



ALMOND TRIALS



CARBOXIPOLYOL technology is based on compounds that emulate the natural chelation and complexation from the plant, which may complement soil nutritional management, potentiate photosynthesis processes, translocation of photoassimilates.

CARBOXYPOLYOLS are molecules of organic origin from plant extracts of low molecular weight and highly soluble in water, obtained from the transformation of carbohydrates to aldonic acids that bind to a metal ion to form stable compounds in water and soil through ionic bonds and covalents.



Innovation in Vegetable Chelates and biostimulants.



Vegetable organic chelates and complexes, Eco friendly, nano poly-ionic.



Efficiently management and correction of nutritional deficiencies (Ca, Mg, B, Zn, Cu, Mn, Fe).



Environmental stress management.



Power compensator in critical times of cultivation



Improves stability and promotes mix compatibility.



High concentration in the formulation.



Nutrition and plant health.



Trial details



1. **Location:** USA, California



2. **Volume of water**

Foliar: 100 gal/acre



Drip: 300- 400 gal/acre

3. **Repetitions per treatment :** 4



Trial details

#	Treatment	Dose	Application
1	Control	----	---
2	Actiphyl Algaplant	2qt/ Acre	Foliar
3	Actiphyl Kfruto	2qt/ Acre	Foliar
4	Actiphyl Algaplant	1 Gal/ Acre	Drip
5	Actiphyl Kfruto	1 Gal/ Acre	Drip



Data analysis and statistics

- Statistical analyses were performed using **RStudio**.
- Assumptions of normality were assessed using the **Shapiro–Wilk test**
- Homogeneity of variances was evaluated using **Levene's test**.
- Data were subject to three-way Analysis of Variance (**ANOVA**)
- Different **letters indicate significant difference between treatments** according to **Tukey (HSD)** multiple range test at $P < 0.05$.





For stages of
blooming, fruit
development and
maturation of crops.

LIQUID COMPLEX FERTILIZER
WITH K, P, B, Zn and Molybdenum

GUARANTEED ANALYSIS

Total Nitrogen (N).....	0.22%
0.22% Water Soluble Nitrogen	
Available phosphate (P_2O_5).....	19.4%
Soluble Potash (K_2O)	21.5%
Magnesium (Mg).....	0.6%
Boron (B).....	0.85%
Molybdenum (Mo).....	0.032%
Zinc (Zn).....	0.85%

Density at 68°F: 12.68 Lbs/gal



NET CONTENT

1 gal (3.78L), 2.5 gal (9.46 L)
5 gal (18.92 L), 250 gal (946.35L)



With seaweed extract, potassium
gluconate, corn protein hydrolysate
and soy protein hydrolysate



ACTIPHYL ALGAPLANT

It can support:
physiological
development and
reduce the effects
of crop stress

ALGAE AND PROTEIN HYDROLYSATE BASED PLANT FERTILIZER

GUARANTEED ANALYSIS

Total Nitrogen (N).....2.50%

2.50% Water Soluble Nitrogen

Soluble Potash (K₂O).....5.0%

Density a 68°F: 10,01 Lbs/gal



NET CONTENT

1 gal (3.78L), 2.5 gal (9.46 L)

5 gal (18.92 L), 250 gal (946.35L)



