

ONE BRAND. **YOUR GOALS.** OUR PARTNERSHIP

PROVEN. PURPOSE
DRIVEN. BRAND

 **REDSTAR**



Our Story **FROM SEEDS TO SUCCESS**

We both come from farming families in the heart of Leigh, Nebraska. In the early spring of 2004, we took a leap into the unknown by establishing a seed corn and soybean operation. Despite initial reservations about our busy lives and commitments to the family farm, our ambition led us to launch Ryan Mullenhoff Seeds, believing it would be a brief chapter in our lives. Instead, this venture quickly became the foundation for our future.

Within five years, we expanded our offerings to include fertilizers and additional products and services, prompting a name change to Ryan Mullenhoff Sales, LLC. This evolution positioned us as a full-service agricultural dealership, allowing us to brand our line of fertilizers, REDSTAR FERTILIZER, and develop a comprehensive portfolio of products under the REDSTAR BRANDED label.

Renowned for our dedication to customer service, community engagement, and 24/7 availability, we have built strong partnerships within the farming community over the past 22 seasons, establishing ourselves as a competitive force in the agricultural sector. Our growth and diversification culminated in a rebranding in 2020, when we proudly became REDSTAR, LLC. This name was chosen out of our love for all things red and the realization that what began as one red star in a small county in Nebraska has now grown into a prominent presence across eleven states. It reflects both our passion and our journey, symbolizing our commitment to supporting growers far beyond our original roots.

Owners
RYAN & KRISTIN MULLENHOFF

WORK TOGETHER
SUCCEED TOGETHER

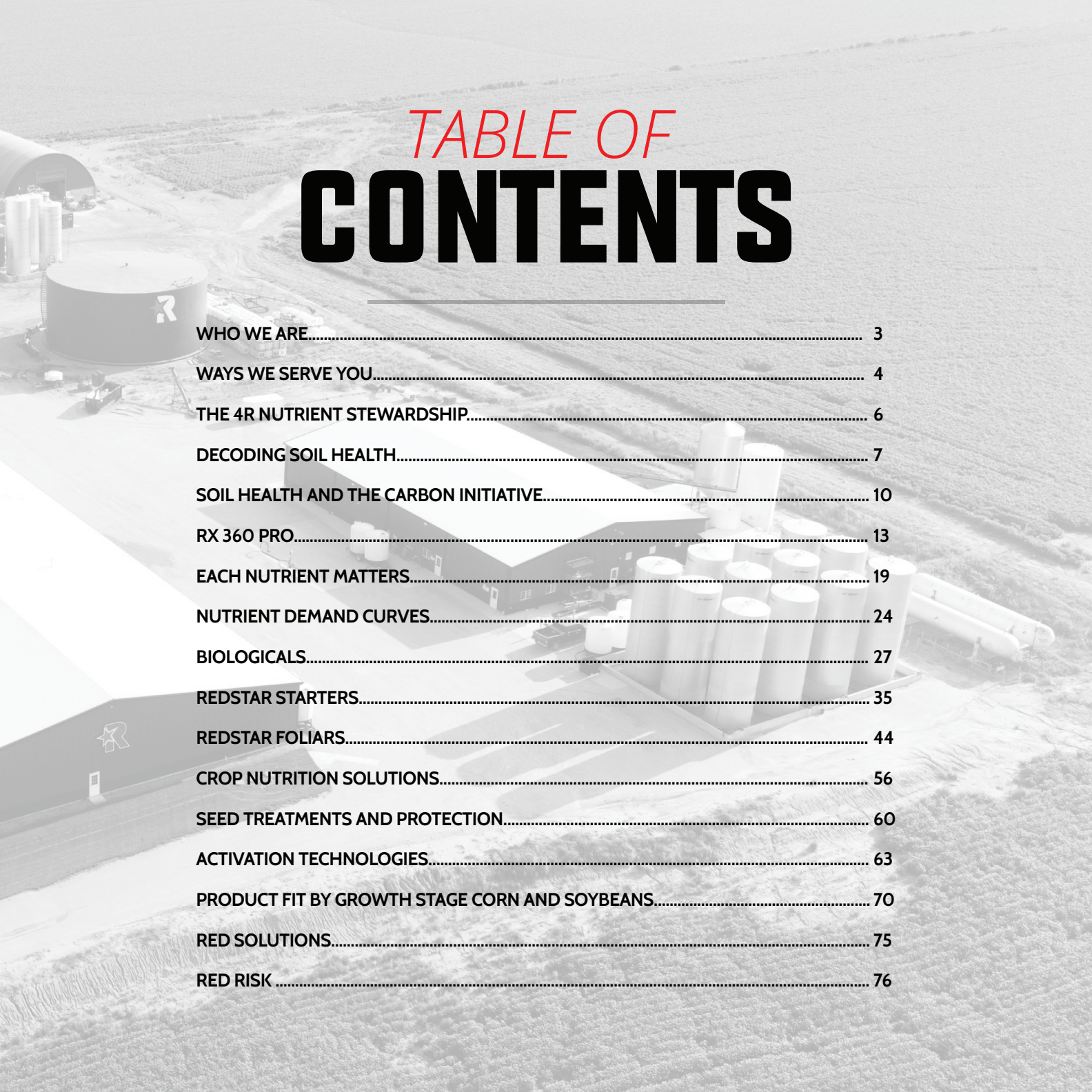


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WELCOME TO **REDSTAR** **BRANDED**

WHO WE ARE

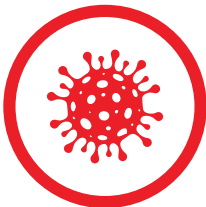
REDSTAR BRANDED represents a unique collection of products and services exclusive to REDSTAR, LLC. We are committed to serving our agricultural producers while leading them in their crop production plans throughout the entire growing cycle. Our purpose is to help growers be successful by providing proven products and services that meet or exceed their expectations. Our greatest intent is to build lasting relationships with our customers, our most valuable asset.

WHAT WE DO

REDSTAR has set itself apart by simply being different. As a company REDSTAR BRANDED embraces change, while remaining focused and driven towards the goals of the company. We understand that the same old way may not be the best way and are willing to think outside the box. As an innovative company we continue to dream big while remaining grounded and realistic. If there's a way to do it better, we will find it. Always planning and preparing for the success of our growers, for now and in the future.

REDSTAR BRANDED has stood the test of time in this competitive industry, breeding growth and success from forward-thinking and finding ways to create, build, and deliver products and services better than the competition.

WAYS WE SERVE YOU



BIOLOGICALS



**SEED
TREATMENT**



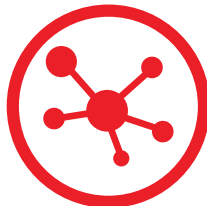
**LIQUID
STARTERS**



MICRONUTRIENTS



**FOLIAR
FERTILIZER**



AMINO ACIDS



ADJUVANTS



RX 360

AND MUCH MORE...

ARE YOU
 **REDSTAR**
READY?

FOUR STAR CHALLENGE

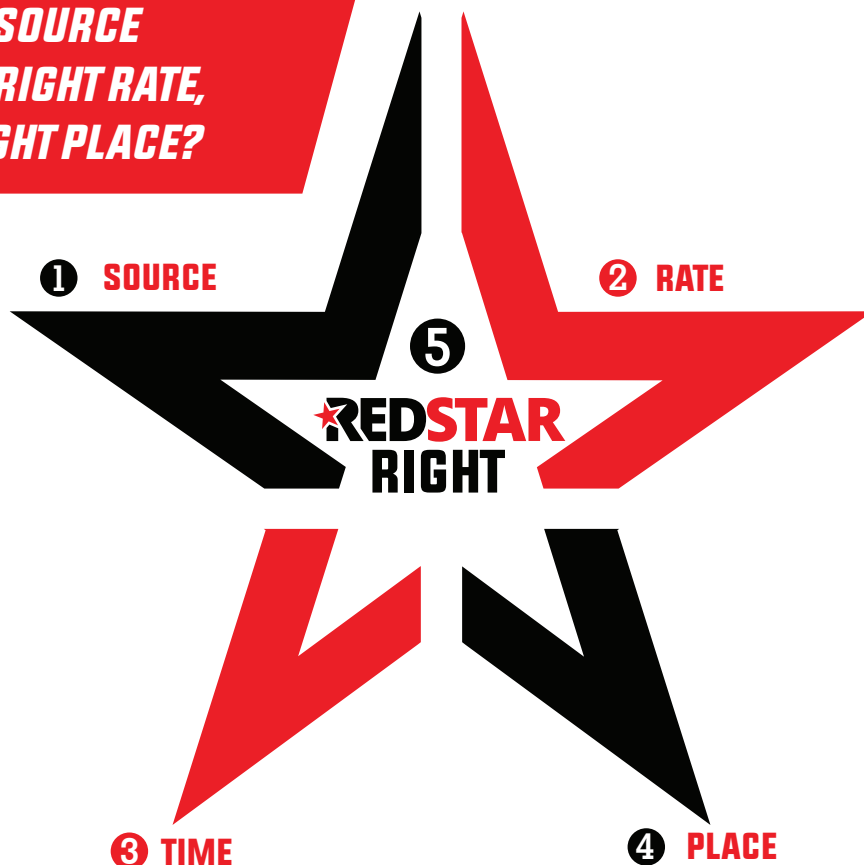
Was the ***RIGHT FERTILIZER SOURCE***
given to the crop at the ***RIGHT RATE,***
RIGHT TIME, and in the ***RIGHT PLACE?***

1 SOURCE
Right Source matches
fertilizer type to the crop needs.

2 RATE
Right Rate matches amount
of fertilizer type the crop needs.

3 TIME
Right Time makes nutrients
available when crops need
them.

4 PLACE
Right Place keeps nutrients
where crops can use them.



The guidelines for 4R principles are endorsed and supported by the International Plant Nutrition Institute, The Fertilizer Institute, The Canadian Fertilizer Institute, and the International Fertilizer Industry Association. Learn more nutrientstewardship.com



DECODING
SOIL HEALTH



UNDERSTANDING CATION EXCHANGE CAPACITY & SOIL BASE SATURATION

FOR IMPROVED SOIL TEST INTERPRETATION

The Soil Cation Exchange Capacity (CEC) is a measure of the soil's capacity to hold and release positively charged elements (K^+ , Ca^{++} , Mg^{++} , H^+ , Na^+). It is a measure of the soil's net negative charge. The more negative charges a soil has the more cations it can hold/exchange. It can be analogous to the size of a fuel tank. Soils with a low CEC are considered to have a lower capacity to feed a crop (a smaller fuel tank), and thus require more management (spoon feeding) to attain a given yield goal.

