

**SUSTAINABLE,
OBTAINABLE
AG
STARTS HERE.**



www.storbyseed.com

Balancetm +

Give your crop the micronutrients and capabilities needed to maximize crop production with SG Elements Balance+ micronutrient mix. Balance+ is designed to deliver a proper ratio of micronutrients for crops that are under high energy and production demand and at the same time reduce the yield-harming effects of stressful conditions. Balance+ delivers boron, manganese, zinc, copper and iron as well as stress-relieving additives that allow the crop to continue growing normally through tough conditions. SG Elements Balance+ is easy to use and can be mixed with most fertilizer solutions.



Product Benefits

- Balanced broad spectrum of micronutrients
- Supplements soil micronutrient deficiencies
- Meets crop reproductive micronutrient needs to maximize yield
- Chelated for easy mixing and use
- Stress inhibiting technology minimizes crop damage from stress
- Reduces premature ripening resulting from stress, maximizing yield
- Easy to apply with nearly any foliar or pesticide application



Zinc (Zn).....	2.0%
2.0% Chelated Zinc (Zn)	
Manganese (Mn).....	2.0%
2.0% Chelated Manganese (Mn)	
Boron (B).....	2.0%
Copper (Cu).....	0.5%
0.5% Chelated Copper (Cu)	
Iron (Fe).....	0.25%
0.25% Chelated Iron (Fe)	

Product Details

Foliar Apply 32 oz/acre

- * Field Crops
- * Vegetable Crops
- * Tree and Vine Crops
- * Turf

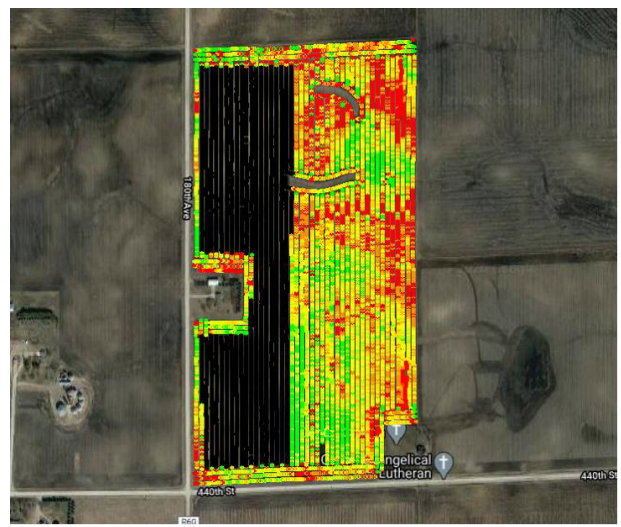
Apply on-seed 16 - 32 oz/acre for certain row crops
Band with fertilizer at 32 - 64 oz/acre