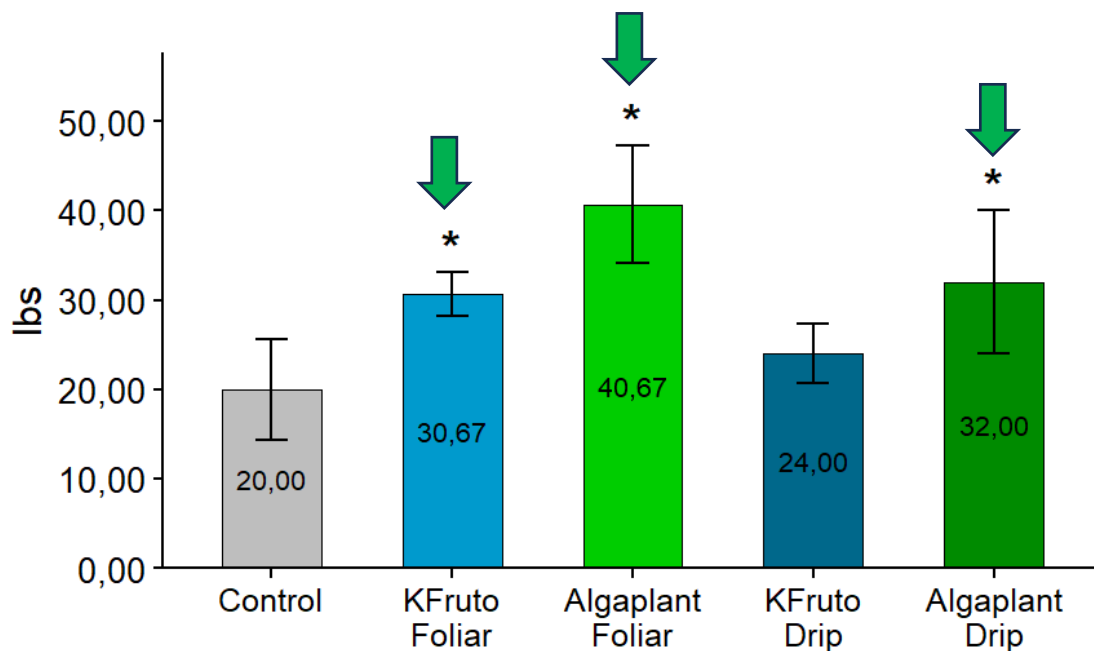
With Seaweed extract, protein
hydrolysate and potassium
gluconate



Almond Fruit Weight-Tree (lbs)



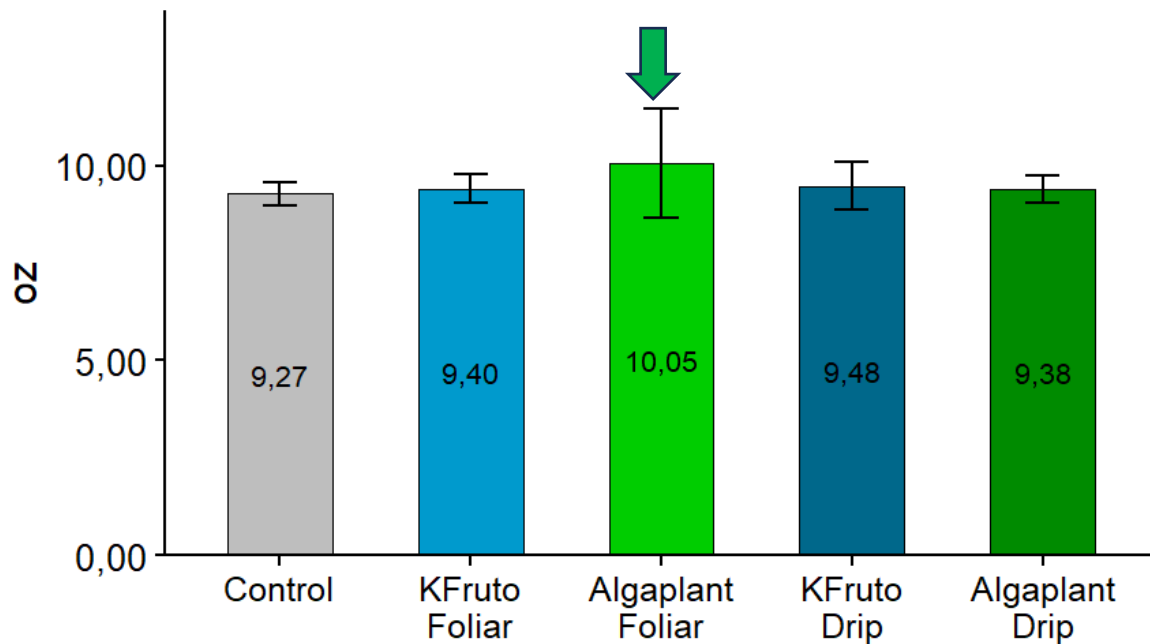
Increase from 53,35 % to 103%



- ✓ Higher commercial yield per tree
- ✓ Better fruit filling and uniformity
- ✓ Greater return per acre