The Soil Base Saturation is a measure of the exchangeable cations (K^+ , Ca^{++} , Mg^{++} , H^+ , Na^+) attached to the negative sites on the soil. The total base saturation cannot exceed 100%. If a cation is added then some other cation must be removed or displaced.

An ideal proportion of cations in soil will vary somewhat, depending on the soil texture and crop to be grown. In general, for optimum yield and quality, we prefer to have a base saturation distribution of 5-7% K, 10-15% Mg, 60-70% Ca, less than 0.1% Na, with the remainder as Hydrogen (Anion). Some soil tests do not report Hydrogen content, it is assumed to be the remainder.

While the percentage of base saturation is an indication of a balanced soil, it is still important to recognize that there is a minimum requirement in pounds of nutrients. As we continue to push for higher yields these values will likely change as we gain more information about soil DNA analysis and soil carbon testing such as the Haney Test. These foundational agronomic ratios continue to help growers today improve their overall soil health and yield improvement.

KEY NUTRIENT RATIOS FOR YOUR FARM

- < We want the Mg% to be 2X-4X the K%. (soil type matters)
- < We want the Ca% to be six to seven times the Mg%. (sandy soils, we want it to be lower)
- < When the sum of Ca% + Mg% is greater than 80 then there is less room for K.
- < When Magnesium gets above 18-20% base saturation, Nitrogen efficiency goes to 1.5 lbs. of N / bushel of corn.
- < Dividing the Ca% / Mg% will give a reasonable indication of soil tilth (compaction) rating.
Values above 8 indicate a risk of Mg and K deficiency and often have high sodium issues.
Values between 5 and 7 will be non-compacted/well-drained.
Values between 3 and 5 are intermediately well drained.
Values below 3 are poorly drained/compacted soils.
- < Compacted soils restrict root volume and access to K and P.

A soil with Ca% + Mg% equal to or greater than 80 will likely be extremely hard to build potassium levels considering that the mono-valent charge of K⁺ is weaker than the di-valent charges of Ca⁺⁺ or Mg⁺⁺. We prefer not to apply fall K to these soils due to the poor retention of K and possible leaching.

UNDERSTANDING SOIL CHEMISTRY FOR ENHANCED CROP YIELDS

Grasping the chemistry and physics of soil is essential for maximizing nutrient availability, improving soil structure, and boosting yields. To achieve consistent, high yields, start with a comprehensive soil test that evaluates all macronutrients, micronutrients, and base saturations. Coupling these tests with multi-year yield maps will empower your agronomist to develop targeted strategies for your farm.

One critical step before investing in fertilizers is ensuring optimal soil pH. Low pH can severely hinder nutrient extraction, even in otherwise fertile soils, leading to inefficient fertilizer use. Success begins with knowledge and collaboration. Build a dedicated team that shares your passion for understanding soil dynamics, helping your crops reach their full potential year after year.

SOIL HEALTH
AND THE
CARBON INITIATIVE



IMPROVING **SOIL HEALTH** **REVITALIZING SOIL CARBON FOR LONG-TERM FERTILITY & PROFITABILITY**

REIMAGINING SOIL HEALTH FOR A SUSTAINABLE FUTURE

In an era where agricultural technology advances at lightning speed, our approach to soil health and fertility seems stuck in the past. More and more growers are discovering that true soil vitality goes far beyond just nitrogen (N), phosphorus (P), and potassium (K). The key to unlocking our soil's full potential is to rethink how we farm.

For too long, we've viewed soil as merely a nutrient bank, a place to withdraw resources for our crops. It's time to see soil as a mutual fund, an investment that, with the right deposits and wise decisions, yields returns far greater than what we put in. By nurturing our soil with smart practices today, we can unlock its potential to deliver sustainable growth and bountiful harvests for the future.

RESTORING NATURE'S BALANCE

For thousands of years, soil functioned as part of a closed loop ecosystem where nutrients cycled back into the earth. But modern farming has disrupted this balance. To restore it, we must feed not only our crops but also the soil itself.

When we provide our plants with the right nutrients in the correct form and at the optimal rates, they become more efficient. As their roots grow stronger, they release more exudates and sugars into the soil, feeding beneficial microbes that, in turn, unlock even more nutrients for the plant. This cycle of feeding the plants and revitalizing the soil lays the foundation for long-term soil health and productivity.

CULTIVATING CARBON-RICH SOILS

Once we focus on feeding the crops, we can then turn our attention to nourishing the soil itself. In typical corn and soybean crop rotations, our soils are carbon-positive for only 4 out of 24 months. In contrast, natural systems are carbon positive for up to 16 out of 24 months. By introducing diverse cover crops and maintaining live roots in the soil throughout the year, we can increase root exudates and sugars, helping to rebuild soil carbon. Implementing practices like reduced tillage, cover cropping, and precision nitrogen application can prevent carbon loss and create a healthier, more resilient soil ecosystem.

Building soil carbon fosters a thriving community of soil microbiology, enhancing biodiversity and nutrient cycling. The greater the biodiversity in your soil, the more nutrients you unlock, leading to healthier crops and higher yields. This cycle of feeding plants and soil helps sustain soil health and maximize agricultural productivity.

REVITALIZING SOIL CARBON FOR LONG-TERM FERTILITY AND PROFITABILITY

Our range of REDSTAR soil amendment and nutrient efficiency products are specifically designed to enhance carbon levels, nutrient availability, and crop nutrition. These innovations will help you transform your soil, maximizing your farm's true potential.

BENEFITS

- < Greater plant health, nutrient, and water uptake
- < Enhanced crop yields and quality
- < Improved soil carbon levels
- < Increased efficiency of soil-applied fertilizers

THE HANEY TEST: UNLOCKING SOIL SECRETS

The Haney Test utilizes a chemical very similar to root exudates to show the levels of plant available nutrients. To get a clear picture of your soil's health, consider using a Haney Test. Unlike standard soil tests, the Haney Test measures the biological activity in the soil and the amount of plant-available nutrients. It provides insights into nutrient dynamics that can help you make better informed decisions about nutrient management, improving efficiency and effectiveness in your crop production.

After improving soil carbon levels and microbial activity, the next step is to focus on balancing soil nutrients. Nutrient management isn't just about how much you add to the soil but ensuring the correct ratios for optimal plant growth. A balanced nutrient profile enhances the efficiency of key elements like N, P, and K. By combining in-season Haney Tests with tissue sampling, you can pinpoint your crop's specific nutrient needs and address limiting factors more precisely.

BUILDING A LEGACY OF HEALTHY SOILS

Soil health is not a quick fix; it's a long-term commitment. It has taken years to degrade our soils, and it will take time to rebuild them. Start by making small, targeted changes each year, and watch as these adjustments compound into significant improvements over several growing seasons.

REDSTAR'S line of microbials, enzyme proteins, and carbon products are designed to boost the availability of nutrients to your crops. These products have been rigorously tested to ensure they deliver results, helping you cultivate healthier soils and higher yields season after season.



RISK-BASE CROP PLANNING

360 PRO

| **360 PRO**

THE COMPLETE PHYSICAL, CHEMICAL, & BIOLOGICAL ANALYSIS FOR YOUR FIELD

TAKING THE GUESSWORK OUT OF AGRONOMY

Agronomy is equal parts science and intuition, where every decision hinges on knowledge and experience. At REDSTAR, we believe that better information leads to better choices. By harnessing the latest advances in DNA testing, we're transforming agronomy by replacing uncertainty with precision, empowering you to make the most informed decisions possible.

EVERY CROP DECISION COUNTS

Whether you're tackling foliar disease, managing insect pressure, or fine tuning soil fertility each choice shapes your farm's yield potential. That's where REDSTAR RX360 comes in. Our innovative solution digs deep into your field's unique conditions, uncovering hidden yield barriers and pinpointing the next steps to push past your ceiling. With RX360, you're not just managing crops, you're unlocking your farm's full potential.

DIG DEEPER INTO SOIL FERTILITY

RX360 combines proven agronomic practices with cutting-edge technology to deliver a comprehensive understanding of soil fertility. Using grid sampling at a high density every 0.8 acres we can precisely map nutrient levels across your field. Tired of the limitations of traditional 2.5-acre grids? The RX360 PRO takes it to the next level, offering data at 100 times the density of standard methods. This granular insight allows for more precise Variable Rate Technology (VRT) recommendations, giving your crops exactly what they need, where they need it.

UNCOVER HIDDEN YIELD ROBBERS

Your fields are constantly under threat from soil-borne diseases and pests, from Fusarium and Sudden Death Syndrome to Corn Rootworm and Soybean Cyst Nematode. RX360 identifies these hidden yield robbers before they strike, providing data driven insights to build a tailored defense strategy for each growing season. This proactive approach means you can stop guessing and start making decisions with confidence.

UNLOCK THE POWER OF BIOFERTILITY

RX360 also shines a light on the secret life of your soil by measuring key biofertility factors, such as phosphorus solubilization, soybean nitrogen fixation, and the presence of beneficial mycorrhizal fungi. Armed with this knowledge, you can make more informed investments to enhance soil health and nutrient availability, boosting your crop's resilience and productivity.

TACKLE COMPACTION WITH PRECISION

Soil compaction is an invisible enemy that limits root growth and, ultimately, your yield. Traditional tillage approaches can be hit or miss, treating the entire field the same way. With RX360's Till Mapper, you can see compaction like never before, down to 18 inches deep, and create precise VRT tillage scripts tailored to your specific needs. This advanced tool helps you build a targeted plan to eliminate compaction and ensure your crop's roots have the best possible environment to thrive.

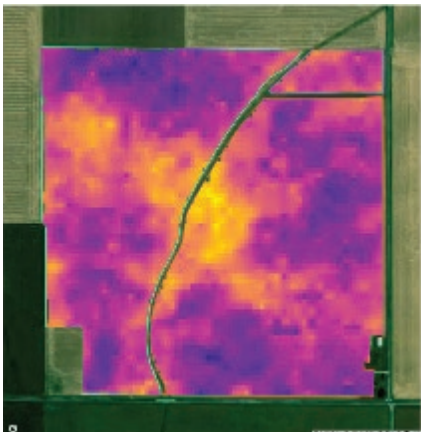
TAKE CONTROL OF YOUR CROP'S FUTURE

Why keep relying on guesswork when you can have clear, actionable data? With REDSTAR'S RX360, you gain the power to make every decision count, breaking through barriers and driving your farm's success to new heights. Start transforming your agronomy approach today.

