

Welcome to



ONION & CARROT

MEY 2022

MAXIMUM ECONOMIC YIELD

MAR 9



NUTRIAG



ACADEMY

Advanced Learning

NUTRIAG

Innovators
in the field

Wednesday, March 9, 2022



Cultivating Resilience

9 AM	Welcome and Introduction	Martin Bloomberg President, NutriAg Ben Dalglish Sales Director, Eastern Region, NutriAg
9:10 AM	Digging into Carrots	Ben Dalglish
9:45 AM	Role of Micronutrients in Carrot Production	Rahaleh Taban Research Associate, NutriAg
10:15 AM	NutriAnalytics Introduction Onion and Carrot Project Results	Dr. Sebastian Margarit VP Agronomy & Infomatics, NutriAg
11 AM	Break	
11:15 AM	GUEST SPEAKER Current Carrot Pathology Issues and Management	Dr. Mary K. Hausbeck MSU
12:15 PM	Grower Panel Open Discussion	
1 PM	ADJOURN	



OUR TEAM IS HERE TO HELP. LET'S TALK!

Prince Edward Island, Nova Scotia

MICHELLE - 902-439-5820

**New Brunswick, Maine, Vermont, New Hampshire,
Massachusetts, Connecticut, Rhode Island**

SEBASTIAN - 902-890-2067

**Eastern Ontario, Quebec, Pennsylvania,
New York, New Jersey, Delaware**

CHAD - 613-561-3307

South Western Ontario

BEN - 519-428-8242

Manitoba, Saskatchewan, Alberta

AARON - 306-270-3384

**Nebraska, Minnesota, Iowa, Wisconsin, Michigan,
Illinois, Indiana, Ohio**

CHRIS - 517-732-4628

**California, Nevada, Arizona, Utah, Colorado,
Kansas, Oklahoma, New Mexico, Texas**

MATT - 209-761-0839

**Missouri, Arkansas, Louisiana, Mississippi, Tennessee,
Alabama, Georgia, Florida, South Carolina, North Carolina,
Virginia, Kentucky, Maryland, West Virginia**

ARI - 647-281-4181

**British Columbia, Washington, Oregon, Idaho,
North Dakota, Wyoming, South Dakota, Montana**

VAUGHN - 1-208-431-3748

Mexico, Central America

CARLOS - 437-230-9139



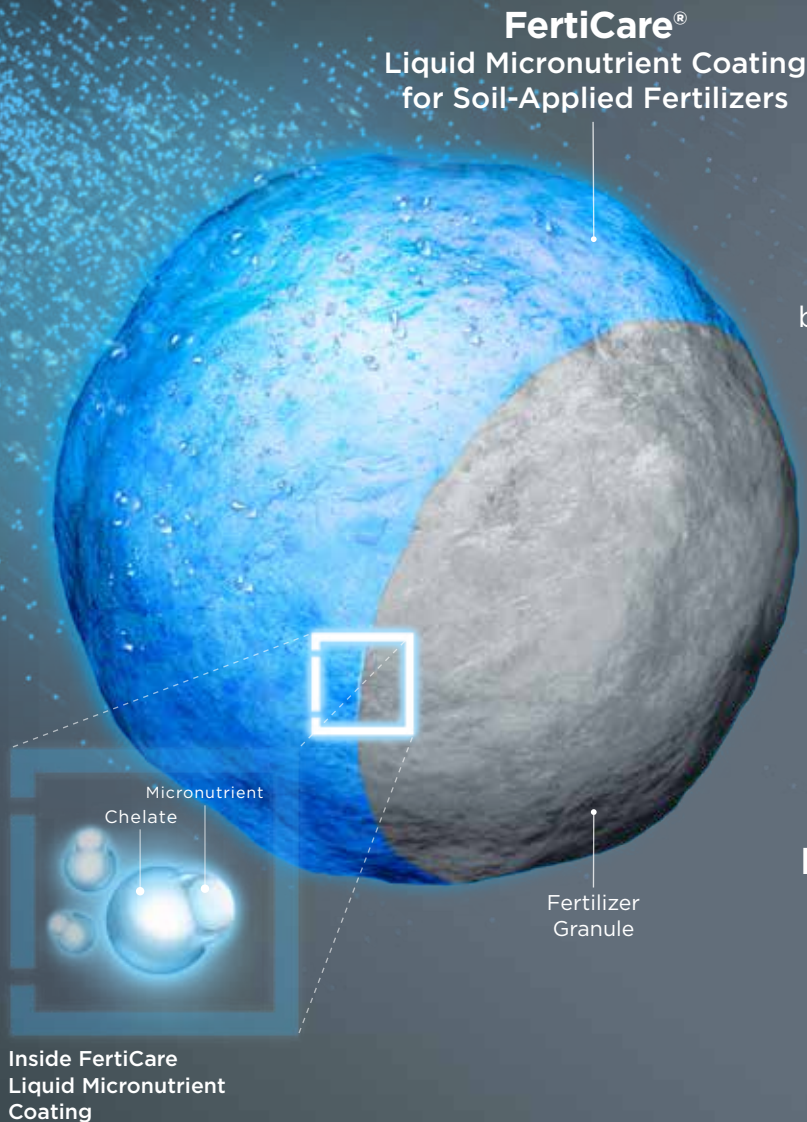
Our Academy brings together agricultural scientists, international and local experts and our own R&D team to share scientific and agronomic information. The focus is on training our distributors, dealers and field agronomists.