Balance Plus

Total Area: 26.05 ac

Yield (Dry) 71.19 bu/ac

Moisture 12.45 %



Application Map

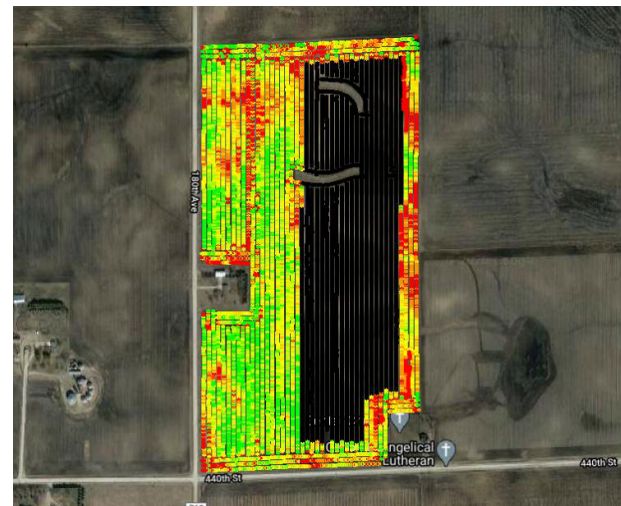


Untreated

Total Area: 30.14 ac

Yield (Dry) 65.33 bu/ac

Moisture 12.45 %



+ 5.86 bu

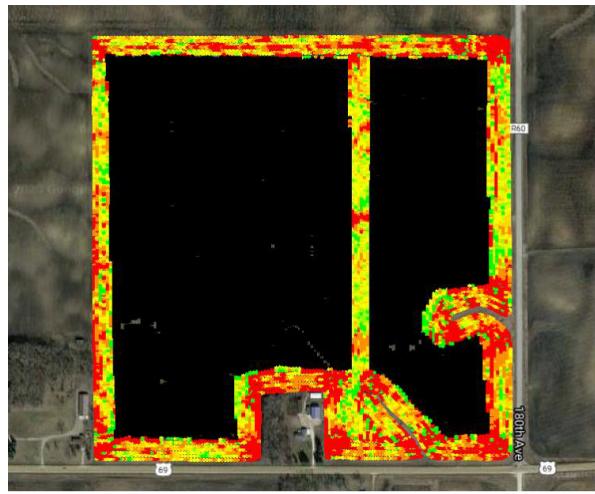


Balance Plus

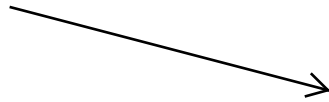
Total Area: 103.96 ac

Yield (Dry) 246.27 bu/ac

Moisture 17.65 %



Application Map

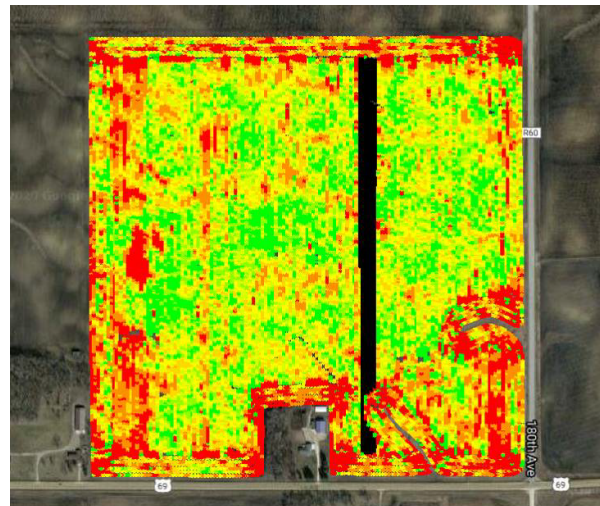


Untreated

Total Area: 5.482 ac

Yield (Dry) 240.47 bu/ac

Moisture 17.42 %



+ 5.80 bu

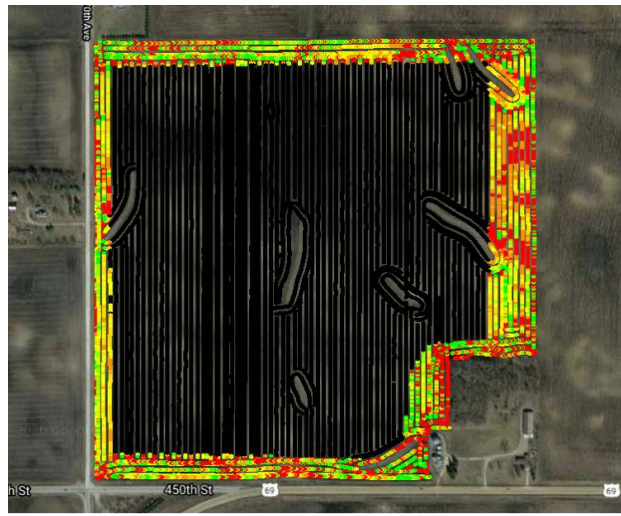


Balance Plus

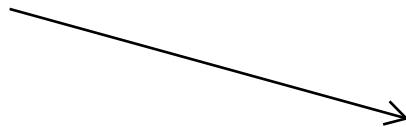
Total Area: 106.72 ac

Yield (Dry) 76.85 bu/ac

Moisture 12.85 %



Application Map

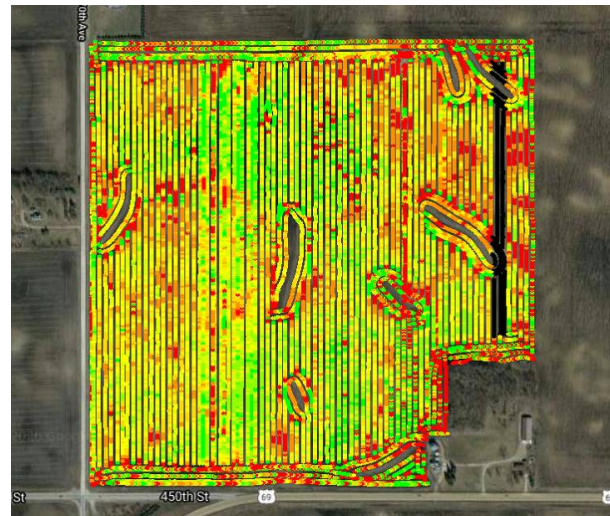


Untreated

Total Area: 2.657 ac

Yield (Dry) 71.11 bu/ac

Moisture 12.14 %



+ 5.74 bu



Balance Plus

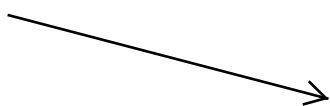
