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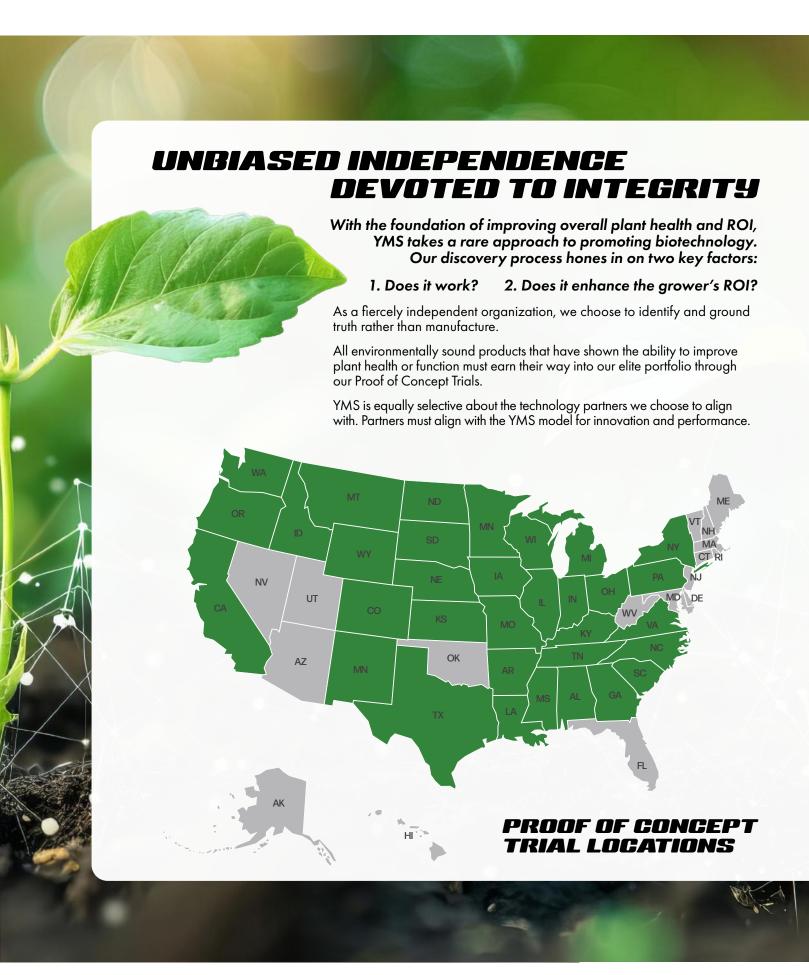


TABLE OF CONTENTS **SOIL HEALTH & EFFICIENCY** NUTRIQUIRE + TERRASYM8-9 OMNISYNC 10-11 FERTILITY & NUTRIENT MANAGEMENT LIVESTOCK NUTRIPHI 22-23 **SPECIALTY** TERRASYM450 + DUST + TS201 26-27 PRODUCT RECOMMENDATION CHART 30-31



EASY TO APPLY

With a wide range of application methods, Nutriquire can be applied in-furrow, foliar, side dressed, or fertigated for easy incorporation into any operation.

VERSATILITY

Nutriquire contains spore forming bacteria, meaning they are dormant, allowing for longer shelf life and versatility of application methods.

INCREASE IN P & K AVAILABILITY

Nutriquire contains spore forming microbes that improve phosphorous and potassium availability through the creation of organic and inorganic acids. These organic and inorganic acids alter the pH locally allowing for the release of more phosphorous and potassium.



AVAILABILITY

Nutriquire converts soil N to plant available forms quicker allowing for less nutrient run off and improved plant availability.

IMPROVED NUTRIENT UPTAKE

Overall plant nutrient efficiency, availability, and uptake is improved through the microbes found in Nutriquire as they aid in breaking soil bonds that typically make nutrients unavailable.



Nutriquire is a microbial-based product that increases the active biomass in the soil. Nutriquire introduces microbes into the soil resulting in improved plant vigor and nutrient cycling. Many of the bacteria found in Nutriquire are spore forming bacteria allowing for flexible mixing and application options.

FOR USE ON

CORN I SOYBEANS I WHEAT ALFALFA | CANOLA | SUGAR BEETS POTATOES | COTTON & MORE



KEY BENEFITS

- Enhances fertilizer by increasing plant nutrient uptake
- Improves availability of phosphorus and potassium
- Increases root mass growth
- Improves soil environment for plant growth by building the aerobic zone of the soil.

