

Summary of the ZM-Grow fertilization tests in USA for Cotton, Field Tomato, Avocado, Citrus and Wheat 10 2018

During 2018 a number of detailed field tests have been performed for the ZM-Grow in USA. Tests were performed by the professional independent researches and research institutes and thus provide a credible information of the performance of the ZM-Grow for the different crops. While the results can be widely adapted due to the nature of the test, naturally the end results can have some variation based on the local circumstances.

Independent test results provide us valuable information regarding e.g.

- Plant safety
- Take-up figures at different dosages for ZM-Grow: Zn 5%, Mn 5%
- Comparison information of ZM-Grow performance to a market “leading” products
 - o “Market leading” product A: 5.1%Zn, 2.7%Mn, 0.5%B, 0.25%Mo. Carbohydrates, complexed.
 - o “Market leading” product B: 3%Mn, 3%Zn. Amino acids, chelated.
 - o “Market leading” product C: Zn 9% EDTA
 - o “Market leading” product D: Mn 6% EDTA

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1. Test method

The tests were conducted in the following way: before the fertilization a control sample of the untreated leaves was taken to show the base level for both Zn and Mn. Then the spreading was made to different sectors with several different liquid concentrations from weakest to strongest to see what is the optimum dosage for ZM-Grow.

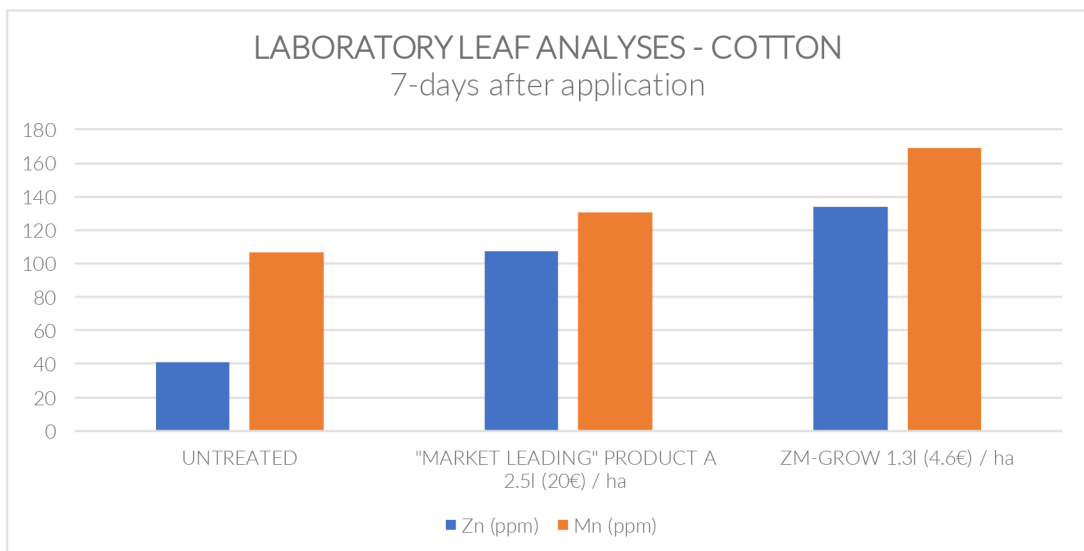
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A comparison was made in all the tests with some competing product (sulphate, chelate) that had similar or very similar properties with ZM-Grow. This would show if our product gives inferior, similar or superior results when compared to existing products. Prices in the €/ha comparison are estimates and can vary dependent on the market conditions.

2. Tests for different plants

2.1 Cotton



Phytotoxicity (e.g. leaf burns) were not observed during testing (dozes up to 5l/ha)

Test administered by:

Verdict by Tracegrow

Take-up:

Recommended dosage (varied based on the need):

Cost, ZM-Grow vs market "leading" product:

Conclusion:

Steve Deitz, Sawtooth Ag Research

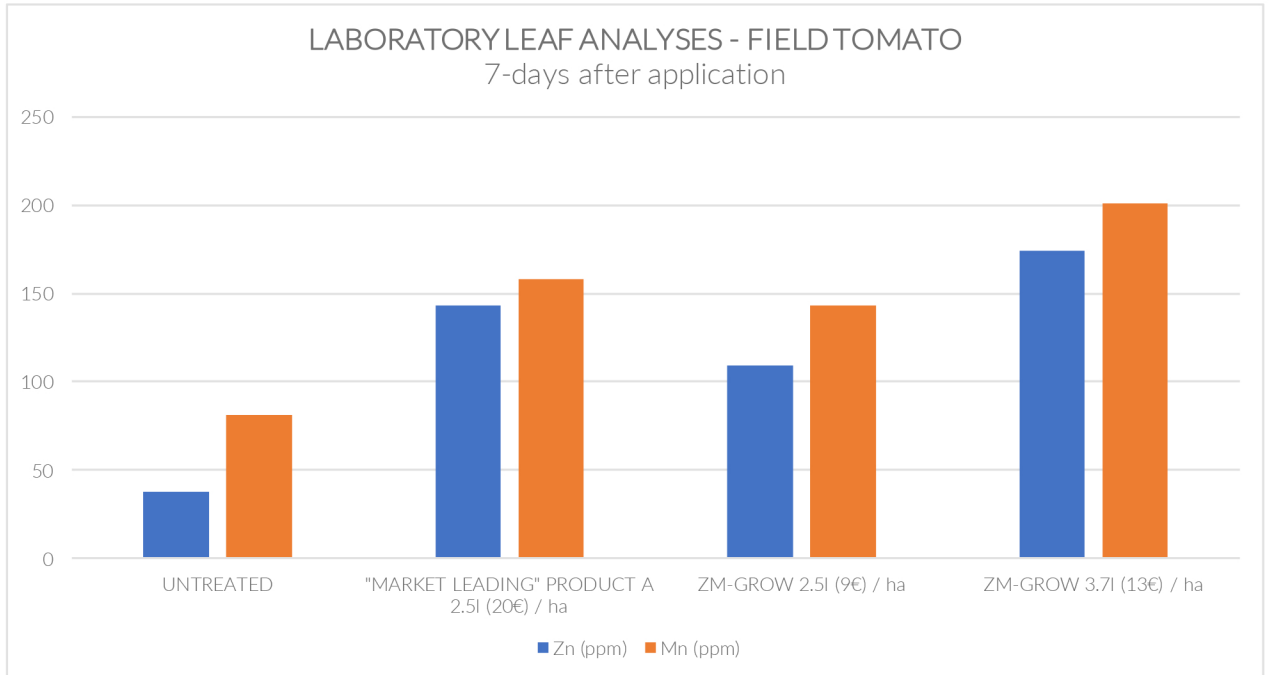
Excellent both for Zn and Mn

l/ha: 1.3-2.5

€/ha: 4.6-8.8/20

ZM-Grow outperformed the competing product

2.2 Field Tomato



Phytotoxicity (e.g. leaf burns) were not observed during testing (dozes up to 5l/ha)

Test administered by:

Verdict by Tracegrow

Take-up:

Recommended dosage (varied based on the need):

Cost, ZM-Grow vs market "leading" product:

Conclusion:

Steve Deitz, Sawtooth Ag Research

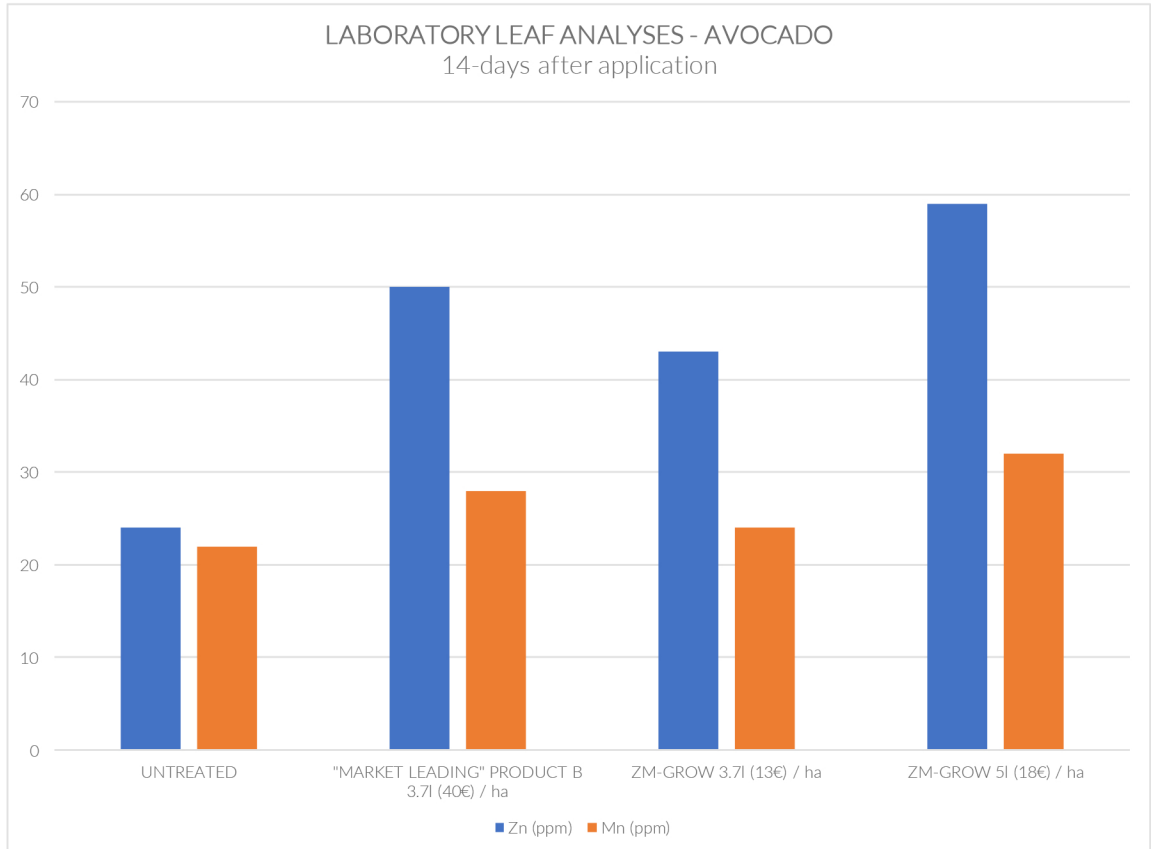
Excellent for both Zn and Mn

l/ha: 2.5-3.7

€/ha: 9-13/20

ZM-Grow outperformed the competing product

2.3 Avocado



Phytotoxicity (e.g. leaf burns) were not observed during testing (dozes up to 5l/ha)

Test administered by:

Verdict by Tracegrow

Take-up:

Recommended dosage (varied based on the need):

Cost, ZM-Grow vs market "leading" product:

Conclusion:

David Holden, Holden Research and Consulting

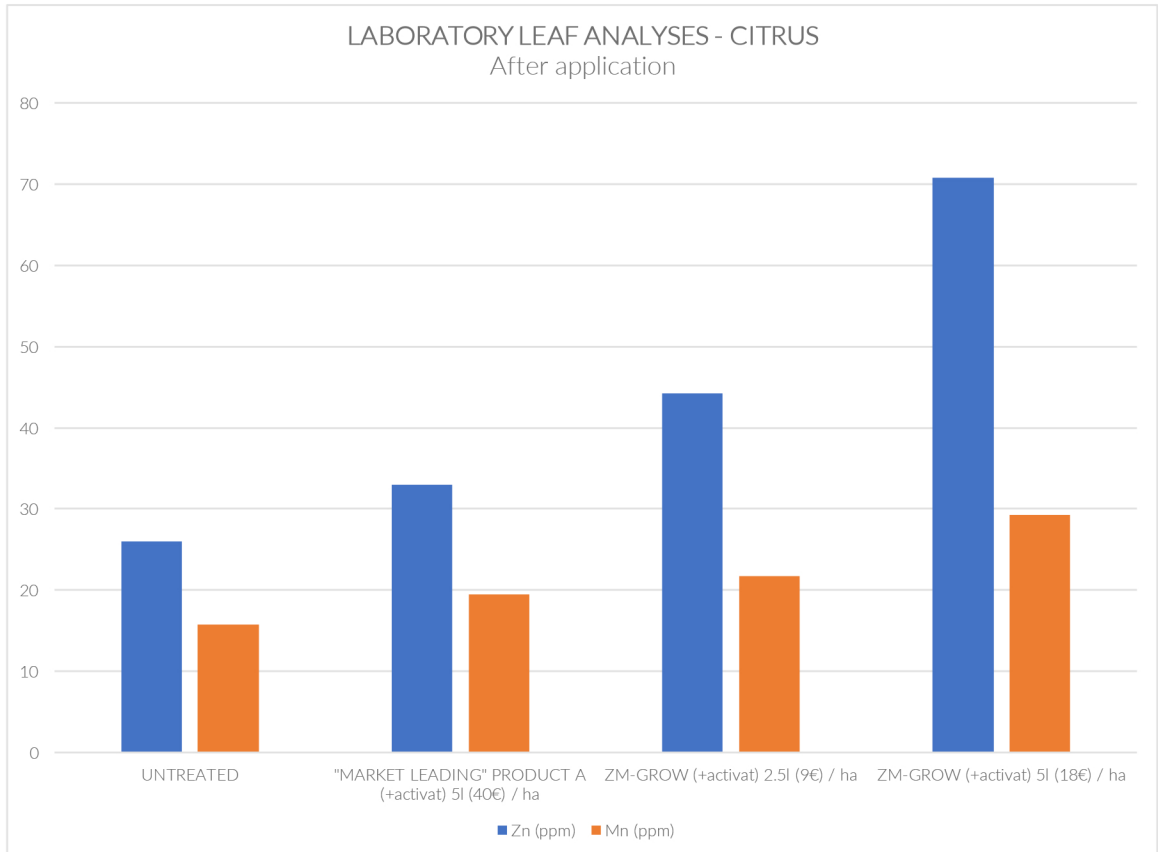
Excellent for both Zn and Mn

l/ha: 3.7-5.0

€/ha: 13-18/40

ZM-Grow outperformed the competing product

2.4 Citrus



Phytotoxicity (e.g. leaf burns) were not observed during testing (dozes up to 5l/ha)

