YIELDMASTER SOLUTIONS

PRODUCT GUIDE

2021

YieldMaster SOLUTIONS LLC

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LEADING THE WAY IN
YIELD ENHANCING SOLUTIONS

YieldMaster Solutions (YMS) is pleased to offer dealers and growers performance enhancing biological technologies and innovations to improve crop health, and increase yield potential. Solutions include products from Azotic North America, Agrovive and AgriGuardian. We offer a robust product portfolio for multiple crop types to meet specific operation and application needs that include seed coat, foliar, and in-furrow applications.

UNBIASED INDEPENDENCE
DEVOTED TO INTEGRITY.

- YMS is a rare marketing company in its approach to promote Bio-Technology. Our discovery process is focused on two key factors:
  1. Does it work and
  2. Does it enhance the grower's ROI.
- As a fiercely independent organization, we choose to identify and ground truth rather than to manufacture.
- All environmentally sound products that have shown the ability to improve plant health or function must earn their way into our elite portfolio through our Proof of Concept Trials.
- YMS is equally selective about the technology partners we choose to align with. Partners must identify with the YMS model for innovation and performance.

BIOLOGICS ARE ABOUT MORE THAN SIMPLY YIELD.

YieldMaster SOLUTIONS LLC

INTERESTED IN
LEARNING MORE?

Visit our website for more information;
www.yieldmastersolutions.com
or contact us by phone at ***605-860-8534.***

** Read and follow all labeled instructions*

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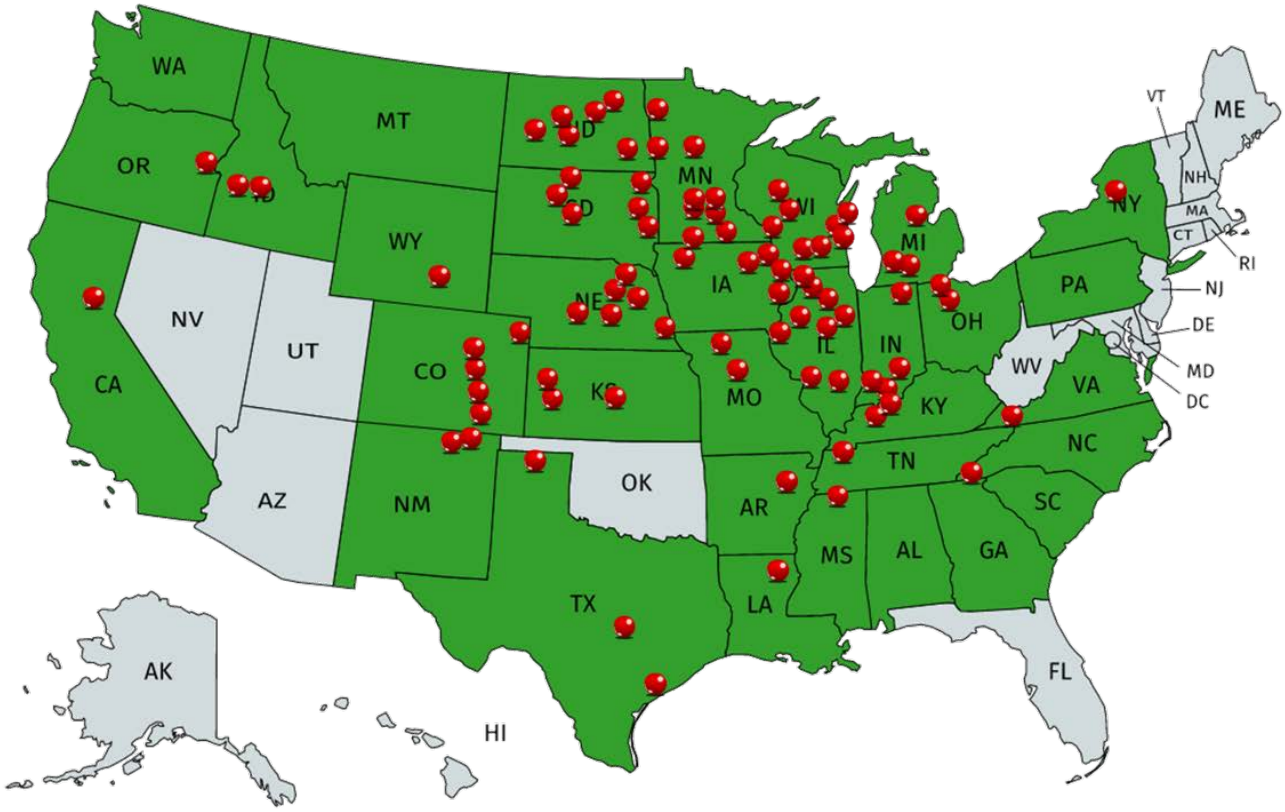
2020
PROOF OF CONCEPT TRIAL LOCATIONS



Envita. Nitrogen Now. In Every Cell.

