



2020 Product and Data Guide
Microbial Team Technology
#BetterBiology

***Bringing the Fence Row
Back to the Farm Row***

Who is Biodyne USA?

Family owned and operated, Biodyne USA is an environmental biotechnology company focused on harnessing the power of naturally occurring, beneficial micro organisms for use in a variety of agricultural and environmental applications.

At Biodyne USA, we leverage close to 30 years of R&D to deliver innovative biological products. Our products are made in the USA and consist of 100% natural, highly diverse, proprietary microbial teams with proven beneficial capabilities providing economical solutions to your agricultural production system and are used on millions of acres every year!

What is the Biodyne difference? Our Approach.



At **Biodyne USA** we understand the fundamental relationship between the soil and the plant. The soil is alive and is designed to feed the plant, in turn the plant is alive and is designed to feed the soil. Although this relationship is complex the simple truth is that this fundamental relationship is made possible through the activities of beneficial microorganisms. By establishing and maintaining a diverse population of beneficial microorganisms, the soil and plant will efficiently work together to maximize the plants growth and productivity. Without the presence and maintenance of a robust and diverse population of beneficial microorganisms yield potential is lost. This understanding is the Biodyne difference!

A simple yet profoundly impactful way to manage your production systems.



By leveraging the power of beneficial microorganisms you can promote soil health and productivity through efficient nutrient management, uniform emergence, stand optimization, enhanced plant vigor and effective nutrient cycling. Your soil is alive 365 days a year and Biodyne USA gives you the tools to ensure it is healthy and productive each and every day!

Biodyne's Microbial Team Technology- Capabilities

Biodyne's Proprietary Microbial Production Process is 100% controlled in-house and is the result of over 30 years of Research and Development. This is very unique in the industry and part of our Microbial Team Technology philosophy and implementation program. #BetterBiology

Diazotrophic Microbes - Nitrogen Fixation from free N in Atmosphere

Ammonifying Microbes - convert organic N to ammonia form

Phosphate Solubilizing Microbes - makes unavailable P available to plant / rhizosphere

Many Degradation Abilities - Cellulose, Lignin, Chitin, Starch, Waxes, Oils

Microbial Surfactant Production - free up more nutrients in soil / rhizosphere

Vitamin & Excretory products - vitamins & molecules released from microbe cells into soil / rhizosphere

Nodulating - nitrogen fixing symbiotic relationship- nodules on soybeans

Siderophore Production - "Iron Magnets" more Iron availability in the soil / rhizosphere

Petroleum Hydrocarbon Bioremediation - oil, diesel, gas, Soil and Groundwater

Pesticide and Herbicide Bioremediation - Specialized remediation capabilities

Fats, Oils, Grease, Common Organics Degradation - Wastewater, Pond Treatments

Sulfur Oxidizing Capabilities - enhance sulfur oxidation in the soil and increase available sulfate

** All organisms are naturally occurring, non-pathogenic, and not genetically modified

DEPLOY

innovative biological technology

UNLEASH

beneficial microorganisms

RECLAIM

your soil and investment

ENVIRONOC **401** MICROBIAL PLANT BIOSTIMULANT



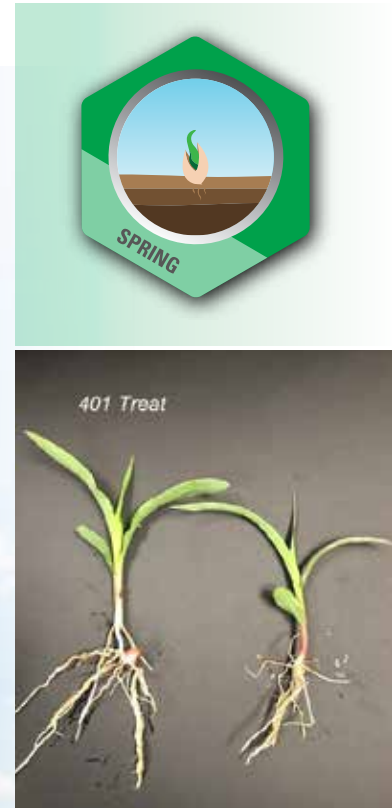
APPLICATION RATE

In-Furrow or 2x2 Application | 16 oz per acre



With a diverse team of beneficial microorganisms present in high concentration levels, **ENVIRONOC 401 is a natural way to promote the fundamental relationship between the soil and plant.** The microbes that make up this robust team are not genetically modified, non-pathogenic, and 100% naturally occurring. 401 with its diverse population of beneficial microorganisms ensures the soil and plant are able to efficiently work together to maximize the plant's growth and productivity. **401 allows you to:**

- Establish larger and more diverse populations of beneficial microbes in your fields
- Optimize the rhizosphere with a more robust and efficient plant and microbe relationship to improve growing conditions
- Improve stand quality and uniformity
- Increase root, shoot and leaf mass
- Improve nutrient release and nutrient efficiency through microbial activity, enhancing overall soil productivity
- Increase plant vigor, health and increase Overall Yield Potential



Soil Feeding the Plant

Plant Feeding the Soil



NITROGEN FIXATION

Several microbes are able to convert freely available atmospheric nitrogen into a plant available form.

NITROGEN MINERALIZATION

Several microbes are able to convert soil born nitrogen into plant available form. Mining the N currently unavailable within the soil.

PHOSPHORUS SOLUBILIZATION

Several microbes have the ability to solubilize otherwise insoluble phosphorus and make it available to the plants.

SURFACTANT PRODUCTION

Several microbes are able to reduce soil surface tension to free up more organic and inorganic nutrients.

PLANT GROWTH PROMOTION

Several microbes have the ability to release vitamins and excretory products that stimulate growth and other developmental activities.

MICRONUTRIENT AVAILABILITY

Several microbes have the ability to enhance micronutrient availability including siderophore production to help attract iron to the plant.

DEGRADATION CAPABILITIES

Several microbes have the ability to degrade hydrocarbons, cellulose, lignin, chitin, starch and other compounds present in the soil improving soil health.

Independent Study Group Corn Trial

SOUTH CENTRAL IOWA

Independent Study Group of Environoc 401 Yield Responses and Soil Health Analysis

YIELD RESPONSES

GROWER	STARTER ONLY	ENVIRONOC 401 (16 OZ) + STARTER	RESPONSE WITH 401
Montgomery County	250	255.6	+5.6
Guthrie County	181.3	196.2	+14.9
Webster County	208.4	216.1	+7.7
Monroe County	265	265	0
AVERAGE	226.18	233.23	+7.05

HANEY SOIL SAMPLING DATA

All (4) Growers participated in 401 Treated vs. Untreated trials

■ ENVIRONOC 401 TREATED ■ UNTREATED

POTASSIUM - +17%

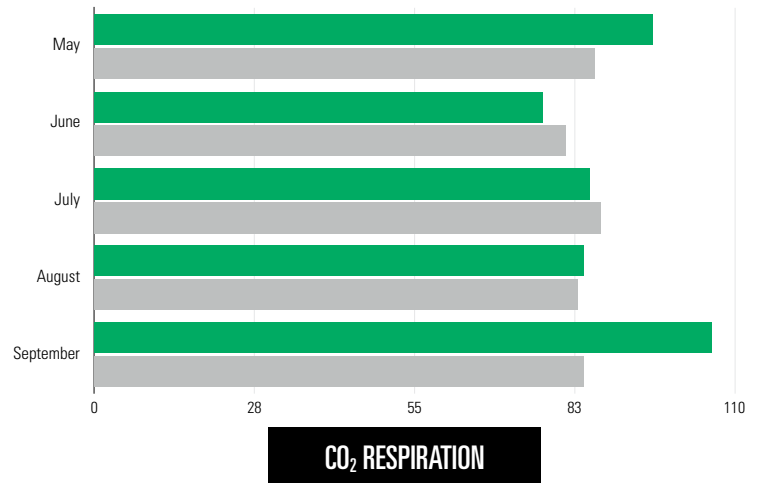
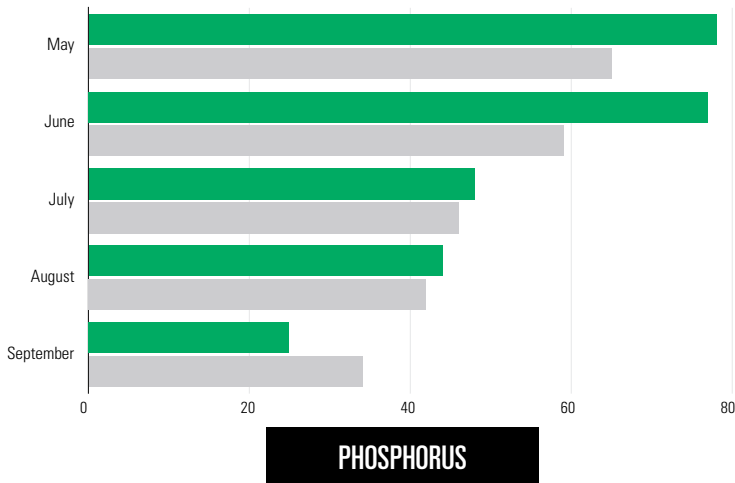
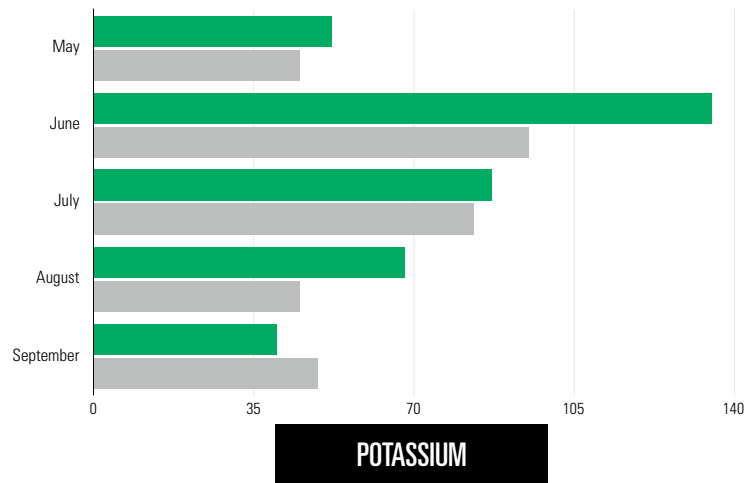
12 lbs. K or 14.52 lbs K20 more available on average per month.