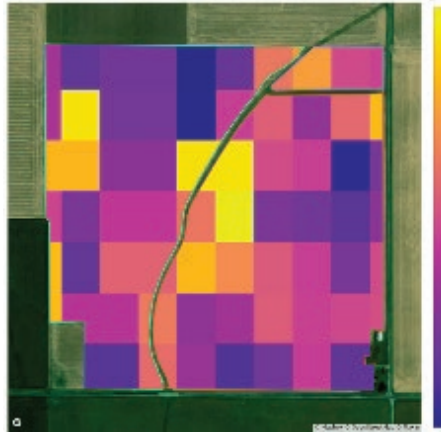
HIGH RESOLUTION NUTRIENT

NutrientMapper™ gives you unmatched resolution for your field's nutrients. Here's an example of 360 PRO compared to a standard 2.5 acre grid analysis testing phosphorus in this field.

THE 360 PRO ANALYSIS

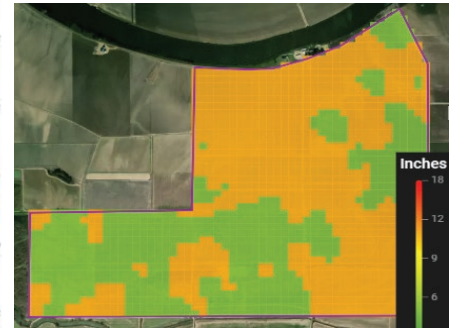


2.5-ACRE GRID ANALYSIS



TILLMAPPER™

Don't lose yield due to compaction issues. Identify trouble spots in your field before you plant.



360 PRO

COMPLETE BIO BIOLOGICAL

- Below-ground pests & diseases
- Foliar diseases
- Key biofertility measures

Crop plan based on opportunities and threats.

NUTRIENTMAPPER™ CHEMISTRY-BASED FERTILITY

MACRO: P, K, Ca, Mg (add-on N)

MICRO: B, Cu, Fe, Mn, S, Zn

PROPERTIES: pH, BpH, OM,
CEC Built-in Nutrient Rx

10x10 Meter grid = 100x
the resolution of a 2.5 acre grid.

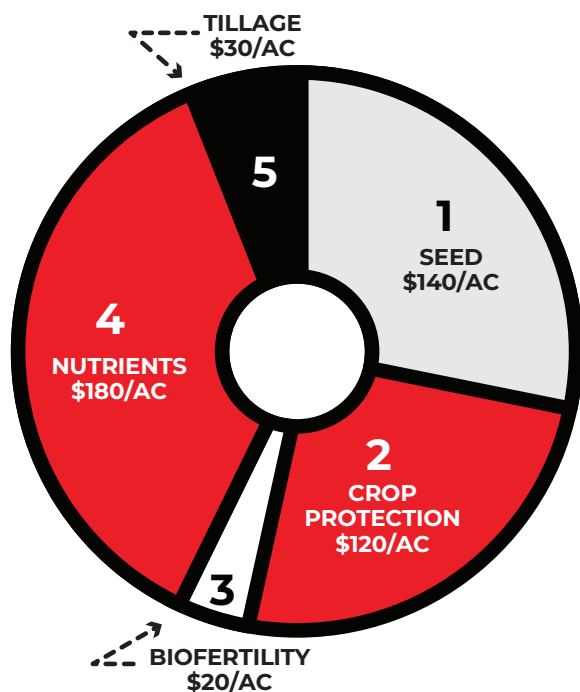
+ TILLMAPPER™

TILLMAPPER™ PHYSICAL

- Compaction Map: 10x10M
- 0-18" depth: Layer for each inch
- Built in tillage prescription

TillMapper™ is exclusive to EarthOptics.

PLAN YOUR MOST IMPORTANT INPUT SPEND



- 1** Seed: Match the seed to the field.
- 2** Crop Protection: Protect the yield potential.
- 3** Biofertility: Find the next 10-20 bushels.
- 4** Nutrients: Super-charge sub-field fertility planning.
- 5** Tillage: Address a field's physical limit.

UP TO
\$100+
INPUT
OPTIMIZATION

INCREASE OF
20+
BU/AC WITH
BIOFERTILITY

TEST ACCURACY
+90%

CROPS



CORN



SOYBEANS



COTTON



WHEAT



SUGAR BEETS

THE HANEY SOIL TEST

A MODERN TOOL FOR SMARTER FERTILITY DECISIONS

WHAT IS THE HANEY TEST?

The Haney Soil Test is an advanced soil health evaluation that goes beyond traditional soil testing. While conventional tests only measure chemical nutrients like phosphorus (P), potassium (K), pH, and organic matter, the Haney Test integrates soil biology, chemistry, and carbon dynamics to reflect how soils actually function in the field.

TEST ANALYZES

- < Soil Respiration: Measures CO₂ release as an indicator of microbial activity.
- < Water Extractable Carbon & Nitrogen: Shows the pool of nutrients available to microbes and plants.
- < Soil Health Score: Provides an overall measure of how well soil biology and chemistry are working together.
- < Available N, P, K & Micronutrients: Nutrient levels adjusted for biological activity, not just chemistry.

BOTTOM LINE

The Haney Soil Test gives growers a complete picture of soil function, not just what nutrients are present, but what is available to the crop. With this knowledge, farmers can make precise fertility decisions, improve profitability, and build long-term soil health.

360 PRO **AND HANEY TEST** **WORKING TOGETHER TO MAXIMIZE YOUR YIELD**

BENEFITS

- < Cross-validate data: Different tests might confirm or challenge findings, reducing errors from a single method's limitations.
- < Address blind spots: One test might miss key factors (e.g., physical structure or specific microbial groups) that another captures.
- < Optimize management: Combining insights enables precise fertilizer, cover crop, or tillage decisions, maximizing yield and soil health while minimizing costs. Track trends holistically: Multiple tests provide a broader baseline to monitor changes over time, revealing how practices impact various soil components.

A farmer should utilize REDSTAR RX 360 PRO and the Haney Soil Test simultaneously to unlock a synergistic, comprehensive view of soil health that drives higher yields and lower costs. Together, RX 360 and the Haney Test create a “flawless fusion,” enabling precise, data driven decisions such as targeted fertilizer applications, pest resistant crop choices, and tillage adjustments that help growers maximize production and limit unneeded nutrients or crop protection applications. Taking the guess work out of agronomy.

**EACH NUTRIENT
MATTERS**



IMPORTANCE OF THE **19 ESSENTIAL NUTRIENTS FOR CORN AND SOYBEANS**

The 19 essential nutrients including Carbon, Hydrogen, Oxygen, and Silicon form the foundation for maximizing growth, development, and yield in corn and soybeans.

Carbon, Hydrogen, and Oxygen make up the majority of plant tissue and serve as the structural and energetic backbone for all biological processes. Nitrogen, Phosphorus, and Potassium drive energy transfer, protein synthesis, and water regulation, while Calcium, Magnesium, and Sulfur strengthen plant structure and support chlorophyll and amino acid formation.

Micronutrients, Iron, Manganese, Zinc, Copper, Boron, Molybdenum, Nickel, and Cobalt play critical roles in enzyme activation, nitrogen fixation, and reproductive development. Silicon enhances stress tolerance, strengthens plant structure, and improves nutrient efficiency.

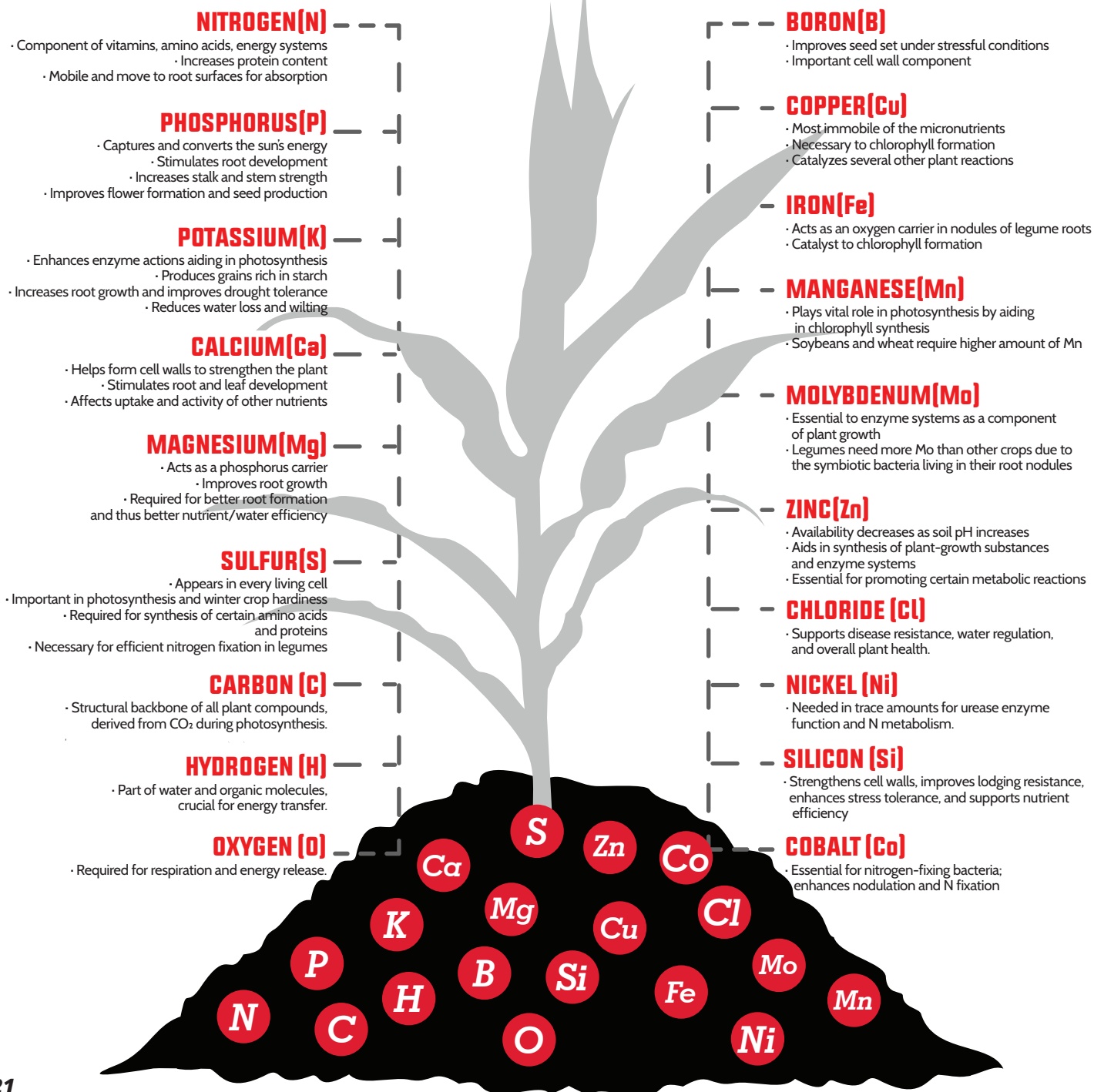
When all 19 nutrients are available in the proper balance and forms, corn and soybean plants can efficiently perform photosynthesis, nutrient assimilation, and reproduction leading to stronger plants, higher yields, and improved crop quality.

