

ALMONDS

GroZyme[®]

MICRONUTRIENT SPRAY

GroZyme[®] is a microbial fermentation product that when introduced to the soil and plant structure will help stimulate microbial activity and stimulate the plant's uptake of nutrients essential for good plant health and increased crop production. **GroZyme[®]** is intended to be used in conjunction with a normal grower fertility program.

3 YEARS OF ALMOND TRIAL RESULTS

Same trees/orchard treated

2019, 2020, 2021

As these trees matured, total yield increased as expected as well as the increase of yield in lbs. due to **GroZyme[®]** treatments. Best rate of input was the 6-oz treatment added to Grower Standard fertilization program that produced the best ROI \$'s (based on Trial Year 2021 of more mature trees/orchard).

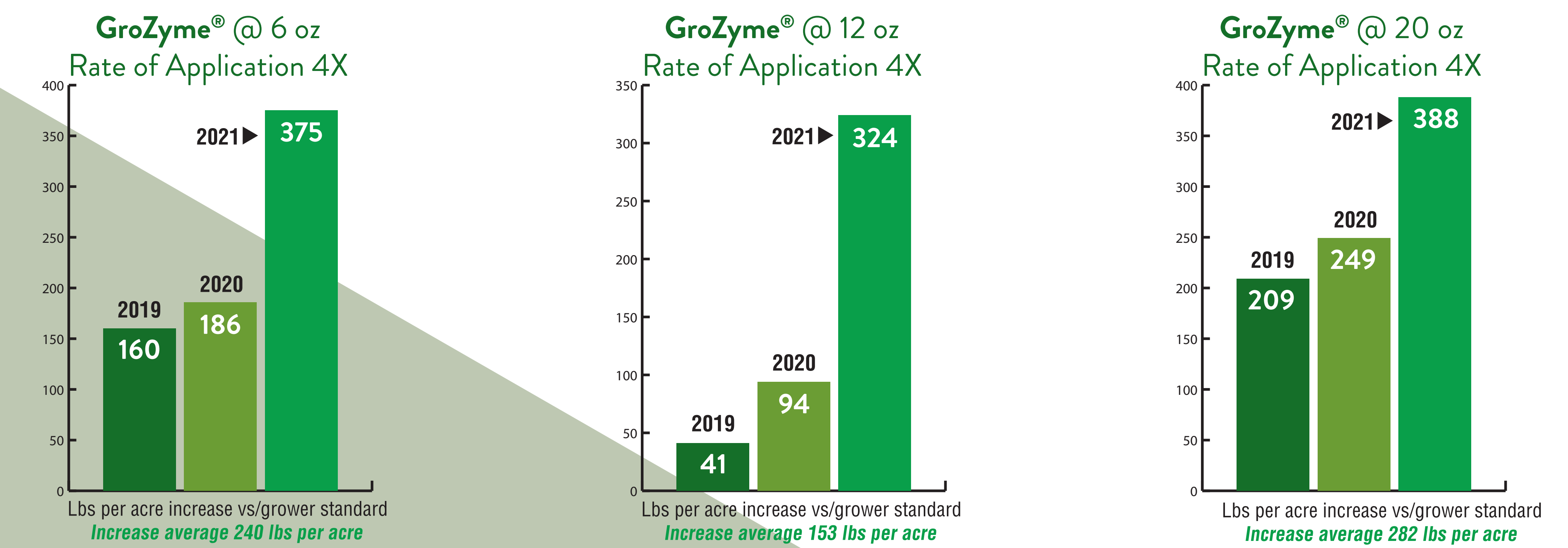
- Input cost per year = \$24.00 per acre
- ROI = \$750.00 per acre treated