PHOSPHORUS - +9%

6 lbs. P or 13.75 lbs. P205 more available on average per month.

CO₂ RESPIRATION - +3%

Improved Carbon cycling promoting photosynthesis.

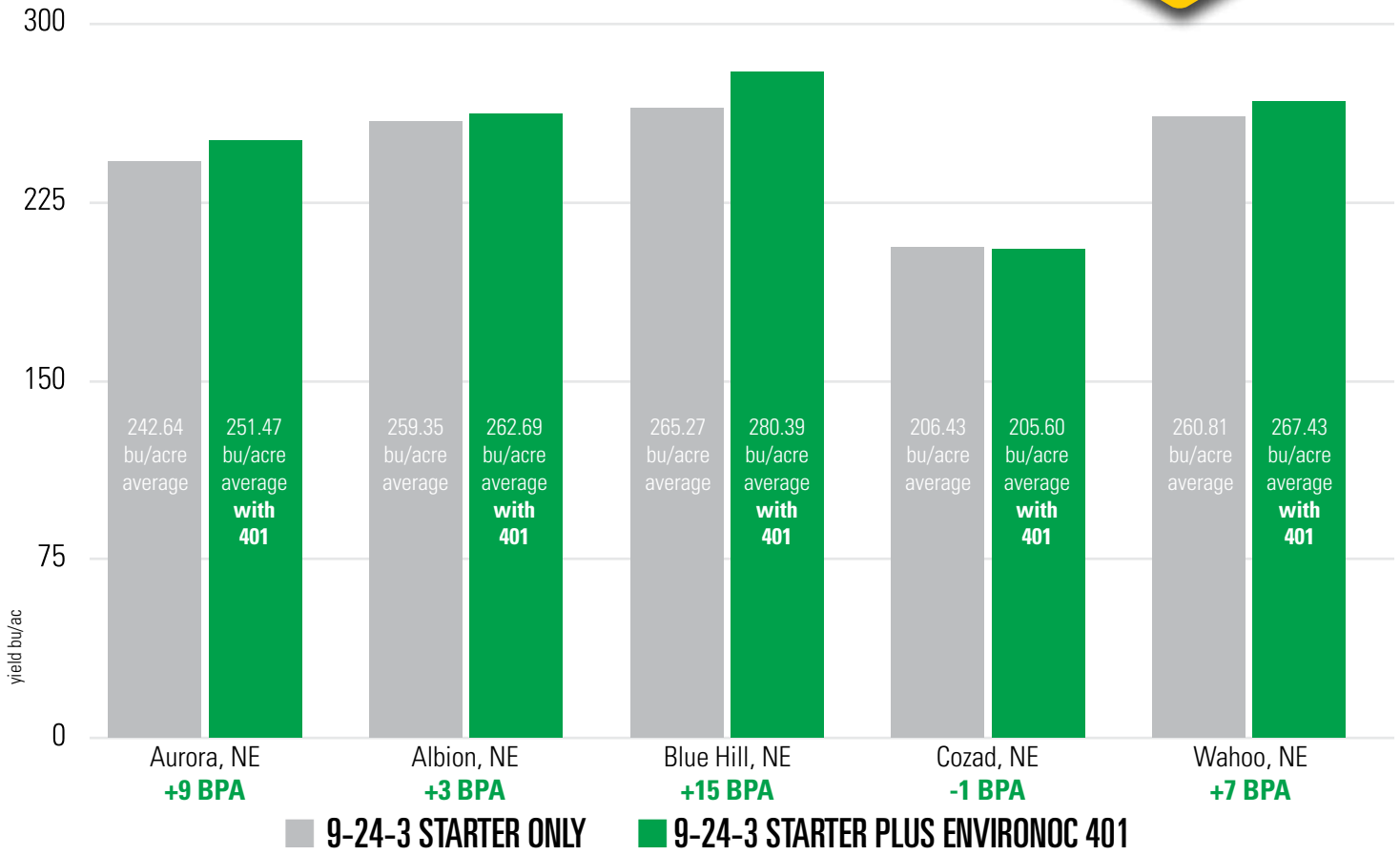


Real Farm Research Corn Study

NEBRASKA - 20 REPS, 5 SITES

The results of 20 replications over 5 sites
Environoc 401 delivered an average of +7 BPA

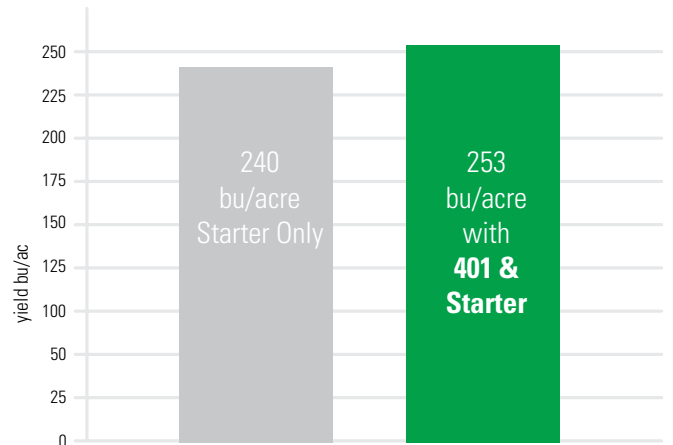
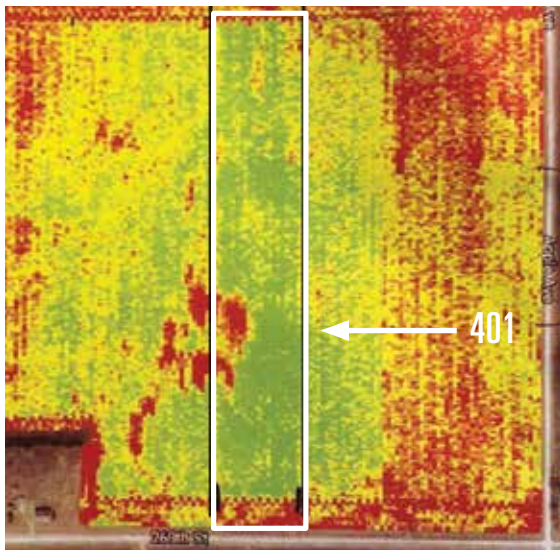
Environoc 401 applied at 16 oz. per acre in-furrow along with 9-24-3 starter at 5 gal. per acre compared to 9-24-3 starter applied alone. 20 replications within (5) Nebraska locations.



Environoc 401 Yield Corn Trial

CERRO GORDO COUNTY, IA

Environoc 401 applied at 16 oz. per acre in-furrow with starter in middle section of a 145 acre field. Both end sections treated with starter only.