Weight 50 fruits- oz



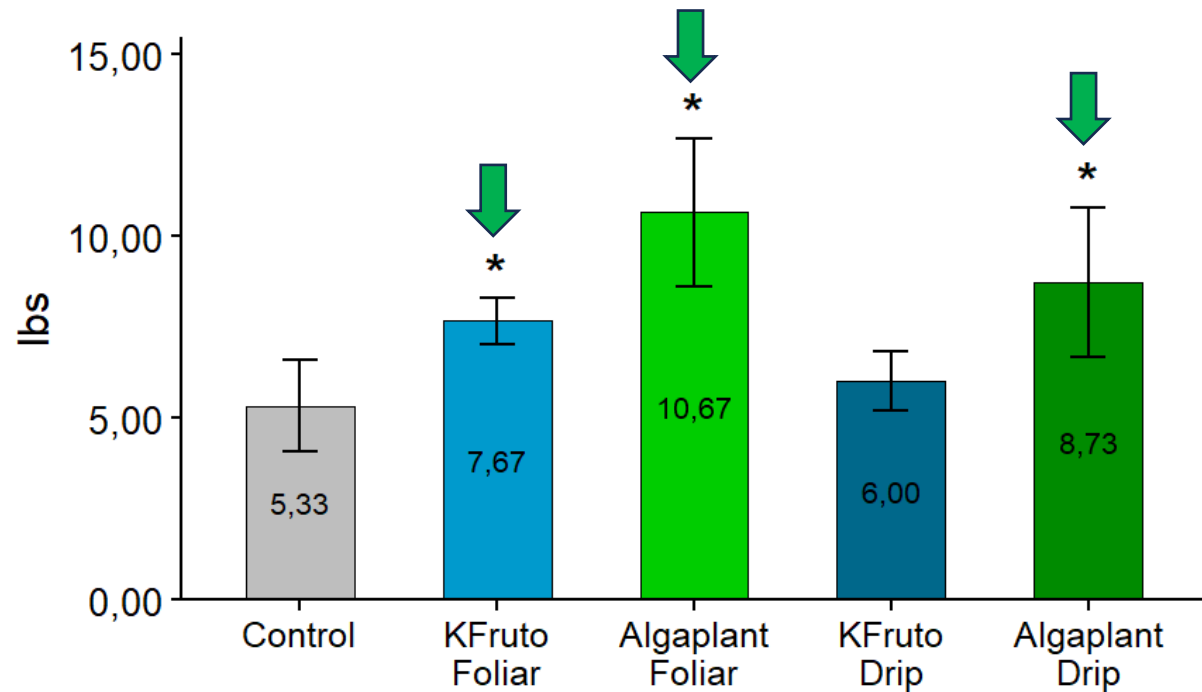
Increase up to 8,41%



Higher Almond Yield per Tree



Almond kernels weight/ tree -lbs