IMPORTANCE OF CARBON, HYDROGEN, AND OXYGEN

Carbon, Hydrogen, and Oxygen are the fundamental building blocks of plant life.

Carbon from atmospheric CO₂ fuels photosynthesis and forms the framework for carbohydrates, proteins, and lipids. Hydrogen and Oxygen, derived primarily from water, are essential for forming organic molecules and maintaining cell structure and turgor.

Together, these three elements drive energy production, biomass accumulation, and metabolic activity ensuring that corn and soybeans can grow vigorously, utilize nutrients efficiently, and reach their full yield potential.



AMINO ACIDS **AND** PLANT PEPTIDES MAXIMIZING CORN **&** SOYBEAN PRODUCTION

Corn and soybeans rely on 19 essential nutrients plus C, H, O for growth. Amino acids and plant peptides work in tandem with these nutrients to enhance yield, nutrient efficiency, and stress tolerance.

AMINO ACIDS: THE BUILDING BLOCKS

AMINO ACID	ROLE IN CORN & SOYBEANS
Glutamic Acid	Central in nitrogen metabolism; supports protein synthesis and vegetative growth.
Aspartic Acid	Precursor for essential amino acids; promotes root and seed development.
Alanine	Supports energy production under stress; enhances early vigor.
Arginine	Nitrogen storage/transport; boosts root development and stress tolerance.
Lysine	Supports protein formation and enzymatic reactions; improves seed quality.
Methionine	Sulfur-containing; aids seed development, protein formation, and stress response.
Cysteine	Sulfur-containing; enhances enzyme function and antioxidant activity.
Glycine	Precursor for chlorophyll and antioxidants; supports photosynthesis.
Proline	Osmoprotectant; stabilizes proteins under drought, heat, and salinity stress.
Threonine	Precursor for other amino acids; supports protein synthesis and seed quality.
Serine	Involved in cell membrane integrity and stress response.
Histidine	Chelates metals (Zn, Ni); improves micronutrient utilization.

IMPACT: Amino acids improve nitrogen use efficiency, protein synthesis, root growth, and stress resilience.

PLANT PEPTIDES: THE MANAGERS & SIGNALERS

- < Nutrient Uptake: Stimulate root growth, increase nutrient absorption and mobility, enhance fertilizer efficiency.
- < Stress Tolerance: Activate stress response pathways, maintain photosynthesis and growth under drought, heat, cold, or salinity.
- < Growth & Development: Regulate hormone signaling, cell division, and differentiation; improve canopy, root, and seed development.
- < Disease Resistance: Activate systemic resistance against pathogens, reducing yield losses.
- < Synergy with Amino Acids: Direct how efficiently plants use amino acids for protein synthesis and growth.

OUTCOME: Peptides optimize nutrient use, promote balanced growth, improve stress resilience, and increase yield and quality.

BRINGING CORN & SOYBEAN YIELDS TO RECORD LEVELS

GUIDANCE IN HOW TO MEET THE NUTRIENT REQUIREMENTS

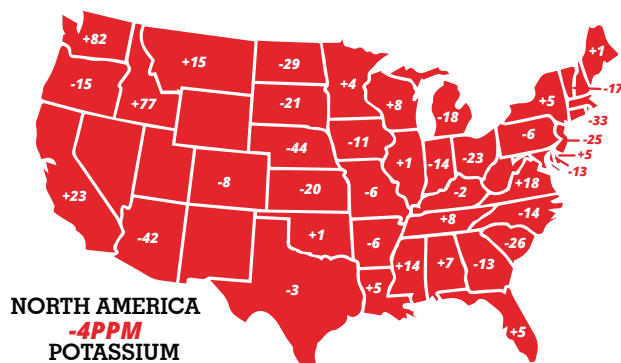
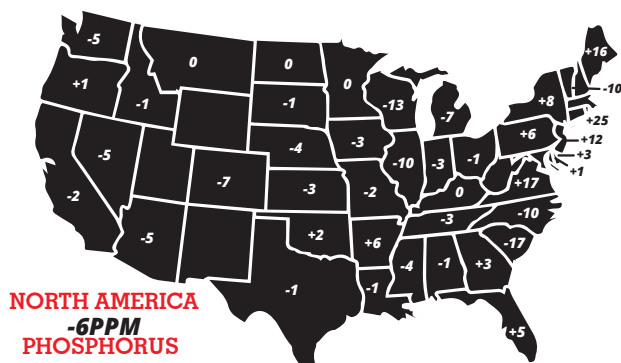
Over the past two decades, the rapid advancement of high-yielding corn hybrids has outpaced traditional nutrient management strategies, leaving many growers without the right guidance to meet these crops' increasing demands. As a result, our soils have struggled to keep up, leading to noticeable declines in essential nutrients such as phosphorus (P), potassium (K), sulfur (S), calcium (Ca), and zinc (Zn).

A study commissioned by Mosaic in 2005 and 2010 highlighted significant reductions in soil fertility, particularly for phosphorus and potassium. Recent tissue analyses from the past five years further confirm that nutrient deficiencies remain a critical challenge, affecting both plant health and crop performance. Even more concerning, levels of sulfur and zinc consistently fall below the ideal range, limiting the potential of these high-yield hybrids.

STRATEGIC NUTRIENT MANAGEMENT FOR MAXIMUM YIELDS

The key to unlocking the full potential of your crops lies in a deeper understanding of their specific nutrient needs, the interactions between different nutrients, and the precise timing of nutrient applications. By focusing on these factors, we can fine-tune our fertility programs to maximize your farm's yield potential.

At REDSTAR, we provide tailored nutrient management strategies that maximize your farm's potential. Utilizing cutting-edge technology, we analyze macro and micro-nutrient levels and monitor them throughout the season through tissue and sap analysis. With REDSTAR RX 360, we empower you to make informed decisions that boost yields, enhance soil health, and increase profitability.



**The following nutrient demand curves are examples of when the crop needs to have its nutrients available so it can maximize its growth and development.

WHY USE
**NUTRIENT
DEMAND CURVES**

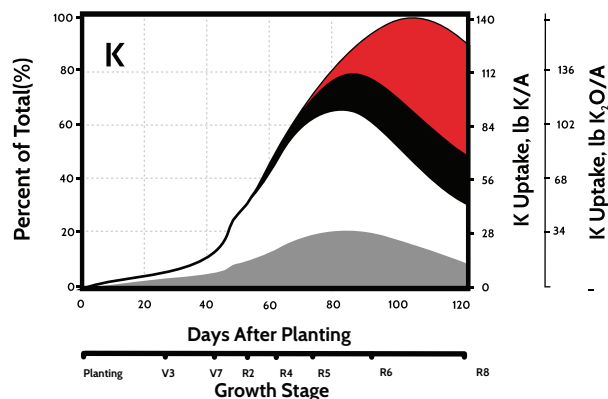
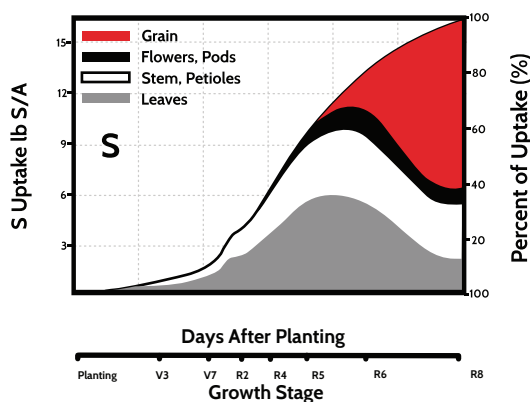
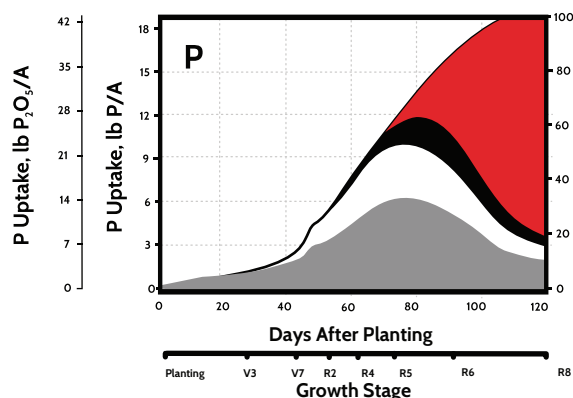
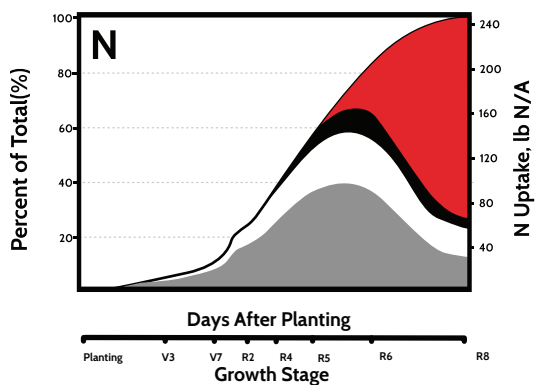


DEMAND CURVES

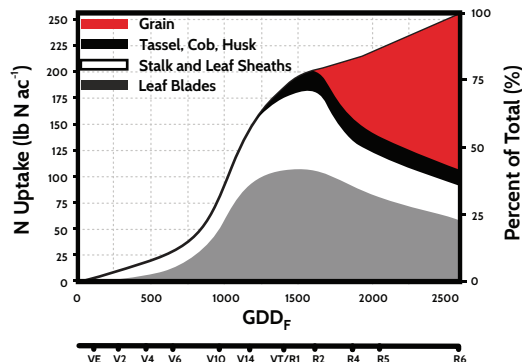
UNDERSTANDING YOUR CROPS HIDDEN HUNGER

The nutrient demand curves below highlight six critical nutrients for corn and four for soybeans. To maximize yields, it's vital to shift from the traditional "Feed the Soil" approach to a more dynamic "Feed the Plant" strategy. Nutrient uptake varies in both timing and rate, making it essential for optimizing productivity. For instance, placing Phosphorus, Sulfur, and Zinc near the roots ensures effective absorption throughout the growing season.

