



Water Melon Trials



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.



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.



Trial details



1. Location: USA. California



2. Area plot: 10m²

3. Volume of water:



Foliar: 100 gal/acre Drip: 250 gal/Acre

4. Repetitions per treatment : 4



6. Applications : 3 drip/ foliar applications

8-10 day



Methodology.

#	Treatment	Dose	Applications
1	Control	----	
2	Actiphyl Algaplant	0,5 Gal/ Acre	Foliar 
3	Actiphyl Kfruto	0,5 Gal/ Acre	Foliar 
4	Glukoplant CalcioBZn	0,5 Gal/ Acre	Foliar 
5	Actiphyl Green Mix	0,5 Gal/ Acre	Foliar 
6	Actiphyl Algaplant	1 Gal/ Acre	Drip 
7	Actiphyl Kfruto	1 Gal/ Acre	Drip 
8	Glukoplant CalcioBZn	1 Gal/ Acre	Drip 
9	Actiphyl Green Mix	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 $P < 0.05$.





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





CONCENTRATED SOLUBLE FERTILIZER WITH Ca, B, Zn and Molybdenum

GUARANTEED ANALYSIS

Total Nitrogen (N).....	4.6%
4.6% Nitrate Nitrogen	
Soluble Potash (K ₂ O).....	4.2%
Calcium (Ca).....	7.0%
Boron(B).....	1.2%
Molybdenum (Mo)	0.04%
Zinc (Zn).....	2.3%

Density at 68°F: 12.09 Lbs/gal





ALGAE AND PROTEIN HYDROLYSATE BASED PLANT FERTILIZER

GUARANTEED ANALYSIS

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

2.50% Water Soluble Nitrogen

Soluble Potash (K_2O).....5.0%

Density at 68°F: 10,01 Lbs/gal



MULTINUTRIENT CONCENTRATED SOLUBLE WITH Mg and micronutrient.