Total Area: 33.68 ac

Yield (Dry) 72.17 bu/ac

Moisture 12.26 %



Application Map

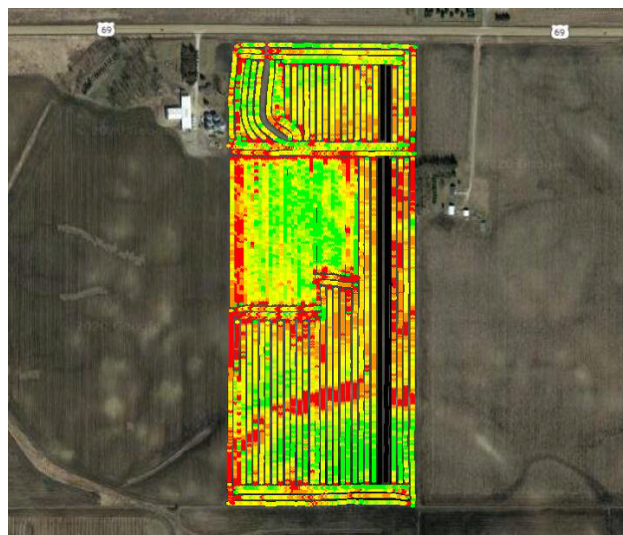


Untreated

Total Area: 3.90 ac

Yield (Dry) 66.40 bu/ac

Moisture 12.56 %



+ 5.77 bu

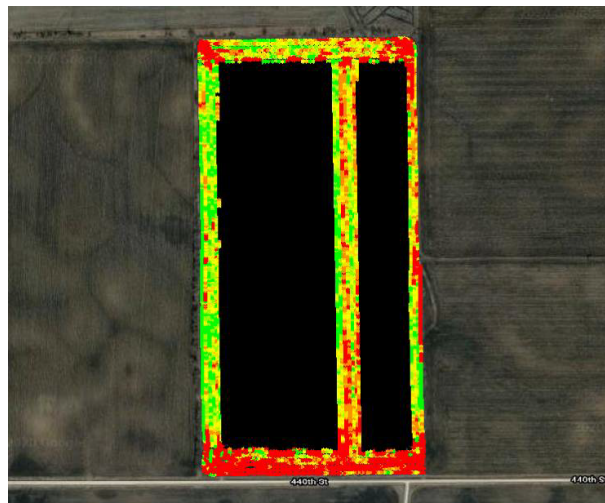


Balanced Plus

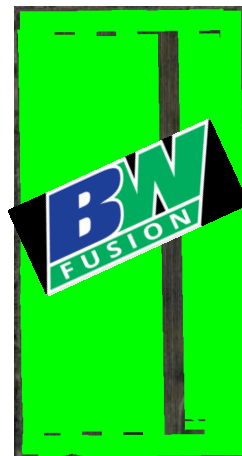
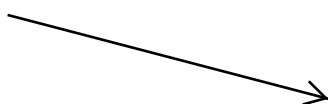
Total Area: 51.84 ac

Yield (Dry) 276.72 bu/ac

Moisture 18.99 %



Application Map

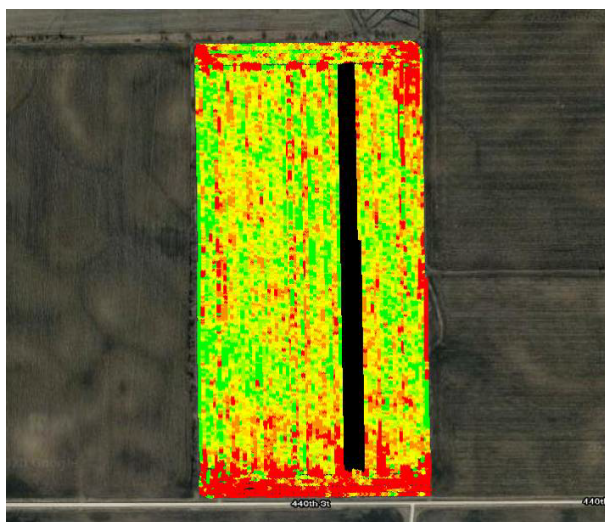


Untreated

Total Area: 5.943 ac

Yield (Dry) 270.56 bu/ac

Moisture 18.96 %



+ 6.16 bu



Stand Optimization



MICROBIAL TEAM TECHNOLOGY

How to Implement Microbial Health Program

Growing a productive crop is a 365 day process of healthy soil and plants. Our science-backed, farmer-proven microbial team technology is equipped to maximize the resources that lead to the greatest plant potential.

