

## PRODUCT DATA SHEET



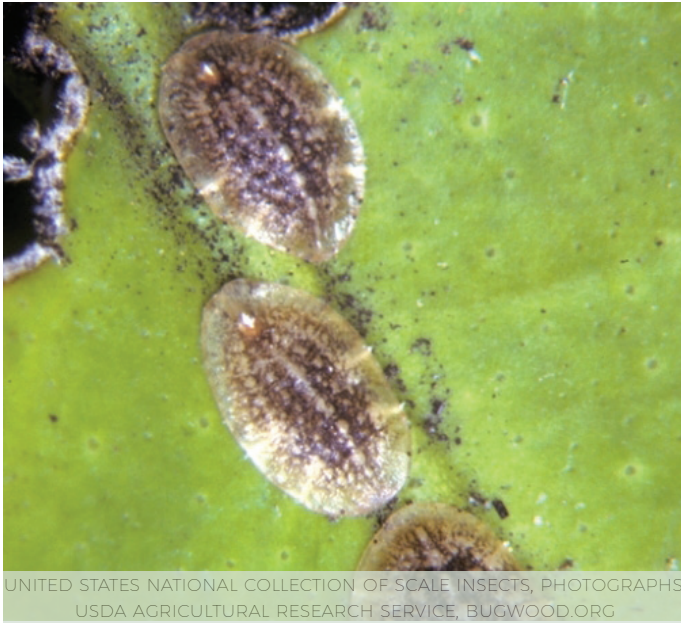
A New Approach

# CITRICOLA SCALE

## August 2021

PureCrop1 was applied at 1% v/v to young oranges (cv. Cara cara) to evaluate control of citricola scale. For comparison, Sivanto was applied at 12 fl oz per acre. Two total applications were made of PureCrop1, where as Sivanto was applied once. Applications were made with a Stihl mistblower and delivered at the desired mature tree coverage (300 gpa). Each plot consisted of a single tree and each treatment was replicated four times.

Full study available on our website: [PureCrop1.com/Studies](https://PureCrop1.com/Studies)



UNITED STATES NATIONAL COLLECTION OF SCALE INSECTS, PHOTOGRAPHS, USDA AGRICULTURAL RESEARCH SERVICE, BUGWOOD.ORG

## KEY TAKEAWAYS



PureCrop1 is effective on soft scales, armored scale, citrus thrips, and mites.



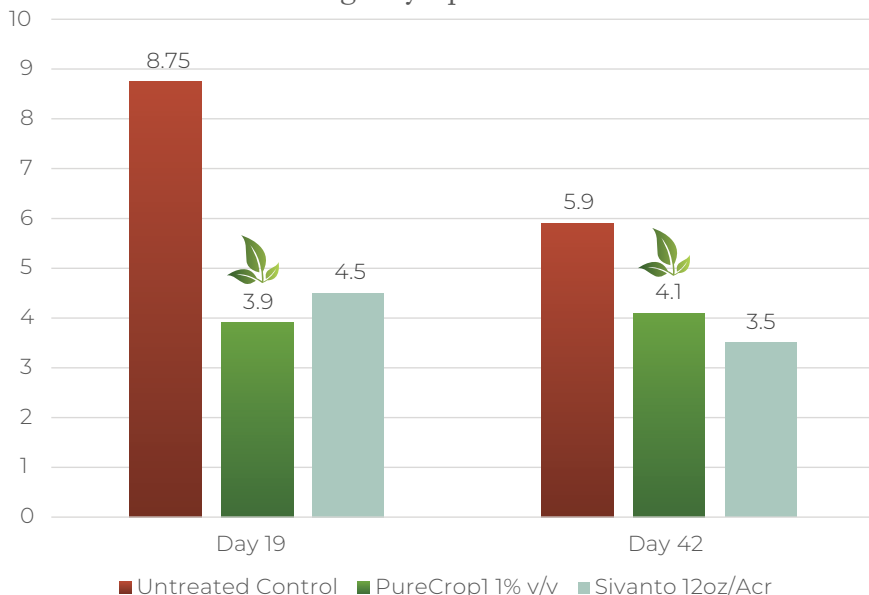
Utilizing PureCrop1 as a biostimulant will help increase Brix and calcium levels.



PureCrop1 an organic product, provided nearly the same protection as leading conventional treatment.

## STUDY DATA | THE PURE RESULTS

Average Nymphs Per Leaf



“PureCrop1 applied at 1% v/v twice showed good citricola scale control (about 50%), similar to that of Sivanto.”

- Stephen Deitz  
Research Biologist, Sawtooth Ag Research Inc.

### DILUTION RECOMMENDATION

#### Preventative care:

0.75% rate of PureCrop1 once every 10 - 14 days

#### Curative treatment:

1% rate until control

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



# PureCrop1<sup>®</sup>

## USES

### Standalone Product

PureCrop1 can be used as a standalone product to effectively eliminate pests, mold, and mildew while boosting plant health. PureCrop1 is best used in an IPM program. Use before pressures arise as a preventative care, or as a curative treatment to eradicate an infestation.

### Replacing Crop Oils

PureCrop1 offers numerous advantages over conventional crop oils, such as stimulating plant growth and being bio-selective to sap-sucking insects, which means it will not harm beneficial insects. Our formula will not burn plants, clog the stomata or separate in water; it is also tank mixable with sulfur. PureCrop1 provides a sustainable, biodynamic solution to agriculture.

### Adjuvant

Thanks to PureCrop1's nano-size and ability to chelate a wide range of molecules, it is a great addition to conventional agriculture. When used as an adjuvant, PureCrop1 can be mixed with all other nutrients, herbicides, and pest control products to increase efficacy and improve working time of conventional chemistries.

### Buffer Recommendations

Buffer water to pH 5.5-5.8 with citric acid before adding PureCrop1. Do not buffer with ammonia sulfates or sodium based buffers.

## MODES OF ACTION

### Insecticide

PureCrop1 eliminates sap-sucking insects by penetrating the body of the insect, interfering with their digestive enzymes, which causes constant expansion of the micelle and ruptures the insect. PureCrop1 is bio-selective leaving beneficial insects unharmed, including but not limited to predatory mites, ladybugs, bees, predatory wasps.

### Fungicide

PureCrop1 contains surface acting agents, aggregates that physically remove mold and mildew from the surface of the leaf. The micelle encapsulates, biodegrades and washes away mold and mildew. The translaminal properties of PureCrop1 prevent mold and mildew from reattaching and growing up to ten days.

### Biostimulant

PureCrop1 is made up of long-chain fatty acids that decrease interfacial tension, increase mesophyll conductance, and improve ion transfer capacity. This leads to induced systemic resistance and increased Brix levels, which help the plant resist pests naturally and respond more quickly to stress.

### Supra-Molecular Surfactant

PureCrop1 is a cluster of surfactant molecules that lower the surface tension of water, helping it to spread and stick. The electrical properties of PureCrop1 cause the micelle to act like non-opposing magnets, dispersing the micelles evenly throughout the water. Due to the micelle's size it will never clog or flood the stomata and is compatible with all other products, excluding other surfactants.



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