The only N-fixing bacteria that works from within the plant (above and below ground) and across crops to supplement nitrogen.

For Use On: Corn & Soybeans *(and other crops)*

Manufacturer:
Azotic North America

Application Type:
- In Furrow: 3.2 oz/acre
- Foliar: 3.2oz/acre Apply V2-V6 growth stage
- Envita is sold in 1 gallon jugs. *(1 gallon treats 40 acres)*

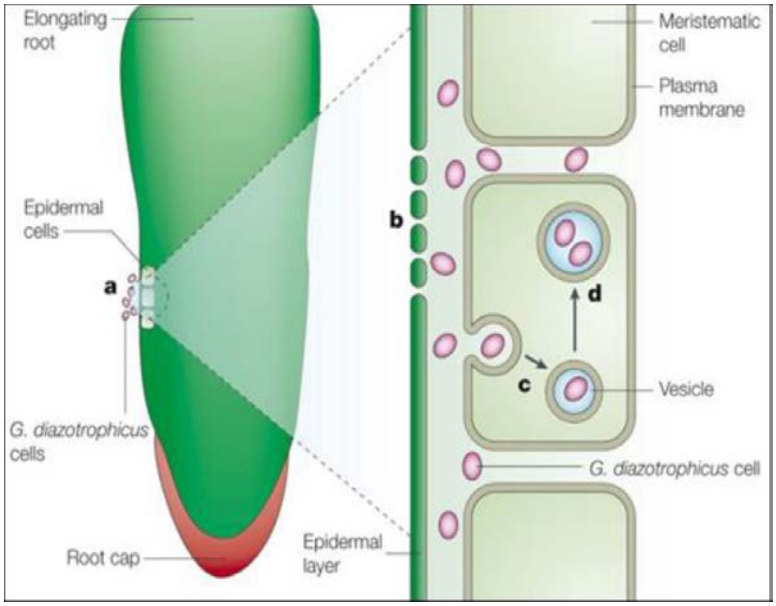
What is it?
Envita™ is a naturally occurring, bacteria – *Gluconacetobacter diazotrophicus* (Gd.), that was originally discovered in sugarcane. Envita forms a beneficial relationship with the host plant and provides nitrogen throughout the plant, both above and below ground, during the growing season.

Benefits:
- Multi-crop use *(highly recommended for corn & soybeans and many other crops)*
- Envita works throughout the plant and not just in the root system
- Flexible application use *(in furrow and foliar)*

"The benefit of using Envita outweighs the risk of NOT using it. I've tested it two years in a row and corn treated with it consistently yields more, has better test weight and is a good 1/2 point drier. It will go on every acre I have from now on."

Jeremy Gappert
Grower, New Salem, ND

** Read and follow all labeled instructions*



How Envita works:

Envita can be applied in furrow at planting or sprayed on growing plants. It quickly establishes within the plant and grows with the plant as it matures. Unlike rhizobia which does not begin forming nodules until the root system is taking form, Envita starts to fix nitrogen very quickly and lasts all season long. This provides the plant with an additional source of nitrogen during critical growth periods where nitrogen loss may occur due to environmental conditions.

A. *Envita (Gd.) enters the plant*

B. *Envita bacteria (Gd.) works its way into the plant cell and colonies within the actual cell*

C. *Envita bacteria (Gd.) creates small vesicles or "air pockets" within the plant cell that have the ability of capturing nitrogen from the atmosphere*

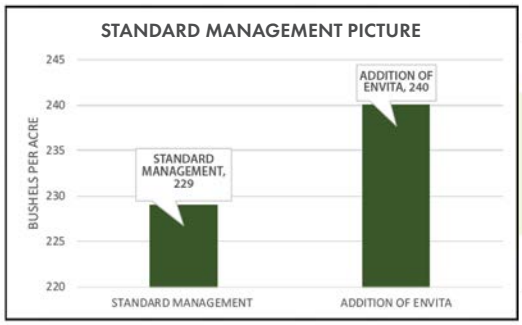
D. *Envita repopulates within the cell*

2019 University of Illinois
Corn Omission Trial Results:

In 2019, Fred Below and the University of Illinois conducted a corn omission trial using Envita.