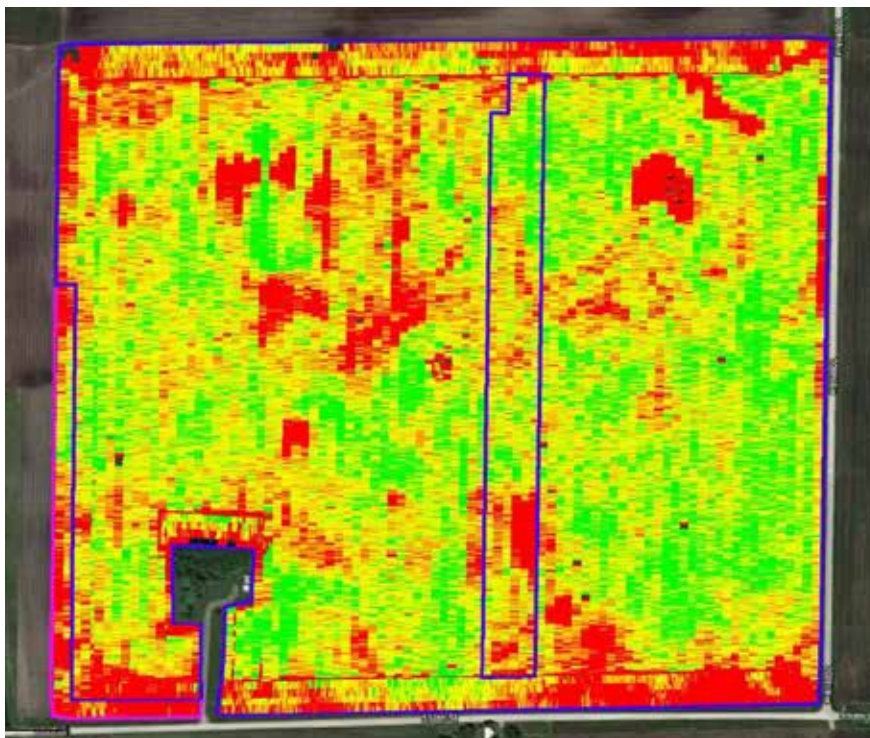
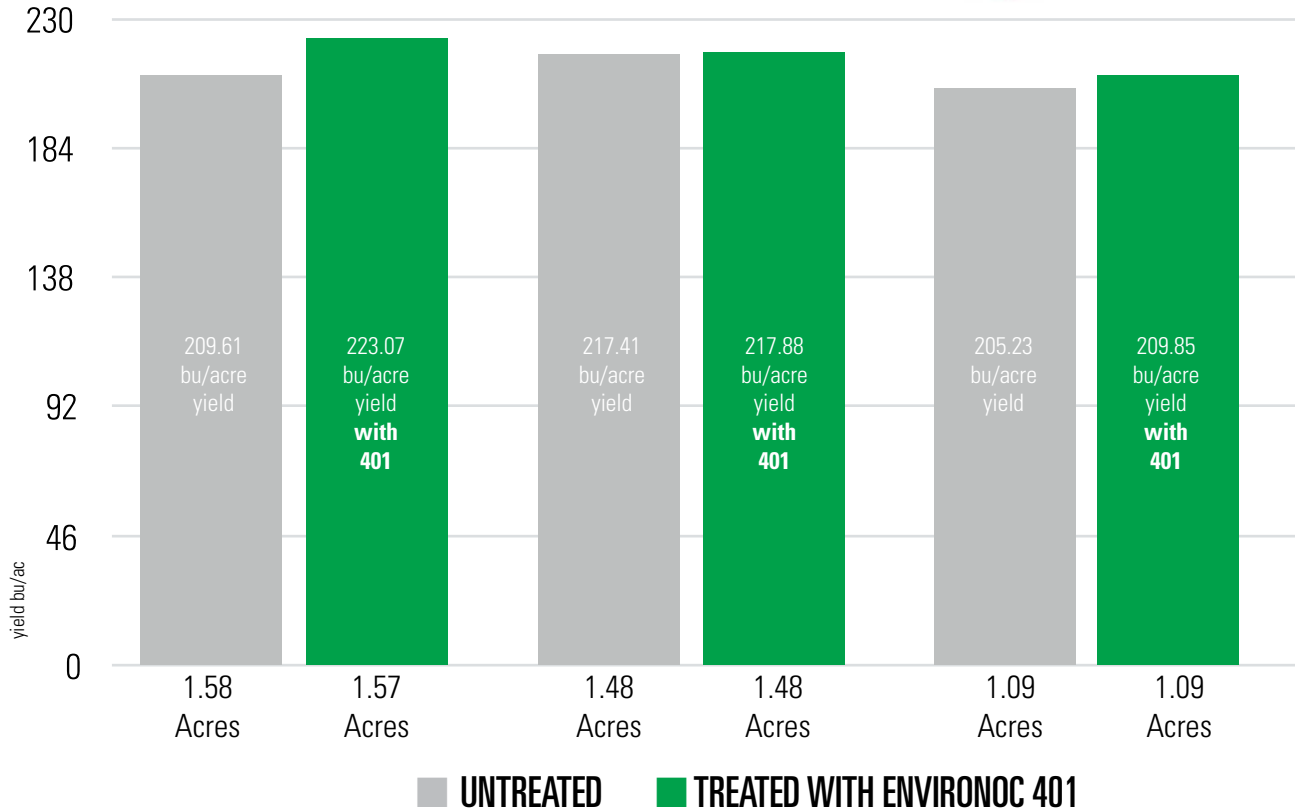


TRIAL FINDINGS:
+13 BPA WITH ENVIRONOC 401

Premier Crop Systems Environoc 401 Learning Block Trial

POCAHONTAS COUNTY, IOWA

4.13 acres treated with Environoc 401 versus 4.14 acres untreated



Yield (Dry) Bu/Acre

- Above 239 bu/acre
- 230 - 239 bu/acre
- 222 - 230 bu/acre
- 215 - 222 bu/acre
- 206 - 215 bu/acre
- 193 - 206 bu/acre
- Below 193 bu/acre

TRIAL FINDINGS:

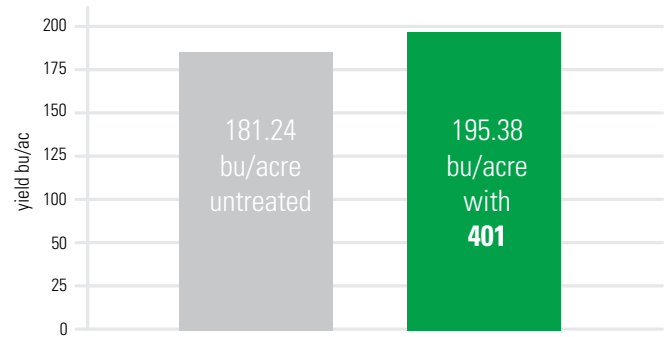
+6.5 BPA WITH ENVIRONOC 401

Environoc 401 Corn Trial

HAMILTON COUNTY, INDIANA

This trial was run by a precision grower with a mature fertility program delivering consistent yields. Trial was conducted over 80 acres - 40 acres untreated and 40 acres treated with Environoc 401

PRODUCT	AREA HARVESTED	AVG. MOISTURE	WEIGHT (WET)	AVG. YIELD (DRY)
6-24-6 w/ 1 qt. Corn Mix Micronutrients	37.91 acres	18.83%	400,559 lbs.	181.24 bu
6-24-6 w/ 1 qt. Corn Mix Micronutrients + Environoc 401	37.62 acres	19.77%	433,502 lbs.	195.38 bu.



TRIAL FINDINGS:
+14.14 BPA
WITH ENVIRONOC 401





Kenneth Diehl Demonstration Plots - IL

The demonstration Plots has been in operation since 1951. The Shelbyville FFA, Ag Education Council, Ag Plot Advisory Council, and Shelbyville High School Ag Department are cooperatively operating the Shelbyville Agronomy Farm. A committee of agricultural and school leaders guides the project and plans the annual demonstration plots. Tours are held each year during August. All yields are corrected to 15.5 % moisture.

Environoc 401 In-Furrow Study - Field 7A Product: Soybeans

Evaluating E401 in a **REDUCED FERTILIZER SETTING**

Herbicide Program:

Pre-emergence: Sequence - 3 1/2 Pints/Acre - \$25.31; Post-emergence: Touchdown - \$12.36

Total Herbicide Cost: \$37.67

Treatment North 1/2:

18-46-0 - 100 lbs per acre and 0-0-60 - 100 lbs per acre at a cost of **\$52.21 per acre.**

Treatment South 1/2:

Only Environoc 401 - In-furrow application - 1 pint to an acre plus water to equal 4 gallons at a cost of **\$8.00 per acre.**