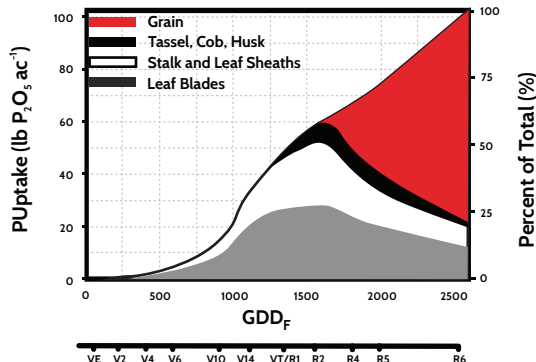
Discover how the REDSTAR BRANDED APPROACH can enhance your yields.



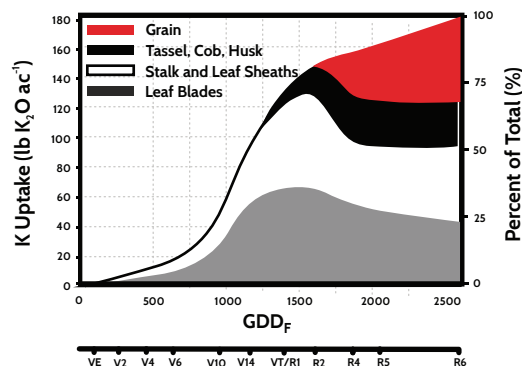
Seasonal Nitrogen Uptake



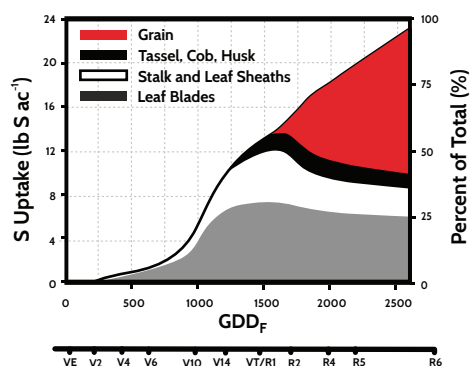
Seasonal Phosphorus Uptake



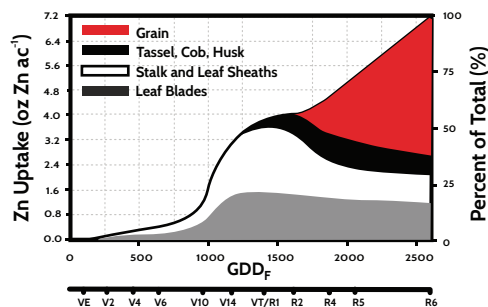
Seasonal Potassium Uptake



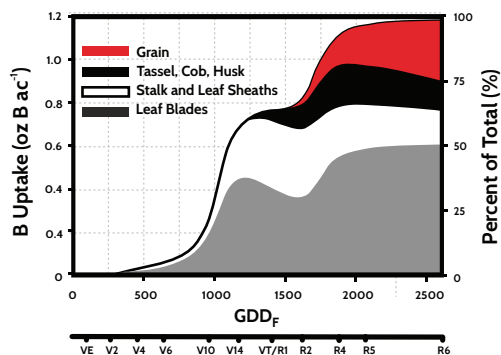
Seasonal Sulfur Uptake



Seasonal Zinc Uptake



Seasonal Boron Uptake



**THINK.
BIOLOGICALS**





BioPHY^{NEX} (1-0-0)

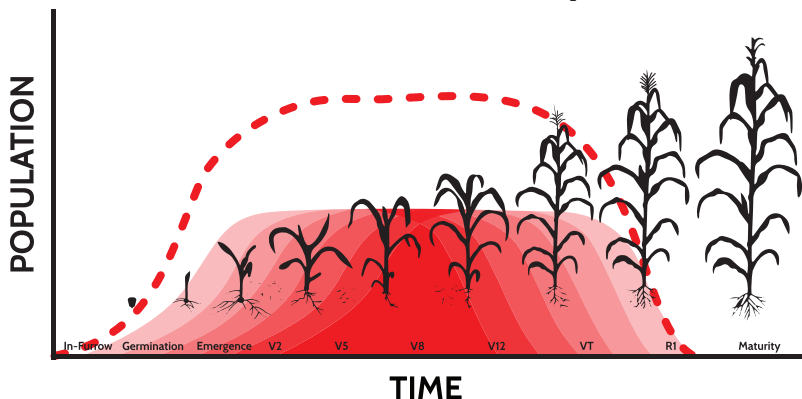
THE STARTING LINE-UP FOR YOUR SUCCESS

BIOPHY NEX is next generation fertilizer catalyst formulated to enhance all macro and micro-nutrient availability, and maximizes your nitrogen utilization efficiency in the plant. BIOPHY NEX works in multiple cropping systems and can be applied in-furrow, 2x2, strip-till or broadcast with liquid fertilizer, water and can be impregnated on dry fertilizer blends. BIOPHY NEX is proven to enhance yield potential and improve the availability of your macro and micro-nutrients.

BENEFITS

- < Creates a more microbial productive soil to maximize uptake of all nutrients by your crop.
- < Enhances early season nutrient availability to maximize plant growth and development.
- < Reduces nitrate leaching when applied broadcast to the soil with liquid fertilizer or water.
- < BIOPHY NEX provides a better balance of bacteria and fungi designed for long-term soil health.

REDSTAR BIOPHY NEX Life-Cycle



- < Activated by low carbon source, such as soil and residue.
- < Within the first few days after application, REDSTAR BIOPHY NEX bacteria and fungi multiply and begin increasing activity.
- < Activity speed will depend on many factors such as soil temperature and moisture.
- < REDSTAR BIOPHY NEX bacteria and fungi population will grow for three months then begin to level off.
- < At six months, the bacteria population will begin to decline as soil temperatures start to cool off.



BREAK**DOWN** ⁽⁷⁻⁰⁻⁰⁻¹⁵⁾ **POWERED BY** **BioPHY**^{NEX}

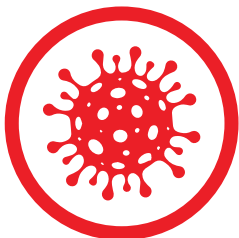
HELP IMPROVE YOUR SPRING RESIDUE MANAGEMENT

BREAKDOWN is expertly formulated to accelerate the decomposition of corn stalks and other heavy residues after harvest, releasing vital nutrients back into the soil. Cooler fall temperatures can slow down the natural breakdown process, which is why BREAKDOWN combines Ammonium Thiosulfate (ATS) with three natural carbon sources to stimulate microbial activity, even in cooler soil conditions. This increased microbial action ensures that valuable nutrients are efficiently released back into the soil, enhancing soil health and fertility.

BREAKDOWN also maximizes nitrogen utilization and plant assimilation while minimizing nitrate loss during the nitrification process. By promoting faster residue decomposition, BREAKDOWN improves spring residue management, setting the stage for healthier crops and higher yields in the next growing season.

BENEFITS

- < Designed specifically to decompose crop residue, which can cause nutrient tie up or affect planting stand quality.
- < Stimulates biological activity to improve soil health and release of all nutrients back to your crop.
- < Provides three different carbon sources to help stimulate biological activity and breakdown complex crop residues.
- < Helps improve residue management and nutrient utilization to your new growing crop next Spring and Summer.
- < Enhances residue management and nutrient utilization by maintaining a balanced population of beneficial bacteria and fungi.



Breaks down crop residue to increase planter efficiency.



Unlocks nutrients in your crop residue, recycling your fertilizer investment.



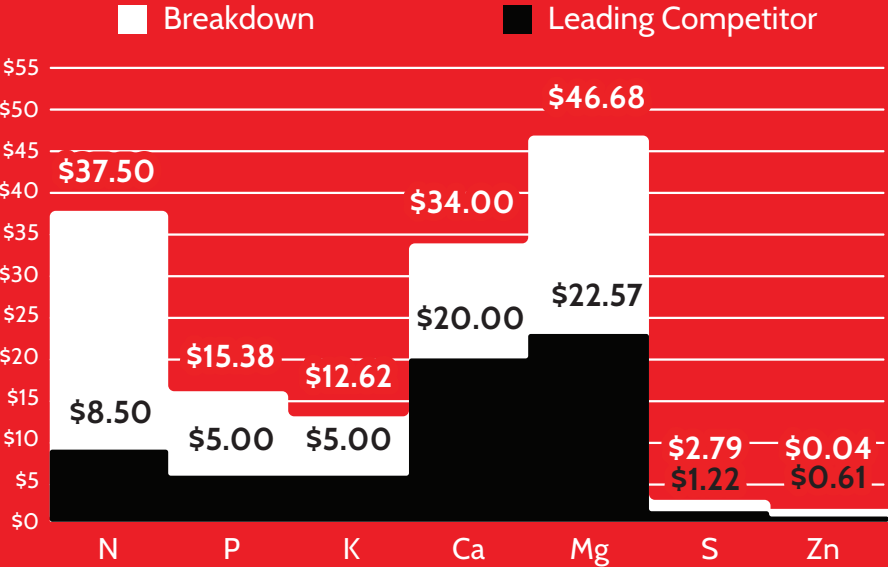
Increases soil contribution by discharging organic material and building the soil microbiome.

BREAKDOWN VS LEADING COMPETITOR

NET

N -\$29.00 Mg - \$24.11
P - \$10.30 S - \$1.57
K - \$7.62 Zn - \$0.56
Ca - \$14.00

NET PROFIT
OVER COMPETITOR
\$87.16



BREAKDOWN VS COMPETITOR

FUNGAL COLONIES



BREAKDOWN WITH WATER



COMPETITOR WITH WATER

(0-0-2-1S)

STARLINER

THE CHOICE FOR INCREASED CROP GROWTH & YIELDS

STARLINER is a cutting edge modified humic and fulvic acid designed to enhance the uptake of both soil and foliar-applied plant nutrients. Formulated as a modified potassium humate derived from high quality leonardite, STARLINER is not only fertilizer and pesticide compatible but also works to boost carbon levels, fostering a thriving ecosystem of soil microorganisms.