INCREASE YOUR ALMOND YIELD PER ACRE

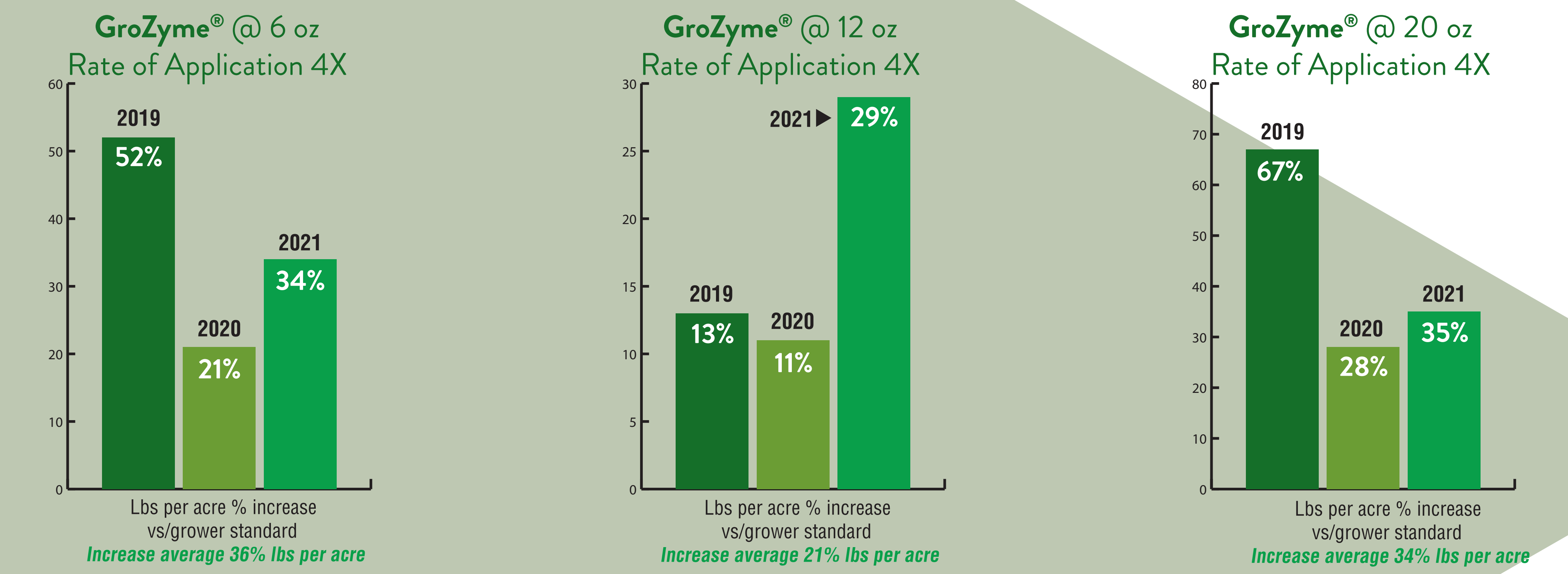
GROZYME® ON ALMONDS

Trials Performed by
Wes Asai Pomology Consulting, Turlock CA.

