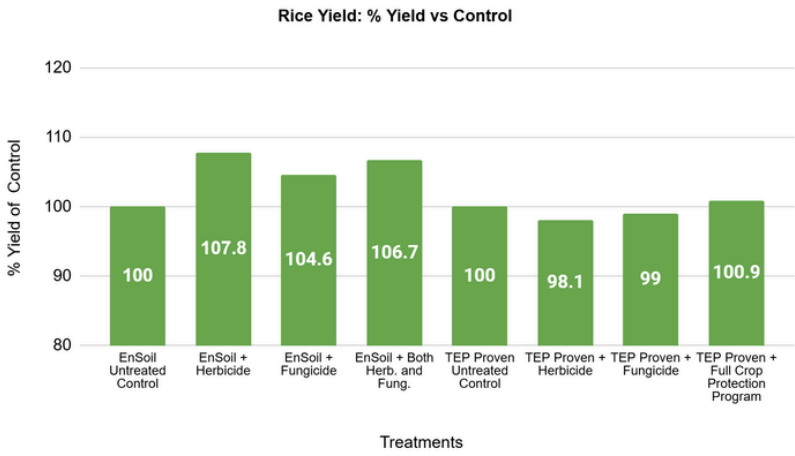
EnSoil Algae®: Colusa County Farm Supply Rice Trial 2025

Superior Yield and Quality Gains in Colusa, CA

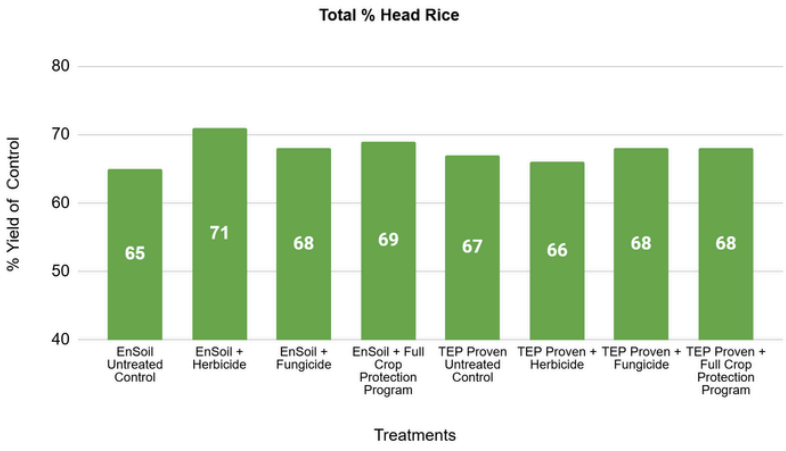
Results

- **Consistent Yield Increases with EnSoil Algae®:** EnSoil treatments resulted in a significant rice yield increase over the untreated control, with improvements ranging from 196 to 613 lb per acre.
- **Notable Percentage Gain: EnSoil Algae®** treatments delivered a 4.6% to 7.8% yield increase compared to the untreated control, outperforming the competitor biostimulant, which only ranged from -1.9% to 0.9% compared to its control plot.
- **Quality Improvements:** Head rice yield (the percentage of whole, uncracked kernels) improved in all EnSoil-treated plots, increasing from 65% in the untreated control to 69–71%, indicating enhanced rice quality.
- **Performance Across Multiple Applications:** EnSoil Algae® boosted yields whether applied with a herbicide, fungicide, or in combination, demonstrating flexibility and reliability across different tank-mix scenarios.
- **Superior to Competitor Product:** In contrast to TEP Proven, which did not demonstrate meaningful yield gains or quality improvements, EnSoil Algae® treatments consistently outperformed both untreated plots and those receiving the competitor product.

Percentage Yield vs Control by Treatment



Quality (%Head Rice) by Treatment



Trial Description: This trial was conducted by Colusa County Farm Supply in California during the 2025 growing season. Each treatment was applied on triplicate plots with all other management conditions maintained as consistent. Each plot was 10 ft x 30 ft in size. Weed control was excellent throughout the study but some stunting was noted in both treatments due to herbicide application.