KEY FEATURES

- < **EXCEPTIONAL SOLUBILITY:** STARLINER offers superior solubility in low pH solutions, ensuring maximum humic content in your fertilizer formulations.
- < **CONCENTRATED HUMIC CONTENT:** The high active humic content enhances the complexing capacity for metal salts, increases carbon availability for soil microbes, and significantly improves nutrient use efficiency with every application.

BOOST YOUR NUTRIENT USE EFFICIENCY:

Incorporating STARLINER into your starter or broadcast fertilizers enhances nutrient retention within the soil profile, resulting in healthier, more productive plants.

BENEFITS

- < Improved Soil Structure: Enhances the physical properties of the soil for better root growth.
- < Increased Nutrient Retention and Availability: Maximizes the effectiveness of your nutrient applications.
- < Stimulated Microbial Growth: Supports beneficial microorganisms essential for soil health.
- < Enhanced Cation Exchange Capacity (CEC): Improves nutrient holding capacity in the treatment zone.
- < Increased Root Development: Promotes a robust root system for better nutrient uptake.
- < Improved Seed Germination: Increases the likelihood of successful crop establishment.
- < Wide pH Compatibility: Effective in a range of pH levels (2-12) with minimal insolubility.

MAGNIFY⁽³⁻⁰⁻³⁻¹⁾

AMPLIFY YOUR CROP POTENTIAL

MAGNIFY is a premium, multi-carbon based liquid fertilizer adjuvant designed to optimize the performance of your fertilizers and pesticides. When mixed with both soil and foliar fertilizers, MAGNIFY enhances their effectiveness by stimulating soil microbiology, ensuring your crops receive the nutrients they need.

Applied post-emergence, MAGNIFY features a unique blend that boosts foliar uptake and acts as a humectant, maximizing the efficacy of herbicides and fungicides whether applied via ground or aerial equipment.

BENEFITS

- < **HUMECTANT PROPERTIES:** Keeps fungicide products active on leaf surfaces longer, ensuring increased uptake and efficiency.
- < **TANK-MIX COMPATIBILITY:** Pairs excellently with fungicides during pre-tassel, tassel, and post-tassel applications, optimizing performance while ensuring crop safety.
- < **ACCELERATED ABSORPTION:** Low pH spray solution enhances plant absorption for quicker nutrient delivery.
- < **DRIFT CONTROL:** Promotes uniform droplet size and penetration through the canopy, ensuring maximum coverage and protection.

Red SWEET

HELPING YOU JUMPSTART YOUR SOIL

Carbon is the lifeblood of soil health, and one of the most effective ways to jumpstart your soil's vitality is with RED SWEET Liquid Sugar, a pure and simple carbon source designed to fuel your soil's microbiome. This proprietary blend of two powerful sugar sources activates the soil's bacteria and fungi, driving nutrient release and promoting robust plant growth.

Apply in-furrow, 2x2, broadcast or foliar to all crops. RED SWEET delivers maximum impact during early planting when cold soil conditions can slow microbial activity. RED SWEET mixes with most starter and foliar fertilizers, making it a must-have to enhance your crops' potential from day one.

These features make RED SWEET Liquid Sugar a powerful tool for improving soil vitality and boosting crop performance.

FEATURES

- < **SEAMLESS COMPATIBILITY:** Easily blends with starter and foliar fertilizers, making application simple and efficient.
- < **MICROBIAL FUEL:** Delivers a crucial food source for soil and foliar microbes, promoting soil health and enhancing nutrient cycling.
- < **SUPERIOR HUMECTANT:** Acts as a humectant in foliar feeds, significantly improving nutrient uptake and absorption.

BENEFITS

- < **CLEAN, NATURAL FORMULA:** Crafted from two pure, corn based sugars, providing a consistent and natural energy source.
- < **NUTRIENT RELEASE CATALYST:** Helps release nutrients tightly bound in the soil, ensuring they are more accessible to your crops.
- < **COLD WEATHER SUPPORT:** Stimulates soil microbiome activity even in cold spring temperatures, giving your crops a head start.

REDSTAR **FULVIC**

EMPOWERING YOUR FERTILITY PROGRAM

REDSTAR FULVIC ACID is a naturally occurring, water soluble component of humic substances found in soils, composts, and organic matter. It is composed of small, low molecular weight organic molecules that are highly reactive and able to chelate and mobilize nutrients, making them more available for plant uptake.

WHO USES REDSTAR FULVIC ?

Growers, agronomists, and fertilizer dealers incorporate REDSTAR FULVIC into crop production programs to enhance nutrient efficiency and support soil health, improved crop quality and overall yields.

WHAT DOES REDSTAR FULVIC DO?

REDSTAR FULVIC improves the availability and mobility of macro and micro-nutrients, stimulates beneficial soil microbes, buffers soil and water bi-carbonates, and enhances plant stress tolerance under drought, heat, or high-salinity conditions.

WHERE IS REDSTAR FULVIC APPLIED?

Fulvic Acid can be applied in-furrow with starter fertilizers, through fertigation systems, or as a foliar spray, providing versatile solutions for a wide range of crops including corn, soybeans, alfalfa, wheat, and other crops.

WHEN IS REDSTAR FULVIC USED?

REDSTAR FULVIC is most effective at critical growth stages, such as seedling emergence, vegetative growth, flowering, and pod or grain fill, when nutrient demand is highest.

WHY IS REDSTAR FULVIC IMPORTANT?

Fulvic Acid not only increases nutrient uptake and utilization, but also improves soil microbial activity, enhances water and nutrient retention, and reduces the negative effects of salts or bicarbonates in irrigation water and fertilizers like UAN. By integrating REDSTAR FULVIC into a crop management program, growers can achieve stronger root systems, healthier plants, improved stress resilience, and ultimately higher yields with more efficient fertilizer use.

START WITH
STARTERS



★REDSTAR **FERTILIZER**

REPLACING WHAT YOU'VE LOST

REDSTAR FERTILIZER was established with a clear vision: to produce top-quality, reliable, low-salt starter and foliar products that meet the unique needs of growers. We pride ourselves on delivering exclusive products in a timely manner, tailored to each grower's specific growing conditions. As the agricultural landscape continues to consolidate, accessing preferred products without bias can be increasingly difficult. REDSTAR FERTILIZER is committed to empowering growers and ensuring their success through our proven solutions.

Our products are designed for compatibility with a wide range of herbicides, insecticides, and fungicides, as well as EDTA chelated micronutrients, including our specially formulated MICROSTAR micronutrient blend. They are chloride-free, 100% water-soluble, and feature a near-neutral pH, maximizing efficiency and effectiveness.

Every product in the REDSTAR FERTILIZER line is crafted to give your crops an excellent start and sustain their growth throughout the season, ensuring you seize every opportunity for maximum yield.



LOW SALT



SEED SAFE



**CLEAN
FORMULATIONS**



**MULTIPLE IN-FURROW
OPTIONS**

START WITH **STARTERS** HELPING YOU REACH YOUR YIELD GOALS

Welcome to the world of REDSTAR FERTILIZER Starters, where success begins with every drop of our **VIBRANT RED LIQUID**. Our meticulously crafted fertility program is designed to support the growth of your crops today, tomorrow, and into the future. By integrating REDSTAR FERTILIZER products into your farming practices, you ensure your crops receive the key nutrients necessary to achieve their full potential.

Our low-salt starters are the optimal choice for maximizing crop yields, providing immediate access to essential Nitrogen (N), Phosphorus (P), Potassium (K), and Micronutrients, especially in challenging conditions.

In today's competitive agricultural landscape, using starter fertilizers is essential for laying a strong foundation for successful crop growth. Starter fertilizers provide crops with an immediate supply of vital nutrients, such as nitrogen, phosphorus, and potassium right at planting, ensuring that young plants have everything they need to thrive, especially in challenging conditions like cold or nutrient deficient soils. By enhancing seedling vigor and promoting early root development, starter fertilizers help mitigate the risk of stunting and slow growth, allowing crops to establish quickly and effectively. Moreover, these fertilizers improve nutrient availability and uptake, maximizing yield potential and ensuring that growers can achieve optimal returns on their investment. In essence, incorporating starter fertilizers into your planting regimen is not just a choice; it's a critical strategy for safeguarding your crops' health and boosting productivity from the very start.

TOP FIVE BENEFITS

OF IN-FURROW SYSTEMS FOR PLANTERS

1

IMMEDIATE NUTRIENT ACCESS: Delivering starter fertilizer directly in the furrow provides seedlings with rapid access to essential nutrients such as phosphorus, potassium, and zinc during early growth stages. This early nutrition supports faster emergence, stronger roots, and uniform, vigorous stands that perform better throughout the growing season.

2

PRECISION NUTRIENT PLACEMENT: Banded and in-furrow fertilizer systems strategically position nutrients exactly where developing roots can reach them. This minimizes nutrient tie-up in the soil and enhances efficiency by reducing losses from leaching, volatilization, or runoff. Concentrated nutrient zones improve uptake, saving input costs while maximizing return on investment.

3

INTEGRATED CROP PROTECTION: In-furrow delivery allows the precise placement of insecticides, fungicides, and biologicals within the seed zone, protecting young seedlings from early-season threats like wireworm, seedling blight, and Rhizoctonia. By establishing a clean, protected environment, plants can focus energy on root and shoot development instead of defense.

4

ENHANCED BIOLOGICAL ACTIVITY: Combining in-furrow fertilizers with biostimulants, beneficial microbes, or organic acids promotes strong rhizosphere activity. These biological inputs improve soil structure, enhance root development, increase nutrient uptake, and strengthen plant resilience against environmental stress. Healthy soil biology leads to more efficient nutrient cycling and longer-term soil health.

5

HIGHER YIELDS AND CONSISTENCY: Early vigor and uniform emergence create a foundation for better stand establishment, improved stress tolerance, and higher yield potential. By providing nutrients and protection right where plants need them, growers achieve more consistent ear and pod development, improved grain quality, and higher yields per unit of input.

WHY IT MATTERS

In-furrow and banded fertilizer systems are a proven, high return strategy for growers who want to optimize crop performance while practicing sustainable nutrient management. Targeted input delivery boosts efficiency, minimizes waste, and enhances plant health, all contributing to stronger yields, better ROI, and long-term soil productivity.