There were 12 different treatments consisting of a standard management and 11 individual management factors. The base management practice included 32,000 plants per acre and 180 units of nitrogen up front.

This omission-addition trial showcased the value of adding a single factor to a base management, or how much that factor decreases yield when it is removed from the high tech system.



11 BU/ACRE INCREASE
WHEN ENVITA ADDED TO STANDARD MANAGEMENT

Average of 20" & 30" rows at Champaign, IL during 2019.

2021
PERFORMANCE GUARANTEE

The Envita Performance Guarantee is built on the fact that Envita delivers, on average, a 7 bu/ac yield increase in corn and rarely delivers an increase of less than 2.5 bu/acre, roughly the yield difference required to cover the costs of Envita. If you apply Envita on corn, in furrow or foliar, at labeled rates and per use guideline, and don't get a minimum 2.5 bu/acre increase Azotic North America will replace all your Envita product.

PROGRAM DETAILS:

- Purchase at least 160 ac of Envita.
- ***Apply Envita on corn in-furrow*** at labeled rates and per use guidelines.
- Leave an appropriate check within the same field.
  - Minimum of 5 ac, side by side treated area, similar soil type and topography.
- Purchase and apply Envita by June 15, 2021 for use on corn.
- Apply within a registered state or province within the USA or Canada
- Fertilize your field at recommended rates of nitrogen fertilizer.
  - *i.e. 100% of recommended N based on soil test.*
- Use a harvest monitor to measure the yield of the Envita treated area and the check area.
- If the harvest monitor does not show at least a 2.5 bu /acre increase on the Envita treated area vs. the check area, Azotic North America will replace your Envita product on the field that did not perform for the 2022 season.
  - Separate check strips are required on each distinct field Envita is applied.

For program details information on the in furrow & foliar Performance Guarantee, visit www.azotic-na.com

azotic NORTH AMERICA

Soy*fx*™

For Use On: Soybeans

Soy_{fx} ™ is a specific/unique combination of identified and tested microbials that elicit a positive crop response. Soy_{fx}™ unlocks the plant's ability to produce growth regulators and metabolites that enhance production through biosynthetic pathway efficiencies.

BENEFITS

- Phosphate solubilization through microbial activity
- Increased total leaf area
- Reduced ethylene production
- Enhanced pod set
- Improved ability to withstand stress
- Soy_{fx}™ contains microbials that enhance regrowth following a hail event, so the point of stem breakage grows rather than growth from an axillary bud.
- Improves root development
- Increased nodulation and nodule size

APPLICATION RATES

- **Seed:** 1 fl. oz. per 50 lbs. Can be applied alone or in combination with other seed treatments.
- **In Furrow:** 16 fl. oz. per acre and minimum of 5 gpa total volume.
- **Foliar:** 16 fl. oz. per acre with 10 to 20 gallons water. May be tank mixed with other products. Early vegetative application (V2-V4) would be ideal.
- **Guaranteed Analysis**
- **Non-plant Food:**
  Bacillus megaterium ..... $1x10^5$ CFU/ml
  Bacillus pumilis ..... $1x10^2$ CFU/ml
- Microorganisms exempt from CFR requirements ..... 40 CFR 725
- **Packaging:** 4x1 gallon jugs (seed applied), 2x2.5 gallon jugs (in furrow and foliar), 275 gallon bulk shuttles (in furrow and foliar)

** Read and follow all labeled instructions*

MODES OF ACTION

- Plant pH modulation maximizes biosynthetic pathways
- Facultative anaerobic bacteria support the production of nodules in upper inch of soil
- ACC Deaminase bacteria reduce production of ethylene (stress hormone)
- ACC Deaminase bacteria interacts to reduce Reactive Oxygen Species (ROS) signaling and mitigates stress
- Continuous action microbes facilitate micro-nutrient availability within the plant

11% MORE BRANCHES *with* Soy_{fx}

28% MORE PODS PER PLANT *with* Soy_{fx}

23% INCREASE IN NODULATION *with* Soy_{fx}

About this field

In early July of 2020, Cody Miller of Wahpeton, ND experienced severe hail damage to his soybeans treated with Soy_{fx} vs. untreated. Soy_{fx} contains microbials that enhance regrowth following a hail event, so the point of stem breakage grows rather than growth from an axillary bud. Therefore, if there is a hailstorm early enough that replanting is an option, Soy_{fx} reduces the need to replant. In this situation, with the drastic damage, farmers would have had to wait for crops to grow back and have more foliage before they were able to apply a biological. As a result, the recovery window would be long overdue, and the treatment would have a lower chance of working. Cody is grateful for the added hail insurance Soy_{fx} brought to his operation.

