

COASTAL
BIOTECH



PRODUCT BROCHURE

A SUCCESSFUL
HARVEST,
EVERY TIME

2020

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Boosters/ Biostimulants

Coastal Biotech Biostimulants Impact on Crop Production and Soil Quality

We create biostimulants, derived from macroalgae, and enhanced with microorganisms to optimize functionality for higher performance and protection for major plant groups.

Our solutions give your crops strong early growth, good nutrition and the ability to tolerate today's growing challenges.

GROWTH

Strong and healthy growth in plants

PROTECTION

Resiliency against abiotic and biotic stress - heat, drought

QUALITY

Enhances taste, colour, and reduces post-harvest spoilage



Growth + Yield

Developed to enhance overall growth, flowering, fruit set and improve yield parameters.



Stress Resilience

Developed to help the plant remain vigorous in hostile growing conditions in order to improve yield quality and quantity.



Protection

Developed to protect your harvest from unnecessary loss cause by fungus, viroids and pests.



Crop Quality

Developed to ensure your crops meet high grading standards -look, size, color, taste, and aroma.



ENHANCES
Rooting



IMPROVES
Nutritional
Uptake



PROTECTION
Environmental
Stresses



IMPROVES
Overall Yield
and Quality

WHAT IS Eco PRIMA™?

Natural plant performance. Proven biological activation.

Eco PRIMA™ by Coastal Biotech is a next-generation biostimulant that enhances crop performance by activating the plant's natural biological systems. It improves nutrient efficiency, strengthens stress tolerance, and supports consistent yields — even under growth challenges such as;

- Temperature Extremes (Heat and Cold),
- Drought,
- Low light quality,
- Limited nutrients and,
- Physical damage/root disturbance



PRIMA™ BENEFITS



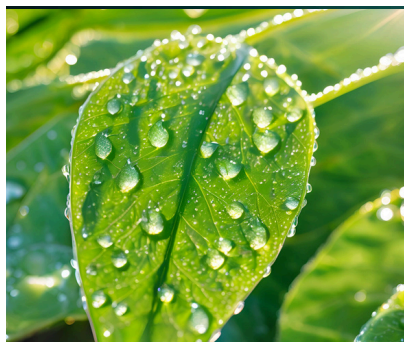
Supports rapid and uniform germination by activating early metabolic pathways and enhancing root initiation.

GERMINATION



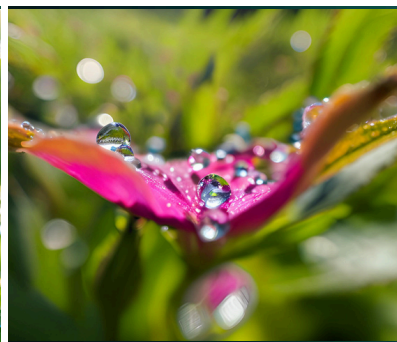
Enhances root architecture and nutrient uptake efficiency, driving a robust architecture for growth.

**ROOT & STEM
DEVELOPMENT**



Stimulates consistent bud formation, flower size, stem elongation, and qualities needed for international markets.

**FLOWER INITIATION
& DEVELOPMENT**



Strengthens plant resilience during late-stage stress, improving flower longevity, color intensity, and shelf life.

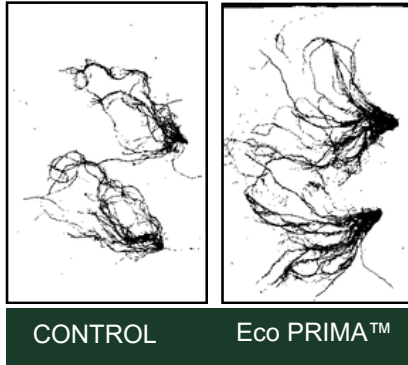
**MATURATION,
HARVEST**



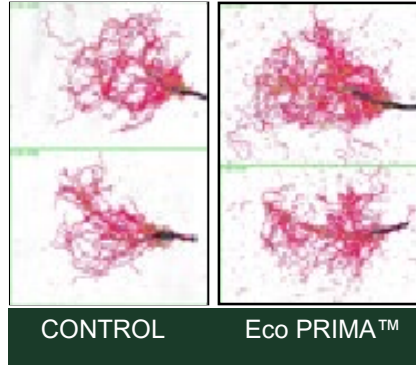
ENHANCES ROOTING: Our biostimulants have the ability to decrease nutrient losses through a consistent release of nutrients (NPK reduction) - providing essential macronutrients, trace elements, and natural phytohormones, which help develop and control major aspects of plant growth such as germination, stem elongation growth, flower development, and flowering time - leading to higher economic yield.