<https://www.nutriag.com/register/>

3 REASONS

MORE POWERFUL THAN OTHER COATINGS



1

Chelated Micronutrients

Packed with micronutrients chelated by natural, plant-derived carbohydrates to maximize uptake.

2

Immediately Available

Completely soluble and immediately available nutrition for early season crop growth and beyond.

3

More Yield with Less Nutrients

Improve ROI and achieve higher yields with lower nutrient application rates compared to other coatings.



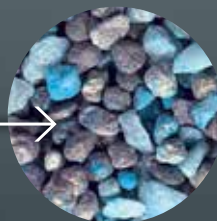
Our exclusive formulation of natural, plant-derived carbohydrates chelate essential crop nutrients to enhance uptake and optimize usage by the plant.

Uncoated



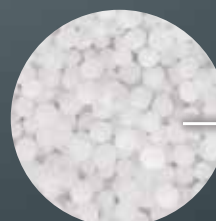
NPK 15-25-7
CHECK

Coated



NPK 15-25-7
2.0 L/tonne

Uncoated



UREA
CHECK

Coated



UREA
4.0 L/tonne



FertiCare® is a liquid micronutrient coating that uniformly and effectively coats granular fertilizers.

FertiCare coats every single granule with the perfect combination of micronutrients, putting crops closer to essential nutrition and promoting more even distribution across the field. The result is strong early root growth, more even establishment and ultimately, higher yield potential.

Benefits

- Naturally chelated with PAC™ technology, ensuring efficient uptake and metabolism of nutrients for maximum nutritional benefits.
- Built-in micronutrient packages designed to enhance the performance of existing soil-applied fertilizers.
- Delivers fully chelated crop nutrition in a true solution for the highest crop safety.
- 30x more efficient than a granular source.
- Water-based formulation for convenient handling and use.
- Eliminates dust and reduces micronutrient loss during application.
- FertiCare micronutrients uniformly and effectively coat both urea and NPK granular fertilizers.



FertiCare is available in a variety of formulations, helping growers stop deficiencies before they can get started.

ANALYSIS:



FertiCare AllCoat

Zn
6.0%

Mn
2.0%

B
0.5%

Mo
0.05%

IBA
0.1%



FertiCare BoronCoat

B
8.1%



FertiCare CuCoat

Cu
4.2%

**30X
MORE
EFFICIENT***
THAN A
GRANULAR SOURCE

*Zn, Mn, Cu, and Fe are ~ 30X and Boron ~ 12X more efficient than a granular source.