PHASE I: Residue Management

Fall: Meltdown 1 qt/a,
Environoc 501 1 pt /a

Spring: Meltdown 1 qt/a,
Environoc 501 1 pt /a

PHASE II: Planting

Environoc Seed Treatment
Environoc 401 In-Furrow 1 pt/a
BW - Balance 1 pt/a
BD - Sweet 1 pt/a
BD - Biocast Broadcast
pre/post planting 1 qt/a

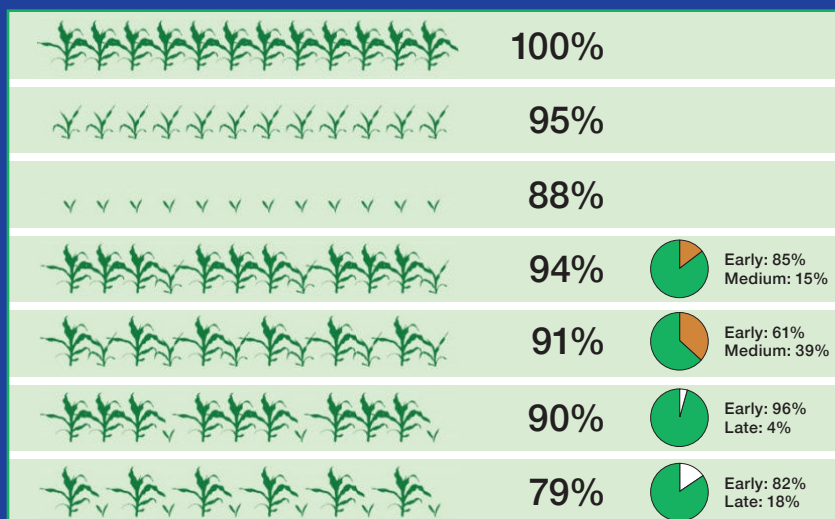
PHASE III: Foliar

BW - Balance 1 qt/a
SG Advance 2 qt/a
BD - Ntrust 48-64 oz/a
Respite Rx 4 oz/a
BD - Sweet 1 pt/a

Value to the Crop

- Improves biological diversity and overall soil health
- Better germination emergence: uniform fuel processing by minimizing plant to plant competition for sunlight
- Increased rate of cell division, plant growth and vigor
- More efficient utilization of invested fertility dollars
- Provides a "slow release" fertilizer effect via efficient cycling of crop residue
- Reduces carbon tie up of soil nitrogen and micronutrients
- Enhances overall plant health by decreasing rates of stalk rot
- Creates platform for greater kernel size, weight and nutrient density at harvest
- Sets the stage to analyze, test, and determine limiting factors in maximizing crop yield

What is the impact of uneven emergence?



Data from Carter, P.R., E.D. Nafziger, and J.G. Lauer, Uneven emergence in corn (IL and WI), North Central Regional Extension Publication No. 344