Soy_{fx} treated soybean plants

Untreated soybean plants

Photos taken approximately 1 ½ months after hailstorm.

ION$_{fx}$™

For Use On: Corn, Sorghum, Small Grains (Foliar), Cotton, Canola and Flax

ION$_{fx}$™ is a mix of genetically identified and patented bacteria, along with archaea and fungi. While many microbes live naturally in a plant, this mix of microorganisms has been selected to support, enhance, or supplement plant functions. ION$_{fx}$ unlocks a plant's ability to produce growth regulators and metabolites.

BENEFITS

- Better heat and drought stress tolerance
- Phosphate solubilization through microbial activity
- General stress mitigation
- Improved early vigor and less purpling
- Increases forage quality and yield
- Increases protein in small grains

APPLICATION RATES

- **Seed:** 1 fl. oz. per 80,000 seeds via seed treater. Can be co-applied with other products
- **In Furrow:** 16 fl. oz. per acre and minimum of 5 gpa rate
- **Foliar:** 16 fl. oz. per acre with 10 to 20 gallons water. May be tank mixed with other products. For corn or sorghum, V3-V7 would be ideal application stage
- **Guaranteed Analysis**
- **Non-plant Food:**
  Pseudomonas fluorescence ..... 1.0 x 10^5 CFU/ml
- Microorganisms exempt from CFR requirements ..... 40 CFR 725
- **Packaging:** Packaging: 4x1 gallon jugs (seed applied), 2x2.5 gallon jugs (in furrow and foliar), 275 gallon bulk shuttles (in furrow and foliar)

** Read and follow all labeled instructions*

MODES OF ACTION

- Plant pH regulation through the ability to exchange electrons in chemical pathways
- pH regulation overcomes "slowdowns" during the heat of the day
- A unique microbe group triggers larger leaves early on and a thicker stalk later
- Movement of lignin on vascular bundles to the outer rind of the stem. This may aid in movement of nutrients and water through the plant
- Bacteria elicit a hormone response to insert the ear higher and support a second ear
- Reactive Oxygen Species (ROS) response microbes become more active later in the season
- Mitigates heat and drought stress to reduce their effect
- Slow acting, continuous action microbes facilitate micronutrient availability within the plant

6.5

Bu/Acre

ADVANTAGE

When Positive Response Achieved

5:1

RETURN ON INVESTMENT

When Positive Response Achieved

ION_{FX} SILAGE SUMMARY

In 2020, silage testing was conducted across 7 locations in the upper Midwest to compare ION_{fx} responsiveness in 4 silage products vs. untreated (control). The data set included 13 paired comparison samples.

Results showed the following:

7 Locations	Tons Per Acre at 65%	Milk per Ton	Milk per Acre	Meat per Acre (lbs)
Untreated Corn	26.9	3,262	30,835	2,236
ION_{fx}	27.9	3,270	31,833	2,307
13 Comparisons Avg. Difference Treated vs. Untreated			998	71

ION_{FX} SHOWED

+998 LBS AVG. MILK PER ACRE MORE!

alpha*joule*™

For Use On: Alfalfa

Alpha$_{joule}$™ is a mix of genetically identified and patented microorganisms selected to stimulate or support plant growth and physiology. While many microbes live naturally in a plant, this mix of microorganisms has been selected to benefit the development of alfalfa. Alpha$_{joule}$™ unlocks a plant's ability to produce its own growth regulators and metabolites.

BENEFITS

- Larger leaves and more branching
- Better leaf retention
- Promotes regrowth after cutting
- Increased tons per acre
- Improved root structure and nutrient flow
- More branches from the crown after cutting
- Phosphate solubilization through microbial activity
- General stress mitigation.

APPLICATION RATES

- **Foliar:** 16 fl. oz. per acre of alpha$_{joule}$ and 16 fl. oz per acre of Prymer™ along with 10 to 20 gallons water. Alpha$_{joule}$ may be applied with water alone or tank mixed with other products (You may want to perform a jar test to verify compatibility). While the window of application is not limited, earlier plant growth stages provide better response. Apply to small regrowth alfalfa (about 2-3″ in ht) for best results. Can apply following each cutting or at spring greenup.