- Aids in unlocking nutrient tie up caused by high or low pH soils
- Stimulates soil microorganisms that provide essential nutrients for plants through their productive biological processes

APPLICATION RATE

32 oz / acre

Soil Applied:

• 32 oz/acre

Foliar:

- 32 oz/acre
- 4-6 leaf or V7 to silking/tasseling

UAN:

- 32 oz/acre
- 4-6 leaf through tasseling

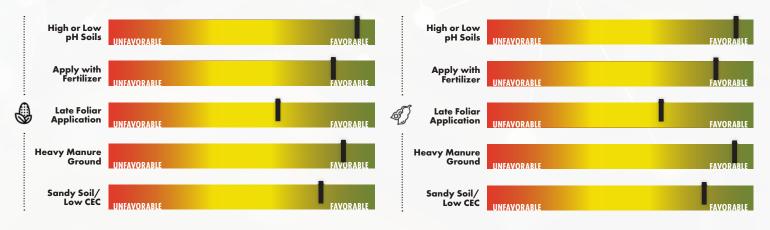
METHODS OF APPLICATION

- Can be applied through overhead, aerial irrigation and mixed with sprayer tank containing starter fertilizers and/or herbicides, other methods of application.
- May be mixed with a 2,4-D herbicide, and glyphosate.
- Ensure tank is free of residue, avoid or treat chlorinated water if possible.
- Do not apply when a crop is severely stressed.
- Compatible with some fungicides and insecticides.

PACKAGING

- 2x2.5 gal
- 275 gal

ACRE MATCHMAKER





AVAILABILITY

Mineralizes potassium more efficiently allowing for enhanced pod fill.

IRON UPTAKE

Bacteria within Nutriquire + Terrasym produce siderophores which bind iron and concentrate it in the root zone as a plant available form.

IDC TOLERANCE

Minimizes the impact of iron deficiency in the plant by allowing for greater iron uptake. Data shows average of 19.4% increase in the leaf tissue compared to the control.





Nutriquire + Terrasym is a synergistic combination of spore forming microbials and siderophores applied in the planter box providing ease of use, improved plant nutrient uptake and ROI.

FOR USE ON

CORN I SOYBEANS

KEY BENEFITS

- Improved soil nutrient uptake
- Allows for greater iron and maganese uptake
- Provides protection around the seed through competitive exclusion





APPLICATION RATE

0.5 oz/Unit of Seed

Step 1

Remove provided scoop from packaging

Step 2

- Using the scoop and application rates listed sprinkle Nutriquire + Terrasym into the individual/single row unit and stir gently for uniform seed coverage
- Apply one half (½) scoop for every one (1) unit of seed.

BULK APPLICATION

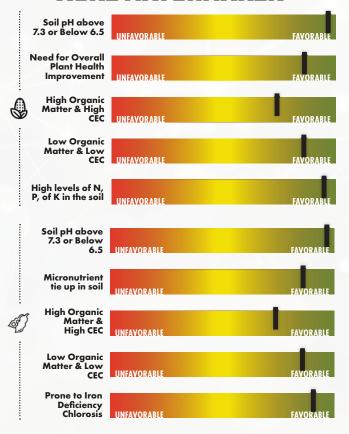
- Mix product into recommended units of seed, alternating between pouring seed and product for uniform seed coverage.
- For Bulk Application use scoop to sprinkle powder on seed into large black "Pro-Box" and mix in before putting seed in tender.
- Or apply in "seed pool" at the base of the auger when seed is moving up into planter.

PACKAGING

Corn; 8 x 12.5 oz

Soybeans; 6 x 20 oz.

ACRE MATCHMAKER





IMPROVED EAR FILL

Microbes help improve nutrient uptake throughout the entire season leading to improved ear fill.

IMPROVED SOIL NUTRIENT UPTAKE

Microbes within
Nutriquire + Terrasym
release enzymes that
attach to micronutrients
and deliver to the plant.

CROP STRESS MITIGATION

Utilizes nutrients and water more efficiently allowing the plant to continue to operate despite difficult growing conditions.

SEED FLOWABILITY

Provides a cleaner, safer lubrication and improved singulation compared to talc/graphite.



BALANCED PERFORMANCE FROM SEED TO HARVEST WITH OMNISMO

PLANT GROWTH SUPPORT

OmniSync improves nutrient uptake and soil biology which supports plant growth, leading to yield increases.