Variety: Pioneer P34T07R2

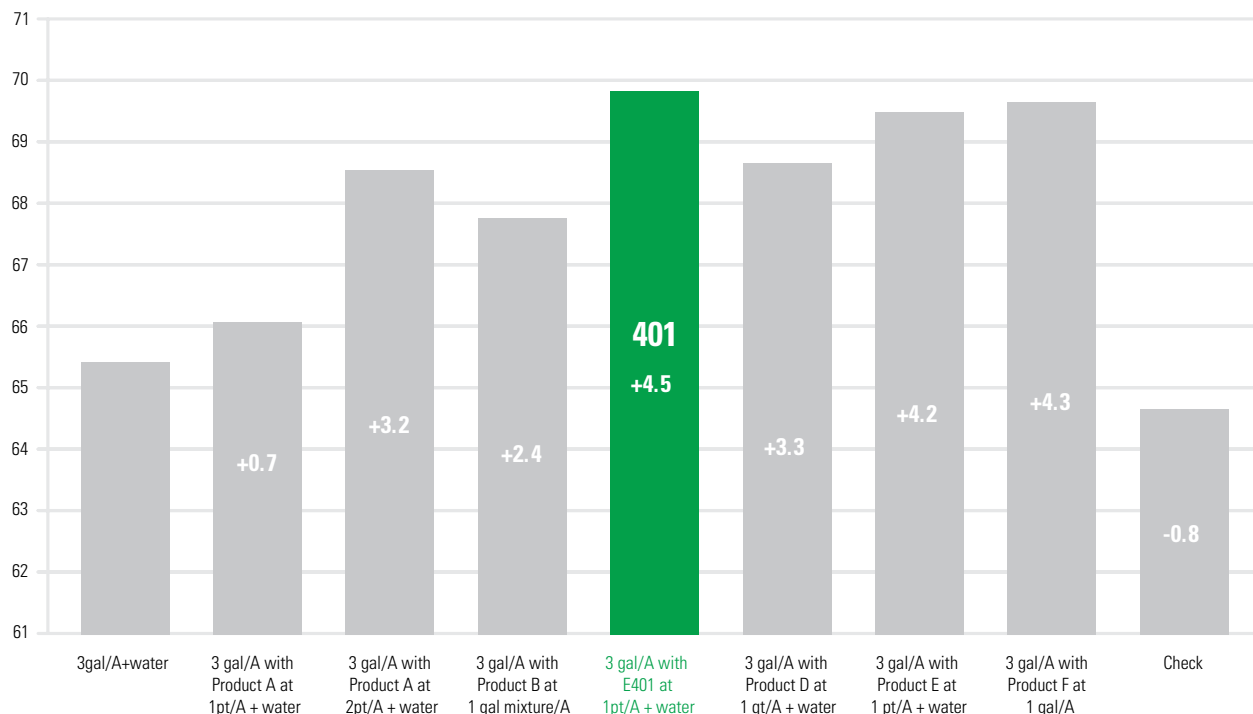
Seeding Rate: 150k seeds/acre

TREATMENT	YIELD	% MOISTURE	INCOME	EXPENSE	PROFIT	Profit Difference
NORTH 1/2	60.1	14.3%	\$504.84	\$233.06	\$271.78	--
SOUTH 1/2	62.7	13.5%	\$526.68	\$188.85	\$337.83	+\$66.05

STUDY FINDINGS: **+2.6 BPA and \$66.05 PROFIT WITH ENVIRONOC 401**

Independent Research Firm Soybean Trial OHIO

3 Gal/ A 6-24-6 Starter alone or with **7 different microbial products.** Screening on soybeans. 4 plots each - pooled analysis.





APPLICATION RATE

Broadcast Application	32 oz per acre
Side Band	32 oz per acre

BD-Biocast (1-0-0) is a specifically designed biostimulant technology containing Biodyne's proprietary, best-in-class Environoc 401 Microbial Team Technology, paired with an Organic Acid profile along with an Amino Acid Profile derived from plant Proteins Hydrolysates. This product is specifically designed for producers who DO NOT have in-furrow capability on their planter.

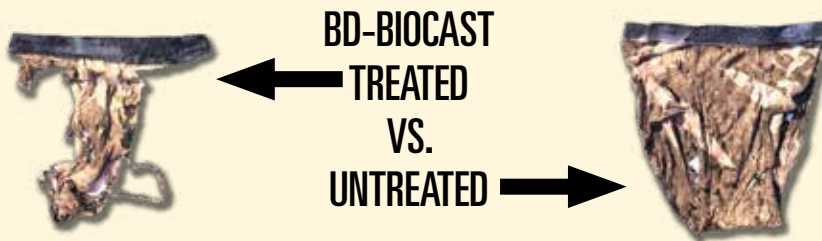
BD-Biocast can increase stand emergence and uniformity, enhance crop vigor, increase root mass, facilitate better nutrient uptake, and reduce plant stress from environmental factors. BD-Biocast provides biological diversity to any field and gives increased yield potential and ROI opportunity.



- Designed for those producers who do not have in-furrow capability.
- Provides Biological Diversity to any field
- Soil penetrating technologies to provide sustained biostimulant capabilities
- Increases soil health
- Improves Yield Potential
- Provides carbon that feeds plant and soil microbial population
- Provides organic acids that help chelate micronutrient nutrition in the root zone

"SOIL YOUR UNDIEST" CHALLENGE

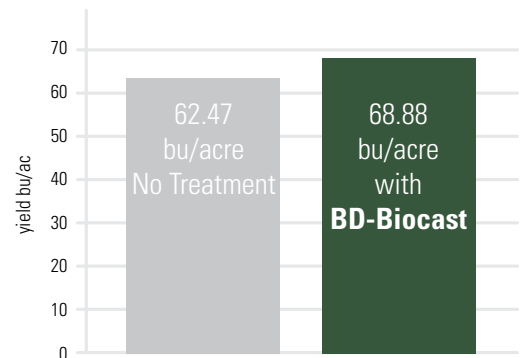
Two pairs of 100% cotton briefs were buried in a field with different treatment practices. When dug up, the pair that was treated in an area using BD-Biocast showed to be more broken down compared to the pair in an untreated area. Evidence of the more soil microbes you have, the better your soil will perform.



Independent Study Group Soybean Trial
NORTHERN IOWA

BD-Biocast applied broadcast at 32 oz. per acre across two sites (2 acres total).

	TOTAL AREA	AVERAGE YIELD BU/ACRE	MOISTURE
Non Treat	1.209 acres	62.47	13.42%
BD-Biocast	0.864 acres	68.88	13.62%



TRIAL FINDINGS: +6.41 BPA WITH BD-BIOCAST

ON FARM Trial Series: Nelson Farms Trial JACKSON, NEBRASKA

BD-Biocast is applied to corn with pre-emerge pass immediately after planting while applying 32% and herbicide.



RED AREA - WITH BD-BIOCAST
BLANK AREA - WITHOUT

YIELD MAP
OUTLINED AREA UNTREATED

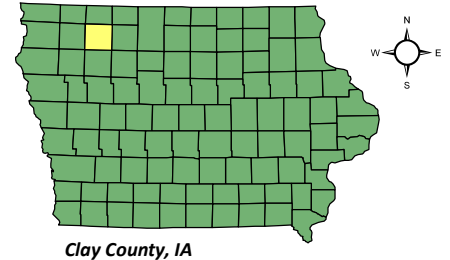


TRIAL FINDINGS: +12 BU RESPONSE WITH BD-BIOCAST

Iowa Soybean Association Trial

CLAY COUNTY, IOWA (4 REPLICATIONS)

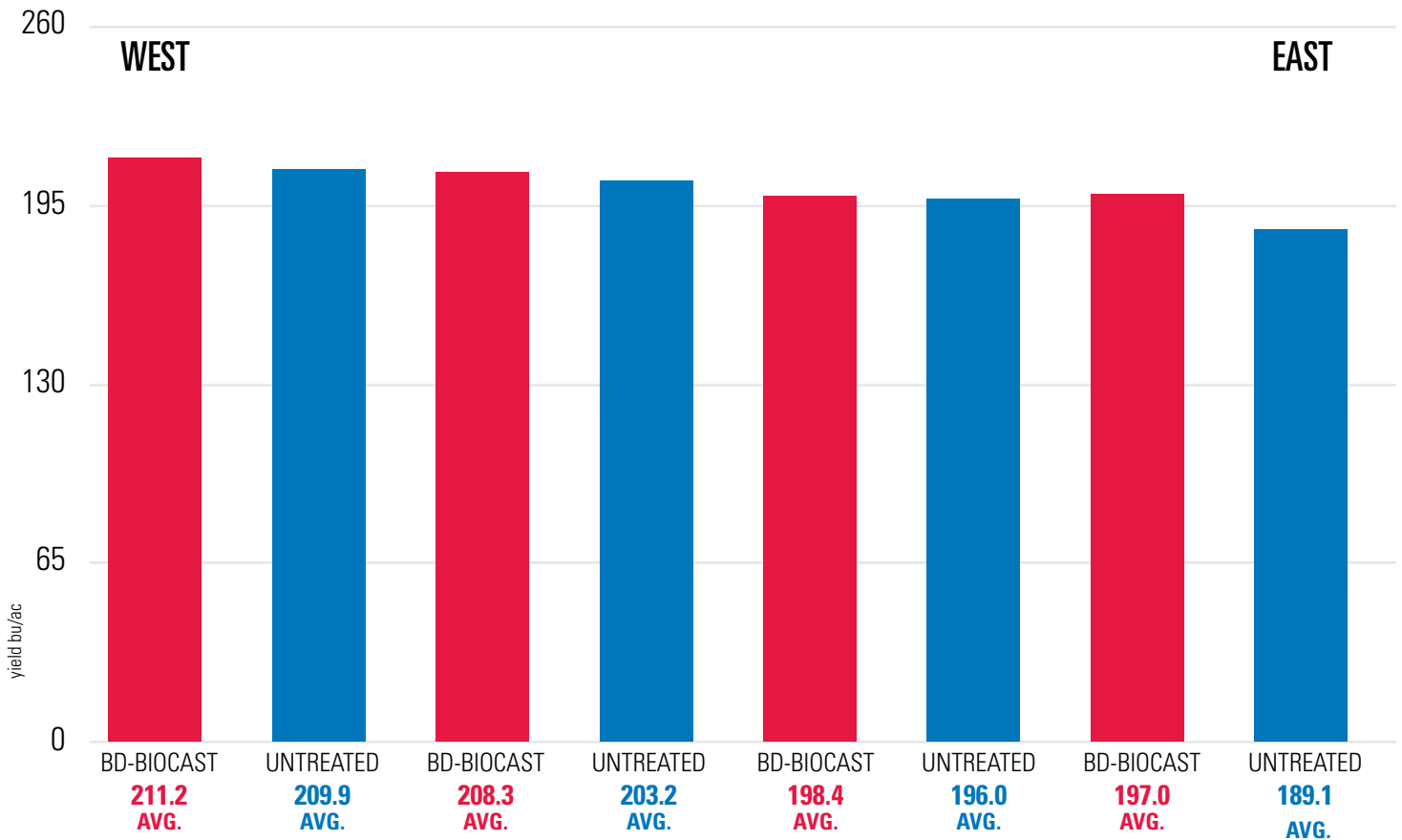
This is a Crop Management Trial comparing Biodyne BD-Biocast at 32 oz/acre vs. Untreated on a corn following soybeans rotation.