- **Guaranteed Analysis**
  Soluble Potash (K20): 1.00% from potassium carbonate
- **Nonplant food:**
  Pseudomonas fluorescence ..... 10×10^5 CFU/ml
  Bacillus megaterium ..... 10×10^2 CFU/ml
- Microorganisms exempt from CFR requirements ..... 40 CFR 725

- **Packaging:** 2.5 gallon jug of Alpha$_{joule}$ + 2.5 gallon jug of Prymer™

** Read and follow all labeled instructions*

MODES OF ACTION

- Plant pH regulation through the ability to exchange electrons in chemical pathways
- Reduced ethylene production causing better leaf retention & delayed stress flowering
- Continuous action microbes facilitate micronutrient availability within the plant
- Improved nutrient loading in rooting system to support regrowth and longevity

About this field

Alpha$_{joule}$ applied to 75 acres and left 46 acres of the field as a "check," without treatment. A 15% yield increase with the use of Alpha$_{joule}$ was achieved. The calculation was an average of 1.889 bales per acre with Alphajoule as compared to 1.63 bales per acre without. (Assuming alfalfa is $200 a ton, a 15% yield increase will provide $30 return per acre.)

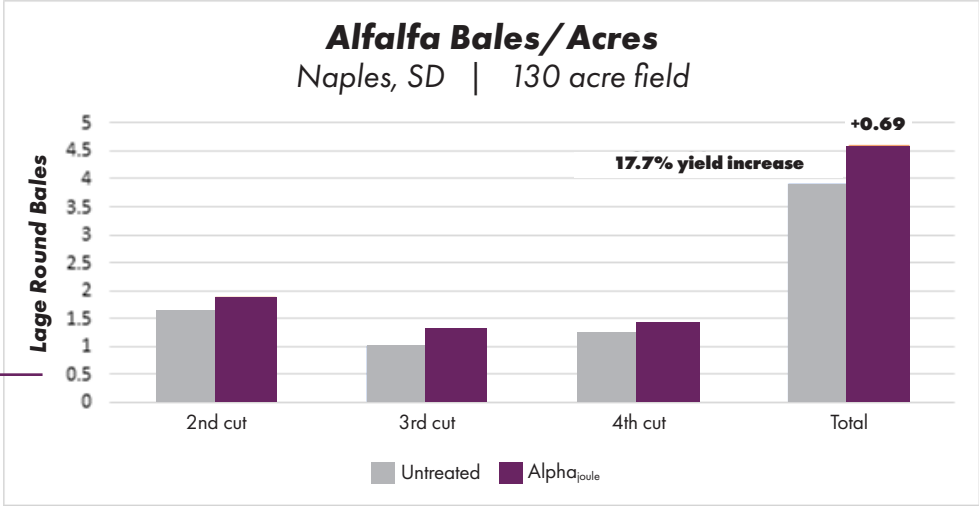
Untreated sample ***Treated sample***

Alpha$_{joule}$ summary

Naples, SD case study in a 130-acre field. The field had a section that was treated with Alphajoule and a section that was left as the check. Yield was measured by bale count of large round bales and bales per acre was calculated. Alphajoule + Prymer (copack) was applied after 1st cutting, 2nd cutting and 3rd cutting to plants that were between 2 and 6" tall. Bales per acre were counted on 2nd, 3rd and 4th cuttings and reported below.

Forage quality samples were pulled and analyzed on the 2nd and 3rd crop of hay. There did not seem to be any improvement on RFV as 2nd crop was better by 3 points and 3rd crop was 3 points less in RFV when treated with Alphajoule. Crude protein was also within 0.4 of each other. One parameter that was consistent was that DM was 2 to 4% higher with the use of Alphajoule.

A yield increase of 17.7% on 4.5 ton of hay translates to more than ¾ ton of hay per acre



POD*fx*™

For Use On: Edible Beans

POD_{fx} ™ combines a mix of selected and tested microbials that support a positive crop response, leading to yield. POD_{fx} aids the plant in producing growth regulators and metabolites that enhance production through biosynthetic pathway efficiencies.

BENEFITS

- Increased yield
- Increased flower retention
- Increased leaf area
- Larger seeds
- Phosphate solubilization through microbial activity
- pH regulation Reduced Reactive Oxygen species (ROS)
- General stress mitigation.
- Improved root development and nodulation
- Improved pod set and bean fill
- More robust stems and enhanced leaf area
- Stronger pod clustering and formation

APPLICATION RATES

- **Seed**: 1 fl. oz. per 50 lbs. (2 fl. oz./cwt) via seed treater
- **In Furrow:** 16 fl. oz. per acre and minimum of 5 gpa total volume
- **Foliar:** 1 pt. per acre with 10 to 20 gallons water
- **Packaging:** 4x1 gallon jugs (seed applied), 2x2.5 gallon jugs (in furrow and foliar), 275 gallon bulk shuttles (in furrow and foliar)

**Read and follow all labeled instructions*

Hydra*val*™

For Use On: Sunflowers

Hydra$_{val}$™ is a targeted mix of microbial endophytes screened for and selected to induce a favorable crop response in sunflower and safflower.