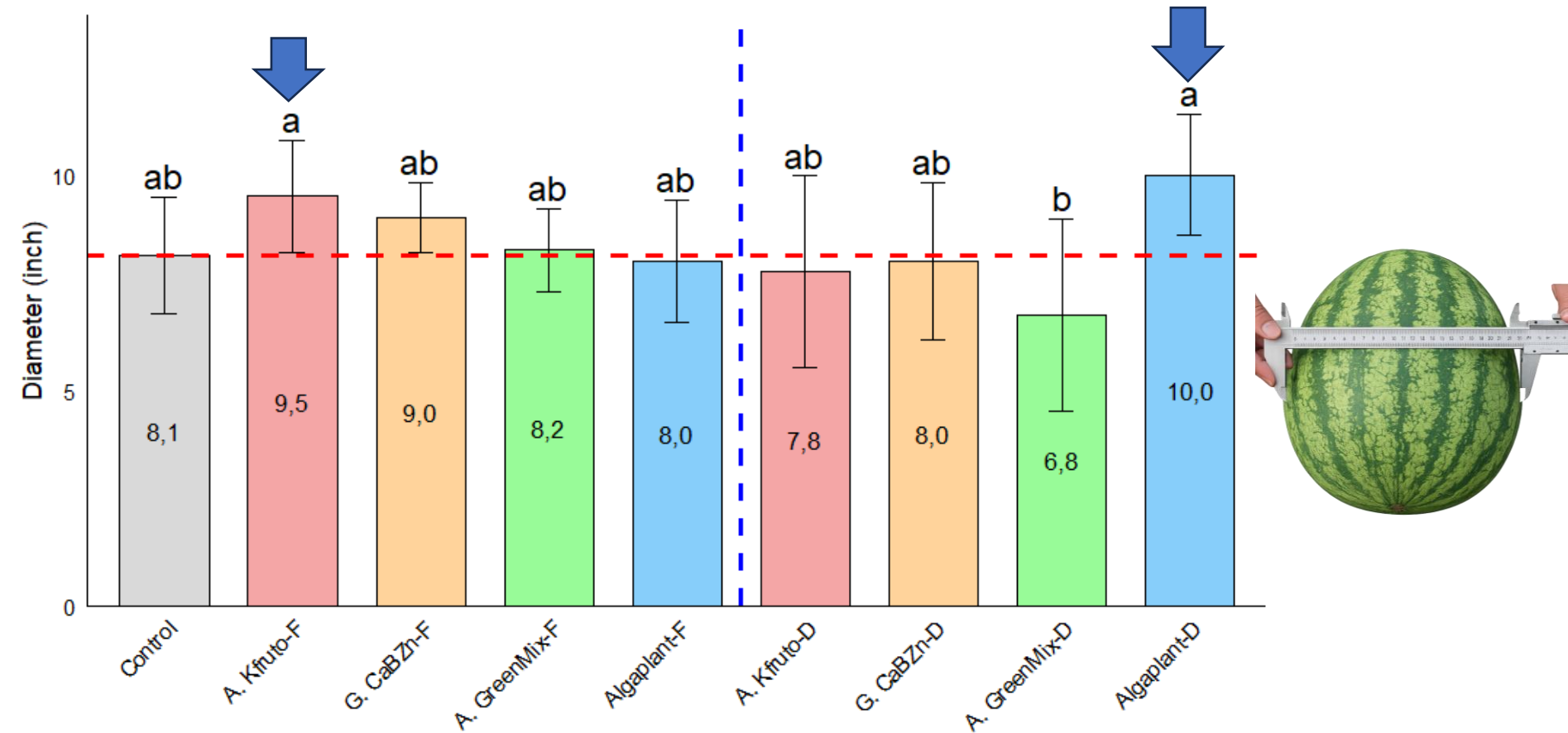
GUARANTEED ANALYSIS

Total Nitrogen (N).....	3.0%
3.0% Water Soluble Nitrogen	
Soluble Potash (K ₂ O).....	2.87%
Magnesium (Mg).....	4.54%
Sulfur (S).....	3.19%
Boron (B).....	0.26%
Copper (Cu).....	0.28%
Manganese (Mn).....	1.34%
Molybdenum (Mo).....	0.16%
Zinc (Zn).....	0.76%



Equatorial diameter (inch)

