# Welcome to









#### Wednesday, February 16, 2022

Time Zone: Atlantic Standard Time

Cultivating Resilience					
12:30-12:40	Welcome	Martin Bloomberg			
12:40-12:50	Intro & Theme of the Workshop	Michelle Dyment			
12:50-1:20	Trial Updates	Lindsay Birch Kelly Nesic			
1:20-1:50	EBN Technology & New Product Updates	Dr. Christopher Trobacher Dr. Mike Horvath			
1:50-2:05	Break				
2:05-2:50	Grower Panel – Management strategies for new potato varieties	Michelle Dyment Dr. Sebastian Margarit			
2:50-3:30	Guest Speakers 1. Black Dot, A Silent Yield Robber 2. Ontario Seed Potato Grower Association Update	Dr. Eugenia Banks Dr. Peter VanderZaag			
3:30-3:50	Getting the Most out of Your Spray Tank – Disclose pH & Quick Fix	Lindsay Birch Dr. Tom Bajorek			
3:50-4:00	Day 1 Wrap Up	Michelle Dyment			

### Wednesday, February 23, 2022

Time Zone: Atlantic Standard Time

Cultivating Resilience					
12:30-12:40	Intro for Day 2	Michelle Dyment			
12:40-1:40	NutriAnalytics Update	Dr. Sebastian Margarit			
1:40-1:55	Break				
1:55-2:30	FertiCare Review & Trial Updates	Dr. Christopher Trobacher Lindsay Birch			
2:30-3:15	Grower Panel – Incorporating corn into a potato rotation	Michelle Dyment Lindsay Birch			
3:15-3:45	Tech Talk – Don't Bale Your Money Away	Dr. Matthew Krna			
3:45-4:00	Day 2 Wrap Up	Michelle Dyment			



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/





## 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** VAUGHAN - 1-208-431-3748

Mexico, Central America CARLOS - 437-230-9139

## Disclose pH<sup>®</sup> | 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<sup>\*</sup> 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.

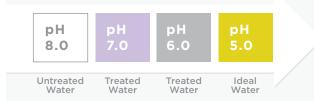
Disclose pH is a unique, phosphate-free product made with specially-selected organic acids, helping to prevent algal growth, buildup in your sprayer and runoff.



#### **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



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

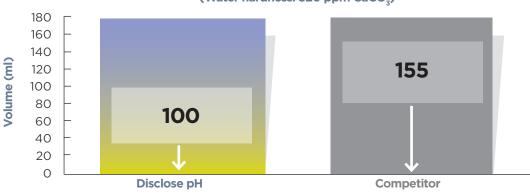
Note: the amount of Disclose pH required should be determined using a test kit and can vary greatly depending on water pH and hardness.

#### **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.

NUTRIAG

Innovators



#### (Water hardness: 320 ppm CaCO<sub>3</sub>)

## Call us (416) 636-1555 or visit Nutriag.com

# **Biofortify your foliar nutrition.**



## **EBN<sup>™</sup>** | Essential BioNutritionals<sup>™</sup>

EBN Technology moves past traditional elemental nutrition and supplies your crop with molecular nutrition to support growth and development. Our EBNs are carefully selected biomolecules that can be directly incorporated into growing tissues or be processed to serve as an additional energy source to meet your crop's needs.

#### **Molecular Nutrition:**

Standard fertilizers supply traditional elemental nutrition, we combine this with molecular nutrition in the form of EBN's that supply your crop with a variety of essential biomolecules. The EBNs can be used in three ways, by direct incorporation into growing tissues, through conversion into other molecules, or by being oxidized to provide additional cellular energy.

#### Compounds selected as EBNs:

MaxiBoost + EBN was applied as a drench at transplanting in greenhouse tomatoes (1 L/ac in 500 gal/ac assuming

- Cofactors
- Extracts
- Amines

approximately 7000 plants/ac)

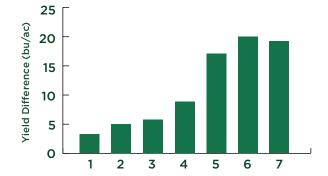
- Amino Acids
- Carbohydrates
- Antioxidants

The result is a variety of EBN packages that are matched with different foliar fertilizer formulations to support early crop development and yields at the end of the season.

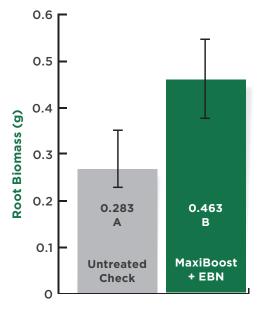
#### Data from the field:

In corn, FertiBoost-D delivered an average yield increase of **11 bu/ac** over the check when it was applied at herbicide timing across 7 trials in Ontario.