Applications of Eco PRIMA™ at planting and during establishment ensure a strong and healthy crop from the start.

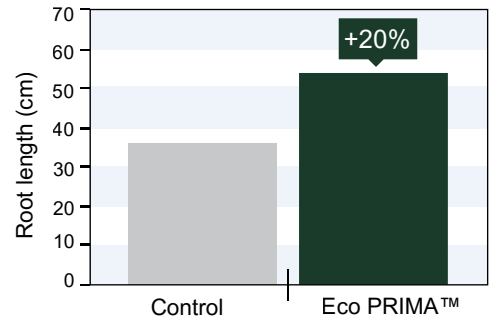
ROSE ROOTS



ROSE ROOTS



ROSES – TOTAL ROOT LENGTH



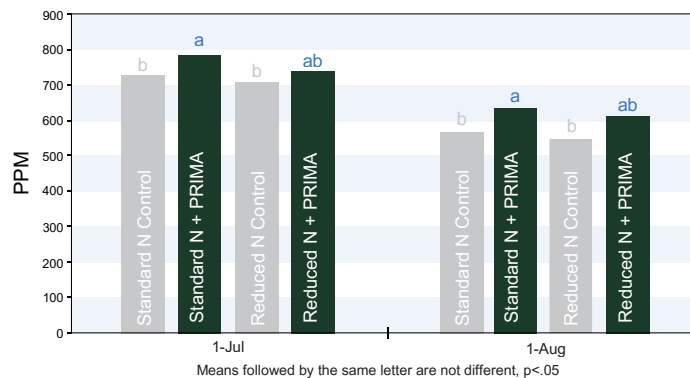
Adding Eco PRIMA™ to your application program at planting leads to a faster early development and a stronger root system that is able to support an increased fruit load all season long.



IMPROVES NUTRITIONAL UPTAKE: Eco PRIMA™ enhances rooting by modulating the plant hormones that stimulate root growth. Plants with healthier root systems can absorb more water and nutrients from the soil, resulting in a stronger, more productive crop. PRIMA supports a strong below soil architecture that improves the uptake, bioavailability and transport of nutrients within plants.

When you apply Eco PRIMA™ as part of your regular application program, you are ensuring your crop gets the most out of every ounce of fertilizer.

TOMATOES, UNIVERSITY OF ALGARVE
Nitrate-N Concentration (PPM) From Petiole Sap



The tomato trial in Algarve, Portugal shows similar results at two different readings.

Reducing nitrogen by 50% results in lower petiole nitrate levels compared to the corresponding fertility treatment.

In this trial, the PRIMA-treated tomatoes in the reduced-Ntreatment had petiole nitrate levels similar to the standard fertility program.



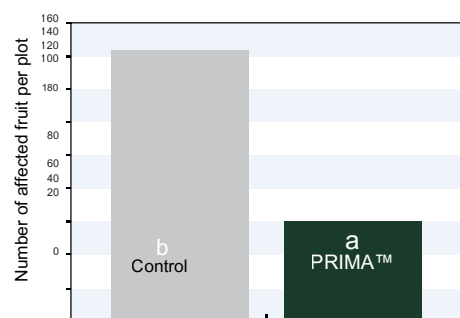
MITIGATES ENVIRONMENTAL STRESSES: Stress threatens crop quality by causing poor establishment and increased susceptibility to pest and disease damage. Eco PRIMA™ helps your crops better resist common stressors by improving tolerance to challenging growing conditions.

Eco Prima™ contains bioactive compounds such as mannitol, unique polysaccharides and betaines, which improve plants' tolerance to a variety of sub-optimal growing conditions including drought, chill, heat and salinity of the soil.

The bioactive compounds elicit changes in gene expression within the plant resulting in increased levels of stress protective compounds, including antioxidants and cytokinins.