OPTIMAL START

As a dry planter box treatment that contains a variety of micronutrients, OmniSync provides supplemental nutrition for an optimal start.

BIOFERTILIZER

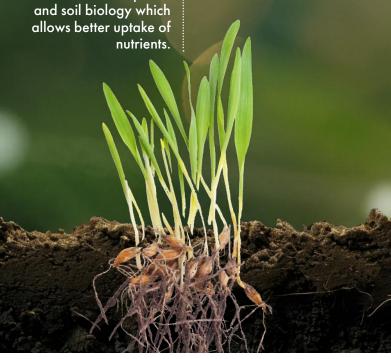
OmniSync's key
bacteria and fungi
work as biofertilizers
that fix nitrogen, unlock
phosphorus, and create
better root development
and soil biology which
allows better uptake of
nutrients.

PLANT DEFENSE

Beauveria bassiana is a specific strain of fungi found in OmniSync that colonizes systemically. This serves as a defense mechanism against disease and various insect pests.

IMPROVED NUTRIENT & WATER UPTAKE

The mycorrhizal fungus grows as a vast web of tiny filaments in plant roots and the surrounding soil. The fungal threads, called mycelia, explore a larger area than the plant roots allowing the plant to naturally improve the ability for water and nutrient uptake.





OmniSync is designed to put all aspects of your small grain crop into balance from start to finish using micronutrients, fungi, beneficial bacteria, and seed lubricant.

FOR USE ON SMALL GRAINS

KEY BENEFITS

- Enhanced nutrient and water uptake
- Increased pest resistance
- Key bacteria that fix nitrogen and unlock phosphorus





MICRONUTRIENT PACKAGE

Plays a vital role in plant development in order to produce more yield



BEAUVERIA BASSIANA

This beneficial fungi grows throughout the plant defending against various insect pressure



Improves the ability to absorb nutrients and water more efficiently assisting with overall drought resistance



NITROGEN GENERATING BACTERIA

OmniSync's key bacteria work as biofertilizers

ACRE MATCHMAKER



*Due to the complexity of this product, there are not many low response situations that OmniSync will not serve as a benefit

APPLICATION RATE

2 oz/50 lb. of seed

METHODS OF APPLICATION

• Similar to other seed lubricants, mix OmniSync evenly with seeds when filling the planter box using a grain auger or directly in the hopper or other container.

PACKAGING

• 320 oz. pail

FROM THE FIELD





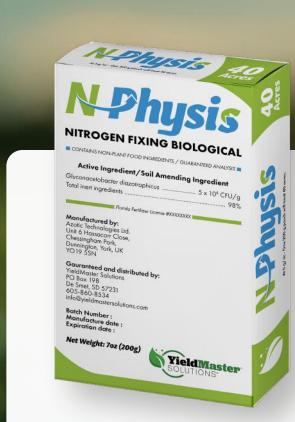
NUTRIQUIRE + TERRASYM











N-Physis is a wettable granular, nitrogen fixing bacteria, that allows a sustainable source of nitrogen to be available to the plant from application through harvest. By penetrating the cell wall, N-Physis can colonize within the plant cell while capturing nitrogen from the air around it and delivering it to the crop where and when it is needed. N-Physis works to provide additional nitrogen needed by the plant to meet your desired yields.

FOR USE ON

CORN I SOYBEANS I WHEAT ALFALFA I CANOLA I SUGAR BEETS POTATOES I COTTON & MORE



KEY BENEFITS

- Captures atmospheric nitrogen from both above and below ground
- Allows another pathway for the plant to receive nitrogen in wet or dry conditions
- Repopulates throughout the plant from root tip to leaf tip

APPLICATION RATE

Application rates may vary.

Foliar / In-Furrow Application

• One 200-gram pouch will treat 40 acres at 5 grams/ac (0.175 oz./acre). Apply within a minimum of 10 gal. of water/acre

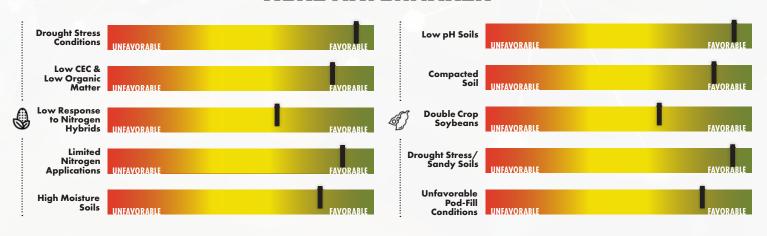
SUGGESTED APPLICATION RATES

- In-furrow rates vary from 5-7 grams/acre. (0.175 0.24 oz./acre)
- Foliar rates vary from 5-20 grams/acre. (0.175 0.70 oz./acre)
- Application rates are based on specific crop and soil needs, management objectives, and/or environmental conditions. Consult a technical representative for specific recommendations