Stand Optimization

BIODYNE'S MICROBIAL TEAM TECHNOLOGY



Left Row: Treated
with Environoc 401

Right Row:
Untreated



Left Row: Treated
with Environoc 401

Right Row:
Untreated



Treated with
Environoc 401



Left Rows: Treated
with Environoc 401

Right Rows:
Untreated

Biodyne's Microbial Team Technology Capability

Over 200 Proprietary Non-Pathogenic, Non-GMO, and Naturally Occurring

Diazotrophic Microbes

Nitrogen Fixation from Free N in Air

Ammonifying Microbes

Convert Organic N to Ammonia Form

Phosphate Solubilizing Microbes

Makes Unavailable P Available

Many Degradation Abilities

Cellulose, Lignin, Chitin, Starch, Waxes, Oils

Microbial Surfactant Production

Free up More Nutrients in Soil/Rhizosphere

Vitamin/Hormone

Vitamin Production and Facilitate Hormone Release

Siderophore Production

"Iron Magnets"; More Iron Availability in the Soil

Petroleum Hydrocarbon Bioremediation

Oil, Diesel, Gas, Soil and Groundwater

Pesticide and Herbicide Bioremediation

Specialized Remediation Capabilities

Fats, Oils, Grease, Common Organics Degradation

Wastewater, Pond Treatment

Sulfur Oxidizing Capabilities

Enhance Sulfur Oxidation in the Soil and Increase Available Sulfate

Nodulating

Nitrogen Fixing Symbiotic Relationship Nodules on Soybeans

ENVIRONOC 401- PLANT BIOSTIMULANT

THE POWER OF BENEFICIAL MICROORGANISMS

With a diverse team of beneficial microorganisms present in extremely high counts (trillions per gallon): **ENVIRONOC 401** is a natural consortium of aerobic (oxygen loving) and facultative (can adapt in low or no oxygen conditions) beneficial bacteria. These microbes are not genetically modified, non-pathogenic, and 100% naturally occurring. This specialized "Team" of viable microbes manufacture enzymes (catalysts) that improve natural nitrogen stabilization and atmospheric nitrogen fixation, and are able to release (solubilize) phosphate which is within the soil but in an unavailable form. Various microbes in the blend produce root growth stimulants and form various amino acids / proteins designed to feed and communicate messages to plants and plant roots. The host of benefits derived from this natural biochemistry is very diverse! The goal, however, is very simple. It is to improve sustainability naturally and reduce the environmental impact associated with over applying N, P, and K. In addition, improving plant growth, productivity, and soil condition (tilth) are the direct by products of using ENVIRONOC 401. This Best In Class product represents some of the most up to date technology on the market today.

ENVIRONOC 401—RECOMMENDED USES

- ⇒ ENVIRONOC 401 can be used in Furrow with seeds at the rate of 16-32 ounces per acre. ENVIRONOC 401 can also be used as a pre plant incorporated or pre emergence soil spray at the rate of 32 ounces per acre.
- ⇒ ENVIRONOC 401 can be applied as a Foliar application at the rate of 16-32 ounces per acre.
- ⇒ ENVIRONOC 401 can be applied as a Premix with chemicals or fertilizers and is compatible with most agricultural products if mixed just in time.

ENVIRONOC 401—FAQ

- ⇒ Q: How can something so small in rate per acre do anything substantial like hundreds of pounds of fertilizer?
- ⇒ A: Ironically, ENVIRONOC 401 possesses microbes that make compounds called enzymes that Attack "tied up" forms of old fertilizer that are held as a result of over application for years and years. Some growers see increase in P levels with no applied P.
- ⇒ Q: Are these microbes genetically modified or engineered?
- ⇒ A: No, all of these microbes are naturally occurring, not genetically modified, and non pathogenic. This microbial consortium has been selected for their capabilities to enhance biological nutrient release and plant growth stimulation.
- ⇒ Q: Can the product be used in conjunction with fertilizer and chemicals?
- ⇒ A: Yes, ENVIRONOC 401 can be used in conjunction with fertilizers and pesticides. Although some fungicides may be hard on the fungal components in the mix, it can still be put together in furrow when planting.
- ⇒ Q: Can the product be used in all tillage systems?
- ⇒ A: Yes, all soils need help in all conditions. The product will act as an early to mid season inoculant for all soils.

**ENVIRONOC 401 Beneficial
Microorganisms Deliver:**

Nitrogen fixation

Root stimulation

Phosphate solubilization

Plant Growth Promotion

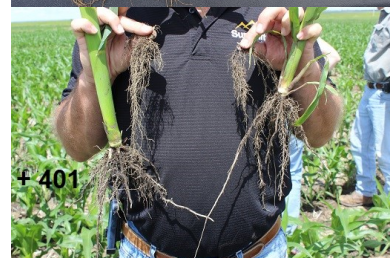
Nutrient uptake promotion

And many other Benefits

which promote a healthy

more tolerant and

productive plant!



Benefits Include:

- ◇ Improved nutrient release and uptake
- ◇ Improved natural chelation of soil nutrients
- ◇ Improved root mass and depth, stronger / longer stalks and stems, and improved leaf area index (leaf size)
- ◇ Increased Yields and Excellent Return on Investment