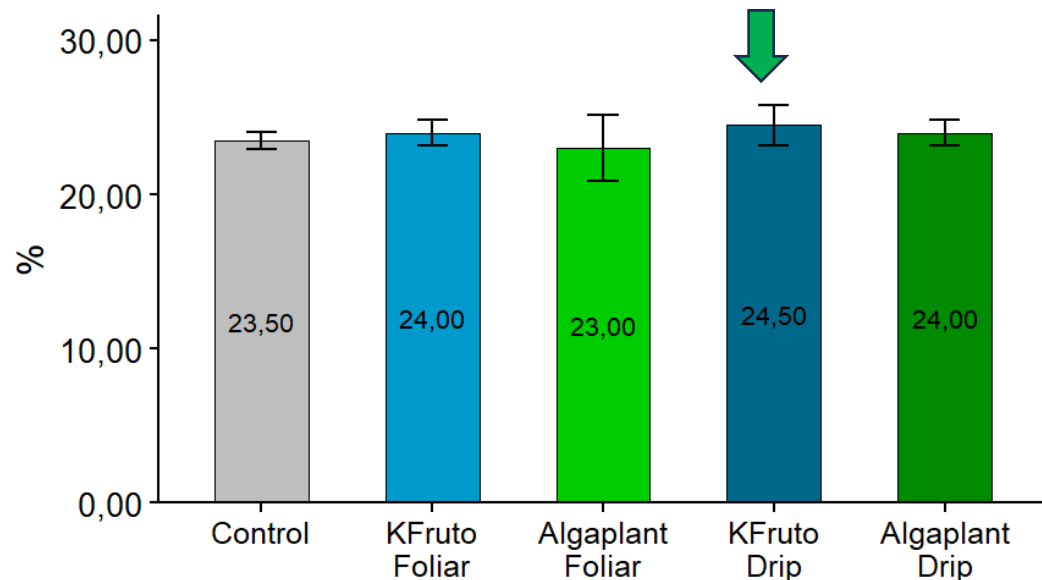
Increase from 43,9 to 100%



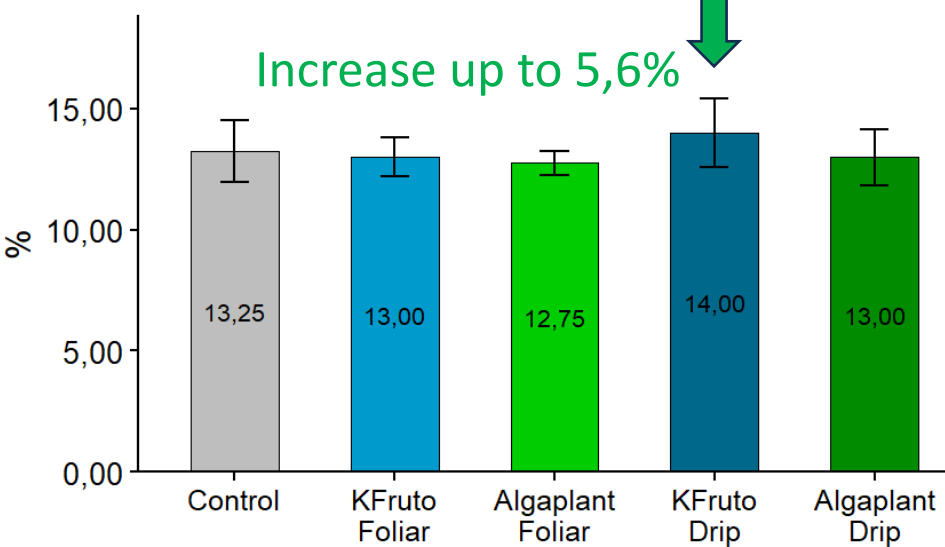
Percentage of distribution in almond (%)