PACKAGING

• 7 oz. (200 g)

ACRE MATCHMAKER



SEASON-LONG NITROGEN FIXATION WITH EN ITC

SEASON-LONG MODE OF ACTION

Bacteria create vesicles within the cells which capture atmospheric nitrogen providing seasonlong nitrogen nourishment.

WEATHERPROOF NITROGEN

When nitrogen is lost to the environment through leaching, denitrification, volatility, or is simply not accessible due to drought conditions, Envita is there to deliver nitrogen where and when it's needed all season long.

BACTERIA ARE QUICK TO COLONIZE

With foliar application, Envita enters through the leaf stomata and into the plant cells. From there, the bacteria quickly begin to colonize and translocate throughout the plant.

TRANSLOCATES & REPLICATES

In-furrow application allows Envita bacteria to enter through the root zone where it translocates and replicates throughout the plant. The bacteria begin colonizing and capturing atmospheric nitrogen.





N-fixing bacteria that works from within the plant, applied in-furrow OR foliar, and across crops to supplement nitrogen where and when it's needed.

KEY BENEFITS

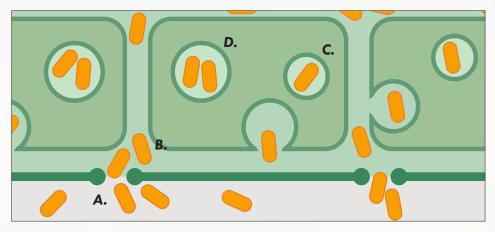
- Works within the plant all season long!
- Works throughout the entire plant to supplement nitrogen where & when it's needed
- Easy to tank mix and apply in-furrow or foliar
- Backed by a performance guarantee

FOR USE ON

CORN I SOYBEANS I WHEAT ALFALFA I CANOLA I SUGAR BEETS POTATOES I COTTON & MORE



HOW ENVITA WORKS



- **A.** Envita enters the plant through the root zone (in-furrow application) or leaf stomata (foliar application)
- B. Envita bacteria work their way into the plant cell and colonize within the actual cell
- **C.** Envita bacteria create 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

APPLICATION RATE

In-furrow:

• 0.8 oz/acre

Foliar:

• 0.8 oz/acre

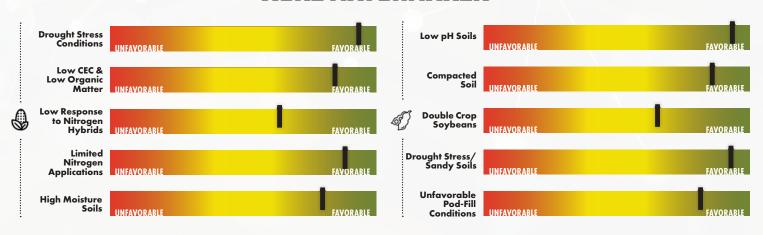
METHODS OF APPLICATION

- For best results apply Envita within 4-6 hours of mixing
- The amount of time Envita is tank mixed with pesticides is critical to the success of the product.
- Apply Envita first thing in the morning when the stomata are open but before drying time is accelerated or later afternoon after the heat of the day has decreased but before evening when the stomata are closed.
- · Avoid applying during high heat

PACKAGING

4x32 oz

ACRE MATCHMAKER



TAKE YOUR YIELD TO THE NEXT BRANCH WITH SOYEX

INCREASED FLOWERS & PODS

Additional branching leads to more flowers and pods. With proper moisture and fertility this leads to higher yield.

STRESS MITIGATION

Specific strains of microbes within Soy_{fx} modulate pH throughout the day reducing plant stress and ethylene production.

ADDITIONAL BRANCHING

Specially identified microbes within Soyfx activate the lower axillary buds encouraging the development of more branches. This attribute also aids in recovery after a hail event.