D: DRIP
F: FOLIAR

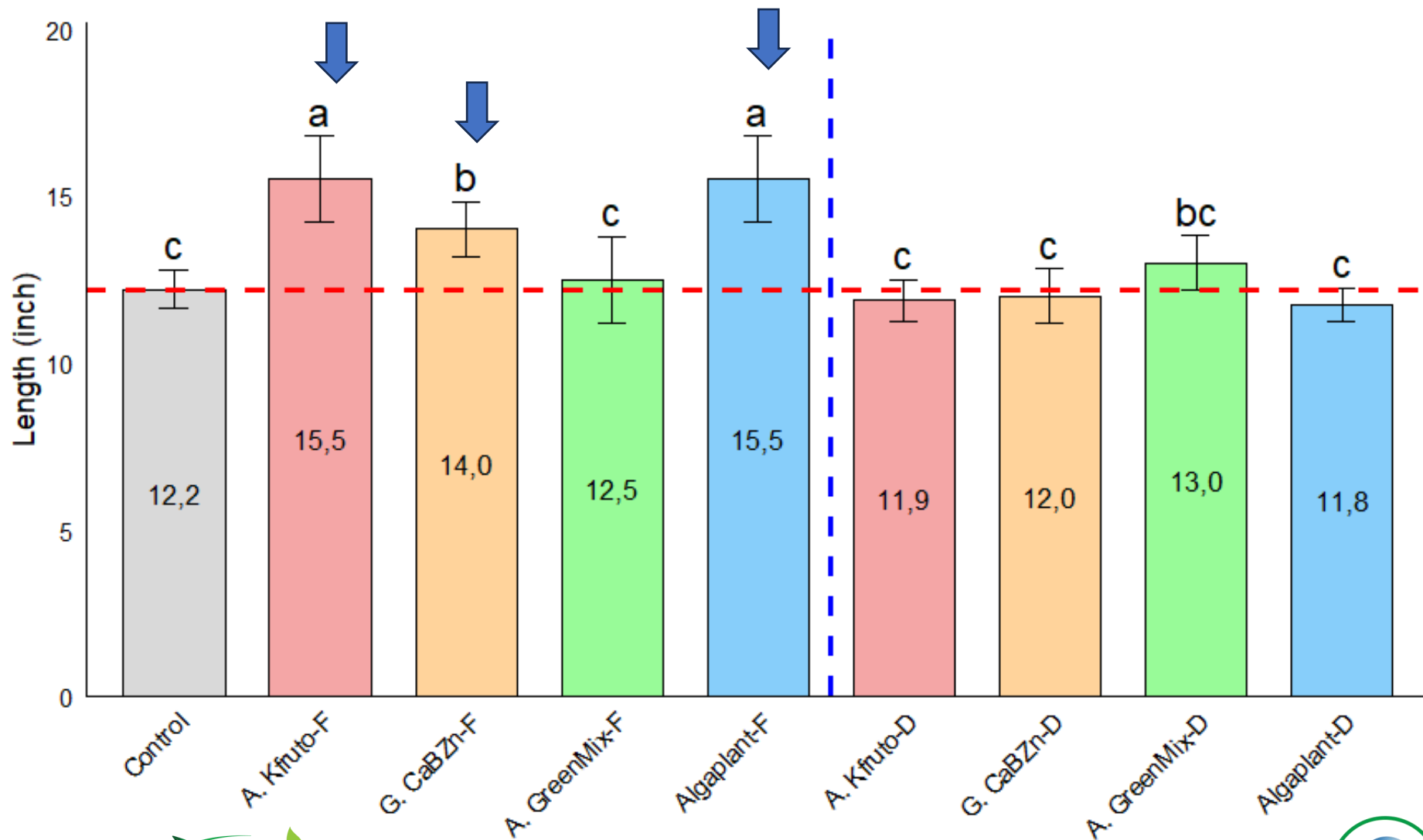


Increase from 23%

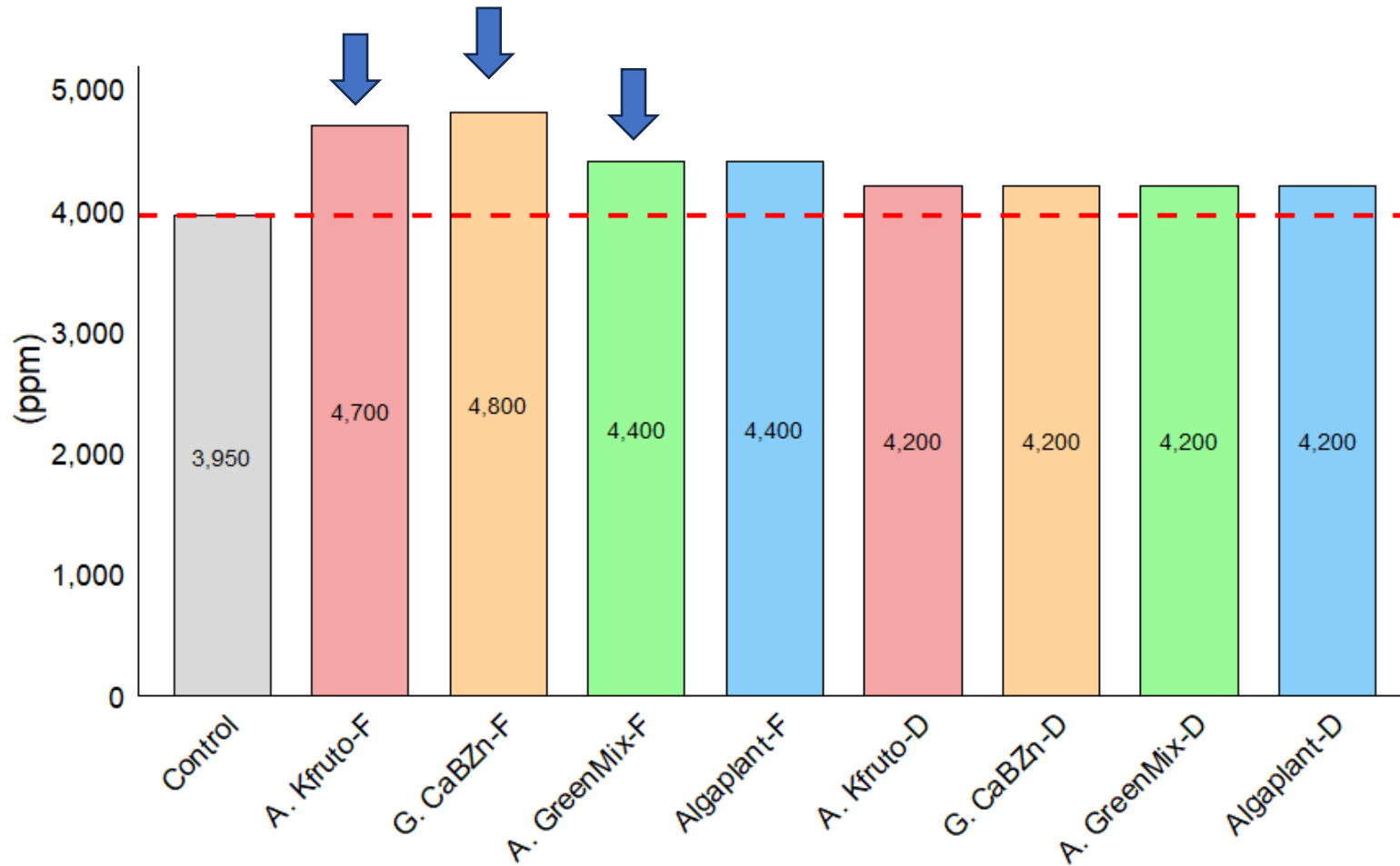


Longitudinal diameter (inch)