Test administered by:

Dr. Barat Bisabri
Bisabri Ag. Research and Consulting

Verdict by Tracegrow

Take-up:

Excellent for both Zn and Mn

Recommended dosage (varied based on the need):

l/ha 2.5-5.0

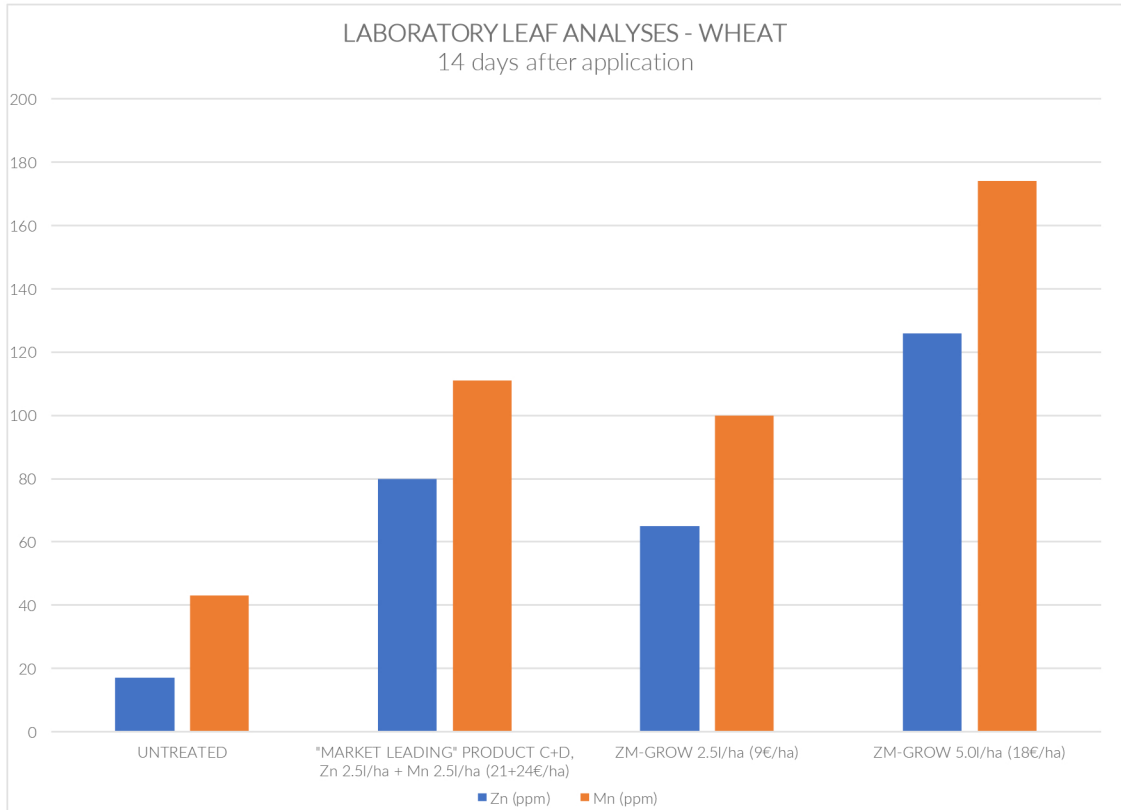
Cost, ZM-Grow vs market "leading" product:

€/ha 9-18/40

Conclusion:

ZM-Grow outperformed the competing product

5. Wheat



Phytotoxicity (e.g. leaf burns) were not observed during testing (dozes up to 5l/ha)

Test administered by:

Dr. Ruiz Diaz
Professor and Soil Fertility Specialist
Department of Agronomy
Kansas State University

Verdict by Tracegrow

Take-up:

Excellent for both Zn and Mn

Recommended dosage (varied based on the need):

l/ha 2.5-5

Cost, ZM-Grow vs market "leading" product:

€/ha 9-18/(21+24)

Conclusion:

ZM-Grow outperformed the competing product

3. Conclusions

We can clearly see that the ZM-Grow has provided excellent results with all the tested plants (cotton, tomato, avocado, citrus, wheat) demonstrating the fact that our statement: “With Tracegrow products, you do not have to give up any good qualities, instead you get all the same excellent results that you would expect to get by using other premium level foliar fertilizers of the same type, but in addition to that you get for the same price bonuses like the fact that ZM-grow is the only zinc and manganese based clean fertilizer where zinc and manganese are recycled thus making it the World’s most ecological fertilizer of its kind and an excellent choice for the sustainable farming globally”. Before said naturally provides farmers more opportunities to better serve the increasing amount of environmentally aware customers and thus provides farmers with better potential for added revenues.