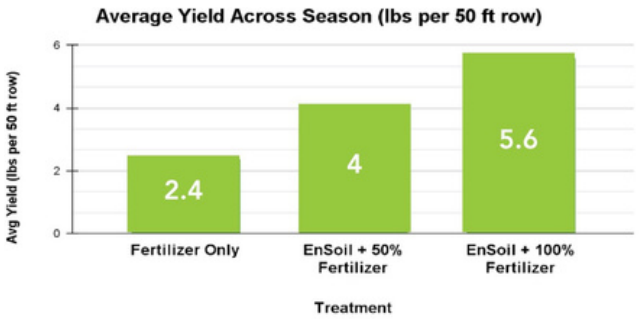
EnSoil Algae®: Burton Strawberry Farm Trial 2024-2025

Increased Yield, Enhanced Quality, and Improved Shelf Life in Georgia Field Trial

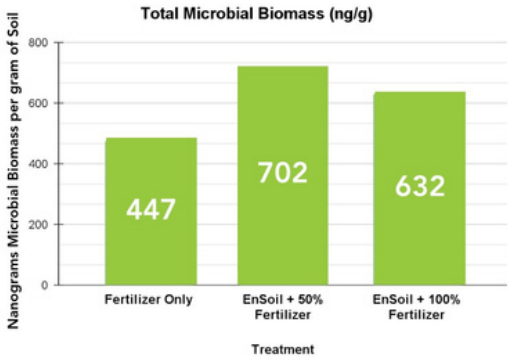
Results

- **Increased strawberry yield**, with the highest yield seen in plots receiving both EnSoil Algae® and full fertilizer.
- **Significant reduction in Botrytis fruit rot**, especially when EnSoil Algae® was combined with the full fertilizer rate (up to 30% less fruit surface covered with mold).
- **Higher total sugar values** (sweetness/flavor) in strawberries when EnSoil Algae® was applied, especially with fertilizer reduction.
- **Increased levels of several important micronutrients** in the fruit, such as copper, iron, zinc, and molybdenum.
- **Improved shelf life stability** of fruit in treatments, with EnSoil Algae® contributing to lower mold rates during storage.
- **Enhanced soil microbial biomass and diversity** according to PFLA analysis, indicating a positive shift in soil biology.
- **Potential for reduced fertilizer** use, leading to possible financial savings without compromising yield or quality.

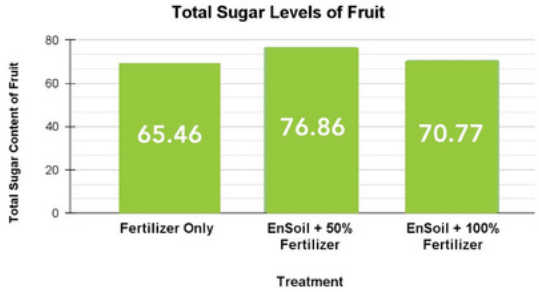
1) Increased Yield in Both EnSoil Treatments



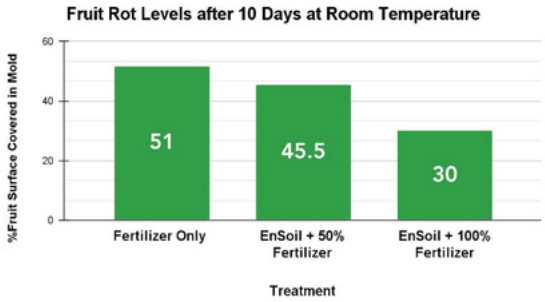
2) Higher soil microbial biomass in EnSoil Treatments according to PLFA Tests



3) Enhanced flavor with higher Total Sugar Values



4) Improved Shelf Life in EnSoil Treatments: Reduced % Fruit Surface Covered with Mold/Rot



Trial Description: Burton Farms in Georgia to assess the impact of EnSoil Algae®, a soil biostimulant, on strawberry production. Different fertilizer regimes were compared: standard fertilizer, EnSoil Algae® with half the usual fertilizer rate, and EnSoil Algae® alongside the full fertilizer program. The trial measured strawberry yield, fruit quality, storage stability, and soil health indicators.

Application Description: EnSoil Algae® was applied at a rate of 32 fluid ounces per 4.5 acres (approximately 7.1 ounces per acre) using the farm's standard drip irrigation system. In one treatment, EnSoil Algae® replaced half of the standard 10-5-5 liquid fertilizer applications, while another treatment combined EnSoil Algae® with the full fertilizer program. Applications followed the farm's typical fertilizer schedule during the growing season.

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EnSoil Algae®

Shelf Life Study Images

Botrytis Gray mold for three treatments.



First Picked



EnSoil + Fertilizer



EnSoil + 1/2 Fertilizer



Fertilizer Only

NON-REFRIGERATED SHELF LIFE

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EnSoil Algae®

Made in USA

Trial Design

Grower: Frank Burton, Burton Farms
Researcher: Herb Young, Squeeze Citrus
Location: Coolidge, GA

Grower Standard Fertilizer: 10-5-5 liquid injected via drip irrigation
Field Size: 4.5 acres
Treatment Plots: 4 replications with 225 ft beds serving as beds

Planting Date: Bare root strawberries transplanted Oct 15, 2024

Treatments:

- EnSoil (7.1 oz/Acre) + 100% Fertilizer
- EnSoil (7.1 oz/Acre) + 50% Fertilizer
- Full Grower Standard Fertilizer Program

GOAL: Evaluate any change in yield and quality of strawberries in an EnSoil treatment with a 50% fertilizer rate, EnSoil + full 100% fertilizer rate treatment, and untreated 100% fertilizer rate control.

Measurements:

1. Yield by plot (total lbs harvested per bed area)
2. Storage stability - length of time before fruit has significant mold or rot at room temperature
3. Vigor (visual Ratings)
4. Soil biology testing (Phospholipid fatty acid test)
5. Strawberry nutritional value testing



Trial Overview

This trial, conducted by Herb Young of Squeeze Citrus LLC in collaboration with Burton Farms, assessed the impact of EnSoil Algae®—a biostimulant soil amendment developed by Enlightened Soil Corp—on strawberry production under commercial conditions in Coolidge, Georgia. The primary objective was to evaluate whether EnSoil Algae® could effectively replace half of the synthetic fertilizer applications and to measure subsequent effects on crop yield, fruit quality, post-harvest storage stability, and soil health.

Despite early challenges related to grower experience and the emergence of *Neopestalotiopsis*, a novel strawberry pathogen in the region, application of EnSoil Algae® resulted in increased yield, enhanced shelf life (as evidenced by reductions in fruit mold during storage), elevated concentrations of key micronutrients (such as zinc and iron) in fruit tissue, and notable improvements in sugar content (fruit sweetness) when combined with full fertilizer rates.

Soil health analyses revealed shifts in microbial biomass and diversity, supporting the potential of EnSoil Algae® to restore and enhance soil biology, particularly in fumigated and microbiome-depleted soils. These findings demonstrate both agronomic and economic benefits of integrating EnSoil Algae® into commercial strawberry management systems.

Growers using EnSoil Algae® on strawberries could expect higher yields, sweeter fruit, longer shelf life, and improved crop quality—while reducing fertilizer use and boosting soil health for long-term success.

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