■ TREATED WITH BD-BIOCAST
■ UNTREATED

	BD-BIOCAST	UNTREATED	YIELD DIFFERENCE
Yield Average for Individual Treatments	203.7 bu/acre	199.6 bu/acre	4.1 bu/acre

TRIAL FINDINGS:
+4.1 BPA WITH BD-BIOCAST





APPLICATION RATE

Seed Treatment

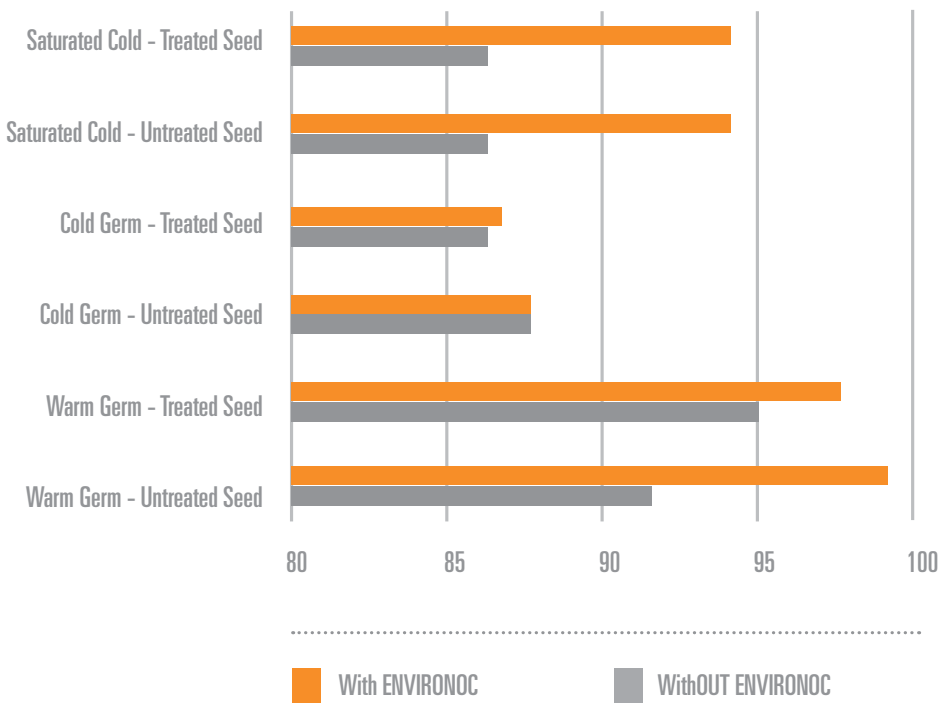
1.5 - 2 oz per 50 lb of seed

ENVIRONOC Seed Treatment is a breakthrough technology delivering a 100% natural viable biological team of beneficial microbes, promoting a quick and sustained germination process. After germination this microbial team plus organic acid continues to provide a host of benefits to the growing plant by enhancing the fundamental relationship between the soil and the plant. Biochemical signals (enzymes) are given off by this all-star microbial team communicating with the plant, invoking a more robust root mass and vigorous plant, helping to maintain its strength and endurance.

- Enhance germination promote emergence and stand optimization
- Optimize the rhizosphere, a more robust and efficient plant and microbe relationship promoting a "forgiveness factor" for growing conditions



ENVIRONOC SEED TREATMENT: ICIA GERMINATION TEST



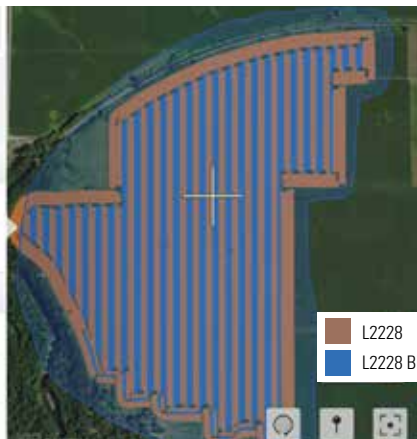
The results from the tests show enhanced germination with the use of ENVIRONOC Seed Treatment (detailed below). Tests were performed on both Treated Soybean Seeds (fungicide and inoculant) and Untreated "naked" Soybean Seeds. Not only did seeds treated with ENVIRONOC show strong germination in ideal conditions (Warm Germination Test) but particularly seeds treated with ENVIRONOC Seed Treatment showed significantly better germination in cold/wet conditions (Cold Germination and Saturated Cold Test) with stronger roots.



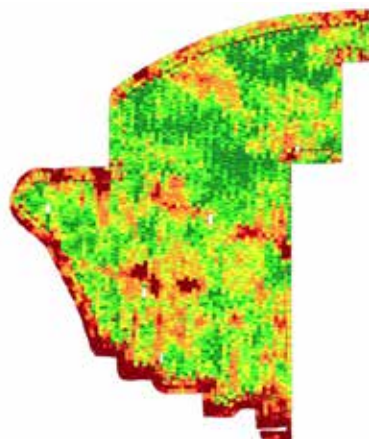
Microbe capabilities include: nutrient release enhancement, surfactant production, vitamin production, degradation capabilities, vitamin production, and siderophore production, to name a few.

Seed Treatment Soybean Trial IOWA

Environoc Seed Treatment applied to 24 rows of soybeans (70 acres) at beginning of season with remaining rows left untreated (100 acres).

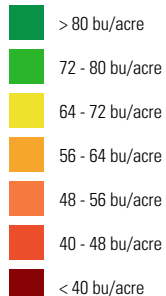


Soybeans Planted May

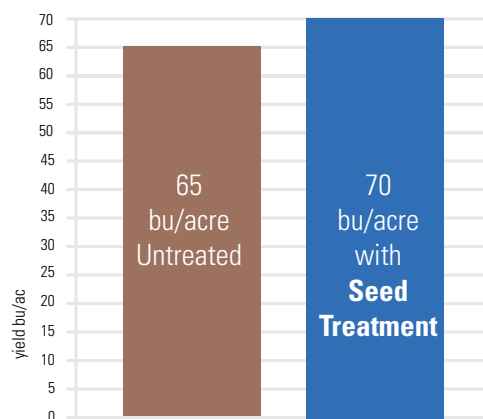


Soybeans Harvested October

Yield Bu/Acre



	FIELD	% MOISTURE	YIELD
L2228 Bio (Treated)	69.2 acres	10.1%	70 BPA
L2228 (Untreated)	99.9 acres	10.1%	65 BPA

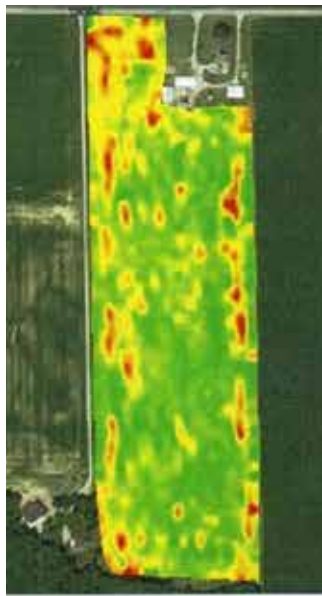


TRIAL FINDINGS:

+5 BPA WITH ENVIRONOC SEED TREATMENT

Seed Treatment Soybean Trial HUNTINGTON, INDIANA

Yield by management zones field level management zone detail crop.