BENEFITS

- Head stays upright longer
- Reduced daily leaf wilt for better plant health
- Promotes additional head growth from damaged stems
- Increased yield
- Increased head size
- Increased pollination success
- Stronger roots and stalks
- Larger leaves on the plant
- pH regulation
- General stress mitigation

APPLICATION RATES

- **In Furrow:** 16 fl. oz. per acre and minimum of 5 gpa total volume
- **Foliar:** 16 fl. oz per acre with 10 to 20 gallons water. May be tank mixed with other products. Generally, a V3-V6 application is ideal
- **Packaging:** 2x2.5 gallon jugs

R_3Plant™ RECOVERY

For Use On: Soybeans

R_3Plant™ RECOVERY is a selected mix of microbials used following an early hail event to stimulate regrowth from the point of breakage rather than a lateral bud. This mix of microbials is found in Soy_{fx}™ seed applied and is offered for those who didn't use it in their seed treatment program. Soy_{fx}™ contains microbials that enhance regrowth following a hail event, so the point of stem breakage grows rather than growth from an axillary bud. Therefore, if there is a hailstorm early enough that replanting is an option, Soy_{fx} reduces the need to replant.

BENEFITS

- Specific bacteria to trigger plant response
- Enhanced plant growth after application
- Regrows from scars rather than lateral branching
- Rescued yield potential

APPLICATION RATES

- **Foliar:** 32 fl. oz. per acre with 10 to 20 gallons water. Applying R_3Plant™ RECOVERY can be both a preemptive application and a rescue treatment to soybeans. If preemptive, apply to small plants (V2-V4) with water alone or it may be tank mixed with other products such as fungicides (may conduct a jar test to verify compatibility). If using as a rescue treatment apply within three days to a week of the hail event to maximize benefit. As a rescue treatment applying with water alone would be the normal treatment
- **Packaging:** 2x2.5 gallon jugs

** Read and follow all labeled instructions*

Crown$_{fx}$™

For Use On: Small Grains

Crown$_{fx}$ ™ is a carefully chosen combination of microbials that have been tested and selected to elicit a positive crop response. Crown$_{fx}$ enhances the plant's ability to metabolize nutrients and efficiently support growth. Applied to the seed before planting. If looking for a post emergence product, use Ionfx

BENEFITS

- Increased yield
- Phosphate solubilization through microbial activity
- Increased leaf area and tillering
- Reduced ethylene production (associated with aging and senescence)
- pH regulation
- Increased early vigor, tillering/head formation
- Reduced Reactive Oxygen species
- General stress mitigation
- Stronger stems and increased seeds per head as well as total number of heads per plant
- Increased protein and grain quality
- Greater stem strength and plant mass

APPLICATION RATES

- **Seed**: 1 fl. oz. per 50 lbs. seed via seed treater. Crown$_{fx}$ is intended for application to the seed. If considering a foliar application, use ION$_{fx}$.
- **Caution:** Should not use hormone-based plant growth regulators (PGR) with this product because the combination may result in stunted growth
- **Packaging:** 4x1 gallon jugs (seed applied)

Set*fx*™

For Use On: Potatoes

Set$_{fx}$ ™ is a selected combination of fungi, bacteria and microorganisms that have been tested to colonize within potatoes and enhance tuber set and size. It enhances the plants ability to metabolize nutrients to efficiently support growth. Set$_{fx}$ ™ can be applied at three different timings to influence production.

BENEFITS

- Enhances the plant's ability to metabolize nutrients to efficiently support growth
- Seed Coat promotes root and stolon development prior to vegetative growth, leading to a dominant potato set and uniform size
- In furrow, increases overall yield by influencing size and number of potatoes of each set
- Applied to foliage in early development increases overall yield
- Phosphate solubilization through microbial activity
- Increased total leaf area
- pH regulation
- Reduced Reactive Oxygen species
- General stress mitigation
- Better stems and increased yield

APPLICATION RATES

- **Seed**: 4 fl. oz. per cwt before planting
- **In Furrow:** 32 fl. oz/acre. Apply with a minimum of 5 gpa total solution
- **Foliar:** 32 fl. oz/acre with a minimum of 10 gallons solution
- **Packaging:** 4x1 gallon jugs (seed applied), 2x2.5 gallon jugs (in furrow and foliar), 275 gallon bulk shuttles (in furrow and foliar)