BLOSSOM END ROT OF PEPPERS

PRIMA™ improves drought and heat tolerance, which results in less blossom end rot



Means followed by the same letter are not different, p<.05



Eco Prima™ HELPS TO IMPROVE OVERALL YIELD AND QUALITY

Optimised to reach market and export quality

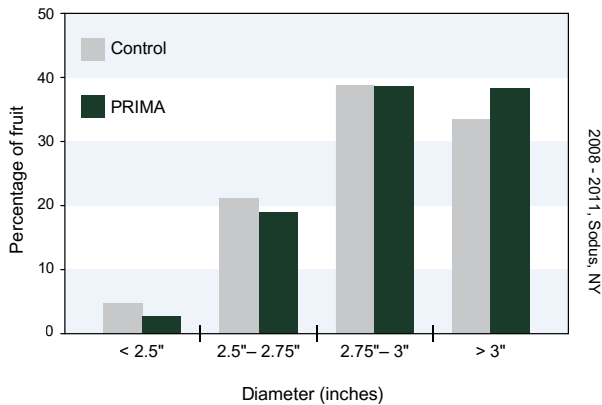
Eco Prima™ affects each crop by providing specific benefits that enhance its quality.

APPLES – SIZE, COLOR



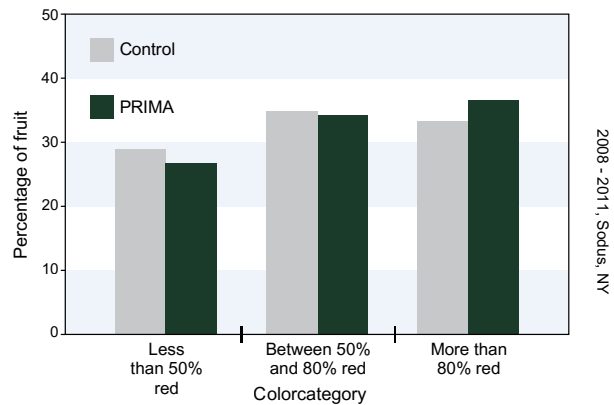
APPLES SIZE

Across four years of trials, PRIMA™-treated apples were larger.



APPLES COLOR

Across four years of trials, PRIMA-treated apples had better color (more apples in the best color category).



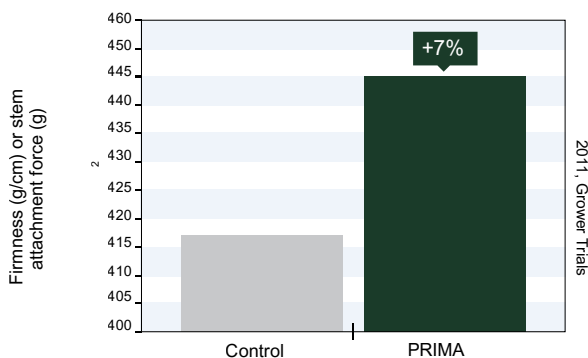
In apples, Eco Prima™ works at a cellular level by improving the production of naturally occurring plant hormones that lead to increased cell division and enlargement, as well as beautiful fruit coloring.

CHERRIES – FIRMNESS, WEIGHT



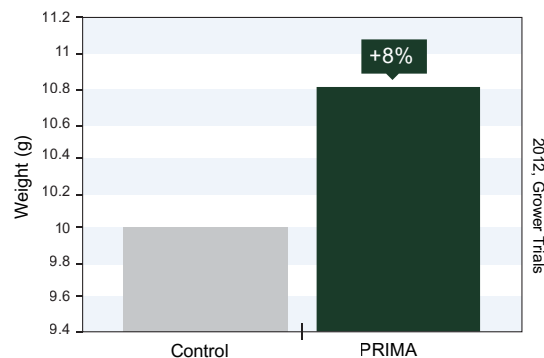
CHERRY FIRMNESS

Eco PRIMA-treated cherries were firmer, which indicates a better-quality fruit.



AVERAGE CHERRY WEIGHT

Eco PRIMA-treated cherries were 8% heavier, which means they were larger.

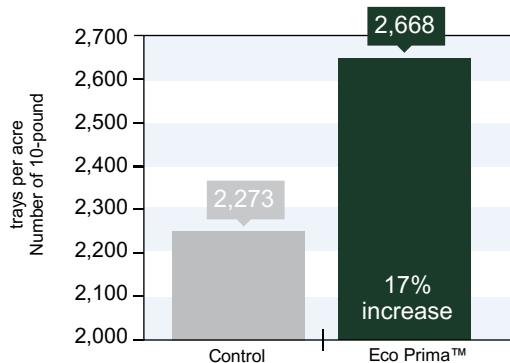


Eco Prima™ works at a cellular level by improving the nutritional status of your crop, leading to larger, firmer fruit. In addition, Eco Prima™ improves the natural production of hormones which increase fruit size and firmness. Both size and firmness are desirable characteristics of cherries and result in a premium price paid to the grower.

