Fact Sheet

WINE GRAPES

DATE: Fall 2020
LOCATION: Washington

NanoCrop

The following findings are the outcome of a single use of NanoCrop, *Powered by PureCrop NanoTech*, on Cabernet Sauvignon and Merlot wine grapes. The application was made by a Viticulturist from WA State two weeks before harvest. When used independently, **NanoCrop in a concentration of 1% v/v resulted in a 5.9% increase in Brix levels**. A more notable increase was observed in grapes treated with a mixture of 1% NanoCrop and 4 lbs of monopotassium phosphate. It is worth noting that **NanoCrop does not wash the grape's bloom coating**, even when applied close to the harvest time.

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KEY TAKEWAYS

- **Preserve fruit bloom:** Unlike some other crop treatments, NanoCrop will not wash off the natural bloom of fruit, preserving their visual appeal & quality.
- **Versatile compatibility:** NanoCrop is highly compatible with a wide range of products, making it a flexible solution for various agricultural applications.
- **Enhance color and promote uniformity:** NanoCrop is designed to improve the coloring and uniformity of crops, resulting in a more visually appealing and marketable product.
- **Combat powdery mildew:** NanoCrop has been shown to effectively clear up powdery mildew when applied, helping to prevent damage and preserve crop yield.

BRIX INCREASE

	NanoCrop	NanoCrop & P&K
CABERNET	5.9%	9.3%
MERLOT	2.7%	5.4%

DILUTION RATES

TEST PLOT 1:
Single 1% v/v application of NanoCrop

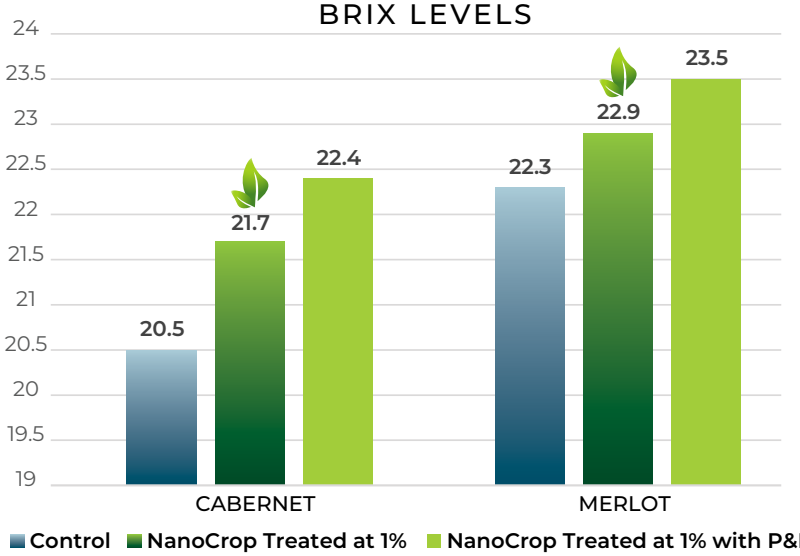
TEST PLOT 2:
NanoCrop at 1% v/v with 4 lbs of monopotassium phosphate

**Frequency & 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

Washington Wine Grape Trial

BRIX LEVELS



**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

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.

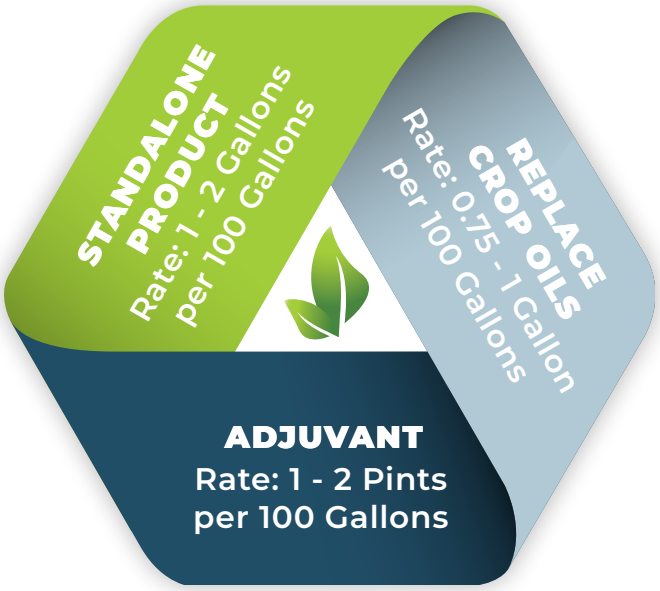
BIOSTIMULANT

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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