ALL
PRODUCTS
AVAILABLE
IN JUGS
AND BULK



FertiCare FeCoat

Fe
4.0%



FertiCare ManCoat

Mn
5.5%

B
0.45%

Mo
0.5%



FertiCare ZincCoat

Zn
10.0%

B
0.5%

Application Rates:

NPK: 1.0-4.0 L/tonne of granular fertilizer | **Urea:** 1.0-2.0 L/tonne of granular fertilizer

Caution should be taken when applying FertiCare micronutrient products to urea. Do not exceed 2.0 L/tonne.

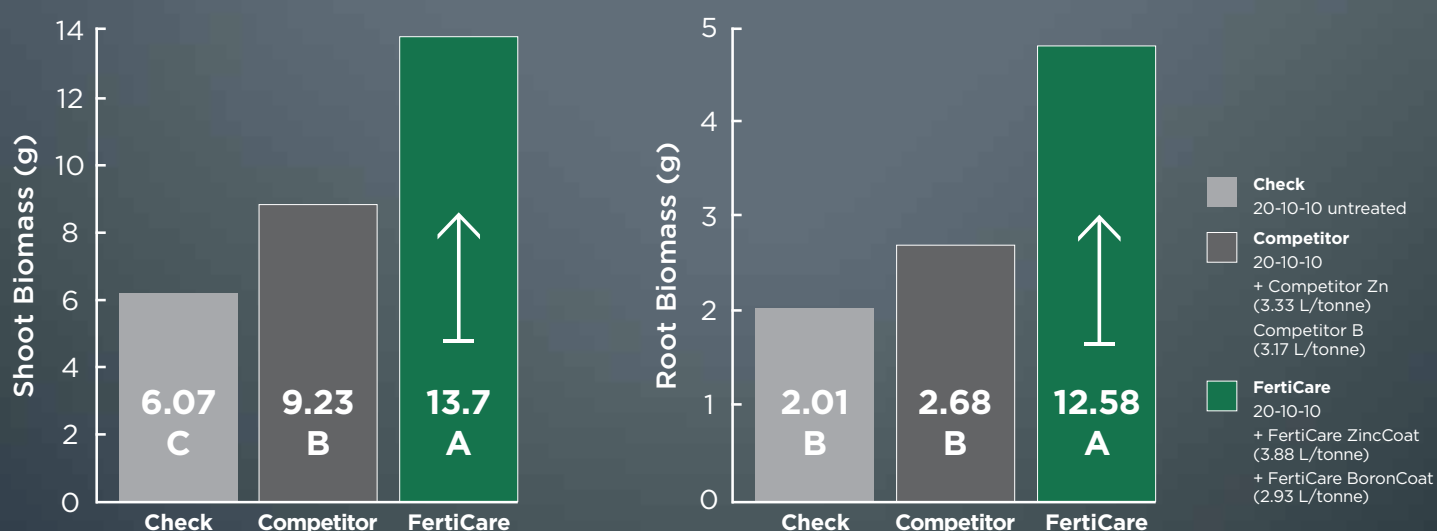
Benefits that go well beyond the soil.

Compared to untreated and competitors, corn plants treated with **FertiCare ZincCoat and FertiCare BoronCoat** had significantly higher root and shoot biomass.



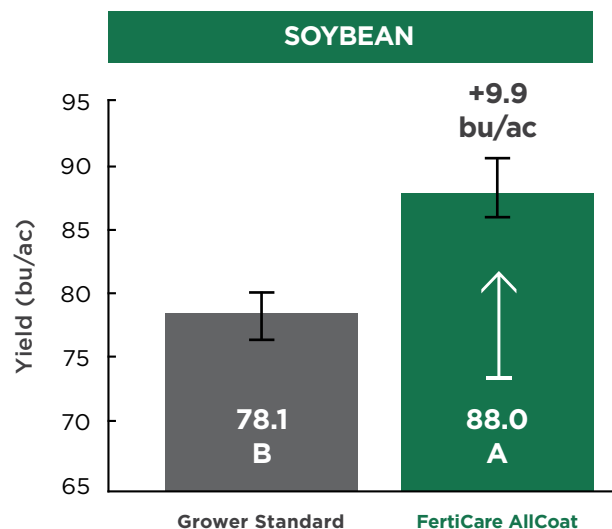
Use Less to Deliver More.

