

2017

# BioRoc™

PROOF-OF-CONCEPT



# BioRoc™

## TEST OBJECTIVE

Evaluate the effectiveness of PNTI fertilisers (including BioRoc™) on almond yield.

## TEST PLOT

7-acre section (HR7) of Stevinson Ranch Almond Orchard.

## TEST DESIGN

1. Initial fertilisation of HR7 with PNTI products (PoweRoc™, BioRoc™, RocTea™) in October 2016.
2. Second fertilisation in February 2017:
  - a. HR7 divided into five 1.4-acre sections.
  - b. Each section received a different combination of PNTI products.
  - c. No other fertilisers applied during the testing period.
  - d. PNTI test regions received only water on the same schedule as the main orchard.
3. Almonds harvested at maturity (September for Non-Pareil, October for Monterey).
4. Field weights measured for harvested almonds.
5. Samples collected for laboratory analysis of nut composition (husk, shell, meat).



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## KEY FINDINGS

1. HR7 trees treated with PNTI fertilisers in 2017 yielded an average of 2,107 lbs of almond meats per acre.
  2. This represents a 75% increase compared to the untreated yield of 1,202 lbs per acre in 2016.
  3. Nutrient levels and average almond weight in PNTI-treated areas closely matched conventionally fertilised trees in another orchard section (HR6).
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