ROOTERRA FOLIAR ON ALMOND YIELD

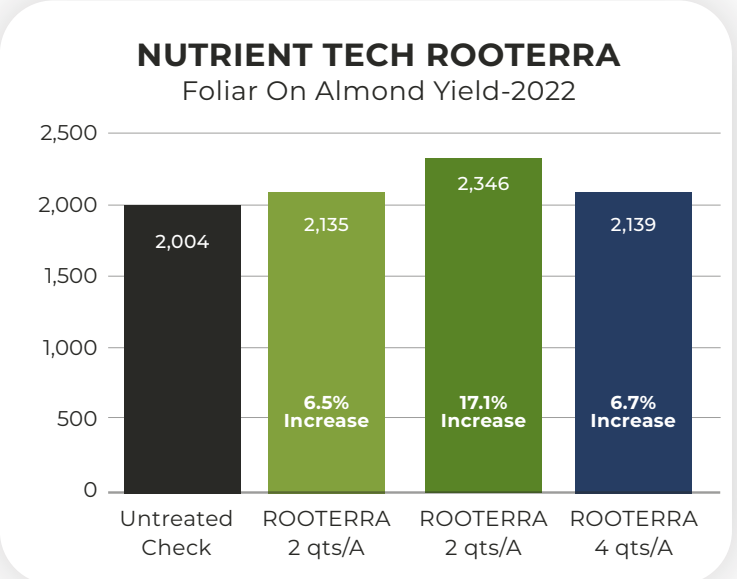
SUMMARY

The three ROOTERRA foliar treatments resulted in greater yields than the untreated check. Specifically, the 2 qt/A 4X treatment, the 2 qt/A 3 X treatment and the 4 qt/A 3X treatment resulted in a 6.5%, 17.1% and 6.7% increase in yield respectively. However, none of the means separated statistically (DMR 0.10).

The 2 qt/A 4X treatment resulted in kernels that were 2.2% smaller than the UTC, and the 2qt/A 3X and 4 qt/A 3X treatments produced 2.2% and 1.1% larger kernels respectively. There was no statistical separation between the means.

All three of the treatments resulted in an increase in the percentage of blank kernels with no statistical separation in means.

The three ROOTERRA treatments all resulted in an increase in the percent set of the blossoms during bloom. The 2 qt/A 4X, the 2 qt/A 3X and the 4 qt/A 3X resulted in a 13.5%, 5.5% and 13.5% increase in the percent sets respectively. Though these means also did not separate statistically, there may be a correlation based on previous years work. In the 2021 study, the V treatment had a higher percent set and yield than the UTC, with the yield separating statistically. Additional data points may help to reduce the variability effects on the mean separations.



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ROOTERRA TRAIL ON NON PAREIL ALMONDS

SUMMARY

Nutrient TECH research & product development contracted replicated trials in the San Joaquin Valley in commercial almond orchards. Treatments compared foliar spray application rates and timings for yield increases.

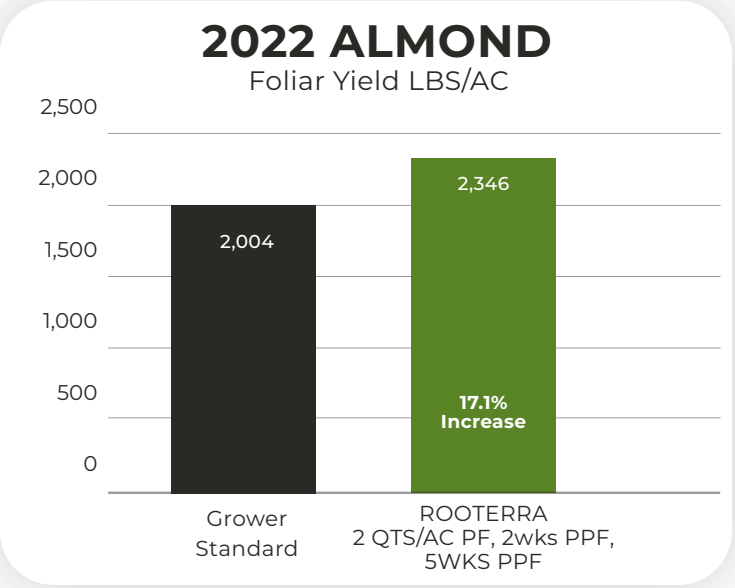
Key Takeaway: Foliar application of ROOTERRA increased almond yields without a loss of nut size through crop growth processes contributing to increased tree productivity.

METHODS

A comparison of 3 or 4 applications of ROOTERRA at 2 or 4 quarts per acre versus grower standard practices were made at petal fall and later timings thereafter. ROOTERRA was applied with surfactant in a 100 gpa final volume. Plot areas were hand harvested for marketable nuts. Plot weights were analyzed statistically and results from the most effective treatment combination is reported.

RESULTS

In the graph below, it can be observed that 3 applications of 1/2 gallon per acre of ROOTERRA increased average almond yields by almost 350 pounds per acre. These specific timings were chosen by the researcher after decades of experimental experience. Neither higher rates nor increased number of applications increased yields substantially under these experimental conditions. ROOTERRA positively influenced crop growth parameters resulting in a robust crop response which provided a substantial return on investment.



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