Using 4.8x less zinc, FertiCare ZincCoat outperformed a competitor micronutrient coating product. Using a chelated nutrient in a true solution means higher availability. Oxide suspensions make nutrients more difficult to access because they are in an insoluble form.



* $p < 0.10$
 Different letters indicate a significant difference.
 Check applied 0 g Zn/ac. Competitor applied 317 g Zn/ac.
 FertiCare applied 65 g Zn/ac.

Results from the field



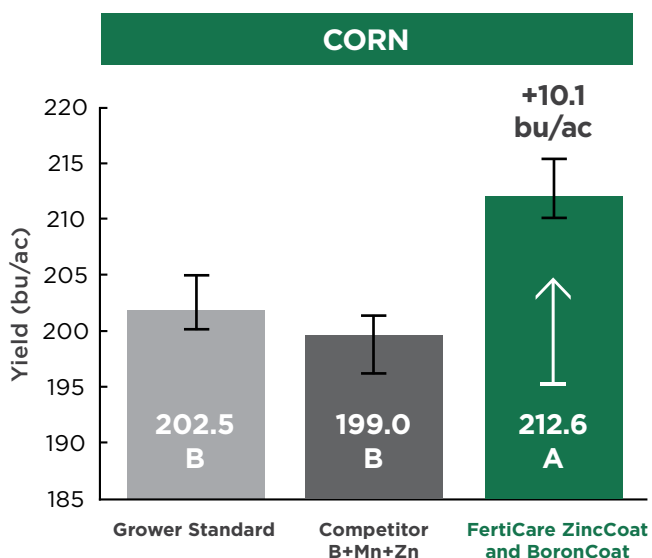
Crop: Soy (CP4825X)

Year: 2020

Location: Quantico, Maryland

Cooperator: Ron Mulford

Treatment: The grower standard blend containing 114 lbs/ac MAP and 117 lbs/ac MOP was broadcast and incorporated and compared to the same blend treated with 2.1 L/tonne of FertiCare AllCoat.



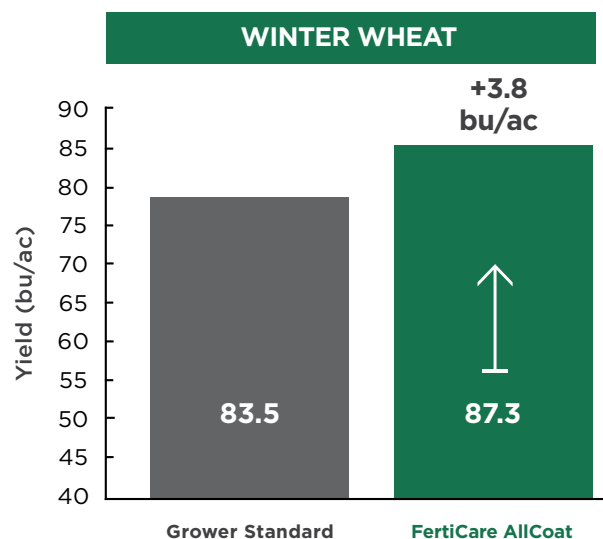
Crop: Corn (215-75VT2PRIB)

Year: 2020

Location: Quantico, Maryland

Cooperator: Ron Mulford

Treatment: A blend of 15.5-16.3-16.5-6.6 was broadcast and incorporated at a rate of 364 lbs/ac (grower standard), and was compared to the same blend treated with 0.53 L/tonne of FertiCare ZincCoat and 0.48 L/tonne BoronCoat, or to the same blend treated with 2.1 L/tonne of a Competitor B, Mn, Zn product.