D: DRIP
F: FOLIAR



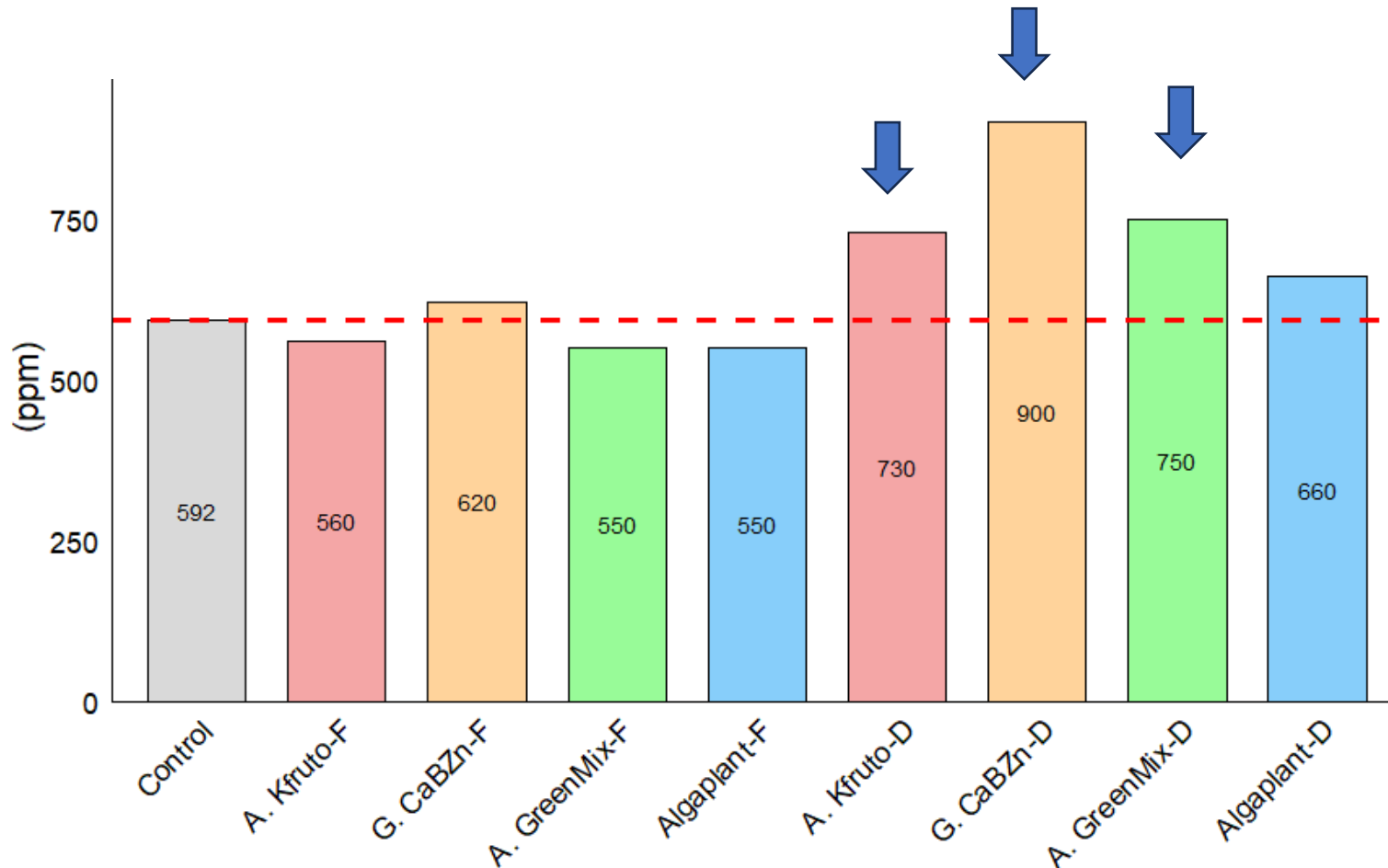
Potassium in fruit juice



Increase from 21,5%