Innovators



- More fine lateral roots on the treated side
- Better shoot development



Untreated MaxiBoost + Check EBN

Call us (416) 636-1555 or visit Nutriag.com

# 

Unlock your crop data™

By combining traditional sampling methods with our innovative technology platform, NutriAnalytics<sup>™</sup>, we are able to use proprietary data modeling to challenge outdated, historical critical nutrient values. We also identify the right balance between the various nutrients, as this significantly impacts nutrient uptake.

IYTICS

Plant Tissue Sample Bag

This allows us to make accurate, crop-specific fertility recommendations by geographic region/ cultivar. By evaluating and correcting nutrient balance, we provide intervention strategies for increased yield and quality outcomes through nutrient use efficiency improvements.

### **Benefits**

ſ	-	-	-	-	-
	_	-	-	-	-
- I	-	-	-	-	
U	-	-	-	-	$(\mathcal{Y})$
				_	V

Personalized analysis by region, crop, variety & soil type

Г	
	 ( )

Precise and unique recommendations



 Na
 B
 Zn
 Mn
 Fe
 Cu
 Al
 Si
 Mo
 Se
 Co

 ppm
 ppm

27.00 32.00 122.00 6.00 51.00 228.00 0.50 0.09 0.09

Leverages artificial intelligence with historical yield data to run crop models



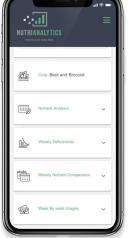
Access to your historical field data

## **Key Features**

Smith & Sons Farm	Crop. Beet and Broccoli
Phone Number: Address: -NOG2R0	Nutrient Analysis
2020 * Field Name Piece of Paradise 1 *	Weekly Deficiencies
Ali Sample +	Weekly Nutrient Comparision
Crop: Soybean - All Varieties	Vicek By week images



all your fields - past and present



Easy-to-use interface: All your field data in one place



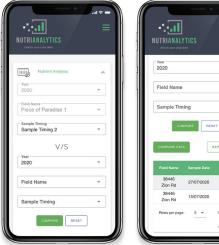
Defficiency Values: NutriAnlaytics vs historical critical values



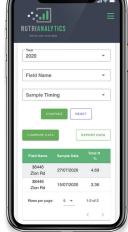
**Comparison:** Side by side nutrient levels



Major **Defiencies:** Precise nutrient reports



**Nutrient Analysis:** Compare all fields by sample timing and year



**Product: TerraDrive** Rate: 1.0 L/ac



#### **Current Application Program**





To learn more about NutriAnalytics, Call us (416) 636-1555 or visit mynutrianalytics.com



The information in this document has been provided in good faith. There are no warranties, expressed or implied, including any warranty of fitness or accuracy. The manufacturer assumes no liability if any issues arise. Trademarks within this document are of NutriAg Ltd. unless otherwise stated © 2021 NutriAg Ltd. For distribution in Canada.



## CalciMax<sup>®</sup> & ZincMax<sup>®</sup> in furrow

Crop: Potato Year: 2014-2019 Location: 26 locations in Eastern Canada Application: 2-way tank mix of 3 L/ac CalciMax<sup>®</sup> and 1 L/ac ZincMax<sup>®</sup> applied in furrow

+11.4 cwt/ac average total yield response

+4.2 tubers/10 ft strip

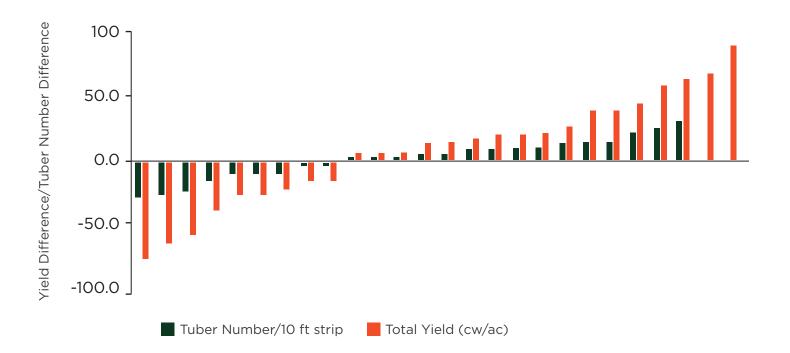
NUTRÍAG

Innovators in the field



Activated by





Call us (416) 636-1555 or visit nutriag.com

# **3 REASONS** MORE POWERFUL THAN OTHER COATINGS

**FertiCare®** Liquid Micronutrient Coating for Soil-Applied Fertilizers

#### **Chelated Micronutrients**

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

#### **Immediately Available**

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

#### More Yield with Less Nutrients

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



Chelate

Micronutrient

Inside FertiCare Liquid Micronutrient Coating



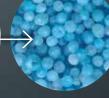
Our exclusive formulation of natural, plant-derived carbohydrates chelate essential crop nutrients to enhance uptake and optimize usage by the plant. Fertilizer



CHECK

NPK 15-25-7 2.0 L/tonne





UREA 4.0 L/tonne



# FertiCare<sup>®</sup> 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<sup>™</sup> 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:



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







# Benefits that go well beyond the soil.

Untreated 20-10-10







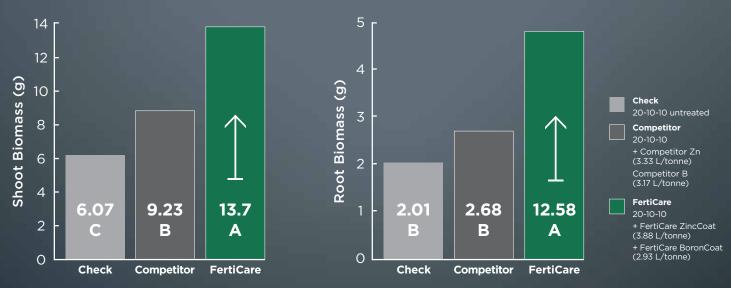
Compared to untreated and competitors, corn plants treated with FertiCare ZincCoat and FertiCare BoronCoat had significantly higher root and shoot biomass.

20-10-10 + FertiCare ZincCoat + FertiCare BoronCoat



# Use Less to Deliver More.

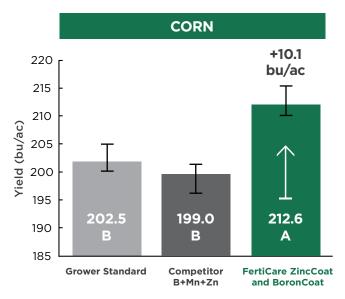
Using 4.8x less zinc, FertiCare ZincCoat outperformed a competitor micronutrient coating product. Using a chelated nutrient in a true solution means higher availability. Oxide suspensions make nutrients more difficult to access because they are in an insoluble form.



#### \* 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.

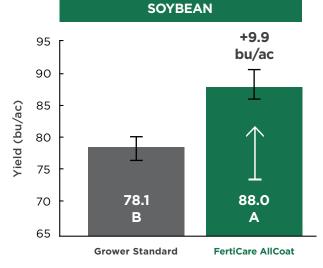
# Results from the field



**Crop:** Corn (215-75VT2PRIB) **Year:** 2020

**Location:** Quantico, Maryland **Cooperator:** Ron Mulford

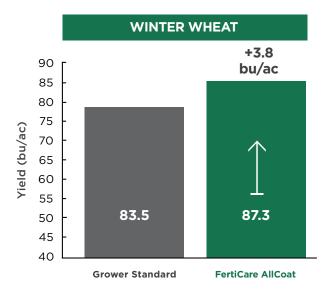
**Treatment:** : A blend of 15.5-16.3-16.5-6.6 was broadcast and incorporated at a rate of 364 lbs/ac (grower standard), and was compared to the same blend treated with 0.53 L/tonne of FertiCare ZincCoat and 0.48 L/tonne BoronCoat, or to the same blend treated with 2.1 L/tonne of a Competitor B, Mn,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



Crop: 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: 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



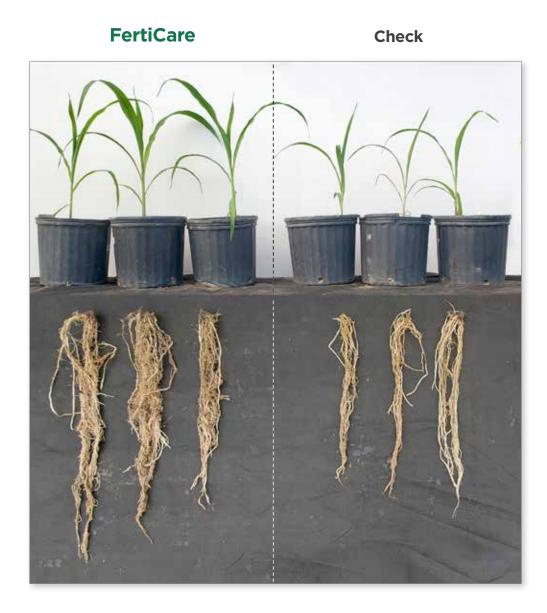
# The entire field received NutriAg foliar applications according to NutriAnalytics recommendations based on petiole analysis.

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

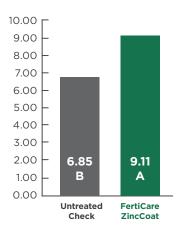


# Micronutrients Boost Fertilizer Use Efficiency

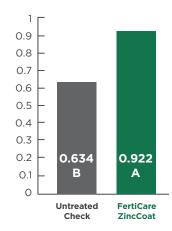
When a crop lacks a micronutrient, like zinc, it can't take full advantage of the applied granular fertility. Crops suffering from micronutrient deficiencies don't grow well and have reduced yield. The test below shows how FertiCare ZincCoat helps to get the most out of the granular blend that was banded 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.



Shoot Biomass (g)



Root Biomass (g)







# Thank you for attending our virtual Potato MEY 2022.