STRAWBERRIES – YIELD, GROSS REVENUE

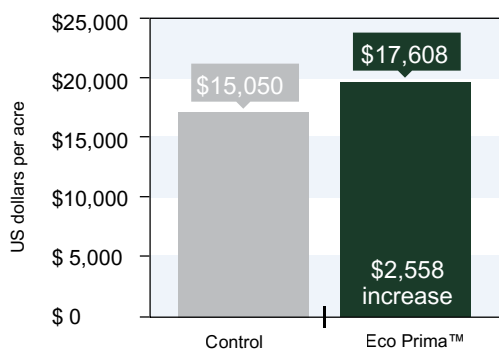
FRESH MARKET YIELD OF STRAWBERRIES

Eco Prima™ promotes a better crop from planting to harvest. Over a series of five different trials under various climate conditions, Eco Prima™ increased the total number of trays harvested per acre by 17%.



STRAWBERRIES GROSS REVENUE

Based on the market price on the day picked, Eco Prima™ increased gross revenue per acre by US \$2,558.

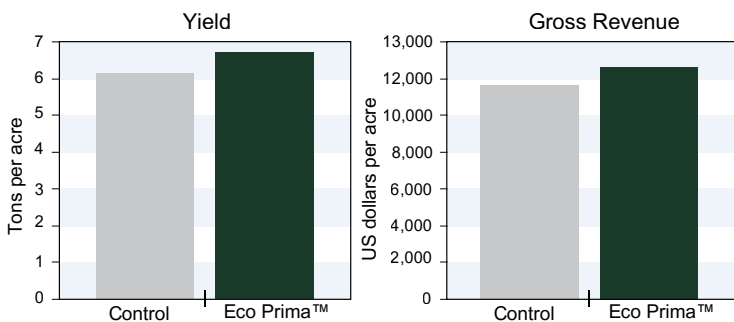


Strawberry plants that grow strong, full root systems take up more key nutrients and tolerate stress better. This allows for more crown development, maximized fruit set and improved yield.

WINE GRAPES – YIELD, QUALITY

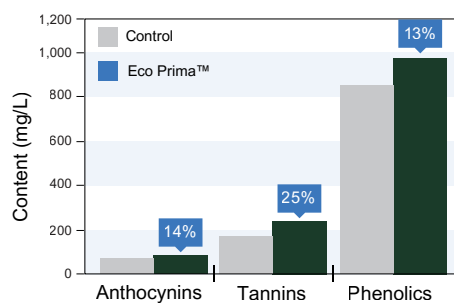
CABERNET SAUVIGNON YIELD AND GROSS REVENUE

In a South African field trial, the application of Eco PRIMA™ increased wine grape yield by 5%. With premium Cabernet Sauvignon grapes valued at approximately US \$660 per ton, this yield improvement translated into an additional gross revenue of approximately US \$230 per acre.



WINE QUALITY

Higher concentrations of key quality compounds such as anthocyanins, tannins, and total phenolics were observed. Grapes demonstrated enhanced structure, improved color intensity, and greater overall quality potential.



Eco Prima™ applications help increase wine grape yields while maintaining, and enhancing, overall wine quality. It improves berry set and minimizes crop losses caused by environmental stress. Eco Prima™ also stimulates the production of naturally occurring stress-related compounds, such as anthocyanins, which enhance juice quality and contribute to the production of premium wines.

INCREASE YOUR CROP'S POTENTIAL!

Eco Prima™ supports vigorous early crop growth, enhances nutrient uptake, and strengthens your crop's ability to withstand modern growing challenges. It works at the cellular level by helping regulate the plant's hormonal balance, promoting improved development and higher yields. For optimal performance, begin applying Eco Prima™ early in the season.

WHAT IS Eco VITALITY™?

Eco Vitality™ by Coastal Biotech is designed to support plants during critical development stages by activating key physiological processes that promote stronger roots, healthier foliage, and improved metabolic efficiency.

Particularly effective under challenging growing conditions such as:

- Temperature fluctuations (heat and cold stress)
- Water limitations and irregular irrigation
- Transplant shock and root disturbance
- Reduce the required level of fertiliser and other inputs, whilst having higher yields



Robust

Enhanced natural crop protection & defence leading to strong and healthy growth in plants.



Resilient

Biostimulants increase tolerance to abiotic stress, such as drought and extreme temperatures.



Higher Yield- Lower loss

Biostimulants can be adapted to farmer needs and can be used to reduce fertiliser use, whilst seeing higher yield results.