Crop: Winter Wheat

Year: 2019-2020

Location: Bright, Ontario

Cooperator: BlackCreek Research

Treatment: Average of 3 trials were FertiCare AllCoat was applied at 2.75 L/tonne on a MAP & Potash blend that was broadcast and incorporated at the rate of 224 kg/ha (200 lbs/ac), compared to the same blend with no coating.

Bountiful Potatoes!

Crop: Potatoes (Atlantics)

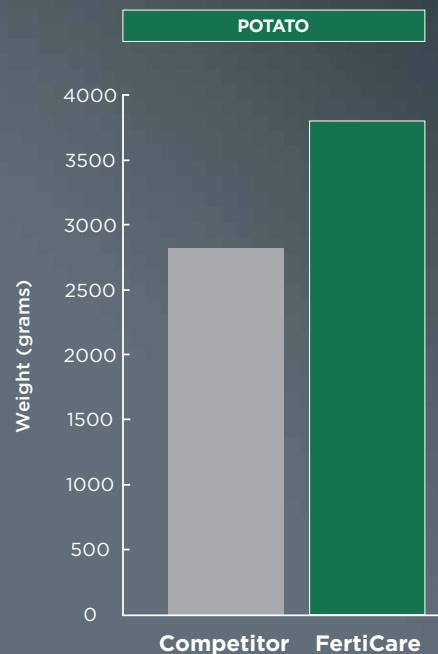
Date: July 2021

Location: New Brunswick



A
Competitor
Zinc and Boron

B
FertiCare®
Zinc and Boron



FertiCare weight
3,784 g - 3.78 kg - 8.34 lbs

Competitor weight
2,830 g - 2.83 kg - 6.24 lbs

The entire field received NutriAg foliar applications according to NutriAnalytics recommendations based on petiole analysis.

ZincMax™, MagMax™ (2 applications), ManZinPhos Max Plus™, ManMax™, Truphos Magnesium™, Length-N™, and BoronMax® (6 applications)

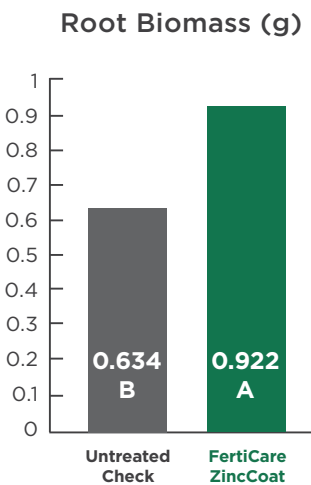
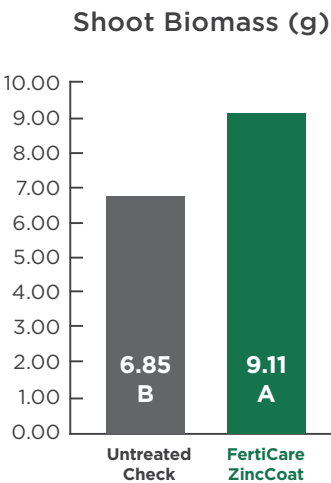


Competitor

FertiCare

Micronutrients Boost Fertilizer Use Efficiency

When a crop lacks a micronutrient, like zinc, it can't take full advantage of the applied granular fertility. Crops suffering from micronutrient deficiencies don't grow well and have reduced yield. The test below shows how FertiCare ZincCoat helps to get the most out of the granular blend that was banded at planting. Treating the blend with FertiCare resulted in more vigorous growth of the corn above and below ground compared to the same blend without micronutrients. Using the FertiCare Line of products is a low-cost way to provide highly available micronutrients distributed evenly throughout your field. This ensures you get every penny out of the investment in your NPK blend.



The Absolute Copper Foliar Fertilizer.

CuMax™ | Max™ Line

CuMax is a unique foliar fertilizer that uses exclusive PAC™ technology to deliver essential copper nutrition. Specifically formulated, plant-derived PAC carbohydrates form chelates with the copper in CuMax to deliver fully available and safe copper nutrition. CuMax provides the nutrition needed to prevent or alleviate copper deficiencies and help crops reach their maximum yield potential.