	FIELD	% MOISTURE	AVG. YIELD
Untreated	20.30 acres	12.09%	56.07 BPA
Treated	11.33 acres	13.12%	60.28 BPA

TRIAL FINDINGS:

+4.21 BPA WITH ENVIRONOC SEED TREATMENT

Results of Bodyne Microbial Team Technology on Various Crop Types

PLANT TYPE	VARIETY	ATTRIBUTE MEASURED	% DIFFERENCE	DURATION	REPETITIONS
Beans, Garden	Top Notch Golden Wax (Bush)	Harvestable Bean Mass	39%	8 weeks	3
Beans, Garden	Contender (Bush)	Harvestable Bean Mass	19%	8 weeks	3
Beans, Garden	Contender (Bush)	# of Beans	10%	8 weeks	2
Carrot	Danvers #126	Leaf Mass	59%	11 weeks	2
Carrot	Danvers #126	Carrot Mass	45%	11 weeks	2
Celery	Tall Utah, #5270R, Improved	Plant Mass	7%	22 weeks	2
Cucumber	Cross Country, Hybrid	Cucumber Mass	6%	10 weeks	5
Cucumber	Cross Country, Hybrid	Plant Height	8%	4 weeks	5
Cucumber	Spacemaster (Bush-type)	Plant Height	9%	7 weeks	2
Lettuce	Bibb (or Limestone)	Plant Mass	28%	8 weeks	3
Marigold	Dwarf Bolero	Plant Height	8%	7 weeks	2
Pak Choi	Bonsai Hybrid	Plant Mass	16%	6 weeks	3
Peas	Sugar Snap (Edible Pod)	Plant Height	21%	2-5 weeks	2
Swiss Chard	Large Ribbed Dk. Green	Plant Mass	38%	12 weeks	2
Snow Pea	Taichung TC 11	Plant Height	7%	2-4 weeks	2
Tomato	Early Girl Hybrid	Plant Height	10%	4 weeks	2
Tomato	Juliet Hybrid	Plant Height	6%	5 weeks	3
Zinnia	Giant, Violet Queen	Flowers 10cm+	28%	8 weeks	3
Zinnia	Giant, Violet Queen	Flower Diameter Per Plant	7%	8 weeks	3
Zinnia	Giant, Violet Queen	# of Flowers Per Plant	10%	8 weeks	3
Zinnia	Envy	Flower Diameter Per Plant	6%	8 weeks	3
Basil	Siam Queen	Height	7%	5 weeks	--
Basil	Sweet	Height	8%	6 weeks	--
Bean	Tendergreen	# of Beans	21%	8 weeks	--
Bean	Tendergreen	Total Harvestable Mass	25%	8 weeks	--
Chinese Cabbage	Michihli	Plant Mass	5%	8 weeks	--
Collards	Georgia Southern	Plant Mass	6%	10 weeks	--
Cucumber	National Pickling	Height	7%	3 weeks	--
Cucumber	National Pickling	# of Cucumbers	26%	8 weeks	--
Cucumber	National Pickling	Total Harvestable Mass	7%	8 weeks	--
India Mustard	Florida Broad Leaf	Plant Mass	16%	6 weeks	--
Kale	Dwarf Blue	Plant Mass	5%	8 weeks	--
Lettuce	Bibb	Plant Mass	22%	6 weeks	--
Swiss Chard	Ruby	Plant Mass	27%	10 weeks	--
Tomato	Jet Star	Height	1%	5 weeks	--
Tomato	Juliet	Height	7%	5 weeks	--
Tomato	Juliet	Total Harvestable Mass	3%	22 weeks	--
Tomato	Juliet	# of Tomatoes	2%	22 weeks	--
Zinnia	Giant Violet Queen	Height	12%	9 weeks	--
Zinnia	Giant Violet Queen	Total Flowers per Plant	38%	9 weeks	--
Beet	Bulls Blood, Dark Red	Root Mass	36%	10 weeks	--
Beet	Bulls Blood, Dark Red	Leaf Mass	13%	10 weeks	--



APPLICATION RATE

Broadcast Application

32 oz per acre
(Can be added to Fall/Spring Burndown and/or Nitrogen program)



APPLICATION RATE

Broadcast Application

16 oz per acre
(Can be added to Fall/Spring Burndown and/or Nitrogen program)



IMPROVE THE BIOLOGICAL DEGRADATION OF CROP RESIDUE



Crop residue. Stubble. Waste. The leftovers from last season’s harvest could be considered a real nuisance. From increased fertilizer use to tire damage and fuel consumption, undigested residue is a physical tie up of your investment dollars. Recycle your nutrition and turn residue into a valuable resource for next years crop.

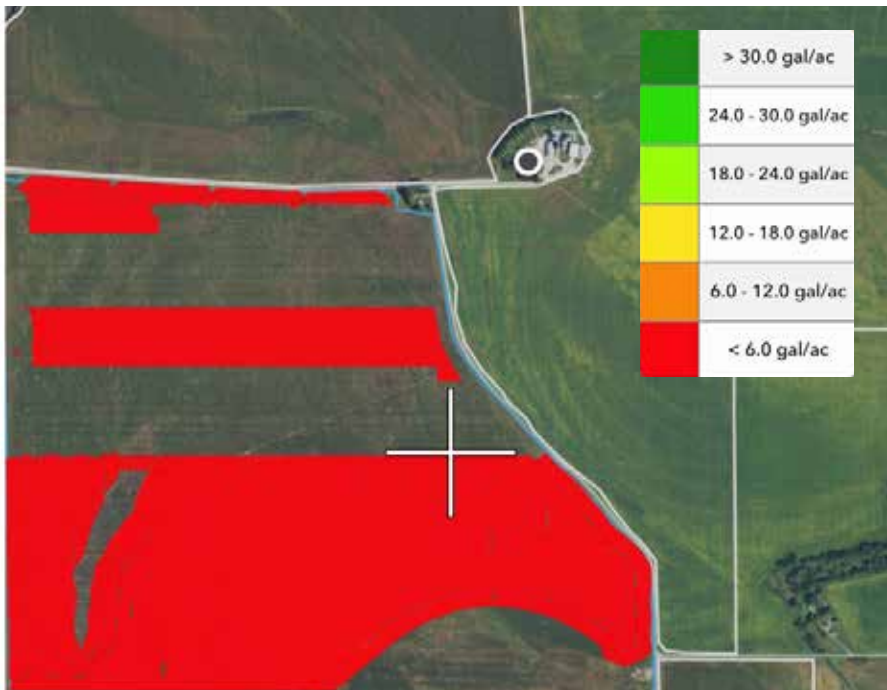
“Reclaim your investment dollars and the power of your soil by leveraging the benefits of naturally occurring microorganisms.”

When you end your season with an application of **Biodyne’s MeltDown or ENVIRONOC 501**, you’re already starting the next season off right. Not only are you increasing the workability of the soil and the ease of planting the next crop, but you’re also helping to reduce wear and tear on your tires and equipment caused by typically tough crop residue.

The capable microorganisms in both these products will degrade complex polymers such as Cellulose, Lignin, Chitin, their intermediates and related compounds. This enhanced biological breakdown will help drive CO₂ cycling, promote higher yields and healthier soil.

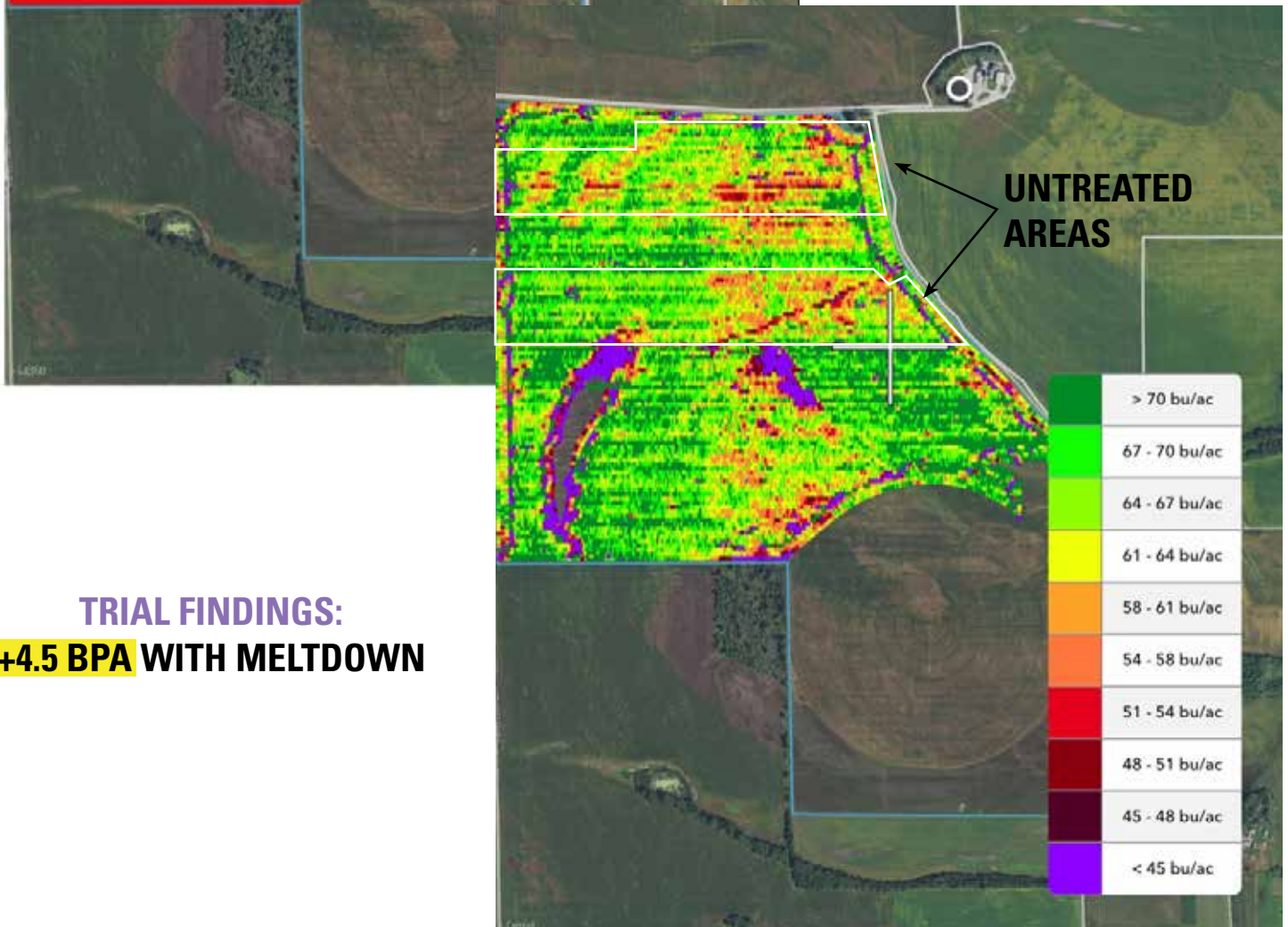
ON FARM Trial Series Nelsons Farm Trial - Corn to Bean Meltdown Stubble Digester Trial JACKSON, NEBRASKA

Meltdown applied to soybean crop with pre-emerge herbicide following a previously grown corn crop.