Eco Vitality™ - Powering
Plant Energy from Within.



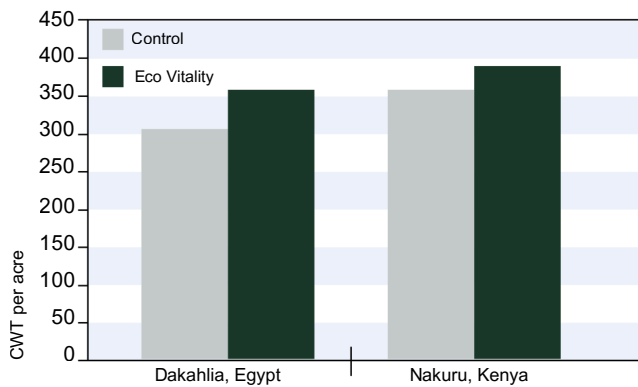
ECO VITALITY™ - TARGETS HIGH GROWTH AND ENHANCED NATURAL PROTECTION & DEFENCE

Optimizing nutritional uptake and stress management leads to higher yields.

Eco Vitality™ is an enhanced formulation designed to target high growth and enhanced natural protection and defence areas across Cereals, Root & Tubers, Citrus trees and fruiting vegetables. You will see faster growth, bulkier and higher survival of your yields.

POTATOE YIELD

Eco Vitality™ improved yield by an average of 12%

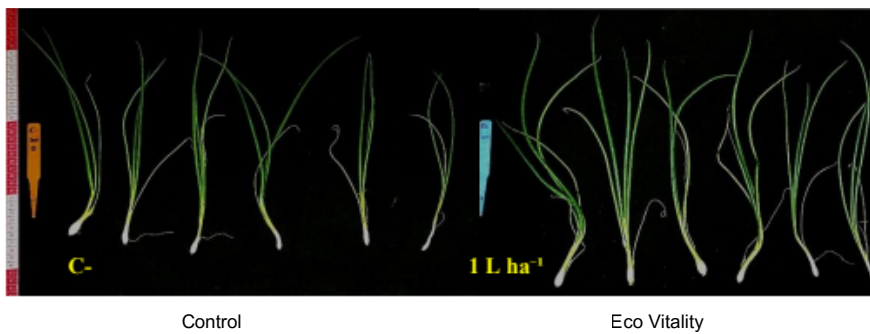


Eco Vitality™ can reduce the required level of fertiliser and other inputs, without affecting potato yields (an increase in nutrient use efficiency). Our trial data have shown that quality features such as skin finish, tuber size, protein, vitamin C, starch and phenol content are positively improved.

ONIONS – YIELD

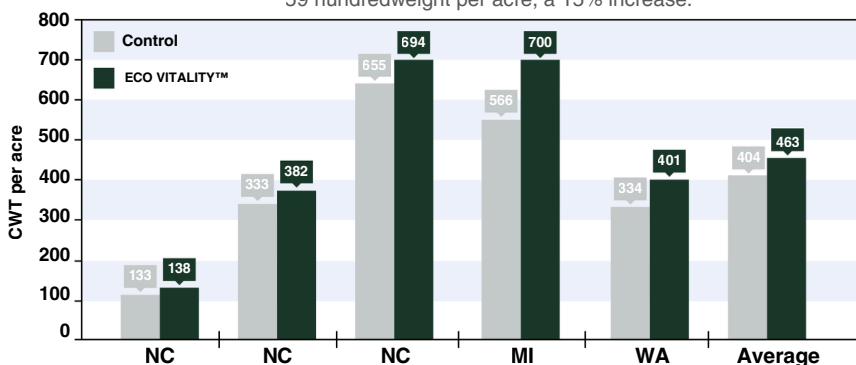
ONION YIELD SUMMARY

Eco Vitality™ improved onion yields by an average of 15%



Optimize your onion yield by improving root growth, nutrient uptake and stress tolerance with ECO VITALITY™. You will see faster bulb establishment, improved nutrition and reduced effects of stresses.

59 hundredweight per acre, a 15% increase.



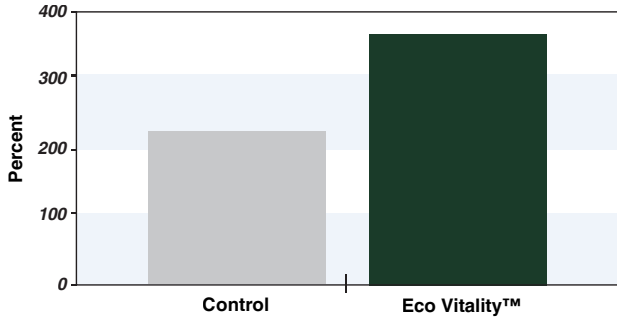
Optimize your onion yield by improving root growth, nutrient uptake and stress tolerance with ECO VITALITY™. You will see faster bulb establishment, improved nutrition and reduced effects of stresses.