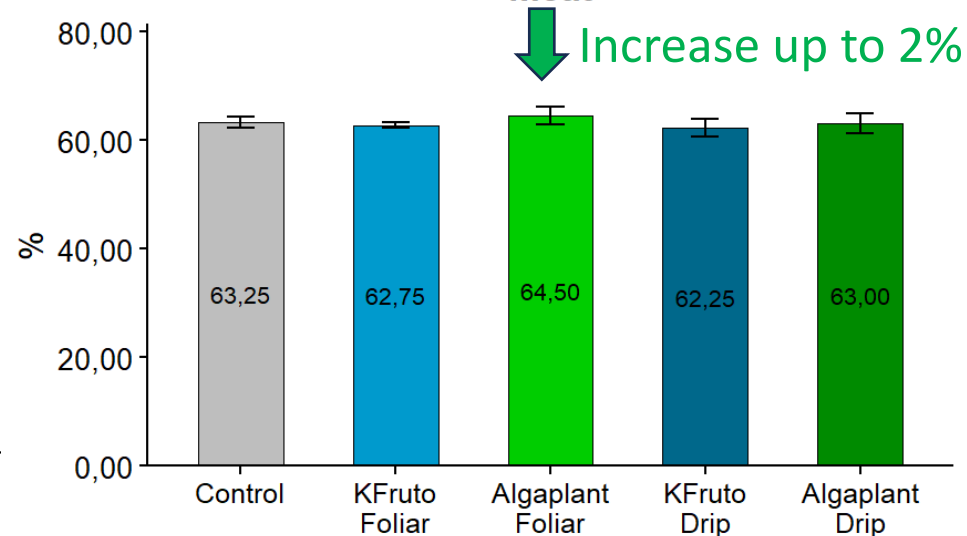
Kernel



Shell



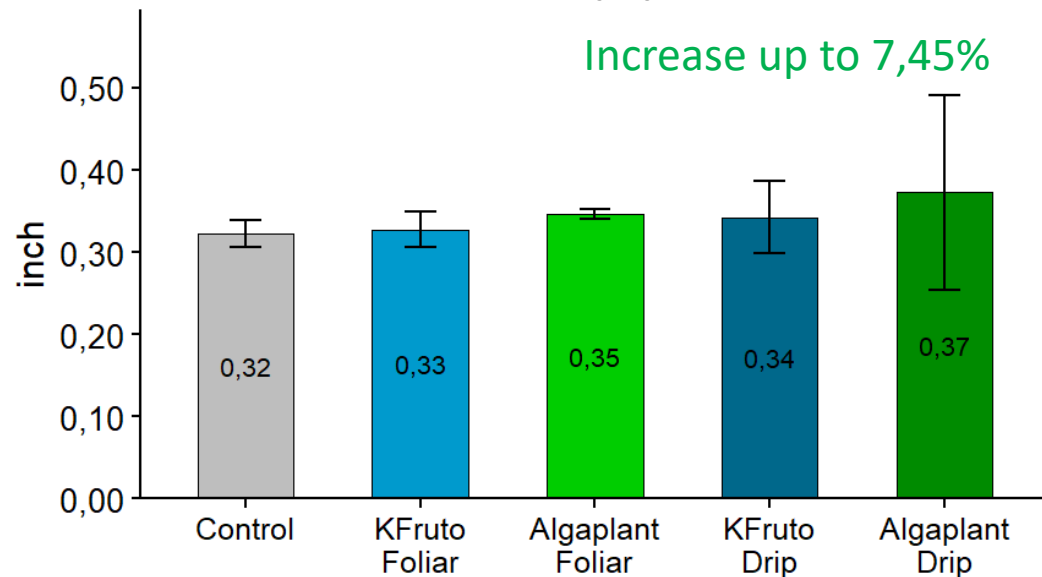
Meat



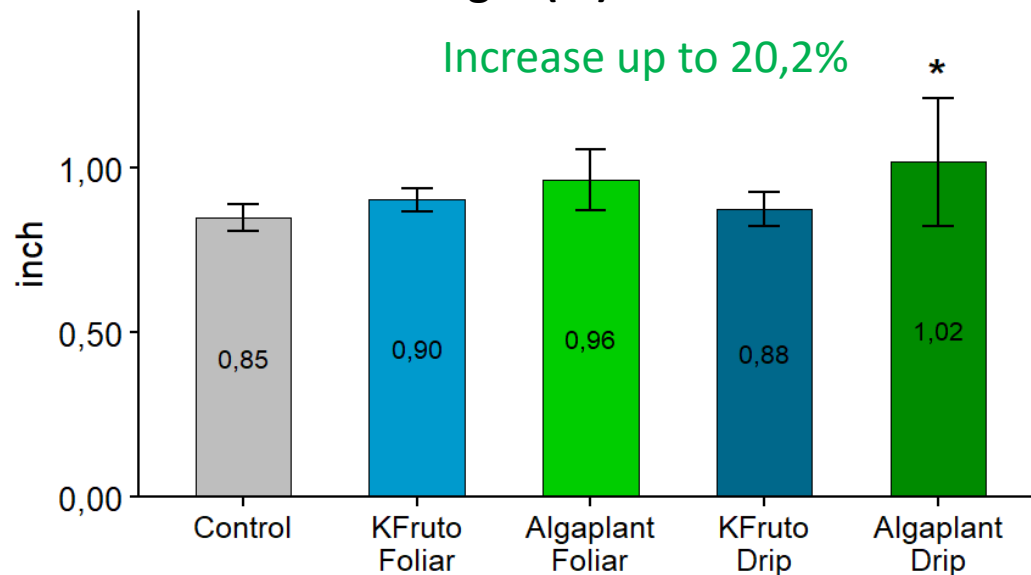
Almond size parameters- Inch



Diameter (in)



