



BioPath® Application Rate and Timing in Almonds

ALMONDS



October, 2026

OBJECTIVE

Evaluate the effects of the timing and rate of BioPath® applications on the yield and quality of Almonds.

OVERVIEW

- Some applied fertilizer and other soil nutrients are unavailable to the plant during nutrient uptake due to complex physical and chemical interactions.
- Some soil microbes can influence these interactions to increase plant nutrient availability and improve nutrient uptake and utilization, resulting in increased plant biomass and vigor.
- Some products (e.g., BioPath) contain multiple bacterial species that are specifically selected and formulated to promote plant nutrient availability.

TRIAL DETAILS

Locations and Crop Management

Crop: Almonds

Years: 2023-25

Number of Trials: 6

Location: Central California

Data Source: Field Studies were conducted by third-party, independent researchers.

Treatments:

1. Grower Standard
2. Biopath applied at 32 fl oz/ac once, twice or three times during the growing season
3. Biopath applied at 16 fl oz/ac twice or three times during the growing season

Cultivar: Independence/Nonpareil

Cropping Conditions: Trial conformed to local cropping practices. 7-8 year old trees planted in 20' rows.

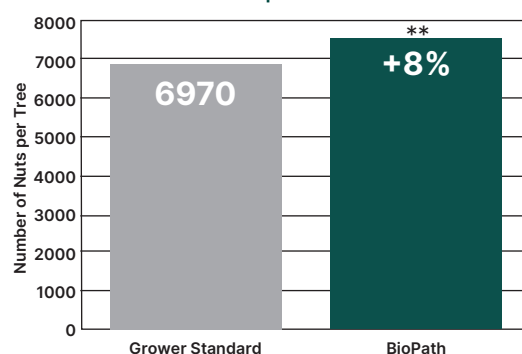
Application Rate: 16 and 32 fl oz/A

Application Method: Applied to the soil during active irrigation

Application Timing: Applications at Petal Fall, and early and late Nut Growth. Treatments were applied to the same plots over 3 seasons.

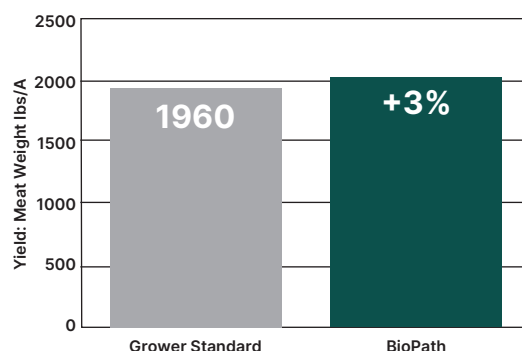
RESULTS

Performance in Almonds Nuts per Tree



**=Significant difference $p < 0.05$

Yield: Meat Weight lbs/A



% value is % increase in yield compared to trees fertilized without the addition of BioPath.

SUMMARY

- BioPath treatments applied at 16 oz/ac during early and late nut growth over a 3 year period significantly increased the number of nuts per tree and produced larger, heavier nuts resulting in an increase in meat yield.
- Two applications of BioPath applied mid and late season are more beneficial than a single late season application or adding a third application early in the season.
- BioPath treatments applied at 32 oz/ac did not provide significantly different results in yield or quality of the almonds than the 16 oz/ac treatments.

530

NUT INCREASE IN
NUTS PER TREE

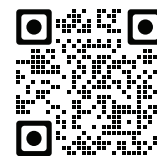
2%

INCREASE IN
INDIVIDUAL NUT
WEIGHT

**67
lbs/A**

LBS/AC INCREASE
IN MEAT YIELD

For the most up to date data in your region, scan this QR code.



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Individual results may vary, and performance may vary from location to location and from year to year. This result may not be an indicator of results you may obtain, as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible.

For more information, go to cropnutrition.com