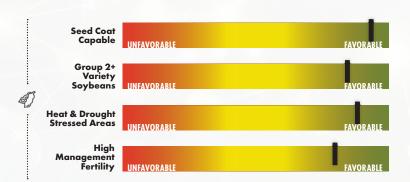


Soy_{fx} ™ is a specific/unique combination of identified and tested microbials that elicit a positive crop response. Soy_{fx} unlocks the plant's ability to produce growth regulators and metabolites that enhance production through biosynthetic pathway efficiencies. This leads to more branching per plant, increased flowers and pods, increased nodulation, and overall reduced plant stress.

KEY BENEFITS

- More branching per plant
- Increase in flowers and pods
- Increased nodulation
- Reduced plant stress
- Aids in hail damage recovery

ACRE MATCHMAKER



APPLICATION RATE

Seed:

• 2 ounces per CWT seeds via seed treater

In-furrow:

• 16 fl. oz. per acre with a minimum of 5 GPA rate

Foliar:

• 16 fl. oz. per acre with 10 to 20 gallons water

METHODS OF APPLICATION

- Preplant with water or other compatible biologicals.
- Post applied with water and/or other compatible tank mix partners 2-6 leaf.

PACKAGING

- Seed coat: 4 X 120 oz
- Foliar/In-furrow: 2 x 2.5 gal



FROM THE FIELD



SOY_{FX}





ENVITA



MAXIMIZE YOUR MANURE VALUE WITH NUTIPH!

HOW NUTRIPHI WORKS

NutriPhi contains specialized carbon digesting bacteria designed to dissolve as well as suspend solid manure and spreads nutrient accumulations evenly throughout the pit or lagoon

Nitrogen fixing bacteria contained within NutriPhi have the ability to convert a portion of this nitrogen to a more stabilized form resulting in less off gassing and higher nitrogen levels in the manure

NutriPhi bacteria digest down the crust, resulting in a lack of surface area for flies to lay larvae

IN FIELD BENEFITS

NutriPhi treated manure has a higher nitrogen content vs untreated manure NutriPhi bacteria convert N,P and K to more plant usable forms faster

NutriPhi manure is loaded with carbon digesting, nitrogen fixing, and phosphorus solubilizing bacteria which benefit the next crop



NutriPhi is designed for beef, dairy, and hog operations to help manage biosolids, reduce run-off, and diminish harmful odors in barns, houses, and lagoons. In row crops, NutriPhi is used to promote efficient breakdown of crop residue.

FOR USE ON

LAGOON/MANURE PIT CROP RESIDUE



KEY BENEFITS

- Enhances nutrient value of manure
- Digestion of sludge & crust
- Improved air quality of confinement buildings
- Reduces agitation time & cost
- Accelerates digestion of plant residue in field
- Improves in-field nutrient-cycling process

PACKAGING

- 2x2.5 gal
- 275gal tote

APPLICATION

SWINE			
Size of Herd	Application/ Month	Total Gal/Year	
2,400	2.5 gal	30 gal	

Swine Manure

- 2.5 Gallons per 2,400 head hog building monthly
- Apply each month that you have missed since pump-out as a shock treatment
- Apply product directly to sections of the hog barn that have the highest solids accumulation
- Begin program with a minimum of 3 months remaining until pump-out

	DAIRY	
100	2.5 gal	30 gal
500	12.5 gal	150 gal
1,000	25 gal	300 gal

Beef & Dairy Manure

- See chart for application rates
- Apply concentrate product during months when the lagoon is not frozen
- If the lagoon freezes and applications are missed during the winter months, apply the missed amount of product in spring as a shock treatment
- Begin program with a minimum of 3 months remaining until pump-out.
- Do not apply in dairy washout systems that contain concentrated amounts of anti-bacterial

	BEEF	
100	10 gal	120 gal
500	50 gal	600 gal
1,000	100 gal	1,200 gal

Crop Residue

- \bullet 1 2 quarts per acre applied directly to residue with a minimum of 15 gallons of water per acre for coverage
- Apply as soon after harvest as possible.
- Can also be applied during spring burn-down programs.