**RED AREA:
MELTDOWN APPLIED**

**BLANK AREA:
UNTREATED**

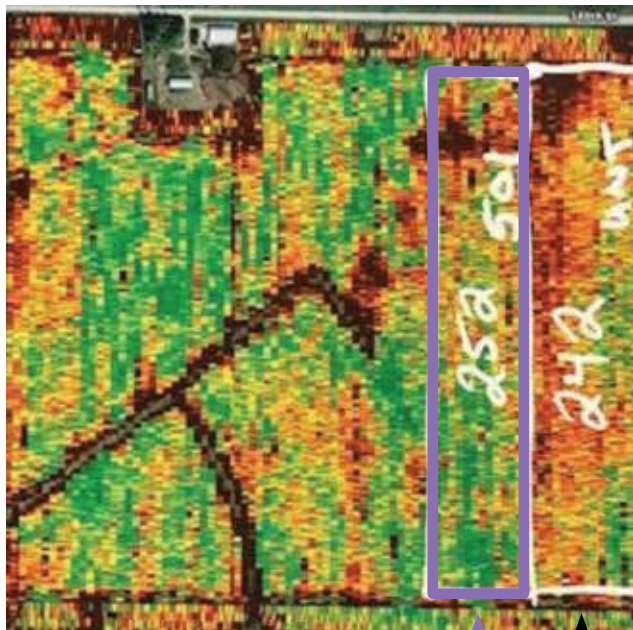


**TRIAL FINDINGS:
+4.5 BPA WITH MELTDOWN**

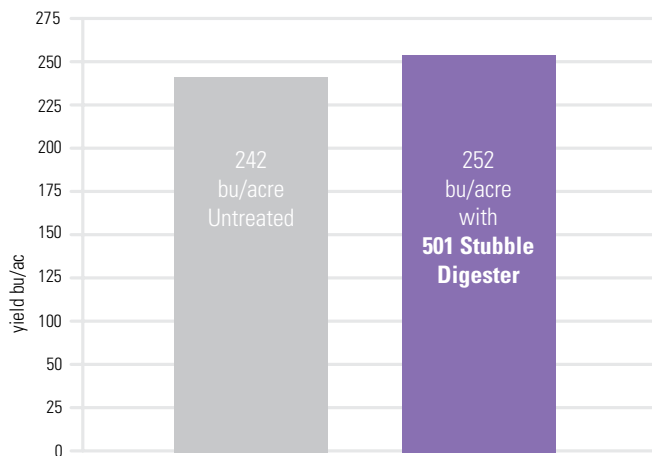
Corn to Corn Environoc 501 Stubble Digester Trial

MITCHELL COUNTY, IOWA

Environoc 501 applied to corn stubble in fall. Data from corn crop grown following season. Results from (2) 22 acre fields.



501
UNTREATED

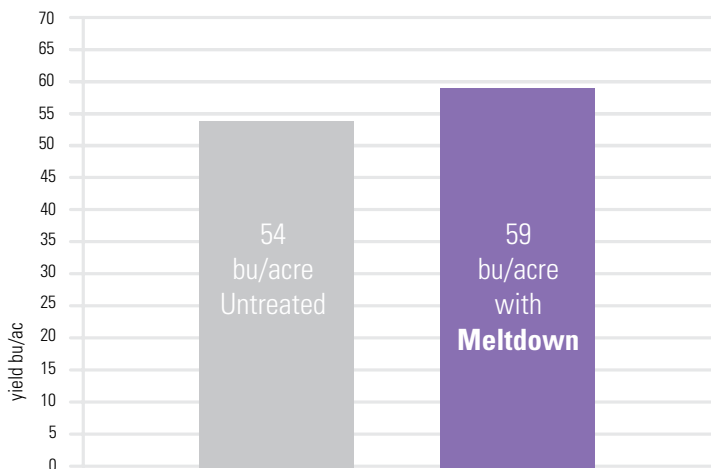
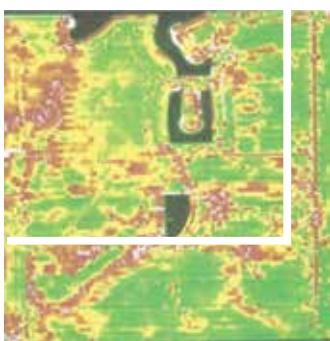


TRIAL FINDINGS:
+10 BPA WITH ENVIRONOC 501

Corn to Bean MeltDown Stubble Digester Trial

IOWA

Meltdown applied to corn stubble in fall. Data from soybean crop grown following season. Results from 154 acre field, 70 acres treated (in "L" shape).



TRIAL FINDINGS:
+5 BPA WITH MELTDOWN



APPLICATION RATE

Foliar Application

1/2 gallon per acre
(as needed throughout growing season)

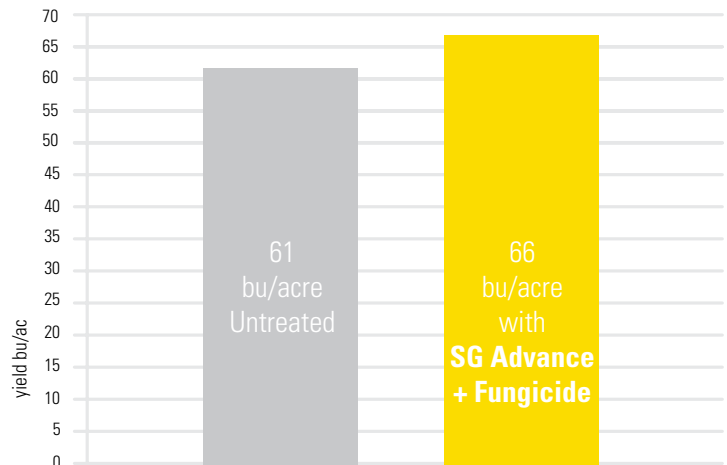
Give your crop the extra energy and protection it needs to achieve top yield with SG Advance powered by Biodyne foliar spray. SG Advance is an exciting new foliar product that combines several technologies designed to both feed the plant and protect it simultaneously. With beneficial microbes, amino acids and sugars this 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, Iron and Molybdenum, diseases are held at bay for a longer period of time when these nutrients inside the plant complete their designed function of enhancing plant immune systems.

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



SG Advance Soybean Foliar Trial
COX FARMS - INDIANA

SG Advance Foliar applied at 1/2 gallon per acre along with fungicide over 5 acres.



	FIELD	% MOISTURE	YIELD
SG Advance with Fungicide	5.1 acres	14.2%	66

	FIELD	% MOISTURE	YIELD
Untreated	4.8 acres	14.1%	61

TRIAL FINDINGS:
+5 BPA WITH SG ADVANCE + FUNGICIDE

BW-Balance

Chelated Micronutrients Solution

Boron 2%, Copper 0.5%, Iron 0.25%
Manganese 2%, Zinc 2%



APPLICATION RATE

Foliar Application

32 oz per acre
Field Crops, Vegetable Crops, Tree and Vice Crops, Turf

Give your crop the micronutrients and capabilities needed to maximize crop production with **BW-BALANCE micronutrient mix**. This product is designed to deliver an optimized ratio of micronutrients for crops under high production demand. It reduces effects of stressful conditions that can decrease yield.

It's formulated for use with fertilizer solutions as a supplement to a well-balanced fertilizer program. Including BW-BALANCE in fertilizer applications before or at planting delivers the most benefit, since effects of micronutrient deficiencies are most damaging to young plants.