** Read and follow all labeled instructions*

MIXING/USE GUIDE
BIOLOGICALS

SEED APPLIED

		Seed Treatments					Applicator[1]	
Product	Rate	Fungicides	Insecticides	life on seed	Storage	Mixing	atomizer	nozzle
Soy$_{fx}$	1 oz/140K	Most	Most	up to 90 days	39-82° F	Alone or slurry	yes	yes
ION$_{fx}$	1 oz/80K	Most	Most	up to 90 days	39-82° F	Alone or slurry	yes	yes
Crown$_{fx}$	1 oz/50#	Most	Most	up to 90 days	39-82° F	Alone or slurry	yes	yes
Pod$_{fx}$	1 oz/50#	Most	Most	up to 90 days	39-82° F	Alone or slurry	yes	yes
Set$_{fx}$	4 oz/CWT	Most	Most	up to 90 days	39-82° F	Alone or slurry	yes	yes

FOLIAR OR IN FURROW

Product	Rate fl. oz/ acre	Application timing *(foliar)*	Compatibility *(don't use with)*	Use with glyphosate	Life in Solution[2]	Storage Temp *(F)*	Storage conditions	Mixing order	Adjuvant Rec.
Soy$_{fx}$	16	IF or V3 - R1	Propiconazole	no	6-8 hrs	39-82°	out of sun	add water 1st	yes
ION$_{fx}$	16	IF or V3 - V8	Propiconazole	no	6-8 hrs	39-82°	out of sun	add water 1st	yes
Hydra$_{val}$	16	IF or V3 - V8	Propiconazole	no	6-8 hrs	39-82°	out of sun	add water 1st	yes
AlphaJoule + Prymer	32	3-5" regrowth	Propiconazole	no	6-8 hrs	39-82°	out of sun	add water 1st	yes
R$_3$Plant	32	See pg 14	Propiconazole	no	6-8 hrs	39-82°	out of sun	add water 1st	yes
Set$_{fx}$	32	IF or V3-V8	Propiconazole	no	6-8 hrs	39-82°	out of sun	add water 1st	yes
Pod$_{fx}$	16	IF or V3 - R1	Propiconazole	no	6-8 hrs	39-82°	out of sun	add water 1st	yes
Envita	3.2	IF or V2-V6	urea	good	6-8 hrs	39-82°	out of sun	add water 1st	yes
MicroMix Complete	16	V3 - R4	no concern	good	days	no concern	no concern	no concern	yes
Moly	4	V3 - R4	no concern	good	days	no concern	no concern	no concern	yes
Nutra-Boost	16	V3 - R4	no concern	good	days	no concern	no concern	no concern	yes

1. Follow applicator pressure and application settings
2. Using an injection system (in furrow or foliar) for these biologicals is a very good option.
A jar test is recommended to help answer questions

AGRIGUARDIAN™

A LEADER IN PLANT NUTRIENT TECHNOLOGY

With decades of field and research experience in plant nutrition, AgriGuardian develops products to meet the nutritional needs of all crops. AgriGuardian products are designed with balanced nutrients to be readily available, quickly absorbed, and immediately usable by the plant. AgriGuardian products provide a beneficial way to increase nutrition, yield, and profit for all crops.

AgriGuardian products enhance nodulation and nitrogen fixation. Soybean crop grown in central Missouri.

MicroMix™ Complete by AGRIGUARDIAN

Micronutrients For All Crops

AgriGuardian MicroMix Complete is a concentrated balance of all essential plant micronutrients required by every crop. AgriGuardian's proprietary formulation of MicroMix Complete is chelated with sugar-based compounds that allow rapid uptake and utilization by plant's leaves, shoots, roots, and reproductive structures. The micronutrients in MicroMix Complete promote growth, maturity, and performance of crops. MicroMix Complete enhances the effectiveness and efficiency of fertilizers, herbicides, and fungicides. MicroMix Complete helps prevent micronutrient deficiencies and resist plant diseases. Using MicroMix Complete provides a beneficial way to increase nutrition, yield, and profit for all crops. AgriGuardian MicroMix Complete has been field researched by University and USDA scientists, and successfully used on major agricultural operations since 2010.