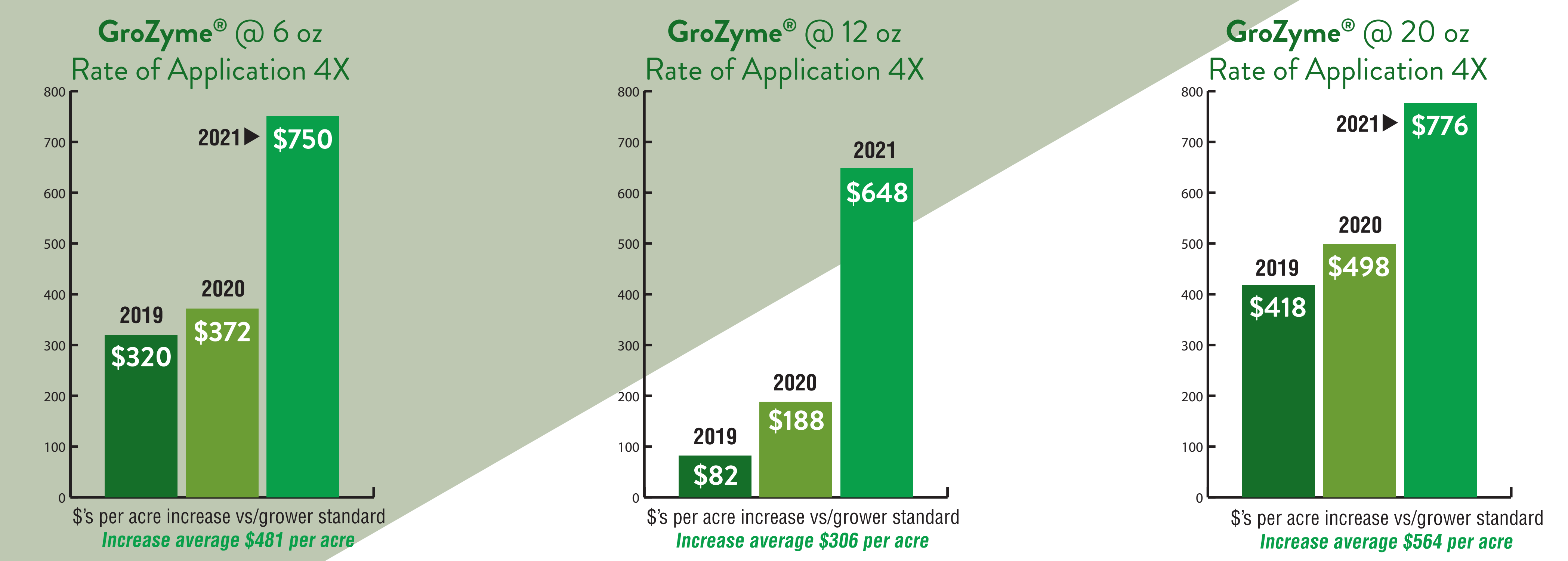
LBS. INCREASE PER ACRE



% INCREASE PER ACRE



\$'s INCREASE PER ACRE



INCREASE YOUR ALMOND YIELD PER ACRE

ZINC UPTAKE STUDIES



CAS Summer Meeting at South
Coast Research Station

August 1, 2018

David Holden

ZINC UPTAKE ENHANCEMENT WITH GROZYME®

- Data presented recently at the Annual Soil and Plant Conference in early February by Dr. Patrick Brown based on the use of Grozyme with Zinc in Sunflowers
- Supplemental macronutrients and microbial fermentation products improve the uptake and transport of foliar applied zinc in sunflower (*Helianthus annuus* L.) plants. Studies utilizing micro X ray florescence.

2016-17 ZINC UPTAKE STUDIES IN AVOCADOS WITH GROZYME®

- Two rates, 6 floz and 10 floz /ac applied three times in spring and summer 2016 to the soil with no change in growers zinc application.
- Interesting Nutrient Change

Treatment	Leaf Nitrogen - %	Leaf Zinc - ppm	Soil Zinc in fall - ppm
Grower Standard	1.83	22	5.7
G.S./GroZyme® - 6 floz rate	2.00 (+ 9%)	26 (+ 18%)	5.8
G.S./GroZyme® - 10 floz rate	2.09 (+ 14%)	28 (+ 27%)	5.7

INCREASE YOUR ALMOND YIELD PER ACRE

SALT INDUCED STRESS TRIAL

Performed by



Positive effects of GroZyme® added to Grower Standard fertilization in areas affected by higher-than-normal sodium and chloride levels in the soil in some West Coast growing regions.

Chart 1.

Demonstrates the increase in yield comparing strawberries grown in soil treated with increased sodium and chloride levels, one replicate set grown without soil inputs of GroZyme®, and one set grown additionally treated with GroZyme®. A 25% yield increase was seen through use of GroZyme® in season.