Analysis:

Copper (Cu) 4.2%

Application rate:

0.25 - 0.5 L/ac (0.6 - 1.25 L/ha)

Benefits:

- Contains PAC technology to ensure the efficient uptake of copper for maximum nutritional benefits.
- Uses plant-derived carbohydrates to deliver easily metabolized copper to the crop.
- Delivers fully chelated nutrients in a true solution to provide the highest crop safety and tank-mix compatibility.

Exclusive Technologies:

- Our exclusive formula uses natural, plant-derived carbohydrates to chelate nutrients for enhanced nutrient uptake and usage by the plant.



Copper Deficiency:

- Copper deficiency is one of the most difficult deficiencies to visually identify. The signs first appear on the young growth and spread to the older tissue. Symptoms include interveinal chlorosis, wilting and drooping of the mature leaves.



Barley



Wheat



Corn



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Disclose pH® | The Water Conditioner

Water quality matters, especially when it comes to what's going into your tank. Starting with the best quality water is the first step towards ensuring success. Disclose pH® from NutriAg uses unique technology to condition spray water, helping to overcome various spray-water problems that can have a negative effect on agricultural sprays.

Disclose pH is a unique, phosphate-free product made with specially-selected organic acids, helping to prevent algal growth, buildup in your sprayer and runoff.



Benefits:

- **Acidifies alkaline water:** Reduces spray-water pH to the ideal level (pH 5), which helps to prevent the decomposition of many agricultural sprays.
- **Decreases effects of water hardness:** Ties up excess salts found in hard water that can interfere with the performance of agricultural sprays.
- **Built-in pH indicator:** Contains a unique, patented, visual colour indicator. It signals once the optimal pH has been reached by instantly turning the spray water yellow at pH 5
- **Buffering:** Acts as a buffer to prevent over-acidification if too much is added to the spray water.
- **Utility modifier:** Widens the conditions under which a control product is useful and maintains the integrity of the spray solution

The ideal pH



Untreated Water

Treated Water

Treated Water

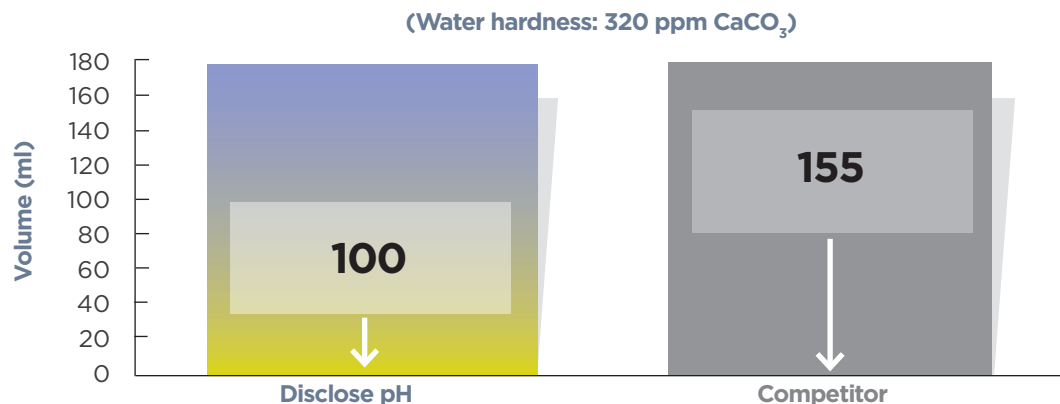
Ideal Water

1. Add water to the desired tank level
2. Add Disclose pH, and mix thoroughly
3. Watch for color change

Note: the amount of Disclose pH required should be determined using a test kit and can vary greatly depending on water pH and hardness.

Quality over quantity

The results here demonstrate that less Disclose pH is required to reach pH 5 in hard water compared to a leading competitor.



