Mosaic BIOSCIENCES

TruResponse™

TRIAL DATA

REGISTERED cdfa ORGANIC INPUT MATERIAL

GRAPES

Manage™ Applications in Table Grapes

February, 2024

OBJECTIVE

Evaluate the effects of the timing and rate of Manage™ applications on the yield and quality of Table Grapes.

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., Manage) contain multiple bacterial species that are specifically selected and formulated to promote plant nutrient availability.

TRIAL DETAILS

Crop: TABLE GRAPES *(Vitis vinifera)*

Year: 2023

Location: United States - Central California

Data Source: Field study was conducted by third-party, independent researcher

Treatments:

1. Grower Standard
2. Manage applied at 10 oz/ac twice during berry sizing and verasion
3. Manage applied at 20 oz/ac once at verasion

Cultivar: Krissy

Cropping Conditions: Trial conformed to local cropping practices. Established vines with conventional tillage

Application Rate: 10 and 20 oz/ac

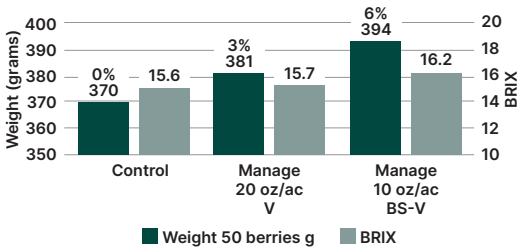
Application Method: Soil drench during active irrigation

Application Timing: Variable applications at berry sizing and verasion

RESULTS

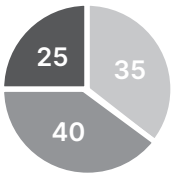
Performance in Table Grapes

Berry Weight and BRIX

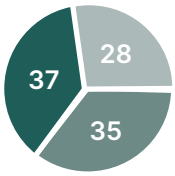


% value is % increase in yield compared to untreated control
V: Single application at verasion
BS-V: 2 applications at berry sizing and verasion

Berry Size



Grower Standard
% small
% medium
% large



Manage 10 oz/ac (2 applications)
% small
% medium
% large

SUMMARY

- Both Manage treatments produced larger, heavier berries than the untreated control
- The two 10 oz applications of Manage were more effective than the single 20 oz application in increasing the size and weight of the grapes
- The two 10 oz applications also increased Brix levels more than the single 20 oz application or the grower standard
- The trial experienced heavy rain in August due to a rare hurricane event. The rain caused swelling in cracking in the developing fruit which led to a lot of rot and lower yields than is typical for the region

6%
INCREASE IN WEIGHT OF 50 BERRIES

0.6
INCREASE IN BRIX LEVELS

7%
DECREASE IN SMALL BERRIES

12%
INCREASE IN LARGE BERRIES

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**