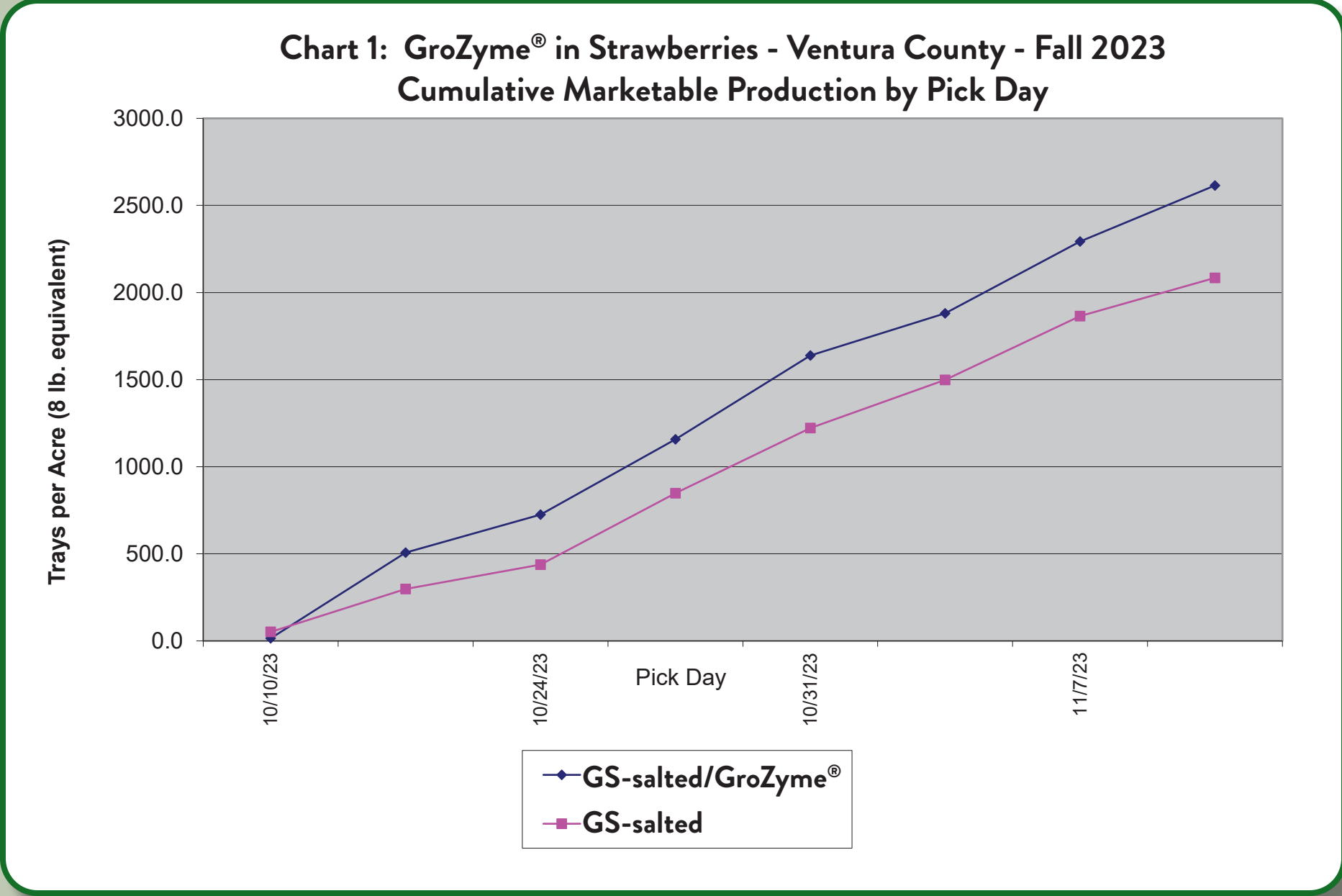
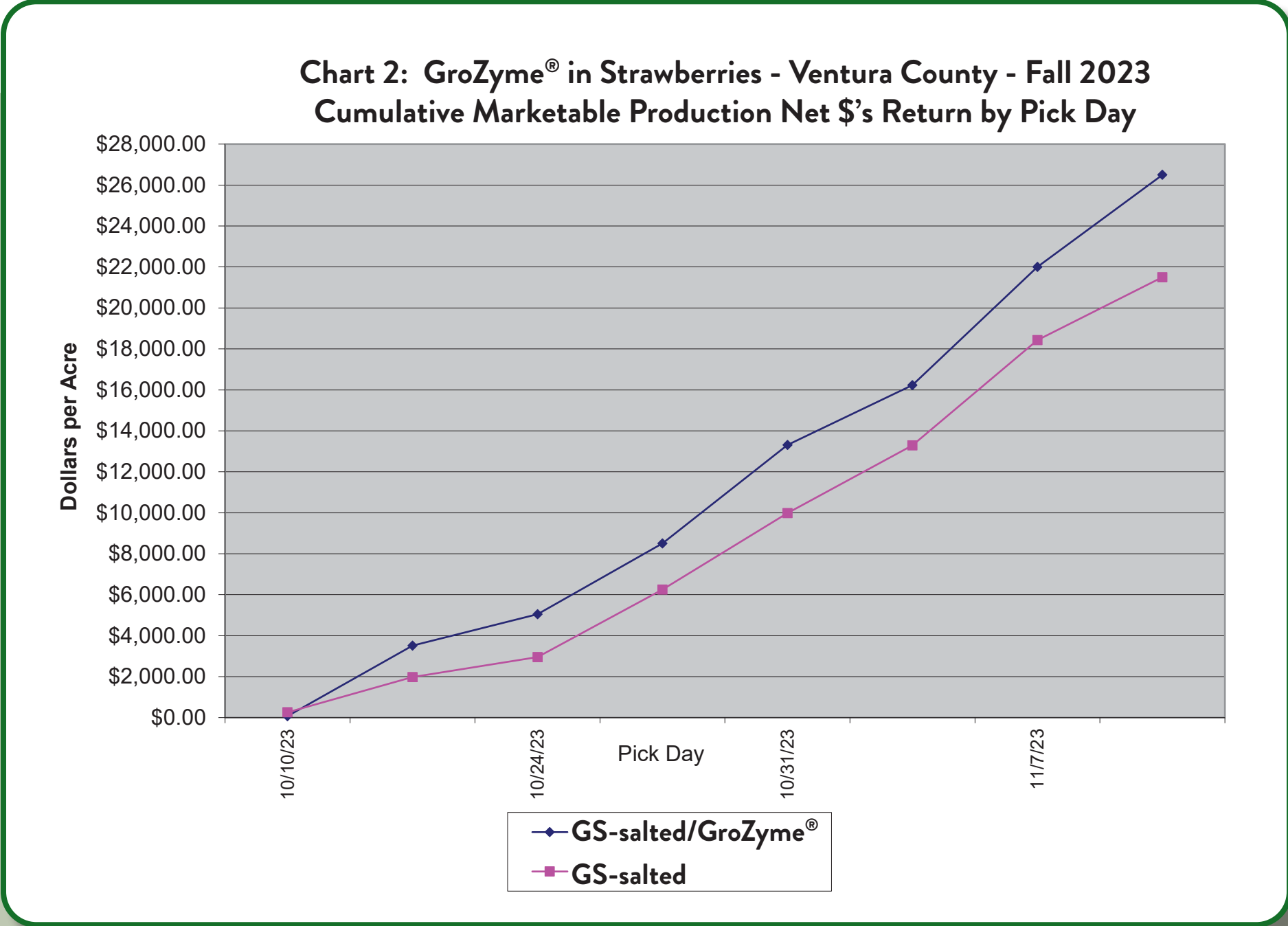


Chart 2.

Demonstrates the increase in dollar returns to the farm after picking costs are removed comparing strawberries grown in soil treated with increased sodium and chloride levels, one replicate set grown without soil inputs of GroZyme®, and one set additionally treated with GroZyme®.

A 23% increase in dollars' worth \$4995 per acre was seen through use of GroZyme® in season.



IMPORTANT CONCLUSIONS

- After three years of trial data on almond trees, the GroZyme® treatments have consistently produced significant harvest nut weight yield increases.
- The GroZyme® soil treatments also improved zinc uptake levels over the three years of these studies.
- Leaf analysis showed higher levels of both zinc and manganese with all three rates of GroZyme® treatments in these trials.
- Similar data has been recorded on other tree and orchard crops throughout the Western growing region increasing crop yields and zinc uptake when compared with normal grower standard treatment programs.
- 25% increase in crop yields through use of GroZyme® in areas affected by higher-than-normal sodium and chloride levels in the soil in some West Coast growing regions as compared to grower standard without GroZyme®.
- Every tree could use a little GroZyme®.
- Helping America Grow.

INCREASE YOUR ALMOND YIELD PER ACRE