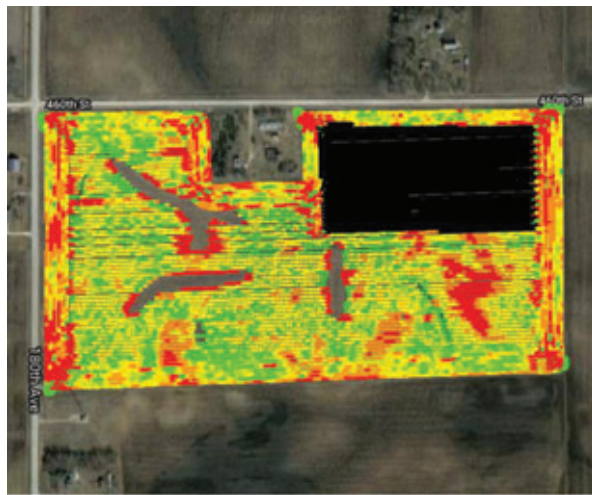


Biodyne 401

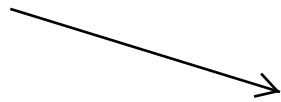
Total Area: 13.35 ac

Yield (Dry) 232.04 bu/ac

Moisture 15.26 %



Application Map

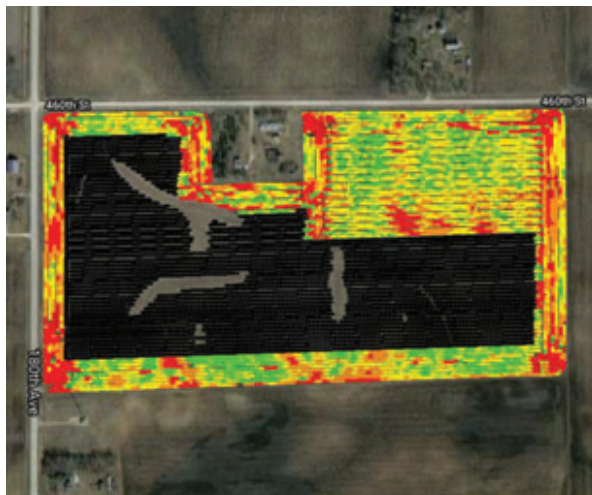


Untreated

Total Area: 36.31 ac

Yield (Dry) 228.53 bu/ac

Moisture 15.69 %



+ 3.51 bu

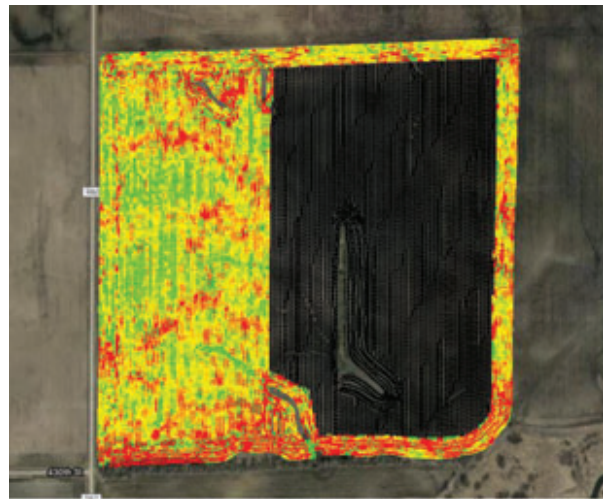


Biodyne 401

Total Area: 71.00 ac

Yield (Dry) 244.01 bu/ac

Moisture 16.15 %



Application Map

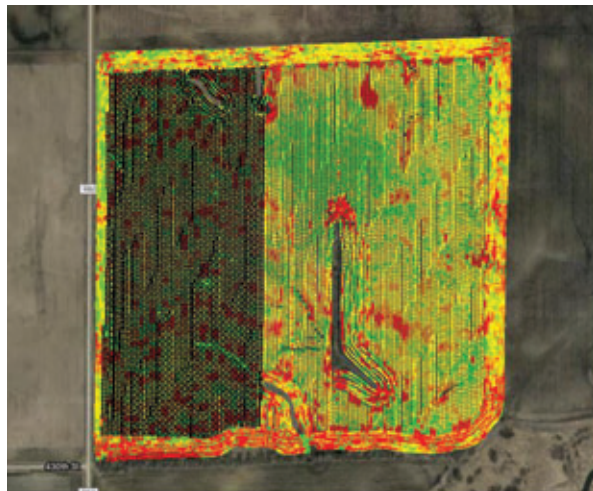


Untreated

Total Area: 52.92 ac

Yield (Dry) 239.62 bu/ac

Moisture 15.75 %



+ 4.39 bu

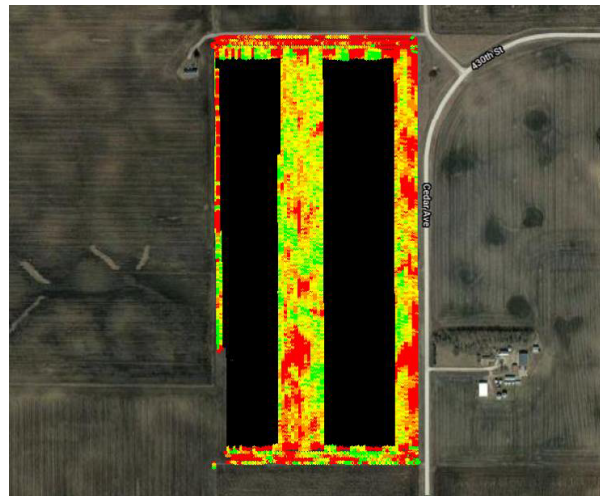


Biodyne 401

Total Area: 43.29 ac

Yield (Dry) 240.10 bu/ac

Moisture 16.31 %



Application Map

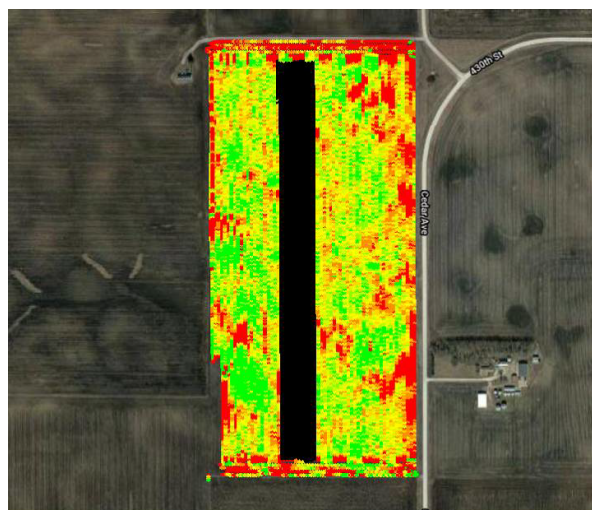


Untreated

Total Area: 12.36 ac

Yield (Dry) 230.82 bu/ac

Moisture 16.13 %



+ 9.28 bu





www.bw-fusion.com

BW-Advance

2-7-7 BW-Advance

Give your crop the extra energy and protection it needs to achieve top yield with BW-Advance foliar spray. BW-Advance is an exciting new foliar product that combines several technologies designed to both feed the plant