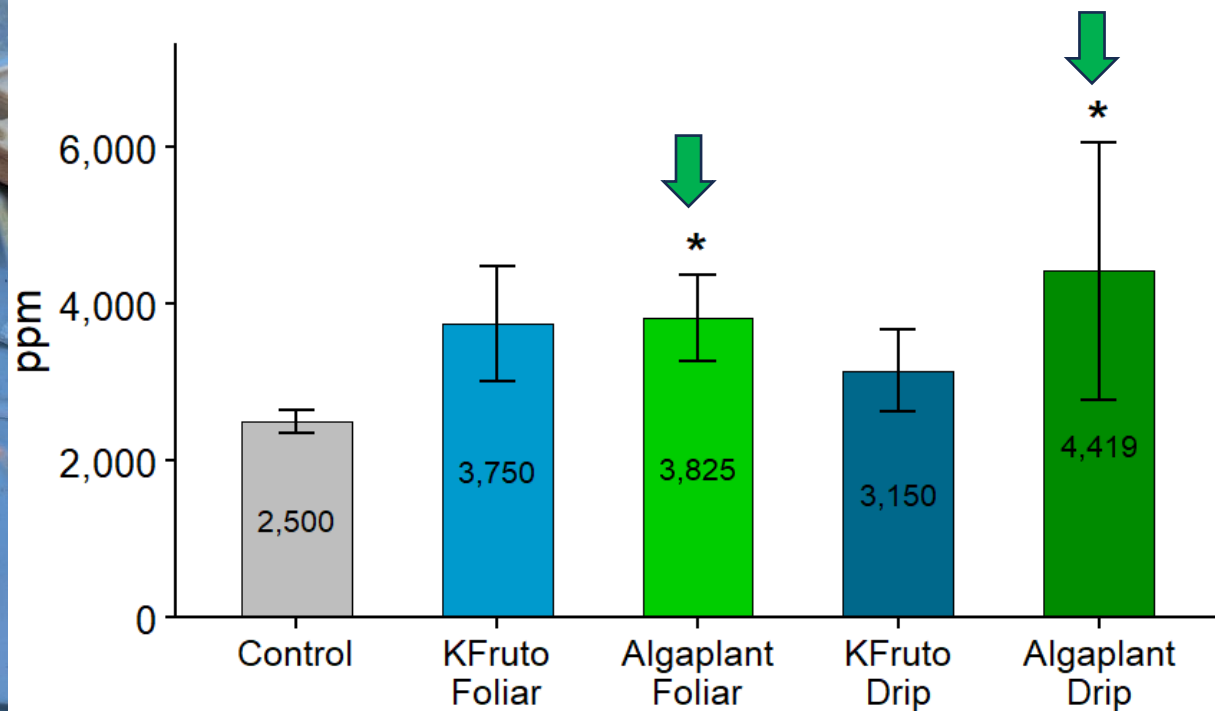
Length (in)