THE IMPORTANCE OF **NUTRIENT TECHNOLOGIES** **HELPS DRIVE YOUR FERTILIZER TO MORE EFFICIENCY**

WHAT IS V-STAR TECHNOLOGY?

V-STAR TECHNOLOGY is an innovative solution designed to stimulate root growth while ensuring nutrients remain readily available to plants. It works by reducing the tie-up of essential nutrients, such as phosphorus, with soil cations like calcium and magnesium, allowing developing roots to access and utilize nutrients more efficiently. This improved nutrient availability enables plants to make better use of all available nutrients, leading to stronger early growth and enhanced overall development. By fostering a more efficient nutrient uptake process, V-STAR TECHNOLOGY helps plants thrive from the start, setting the stage for healthier crops and higher yields.

POWERED BY BIOPHY NEX

BIOPHY NEX products enhance and improve fertilizer efficiency by making nutrients more available, increasing plant uptake, improving soil structure, and reducing nutrient losses. By promoting a healthier, more balanced soil ecosystem, BIOPHY NEX allows fertilizers to work more effectively, ultimately supporting better crop growth, development and long-term soil health. The integration of BIOPHY NEX into fertilizer programs represents a sustainable, innovative approach to optimizing plant nutrition and maximizing fertilizer on your farm. When you see POWERED by BIOPHY NEX you know your REDSTAR BRANDED product is working to improve your yield, quality and your soil health.

POWERED BY NOVASTAR

NOVASTAR is novel amino acid and peptide product developed in Europe to improve fertilizer efficiency by enhancing nutrient uptake, boosting plant metabolism, and increasing stress tolerance in several crops. NOVASTAR'S unique make up of amino acids and peptides can increase macro-nutrient and micro-nutrient availability to growing crops when applied in-furrow or foliar applied. NOVASTAR also contributes to better soil health and promotes microbial activity, further supporting efficient nutrient and fertilizer use. The result is stronger, healthier plants that make better use of applied fertilizers, leading to improved crop quality and yield potential. When you see POWERED by NOVASTAR you can have confidence that this product will help drive the success of your crop.



10-20-2 -.14Mn-.13Zn with V-Star Technology

MAXXUM-STAR+

PREMIUM FERTILIZER FOR IN-FURROW APPLICATION TO CORN & SOYBEANS

MAXXUMSTAR+ is an in-furrow starter fertilizer designed to deliver balanced nutrition and early-season energy to corn and soybeans. By combining nitrogen, phosphorus, potassium, manganese, zinc, two carbon sources and proprietary V-STAR TECHNOLOGY, MAXXUMSTAR+ drives stronger emergence, rapid root development, and higher yield potential by helping to access locked up nutrients from your soil.

BENEFITS

- < Faster, More Even Emergence: Supports strong seedling establishment for uniform stands.
- < Stronger Root Development: Nitrogen, Phosphorus and Zinc work together to expand root mass and depth.
- < Improved Nutrient Efficiency: Two Chelated carbon sources along with V-STAR TECHNOLOGY maximizes nutrient availability and increase plant uptake.
- < Boosts Plant Energy & Microbial Activity: Carbon sources stimulate beneficial biology for long-term soil fertility and improved Rhizosphere interface.
- < Higher Yield & ROI: More bushels per acre from accelerated root development and even seedling emergence.

HOW IT WORKS

- < Immediate Energy Source: Two carbon compounds feed soil microbes and energize seedlings during early growth, to help extract tied-up nutrients.
- < Enhanced Nutrient Uptake: Chelated Carbon sources mobilize nutrients, improving plant absorption and reducing tie-up in the soil.
- < Balanced Nutrition: The 10-20-2 formulation delivers a strong nitrogen and phosphorus foundation, plus key micros (Mn & Zn) critical for early vigor and reproductive success.
- < V-STAR TECHNOLOGY: A proprietary delivery system that optimizes nutrient efficiency, improves nutrient release, and is compatible with BIOPHY NEX and select in-furrow crop protection products.

REDELITE+ (0-4-3-13ZN-.14MN)

WHERE NUTRITION MEETS PERFORMANCE

RED ELITE+ is an advanced in-furrow liquid fertilizer crafted to elevate early-season performance in corn and soybeans without added nitrogen. Its 0-4-3 100% ortho-phosphate blend, fortified with manganese (0.14%), zinc (0.13%), plus a Two Chelated Carbon sources, bioactive bacteria, fungi, amino acids and peptides for enhanced nutrient mineralization. RED ELITE+ provides early season stress relief and growth promotion, targets root zones for optimal enzyme activity to regulate root initiation and elongation. Perfect for regenerative farming in varied soils, RED ELITE+ fosters resilient crops, superior yields, and sustainable results your elite choice for elite harvests.

BENEFITS

- < Superior Root Growth & Nutrient Uptake: Proprietary blend of ortho-phosphate (4%) and potassium (3%) paired our bioactive carbon and biologicals to mineralize soil nutrients, boosting root development and availability, while zinc and manganese prevent deficiencies for stronger early vigor in corn and soybeans.
- < Abiotic Stress Tolerance: Amino acids and poly peptides enhance plant resilience to cold, drought, or heat, reducing early-season setbacks; combined with our Carbon chelation, this ensures consistent emergence and canopy closure even in challenging conditions.
- < Integrated Protection & Sustainability: Ensures prolonged release, compatible with eco-friendly practices such as reduced tillage; integrates seamlessly with insecticides/fungicides for comprehensive in-furrow protection and regenerative benefits.

WHY CHOOSE RED ELITE+?

RED ELITE+ transforms ordinary planting into extraordinary potential. With its biostimulant powered formula, it delivers elite nutrition, stress defense, and soil vitality in one pass.



NSS *STARTER*

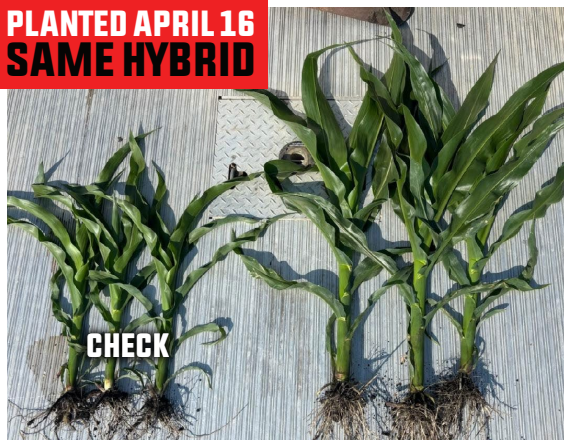
IN-FURROW BIOSTIMULANT FERTILIZER FOR CORN & SOYBEANS

NSS (No Starter, Starter) is a next generation in-furrow biostimulant fertilizer designed for growers who want the benefits of a starter without traditional added NPK. Powered by NOVASTAR & BIOPHY NEX, NSS delivers a powerful combination of nutrient release, chelation, stress protection, and root stimulation all in a single, easy to use pre-mix targeted for fields with high fertility or manure history. NSS was created to help unlock the nutrients in these high fertility soils, to improve plant quality and yield without the additional fertilizer needing to be added. By accelerating soil biology, improving nutrient efficiency, and boosting early root vigor, NSS helps corn and soybeans emerge stronger, grow faster, and yield more.

BENEFITS

- < Explosive Root Growth & Early Vigor: NOVASTAR technology enhances root initiation and elongation, ensuring faster, deeper root development and stronger early season growth.
- < Nutrient Unlocking & Chelation: BIOPHY NEX unlocks tied up nutrients in the soil while increasing availability and uptake, delivering maximum fertilizer efficiency.
- < Abiotic Stress Defense: NSS strengthens plants against cold, drought, and compaction, promoting more consistent emergence and stand establishment.
- < Microbial Activation & Soil Health: Proprietary biological catalysts energize beneficial microbes, improving soil structure, nutrient cycling, and long term fertility for healthier soils and resilient crops.
- < Yield & ROI Potential: Proven technology in NSS consistently drives 8-15 bu/acre gains in corn and 3-5 bu/acre in soybeans, delivering measurable returns from planting time.

**PLANTED APRIL 16
SAME HYBRID**



WHY CHOOSE NSS?

With NSS, growers can apply a No Starter, Starter solution that activates roots, unlocks nutrients, and builds soil health without relying on traditional NPK. This unique REDSTAR innovation turns your planter pass into a biological and physiological kickstart for your crop, setting the stage for higher yields, stronger ROI, and sustainable results.



MicroSTAR^v-STAR[®] TECHNOLOGY

(1.74 % MANGANESE - 1.63% ZINC)

VITAL ROLE IN PLANT GROWTH & DEVELOPMENT

Essential crop functions are dependent on complex interactions between NPK and micronutrients. Micronutrients are vital to producing healthy crops and sustaining soils. Micronutrients from REDSTAR can be blended with liquid fertilizer to help correct and prevent micronutrient deficiencies. These products are compatible with many pesticides.

MICROSTAR products are a proprietary micronutrient blend with enhanced availability due to the addition of a fulvic acid. It includes fully chelated EDTA and HDTA micronutrients, making it ideal to add to any fertilizer program. MICROSTAR products are seed safe for in-furrow placement, 2x2, banding and foliar applications. These products are compatible with all low-salt REDSTAR FERTILIZER products.

ADDITIONAL REDSTAR EDTA CHELATED MICRONUTRIENTS AVAILABLE

RS Calcium 3%

RS Magnesium 2.5%

RS Zinc 9%

RS Iron 4.5%

RS Copper 7.5%

RS Manganese 6%

RS Boron 10%

RS Molly 10%

*It is important to use the correct amount of all nutrients in order to prevent reduced yield potential. Perform a jar test to ensure compatibility.

FOLLOW UP WITH

FOLIARS



MAXIMIZE RESULTS WITH **PRECISION FOLIAR APPLICATION** **REDUCING STRESS, INCREASING YIELDS**

Selecting the right form and source of both macro and micro-nutrients for foliar application in row crops is key to maximizing crop performance. REDSTAR BRANDED foliar products are highly efficient and in the right nutrient form for both plant availability and mixing with herbicides, fungicides and insecticides.

KEY FACTORS TO CONSIDER FOR FOLIAR APPLICATION OF NUTRIENTS TO THE CROP

1

WATER QUALITY: The most important factor in foliar nutrition is the quality of water that you use. Well water typically has a high PH, is hard, and has very high bicarbonate levels. Bicarbonates will tie up nutrients in any foliar product added to the solution. To reduce these factors PH needs to be reduced. Use PRODROP to reduce the PH of 6 or lower. A PH of 5.5 is preferable due to its similarity to rainwater PH. This will lessen the amount of nutrients tied up due to poor water quality. Water test kits are very affordable and easy to use to verify proper water quality.