PhitaFix™

The Water Conditioner

Water quality matters, especially when it comes to what's going into your tank. Starting with the best quality water is the first step towards ensuring success. PhitaFix™ from NutriAg uses unique technology to condition spray water, helping to overcome various spray-water problems that can have a negative effect on agricultural sprays.

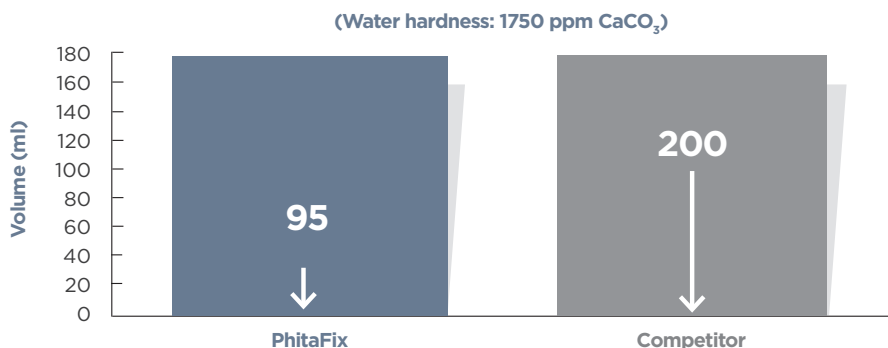
Benefits:

- **Acidifies alkaline water:** Reduces spray-water pH to the ideal level (pH 5), which helps to prevent the decomposition of many agricultural sprays.
- **Utility modifier:** Widens the conditions under which a control product is useful and maintains the integrity of the spray solution.

Quality over quantity

The results here demonstrate that less PhitaFix is required to reach pH 5 in hard water compared to a leading competitor.

FOR TREATING **250 L OF WATER**



pH 5
IDEAL
WATER

Instructions:

1. Add water to the desired tank level.
2. Add PhitaFix, with mixing, until the target pH is reached.

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Stimulate Roots. Amplify Yield.

TerraDrive™ | Terra™ Line

TerraDrive™ is a new and unique micronutrient fertilizer that enhances root growth and development. Our unique Plant Growth Enhancer™ (PGE™) technology is formulated with plant growth stimulants to optimize overall crop development. The exceptional technology in TerraDrive makes it highly effective as both a foliar fertilizer and as an additive to most liquid starter fertilizers, side dresses or transplant water solutions.



Analysis:

Boron (B)	0.25%
Copper (Cu)	1.3%
Manganese (Mn)	2.9%
Molybdenum (Mo)	0.25%
Zinc (Zn)	1.5%
IBA (indole-3-butryic acid)	0.057%
Sulfur (S)	2.38%

Application rate:

Foliar: 1 L/ac (2.5 L/Ha)

Fertigation/In furrow : 1.0-2.0 L/ac (2.5-5.0 L/ha)

Benefits:

- Delivers fully complexed crop nutrition in a true solution for the highest crop safety and tank-mix compatibility.
- Contains unique PGE technology to enhance lateral root growth and the overall health and performance of crops.
- Ideal for both soil and foliar applications.
- Increases overall root size and biomass resulting in improved yield potential.

Exclusive Technologies:

- Our exclusive formula uses natural, plant derived carbohydrates to chelate nutrients for enhanced nutrient uptake and usage by the plant.
- Our unique combination of plant growth stimulants work together to optimize overall crop development.