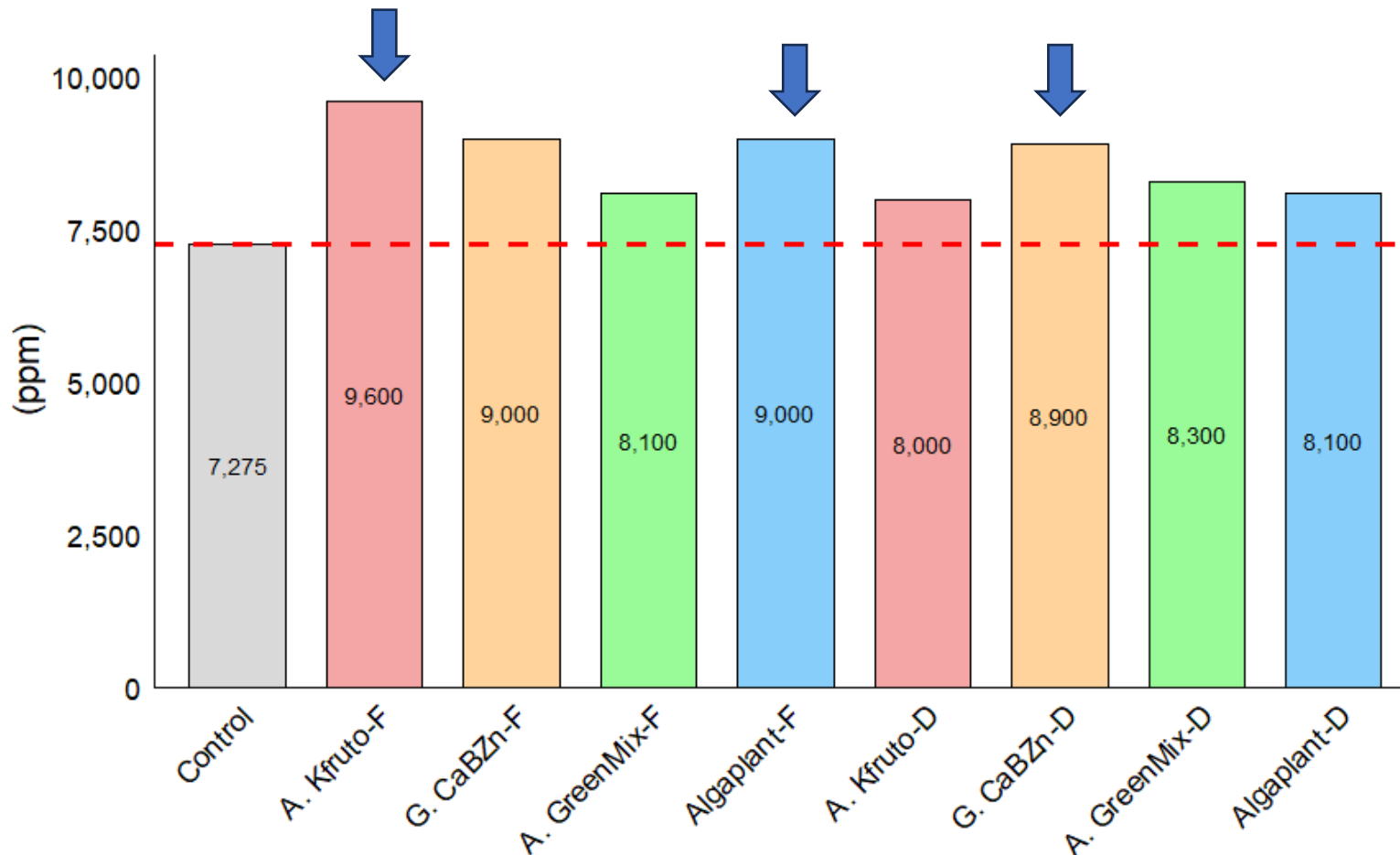
Calcium in fruit juice



CalcioBZn enhances calcium transport in almond through Carboxipoliol technology.

