

# TruResponse<sup>®</sup>

## TRIAL DATA

CITRUS



## Cybelion<sup>®</sup> Plus in Citrus

October, 2024

### OBJECTIVE

Evaluate the effects of the rate and application method of Cybelion<sup>®</sup> Plus applications on the yield and quality of citrus fruit during winter stress.

### OVERVIEW

- Plants in the field can be exposed to many kinds of abiotic stress including severe cold which can inhibit the normal growth and activity of a plant leading to decreases in yield and quality of a crop.
- Cybelion Plus contains a natural extract rich in sugars, proteins and peptides to help stimulate plants metabolic activities as well as an osmolyte compound to reduce abiotic stress which leads to a stronger plant and better yield and harvest quality of a crop.

### TRIAL DETAILS

**Crop:** CITRUS

**Year:** 2023-24

**Number of Trials:** 3

**Location:** United States - Central California

**Data Source:** Field studies were conducted by third-party, independent researcher

#### Treatments:

- Untreated Control (UTC)
- Cybelion Plus foliar application; 1-3 applications at standard rate depending on temperatures
- Foliar applied competitor products

**Cultivar:** Tango or Murcott

**Cropping Conditions:** Trial conformed to local cropping practices.

**Application Rate:** 42 fl oz/ac

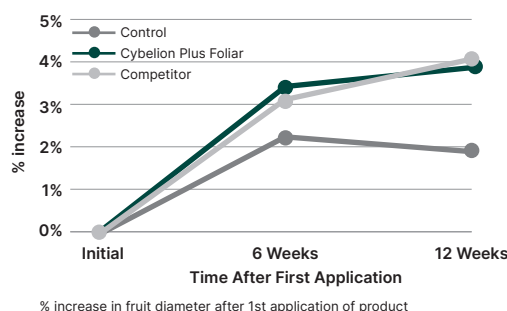
**Application Method:** Foliar applications made with mist blower.

**Application Timing:** Foliar application made before expected freezing temperatures.

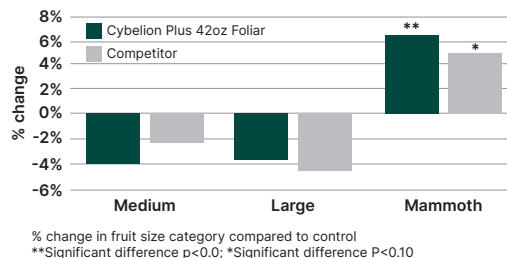
### RESULTS

#### Performance in Citrus

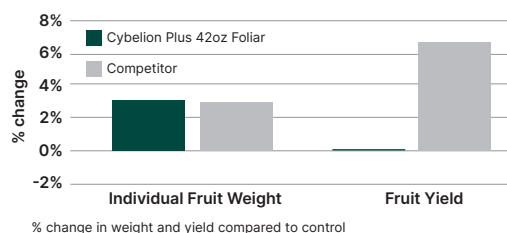
##### Fruit Diameter Increase



##### Citrus Size Classes



##### Fruit Weight and Yield



### SUMMARY

- Foliar applications of Cybelion Plus increased fruit diameter shifting the harvest into more of the larger, heavier fruits and producing higher overall yields.
- Cybelion Plus produced similar results as the conventional acrylic polymer product and could serve as a biologic alternative to protect Citrus from abiotic stress.

# 4%

INCREASE IN  
FRUIT DIAMETER

# 6%

INCREASE IN  
MAMMOTH  
SIZED FRUIT

# .10 oz/ FRUIT

INCREASE IN  
INDIVIDUAL  
FRUIT WEIGHT

# 189 \$/ AC

NET INCREASE IN  
CROP VALUE

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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](https://cropnutrition.com)