Application Description: EnSoil Algae® was applied in multiple treatments: including as a single application with an herbicide (Regiment EZ) at 12 oz per acre, as a single application with a fungicide (Quadris) at 16 oz per acre, and as three total applications applied with both crop protection products as well as an additional prior herbicide (Superwham) application at 12 oz per acre. These same treatments were conducted with a competitor biostimulant product (TEP Proven) which was also applied alongside single crop protection product applications as well as applied in combination with three crop protection applications.

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EnSoil Algae®

Made in USA

Trial Design

Researcher: Colusa County Farm Supply
Location: Colusa, CA

Number of Treatment Plots: 24 treatment plots were used in the trial, with each of the eight treatments replicated across three plots.

Planting Date: April 26, 2025

Treatments Given to Plants:

- EnSoil Algae® untreated control (no biostimulant or crop protection products)
- EnSoil Algae® + Herbicide (Regiment EZ)
- EnSoil Algae® + Fungicide (Quadris)
- EnSoil Algae® + Both Herbicide (Regiment EZ) and Fungicide (Quadris), plus Superwham application
- TEP Proven untreated control (no biostimulant or crop protection products)
- TEP Proven + Herbicide (Regiment EZ)
- TEP Proven + Fungicide (Quadris)
- TEP Proven + Both Herbicide (Regiment EZ) and Fungicide (Quadris), plus Superwham application
- Each treatment was applied to three replicate plots.

Goal: The goal of the study was to evaluate the impact of EnSoil Algae® biostimulant, compared to a competitor product (TEP Proven), on rice yield and grain quality when applied alone and in combination with common crop protection products under field conditions.

Measurements Taken:

- **Grain yield (lb/acre):** The total rice yield per acre for each treatment, allowing comparison of productivity between treatments.
- **Head rice percentage:** The proportion of whole, unbroken rice kernels after milling, used to assess grain quality.
- **Field observations:** Notes on weed control effectiveness and any stunting or phytotoxicity symptoms observed in the plants.



Summary of Field Trial Layout and Management

The trial was carried out by Ag in Colusa, California during the 2025 growing season. Each treatment was applied to three replicate plots, with each plot measuring 10 feet by 30 feet. All other management practices and conditions, outside of the specific treatments, were maintained consistently across the plots to ensure reliable comparisons. Weed control throughout the study was excellent; however, some crop stunting was observed in both main treatments due to herbicide application. The experiment involved both EnSoil Algae® and a competitor biostimulant (TEP Proven), each tested as single applications with either a herbicide or fungicide, as well as in combination with multiple crop protection products. These treatments were all compared to their respective untreated controls, evaluating both yield and rice quality, as measured by head rice percentage.

Summary of Each Data Set (Field Trial Results)

Yield Results: EnSoil Algae® treatments consistently improved rice yield compared to the untreated control. Application alongside herbicide produced the highest increase, with yields ranging from 196 to 613 pounds higher per acre than the untreated plots. This corresponded to a 4.6% to 7.8% rise in yield from the control, depending on the specific tank-mix. In contrast, the competitor product (TEP Proven) did not demonstrate a meaningful yield benefit, with yield changes from -1.9% to 0.9% versus its untreated control.

Quality Results: The EnSoil Algae® treatments also boosted rice quality. The percentage of head rice (whole, unbroken kernels) improved from 65% in the untreated control to as high as 71% in EnSoil Algae® plots. This increase in head rice percentage was observed across all EnSoil treatments. The competitor product's quality outcomes were inconsistent and did not show improvement over its untreated control, staying at 66–68%.

Field Observations: Weed control was consistently excellent across all treatments throughout the trial period. Some stunting of rice plants was noted in both treatment groups, which was attributed to herbicide application rather than differences related to either EnSoil Algae® or the competitor biostimulant.

Overall Summary: EnSoil Algae® demonstrated strong and reliable benefits in terms of both rice yield and head rice quality in this trial. The results were consistent across various application methods, with EnSoil outperforming both the untreated control and the competitor biostimulant under the conditions tested during the 2025 growing season.

EnSoil Algae® delivers proven results—boosting rice yields by up to 7.8% in the Colusa County Farm Supply trials, significantly improving grain quality, outperforming competitors, and maximizing both production and profitability.

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