FROM THE FIELD







Terrasym450TM + DUSTTM + TS201TM

MORE COVERAGE

The DUST carrier provides 10x more live cells per seed compared to traditional product applications

IMPROVED SOIL

Nutrient Uptake Microbes within Terrasym450 + DUST + TS201 release siderophores that attach to the micronutrients and deliver to the plant

PROMOTES INDUCED SYSTEMIC RESISTANCE

Terrasym 450 + DUST + TS201 triggers a mobile signal that turns on defense responses in the plant that provide protection from later insect infection

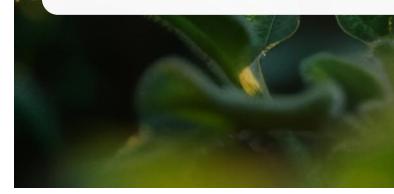
SEASON-LONG BIOCONTROL

Stimulates regrowth of insect damaged roots











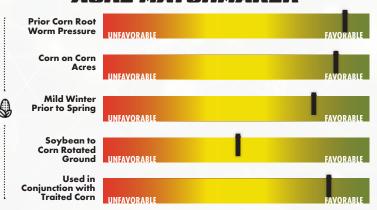
KEY BENEFITS

- Triggers the plant's Induced Systemic Resistance (ISR) leading to increased insect protection
- · Season long bio-control protection
- TS201 is an EPA registered biological insecticide
- Can be combined with other traits, chemistries, and seed treatments
- · Stimulates aggressive root regrowth at site of insect damage
- · Improves nutrient use efficiency

PACKAGING

- Corn 25 oz. Package
- One package treats 50 units of corn seed

ACRE MATCHMAKER



APPLICATION RATE

0.5 oz per unit of seed

Individual/Single Row Units

Step 1

Remove provided scoop from packaging

Step 2

Mix smaller TS201 pouch into larger Terrasym 450 + DUST package, reseal package and shake vigorously by rotating bag in every direction

Step 3

Using the scoop and application rates listed sprinkle Terrasym 450 + DUST + TS201 into the individual/single row unit and stir gently for uniform seed coverage

Center Fill/Bulk Application

Step 1

Mix smaller TS201 pouch into larger Terrasym 450 + DUST package, reseal package and shake vigorously by rotating bag in every direction

Step 2

Mix product into recommended units of seed, alternating between pouring seed and product for uniform seed coverage

Step 3

For bulk application use scoop to sprinkle powder, or open bag and pour powder, on to the seed in the large black pro box making sure to evenly spread the powder across the whole top of the seed box to mix in prior to putting seed in the tender.

OR Apply in seed pool at the base of the auger when seed is moving up into planter





DUST is a new, innovative, patented product made to replace the grimy graphite/talc mix in the planter. DUST is a 100 percent renewable soy protein product. Microscopically, it has more round shapes than graphite and talc, which are materials that are milled out of the ground. DUST's round shapes provide lubricity for mechanical parts in meters and relief of static friction while making your seeds flow better through your planter. You will find it clean and safe to use.

FOR USE ON MULTI-CROP

KEY BENEFITS

- Replacement for talc & graphite in planter
- Made with 100% soy protein & lecithin
- Patented, microplastic-free, seed lubricant
- Used on 7 million+ acres per year on more than 20 different crops



Scan the QR Code for more details.

APPLICATION

0.5 oz per unit of seed

Methods of Application:

- Open container. Contents will settle in transport.
- Begin with 1 scoop of product per unit of seed (i.e. about 1 oz per unit of seed). Usage rates vary by planter type and size.
- Put lid back on container.
- Keep container closed and in a dry location. Treat the same way you use graphite/talc.

PACKAGING

- DUST Pail (7lb)
- DUST Pail (14lb)
- 1 Pounder

FROM THE FIELD





TERRASYM 450+ DUST + TS 201-

PRODUCT RECOMMENDATION CHART

	SOIL HEALTH & EFFICIENCY			LIVESTOCK
	Nutriquire	Nucleon Control of Con	OmniSync	NutriPhi,
Crop Stress Relief	•	> / (•	4
Soil Health	7/0-7	•	•	
Micronutrient Enhancement		•	•	•
Nitrogen Fixing			•	-/-/-
Phosphorous Solubilizer	•	•	•	•
Seed Treatment Option			7-	
Talc/Graphite Replacement		•	•	
Starter Tank Mix Option	•			
Fertilizer Enhancement	•	•	•	
Protein Enhancement	•	•	•	
Tonnage Increase	•	•		
Foliar Option	•			•
Planter Box Option		•	•	
Residue Management				•
Soil Compaction	•	•	•	
Manure Nutrient Enhancement	•	•		•

FERTILITY & NUTRIENT MANAGEMENT		SPECIALTY		
NEROEN FIXED BIOLOGICAL And the Septiment of the Annual Septiment of the	Ritrogen fixing biological Section with the development of the control of the co	AGROVIVE SOYE SOYBEANS	Magnetic Action of the Control of th	Electric desired and the second secon
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