CITRUS – CANOPY VOLUME



PERCENT INCREASE IN CANOPY VOLUME IN RESET CITRUS TREES

ECO VITALITY™-treated trees had better canopy volume and vigor at the end of the first season.



Eco Vitality™ helps trees establish quickly, grow stronger from the start, and better tolerate stress throughout the growing season. Increase your citrus yield through improved nutrient uptake and enhanced stress management, resulting in faster growth, higher yields, and better quality fruit.

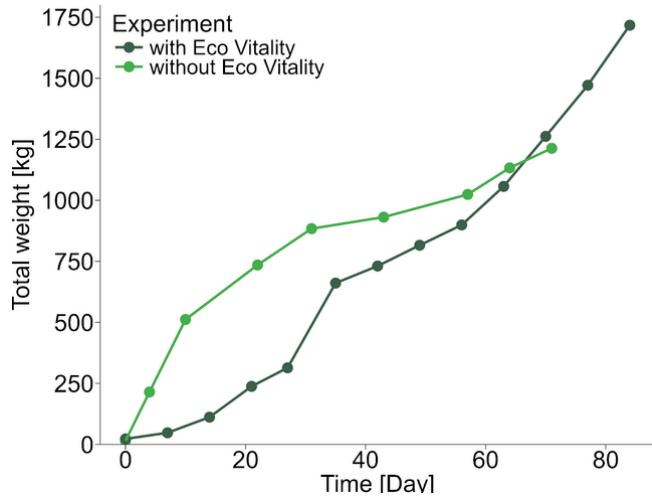
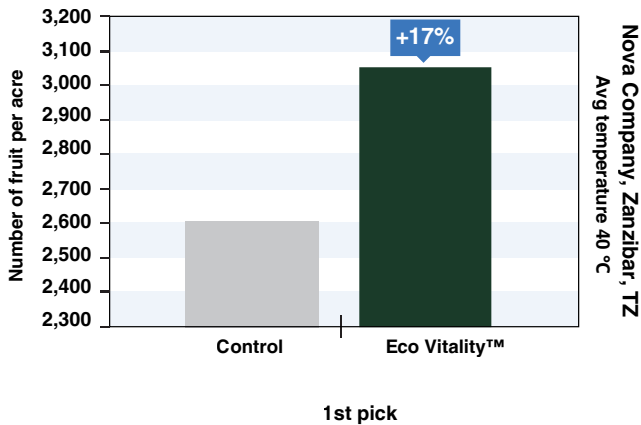


FRUITING VEGETABLES – YIELD



PEPPER YIELD

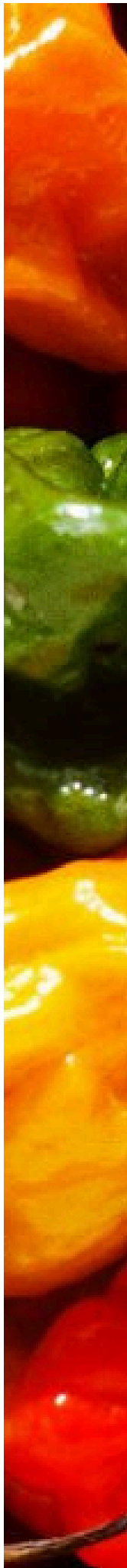
Eco Vitality™-treated plots produced more fruit in the first harvest. In addition, the peppers produced were in the most valuable large and extra-large size categories.



CONTROL

Eco Vitality™

Achieve your highest fruiting vegetable yields by incorporating Eco Vitality™ into your crop program. Strengthen your plants' ability to withstand even the toughest environmental stresses while promoting faster growth, stronger development, and improved overall performance.



ABOUT COASTAL BIOTECH

Coastal does more than just help farmers with everything they need to bring in a good harvest, we help people: that means ensuring safe and sustainable nutritious food for our growing world.

Since October 2023, Coastal BioTech has been on a journey with an idea; to build a future for climate-optimal food systems radically. We believe that Seaweed holds the potential to change the way we sustainably feed ourselves, our pets, fix our soil, and decarbonize globally.

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