Potassium Concentration in Almond



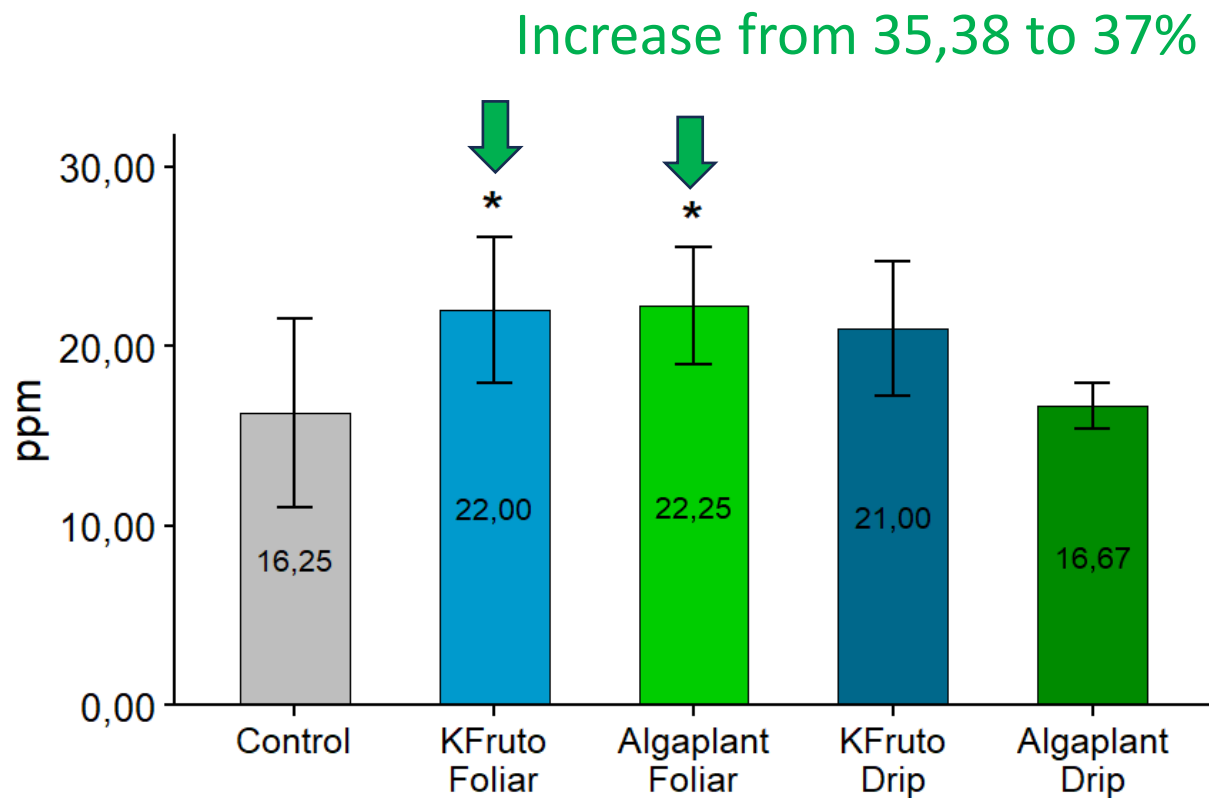
Increase from 53% to 76,6%



- ✓ Higher nutrient translocation
- ✓ Better kernel filling
- ✓ Better commercial quality