and protect it simultaneously. With beneficial microbes, amino acids and sugars, this 2-7-7 N-P-K blend is designed to be a balanced macronutrient foliar feed and the specialized micronutrient complex gives enhanced plant health. Fortified with Manganese, Copper, Zinc, Boron and Molybdenum, diseases are held at bay for longer when these nutrients inside the plant complete their designed function of enhancing plant immune systems.



With BW-Advance you will have sufficient levels of nutrients and carbon sources to secure better plant health, which is critical in attaining high yields.

Row Crops

2-4 Quarts 5-15 gallon water per acre foliar spray on Corn, Soybeans, Alfalfa, etc.

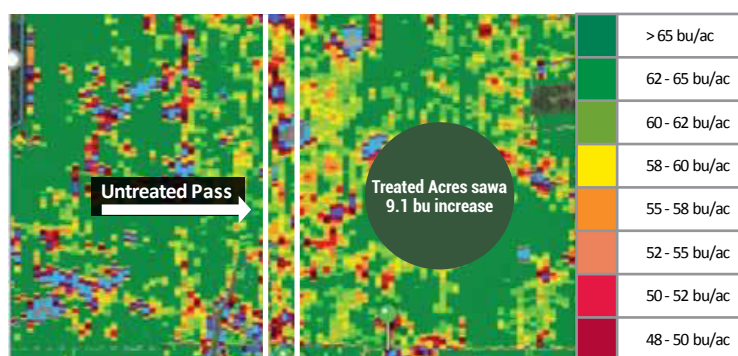
Corn: apply 2-4 quarts/acre prior to V6, 2 quarts prior to tassel/pollination

Soybeans: apply 2 quarts/acre at early flowering and 2 quarts/acre at the late flowering.

APPLICATION RATE

Foliar Application

1/2 gallon per acre



"We saw a significant yield increase when we applied BW-Advance as part of our foliar program on soybeans. You could visually see a difference in the overall plant health."

