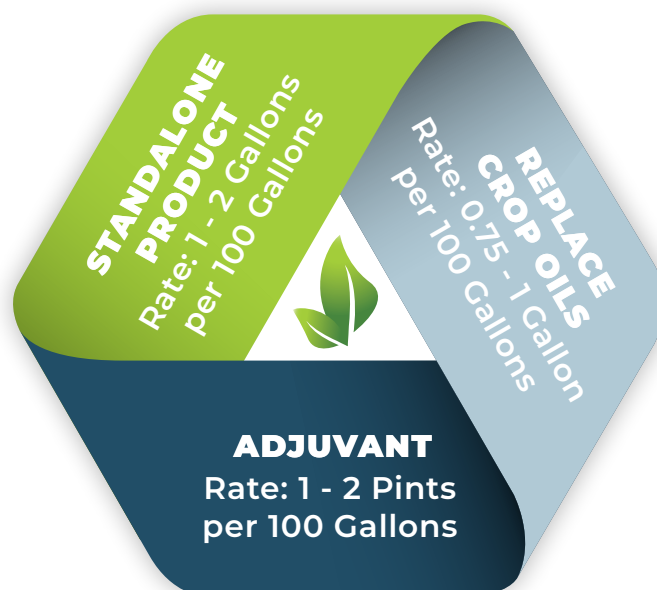
BIOSTIMULANT

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.

STANDALONE PRODUCT
Rate: 1 - 2 Gallons per 100 Gallons

REPLACE CROP OILS
Rate: 0.75 - 1 Gallon per 100 Gallons

ADJUVANT
Rate: 1 - 2 Pints per 100 Gallons

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.

OMRI
LISTED
For Organic Use · OMRI.org