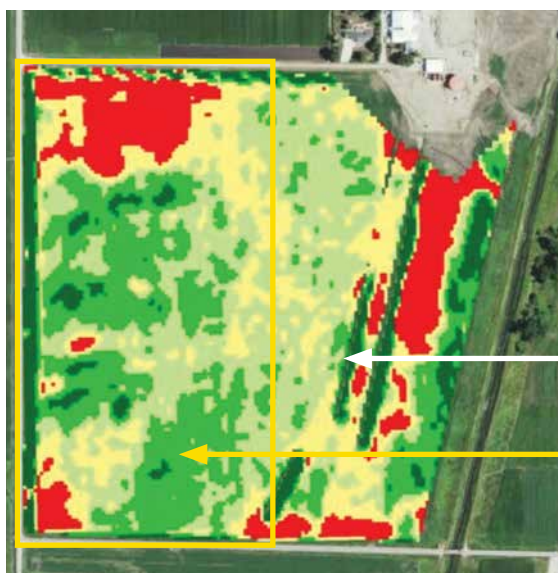
PRODUCT BENEFITS:

- Broad spectrum of micronutrients
- Corrects for micronutrient deficiencies in soil
- Meets crop reproductive micronutrient needs to maximize yield
- Chelated for fast, easy mixing
- Minimizes stress-induced crop damage and premature ripening
- Easy to use in nearly any foliar or pesticide application



Balance Foliar Soybean Trial WEST IOWA

Balance Foliar applied at 32 oz. per acre along with fungicide versus fungicide applied alone over 113 acres.



TRIAL FINDINGS:
+6 BPA WITH BALANCE

Fungicide Only

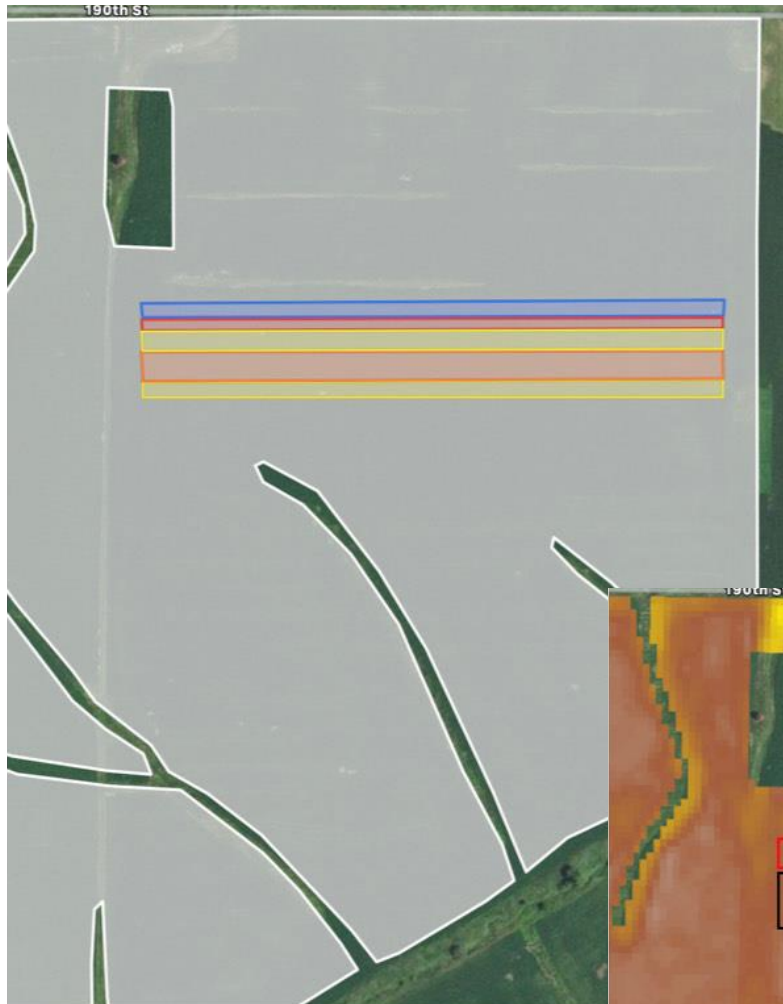
Balance with Fungicide

Meltdown & BioCast Cover Crop Plot

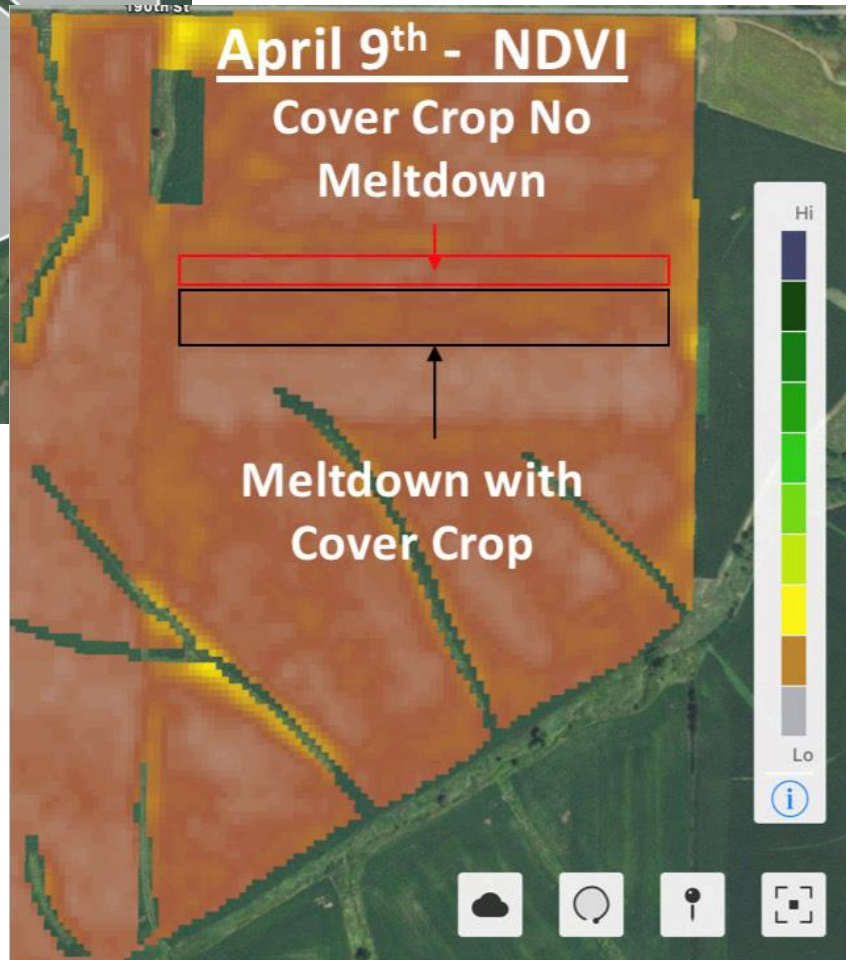
WASHINGTON COUNTY, IOWA

2nd
BEST YIELDS
EVER

- Meltdown applied to Corn Stubble September 25th
- Cover crop winter wheat drilled October 1st
- No-till drilled soybeans April 24th
- BioCast applied May 6th pre-emerge
- 15 inches of rain in May



TREATMENT	AVG. YIELD
■ Untreated Check w/ Cover Crop	66.84
■ BioCast w/ Cover Crop	67.44
■ Meltdown w/ Cover Crop	74.11
■ BioCast/Meltdown w/ Cover Crop	74.86



TRIAL FINDINGS:
+8 BPA
WITH MELTDOWN & BIOCAST

Soil Health is the integration of soil biology, soil chemistry and good farming practices.

ENVIRONOC 401 SOIL TEST



UNTREATED
SOLVITA CO2 BURST 39.80
SOIL HEALTH CALCULATION 4.2



TREATED
SOLVITA CO2 BURST 90.20
SOIL HEALTH CALCULATION 9.3

ENVIRONOC 501 SOIL TEST



UNTREATED
SOLVITA CO2 BURST 62.70
SOIL HEALTH CALCULATION 6.6



TREATED
SOLVITA CO2 BURST 98.10
SOIL HEALTH CALCULATION 11.2

Solvita CO2 Burst is a very good indicator of Soil Health. This test measures the amount of CO₂ naturally released from the soil due to the activity of the soil microbes through Microbial Respiration. The quantity of CO₂ which crops take up compares closely to the amount of CO₂ which a soil is capable of producing.



Soil Health Calculation uses the CO₂ Burst, Organic Carbon, Organic Nitrogen, and the C/N Ratio to generate a SOIL HEALTH NUMBER. This calculation looks at the balance of soil carbon and nitrogen and their relationship to microbial activity. This Number represents the Overall Health of Your System.

Improved CO₂ Cycling

- Higher levels of organic carbon are deposited in the form of roots, sugars, amino acids and proteins to your soil
- Makes bigger root masses and raises organic matter; 60% of organic matter increases come from roots not tops
- Improved nutrient release and nutrient efficiency
- Provides food for growth of more organisms in your soil and for the release of carbon as carbon dioxide (CO₂) from your soil into canopy
- The photosynthesis equation: Water + CO₂ + Sunlight > Glucose + O₂

FENCE LINE TO FARM ROW
#BetterBiology

Biodyne's Microbial Team Technology

Our wide range of products that **DEPLOY** innovative technology, **UNLEASH** beneficial microorganisms and help you **RECLAIM** your soil and investment.
#BetterBiology



Respite Rx





Microbial Team Technology

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Fort Wayne, IN 46808

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To learn more about us,
visit www.biodyne-usa.com
and <https://vimeo.com/biodyne>

#BetterBiology