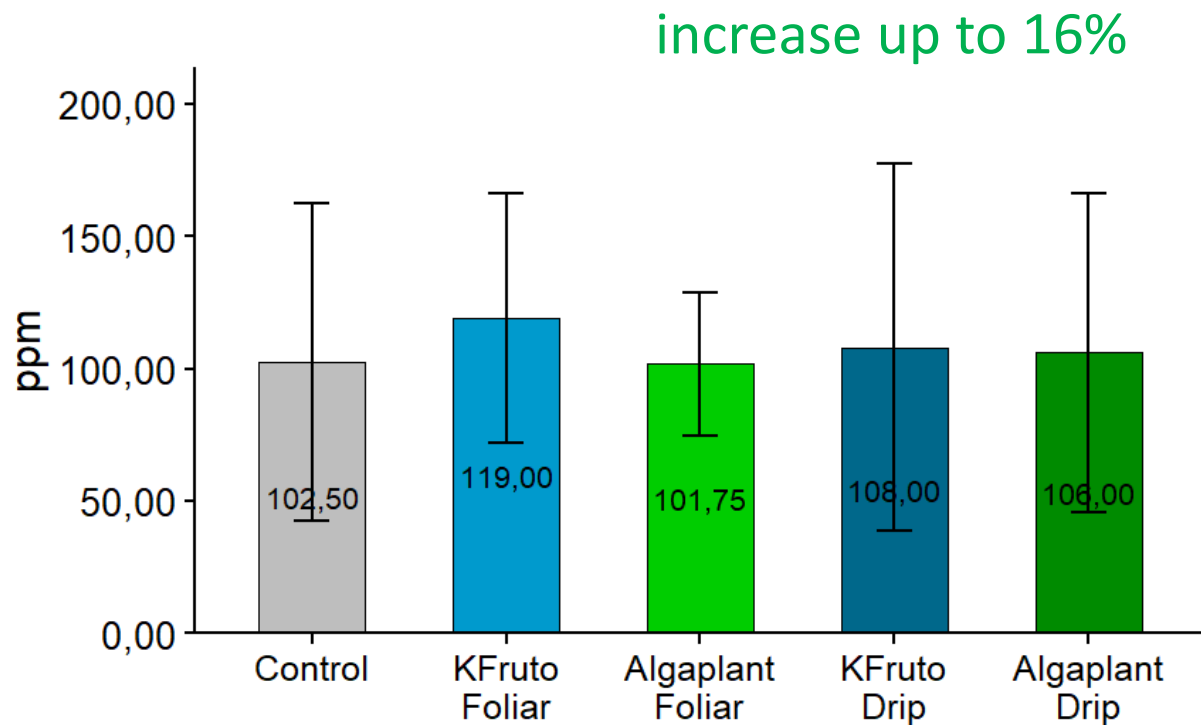
Calcium Concentration in Almond



- ✓ Biostimulation that enhances nutrient assimilation.
- ✓ Maximizes calcium efficiency and kernel quality

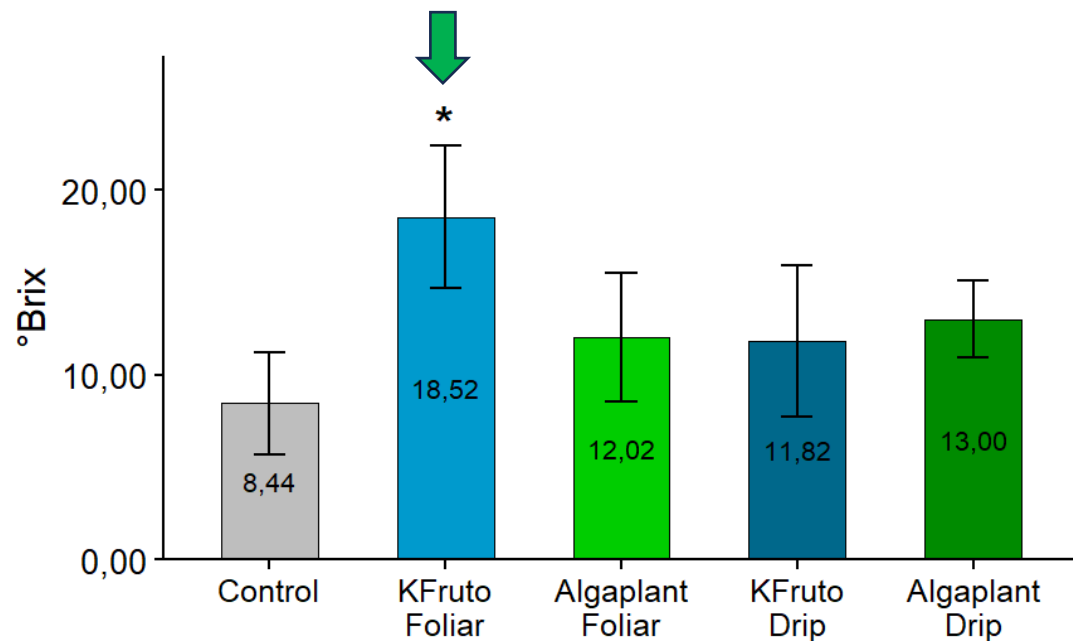


Nitrates Concentration in Almond



Brix content

increase up to 119%



✓ Supports sugar movement and nutrient assimilation



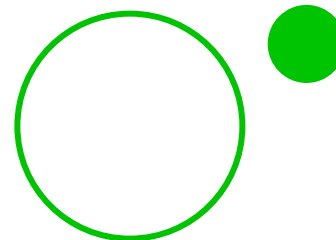
Summary

- **Actiphyl Algaplant**, as a **biostimulant**, demonstrated outstanding performance in both foliar and drip applications, increasing yield from 63.7% to 100%. Its formulation may enhance **calcium** and **potassium** assimilation, improving nutrient efficiency and crop performance.
- Application of **Actiphyl KFruto** increased **sugar accumulation** by up to 119%, suggesting improved stronger **source-to-sink** nutrient movement during kernel development, while also increasing **yield by 43.9%**.





**Thank you for
your attention**



References

- <https://www.cdfa.ca.gov/is/ffldrs/frep/FertilizationGuidelines/Almonds.html#B>