Increase from 52,02 %

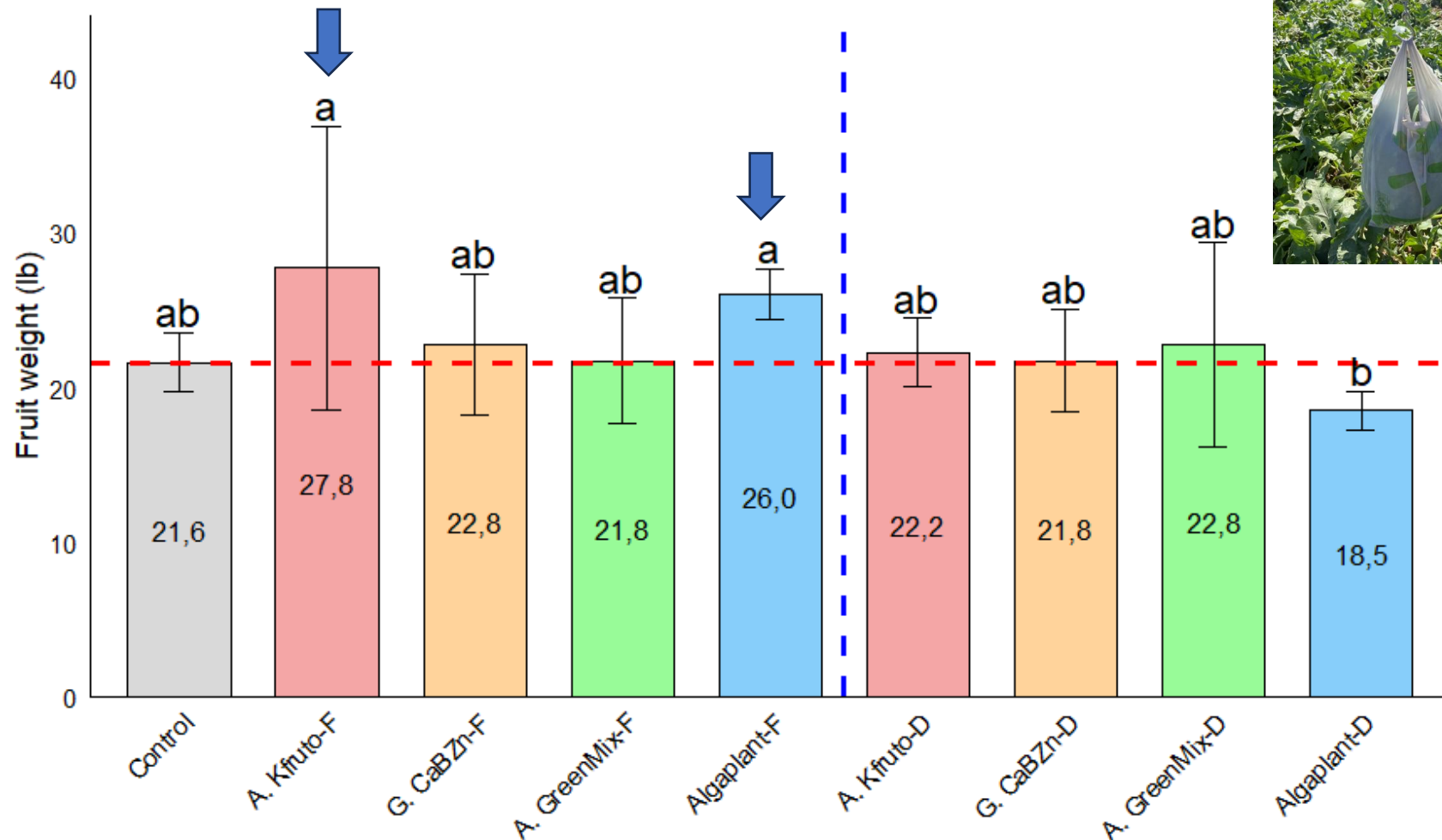
Nitrates in fruit juice



Increase from 31,9%



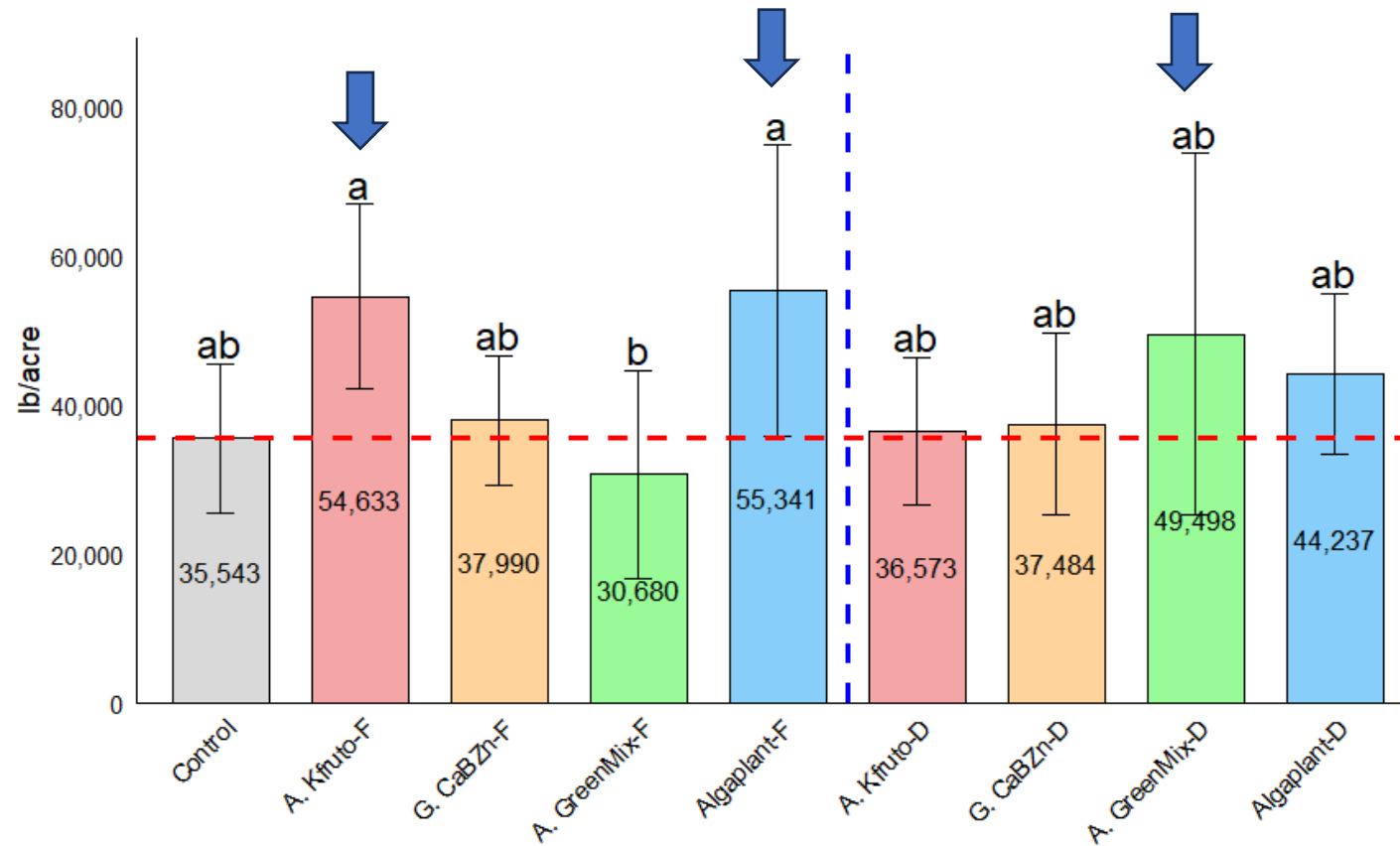
Fruit weight (lb)



Increase from 28%



Yield lb/acre



Increase from 53,7 %





Summary



- Yield (53 %)
- Equatorial diameter (17%)
- K+ Concentration in Fruit (18,9 %)

Actiphyl KFruto enhances the translocation of photoassimilates to developing fruits, promoting improved fruit filling, greater growth, and superior quality.

- Yield (7,7 %)
- Ca+ concentration in fruit sap (52%)
- Longitudinal diameter (14,7%)

Glukoplant CalcioBZn promotes the efficient movement of calcium to developing flowers and fruits, supporting improved fruit set, growth, and watermelon quality.





**Thank you for
your
attention**