Indiana Grower



712-288-6210
55560 150th Avenue
Fonda, IA 50540



www.bw-fusion.com

BW-Advance

Detailed Component List

- Specialized NPK base 2-7-7
- Enhanced-chelation micronutrients
- Available Calcium
- Sugar compounds
- Crop Protectant components
- Crop Stress Reduction
- Beneficial Bacterial Microorganisms
- Organic Acid CropCrop&Microbe Food Sources
- Plant Reproductive Biostimulant component
- Kelp Extracts

Component Data

BW-Advance utilizes a proprietary chelated micronutrient blend. Below are laboratory results of tissue analysis after foliar application compared with standard EDTA chelation and no treatment. BW-Advance also contains a unique combination of plant biostimulant components that increase plant growth and yield potential, and multiple crop food sources helping the crop meet full potential.

APPLICATION RATE

Foliar Application

1/2 gallon per acre

Field Data

	Untreated	Treated	Bu/A Increase
2017 -IN Soybean	56.6	65.7	+9.1
2014-2016 -PH Soybean @V3	55.7	62.1	+6.4
2015 -SD Soybean @R1	54	63	+9
2014-2016 -OH Corn @V3	208.2	217.1	+8.9
2014 -IL Corn @V4	163.1	170.2	+7.1
2014 -IL Corn @V4 & VT	163.1	193.1	+30

	% Increase over Untreated	% Increase over EDTA
Zinc	+16%	+6.8%
Manganese	+230%	+48%
Copper	+300%	-1.5%

	% Increase over Untreated	% Increase over EDTA
2018 - ND Field Trial	+9	+16.0%
2018 - IL Field Trial	+7.7	+9.0%
2018 - IL Field Trial Pod Count	+25 beans per plant average	+19.4%



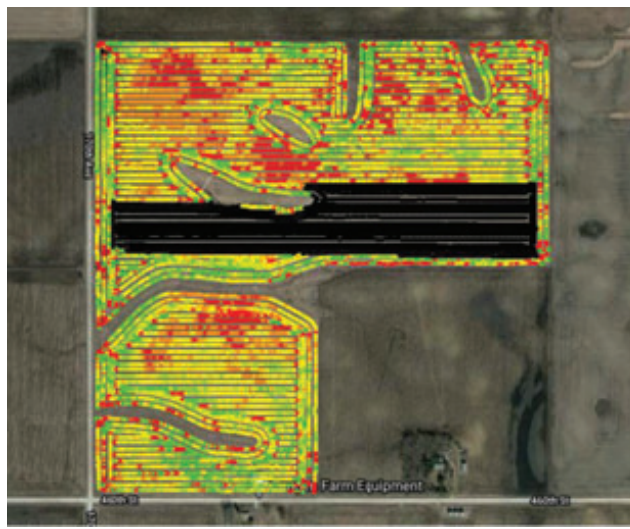
712-288-6210
55560 150th Avenue
Fonda, IA 50540

BW Advanced

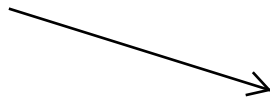
Total Area: 19.39 ac

Yield (Dry) 66.70 bu/ac

Moisture 11.95 %



Application Map

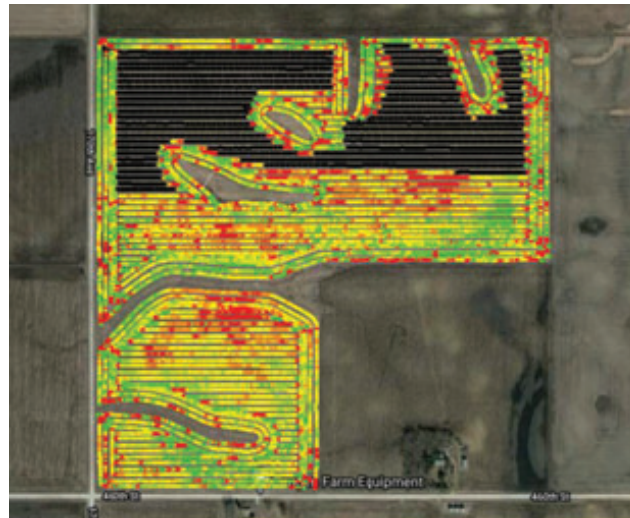


Untreated

Total Area: 27.66 ac

Yield (Dry) 63.32 bu/ac

Moisture 11.33 %



+ 3.38 bu



BW Advanced

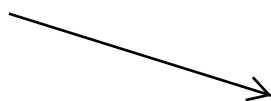
Total Area: 12.17 ac

Yield (Dry) 70.46 bu/ac

Moisture 12.94 %



Application Map



Untreated

Total Area: 14.68 ac

Yield (Dry) 68.15 bu/ac

Moisture 12.93 %



+ 2.31 bu