MicroMix Complete can be applied through:

- Foliar spray
- Irrigation systems
- Starter solutions, or root dips at planting or transplanting
- Can be tank mixed with post applied herbicides
  - o This supports early application on young plants
- Nutrient solutions for hydroponics and greenhouse production

Apply Per Acre:

- 2 Applications of 16 ounces of MicroMix Complete mixed with 5-10 gallons of water.
  - o Apply early in plant growth to ensure adequate micronutrients for rapid growth.
  - o Apply to foliage during vegetative or early reproductive stages of development.
- Soil and tissue tests are the best way to determine application rate needed.

MicroMix Complete helps prevent yellow flash and other negative effects of glyphosate when applied to herbicide tolerant crops. MicroMix Complete prevents micronutrient deficiencies by supplying the plant with micronutrients in a form that glyphosate cannot tie-up. Use MicroMix Complete in-tank mix with glyphosate when growing herbicide tolerant crops.

** Read and follow all labeled instructions*

Moly™ by AgriGuardian

Molybdenum For All Crops

AgriGuardian Moly is a concentrated molybdenum nutrient required by every crop. AgriGuardian's proprietary formulation of Moly is complexed with sugar-based compounds that allow rapid uptake and utilization by plant's leaves, shoots, roots, and reproductive structures. The molybdenum in Moly promotes growth, maturity, and performance of crops. Moly enhances the effectiveness and efficiency of nitrogen, phosphorus, and sulfur fertilizers. Moly helps prevent molybdenum deficiencies and tolerate heat stress or drought conditions. Using Moly provides a beneficial way to increase nutrition, yield, and profit for all crops. AgriGuardian Moly has been field researched by University and USDA scientists, and successfully used on major agricultural operations since 2010.

Moly can be applied through:

- Foliar spray
- In furrow* at planting
- Irrigation systems
- Starter solutions, or root dips at planting or transplanting
- Can be tank mixed with post applied herbicides
    - o This supports early application on young plants
- Nutrient solutions for hydroponics and greenhouse production

Apply Per Acre:

- 2 Applications of 4 ounces of Moly mixed with 5-10 gallons of water.
    - o Apply early in plant growth to ensure nitrogen fixation and production of growth regulator IAA.
    - o Apply to foliage during vegetative growth or when soils are warm for increased nitrate utilization and drought tolerance.
- Soil and tissue tests are the best way to determine application rate needed.

**IF applying to soil in furrow, use 4-8 ounces per acre.*

Nutra-Boost™ by AgriGuardian

Nutrients For All Crops

AgriGuardian NutraBoost is a concentrated blend of soluble potassium, magnesium, and sulfur required by every crop. AgriGuardian's proprietary formulation of NutraBoost is designed to allow rapid uptake and utilization by plant's leaves, shoots, roots, and reproductive structures. The nutrients in NutraBoost promote growth, maturity, and performance of crops. NutraBoost enhances the effectiveness and efficiency of nutrients during peak demand by the plant. NutraBoost helps prevent nutrient deficiencies and resist crop diseases. Using NutraBoost provides a beneficial way to increase nutrition, yield, and profit for all crops. AgriGuardian NutraBoost has been field researched by University and USDA scientists, and successfully used on major agricultural operations since 2010.

NutraBoost can be applied through:

- Foliar spray; can be tank mixed with pesticides
- Irrigation systems
- Nutrient solutions for hydroponics and greenhouse production

Apply Per Acre:

- 2 Applications of 1 gallon of NutraBoost mixed with 10-20 gallons of water.
    - o Apply early in plant growth to ensure plant uptake for rapid growth.
    - o Apply to foliage during vegetative or early reproductive stages of development.
- Soil and tissue tests are the best way to determine application rate needed.
- For highest yields, applications every 4 weeks throughout the growing season may be needed.

Application Guidelines

AgriGuardian MicroMix Complete can be used alone or tank-mixed with glyphosate*, glufosinate, and most other herbicides, pesticides, and fertilizers. *(IF mixing with other chemicals or fertilizers always do a jar test to determine compatibility, and test on a small portion of field to ensure no toxic effects occur before applying to all of crop.)*

AgriGuardian Moly can be used alone or tank-mixed with most other herbicides, pesticides, and fertilizers. *(IF mixing with other chemicals or fertilizers always do a jar test to determine compatibility, and test on a small portion of field to ensure no toxic effects occur before applying to all of crop.)*

AgriGuardian NutraBoost can be used alone or tank-mixed with most other herbicides, pesticides and fertilizers. *(IF mixing with other chemicals or fertilizers always do a jar test to determine compatibility, and test on a small portion of field to ensure no toxic effects occur before applying to all of crop.)*

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