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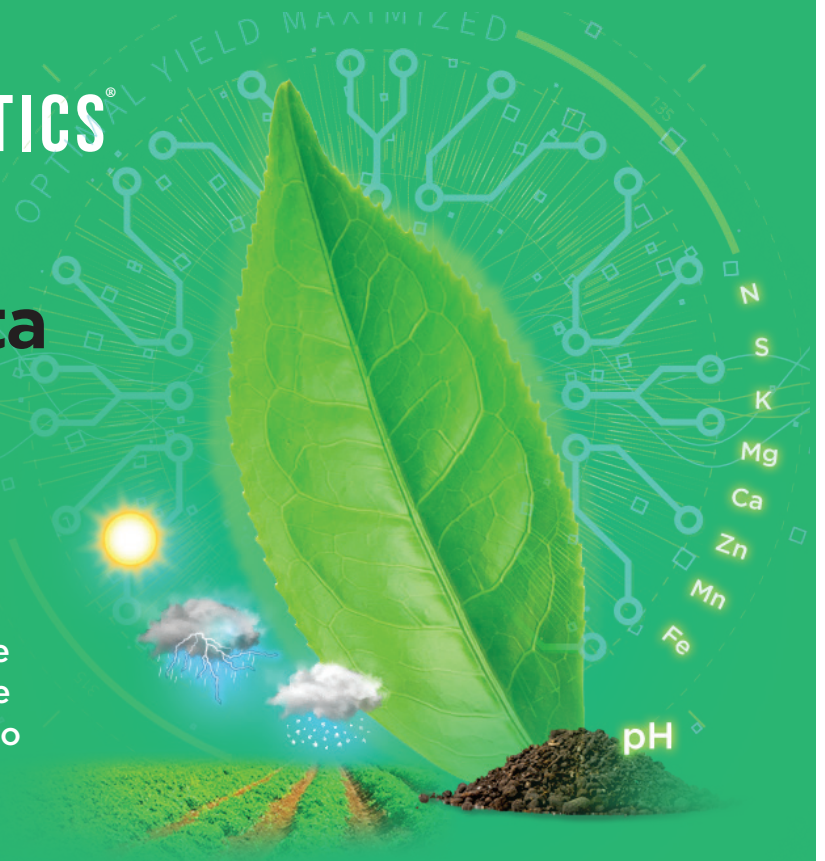


NUTRIANALYTICS®

Unlock your data for more profit.

We unlock crop data to give you the answers you need to grow the healthiest crops possible.

We combine agronomic knowledge with data analysis to help you make more informed growing decisions to improve marketable yield.



Our data analysts are farmers too.

Our team continues to innovate in the field and combine agronomy with data science to provide the best answers for farmers.

We built the technology.

We combine farming knowledge with technology to interpret the data using a method that is proven to improve crop quality and yield.



Artificial Intelligence
Engineered By NutriAg
Agronomists and Scientists.



NUTRIANALYTICS

NUTRIAG

Innovators
in the field

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Maximize yield with a tissue analysis.

Nutrient balance is the key.

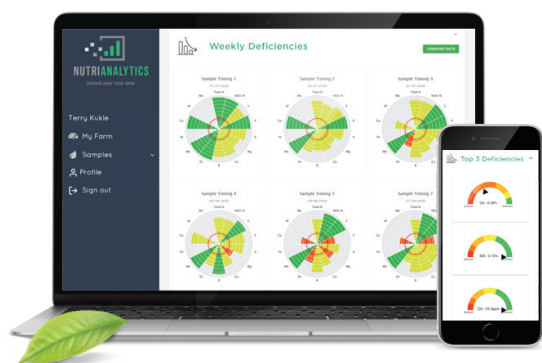
We predict marketable yield potential by identifying and quantifying nutrient imbalances and providing actionable, crop and region specific, nutrient recommendations.

When you increase a single nutrient, it can affect the availability of other nutrients, and ultimately, your potential yield. This is why we replace this guess work with expert recommendations so you can make informed growing decisions.

Call us today! (416) 636-1555

What we do:

- Predict marketable yield potential
- Provide unique crop specific foliar recommendations
- Maximize nutrient use efficiency
- Improve your ROI on inputs
- Keep it simple by leveraging traditional tissue sampling methods
- Help you grow the healthiest crops possible
- Easy to use dashboard of all your information



Visualize your data with your personal dashboard.

Access your crop profile anywhere. You can easily review nutrient reports, compare current data with historical critical values and receive your custom recommendations.



To learn more about NutriAnalytics, call us at (416) 636-1555 or visit nutrianalytics.com



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**Thank you for attending
our virtual Onion & Carrot MEY 2022.**