2

ENVIRONMENTAL FACTORS: In order for foliar nutrients to be taken in by the plant the nutrients need to pass through the plant stomata. When the ambient air temperature increases over 80° the plant's stomata begin to close and will not allow the nutrients to properly be absorbed. Avoid this spray during the cooler time of day such as early in the morning, late afternoon, or during the night.

3

NUTRIENT FORM: Like all crop nutrition, the form of the nutrients applied is crucial. For nutrients such as potassium and most micronutrients a sulfate form is preferable. Nutrients such as calcium or magnesium a chloride form will aid in absorption. Always make sure to check the labels of your nutritional products to make sure they are the proper forms.

4

COVERAGE: With foliar nutrition, coverage is more important than the total gallons applied. It is crucial to make sure that the leaf surface is covered with your nutritional product. To do this select a spray nozzle that creates a fine mist. Along with proper nozzles increase spray pressure to ensure smaller droplet size for better coverage. Higher pressure and lower gallons allow more nutrients to stick to leaf surface for maximum absorption through the stomata.



POTASSIUM POWER FOR UNMATCHED RESILIENCE

RECESS is a premium chloride-free foliar potassium formulation specifically designed for corn and soybeans. This advanced solution is crucial for enhancing plant health during critical growth stages. Foliar applications of RECESS, especially when paired with fungicides, deliver optimal results during periods of peak nutritional demand, such as during drought stress or after heavy rainfall.

By promoting efficient potassium uptake, RECESS aids in vital physiological processes, including photosynthesis, enzyme activation, and stress tolerance. Its strategic use during these peak times enhances nutrient translocation, ensuring your crops receive essential nutrients right when they need them most. Moreover, the synergy between RECESS and fungicide applications not only boosts plant health but also improves resistance to potential disease infections.

Unlock the full potential of your crops with RECESS, and ensure they thrive under challenging conditions. Optimize your yield and protect your investment with this essential foliar potassium solution.

BENEFITS

- < Foliar potassium improves water regulation and utilization via stomata.
- < Improved transpiration by strengthening stomata conductance.
- < Right form of potassium drives uptake and utilization with many tank mix partners.



NOVASTAR⁽⁷⁻⁰⁻⁰⁾

INNOVATION FOR ENHANCED PLANT HEALTH

NOVASTAR is a 100% plant-based amino acid and peptide product designed to deliver a quick boost of energy when crops need it most. It enhances nutrient uptake efficiency for both plant nutrition and protection programs, supporting stronger stress tolerance and chlorophyll production. The result, healthier plants, higher yields, and improved crop quality.

While relatively new to the U.S. row crop market, this proven European technology has been trusted for nearly two decades to give crops a competitive edge. Recent U.S. trials and in-field use have confirmed the same results here at home, added yield, improved performance, and greater profit potential for corn, cotton, and soybean growers.

BENEFITS

- < Naturally derived bio-nutrient extract, rich in amino acids to supplement metabolic nutrition allowing crops to use energy more efficiently.
- < Proven in both foliar and soil applications to increase plant growth and nutrient uptake into the plant.
- < Excellent tank mix partner with most fertilizers and ag chem products boosting nutrient utilization as well as a buffer for any stress herbicide applications might cause.
- < Activates plants natural energy resources to help mitigate abiotic stress resulting in optimum plant performance and yield during periods of cold, heat and drought stress.



REDELITE+ (3 GALLONS +)	275.3
NOVASTAR (16 OZ)	
CHECK	257.4

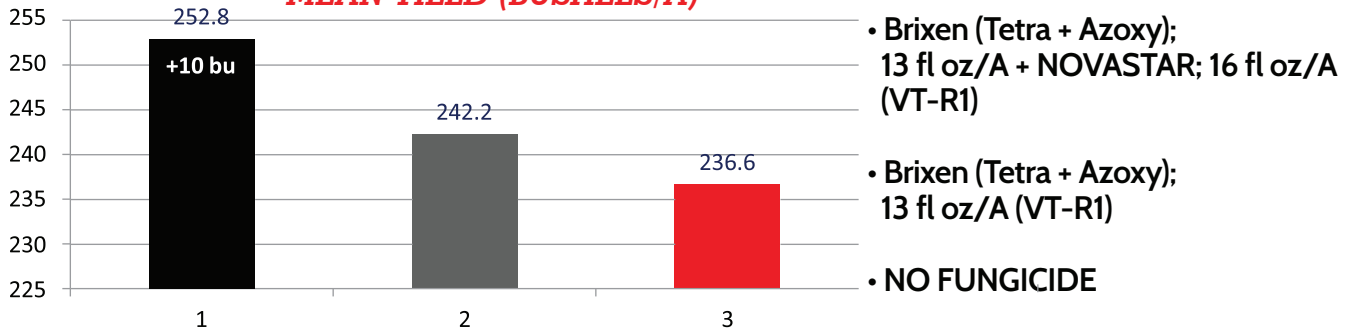
NO STRESS
JUST SUCCESS WITH
NOVASTAR

2020-16-IL1: SIU CORN FOLIAR NOVASTAR TRIAL

CARMI, IL

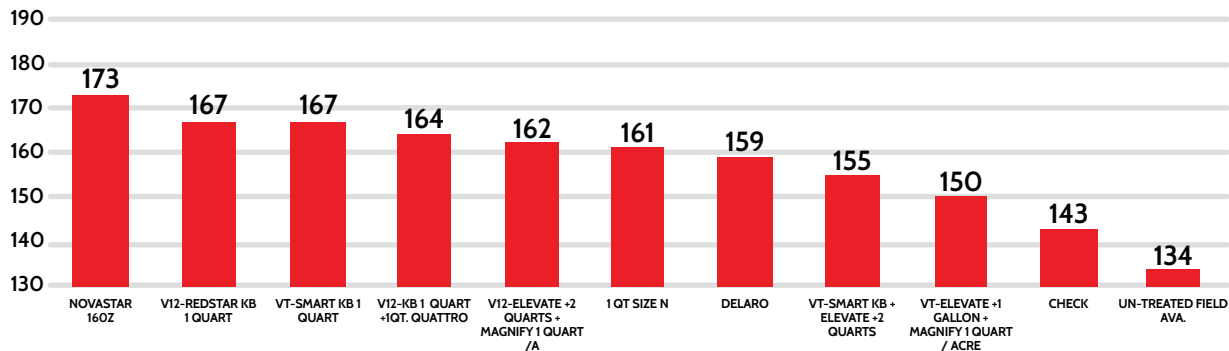
CORNS

MEAN YIELD (BUSHEL/A)



2022 DRONE TASSEL CORN PLOT

LEIGH, NE



- DELARO 16 bushels better than un-treated Check (\$112 / acre)
- NOVASTAR + DELARO 30 bushels better than un-treated Check (\$210 / acre).
- Stress relief and nutrition proved to pay on a stressed corn crop in July!

*It is important to use the correct amount of all nutrients in order to prevent reduced yield potential. Perform a jar test to ensure compatibility.

REDFIN ⁽⁴⁻⁶⁻¹⁾

IN-FURROW AND FOLIAR PROTEIN HYDROLYSATE FERTILIZER FOR CORN, SOYBEANS & ALFALFA

Unlock the power of the ocean with REDFIN (4-6-1), a premium fish based protein hydrolysate fertilizer derived from high quality fish and stabilized with phosphoric acid. Packed with essential amino acids and peptides, it delivers bioactive compounds that enhance nutrient uptake, stress tolerance, and yield potential. This nutrient rich formulation promotes vigorous growth, stronger roots, and higher productivity, making it an ideal addition to any starter or foliar nutrition program for corn, soybeans, and alfalfa.

IN-FURROW & FOLIAR PERFORMANCE

In today's demanding agricultural landscape, REDFIN is a true game changer for corn, soybeans, and alfalfa growers. For in-furrow applications, its balanced N-P-K blend and rich amino acid profile fuel rapid root initiation, improve nutrient uptake, and build strong early season vigor. By supporting microbial activity in the root zone, it helps crops establish faster and more uniformly.

As a foliar treatment, REDFIN delivers quick nutrient absorption and powerful stress recovery during key growth stages. Its bioactive peptides enhance photosynthesis and metabolic efficiency, helping plants perform through drought, heat, or nutrient stress.

From tough soils to high-yield systems, REDFIN strengthens plant health, boosts crop quality, and drives sustainable performance, turning challenges into opportunity.

< **Enhanced Nutrient Uptake & Efficiency:**

Amino acids and peptides in REDFIN act as natural chelators and biostimulants, improving the absorption and use of nitrogen, phosphorus, potassium, and micronutrients. This boosts nutrient efficiency, supports protein and chlorophyll production, and accelerates early growth in corn (V3–V6), soybeans (nodulation and pod fill), and alfalfa (post-cut regrowth).

< **Stress Tolerance & Resilience:**

Bioactive compounds help crops manage drought, salinity, and cold stress by balancing osmotic pressure and stimulating antioxidant and enzyme activity. The result, healthier plants with increased leaf biomass and sugar content for better quality and performance.

< **Improved Yield & Crop Quality:**

Field studies show fish based hydrolysates like REDFIN enhance germination, biomass, and overall productivity. Expect stronger ear development in corn, improved pod retention and grain fill in soybeans, and higher dry matter yield and feed value in alfalfa.

< **Soil Health & Microbial Activity:**

In-furrow or fertigation applications energize soil microbes, improving structure, nutrient cycling, and long-term fertility.

< **Sustainability & Compatibility:**

With a low salt index, REDFIN mixes easily with most fertilizers and crop protection products (jar test recommended). It's suitable for all crops and application methods, soil or foliar, offering sustainable, cost effective solution for today's growers.

WHY CHOOSE REDFIN?

REDFIN isn't just a fertilizer; it's a biostimulant powerhouse that transforms fish derived proteins into real results for your farm. With a comprehensive amino acid profile, balanced NPK, and proven benefits for corn, soybeans, and alfalfa, it delivers stronger roots, more resilient plants, and higher profits. Embrace sustainable excellence with REDSTAR'S ocean sourced innovation.



MAXIMIZE YOUR GROWTH AND DEVELOPMENT

BMO 81 is a soil and foliar product designed to provide both boron and molybdenum to developing crops to help them maximize their growth and development. BMO 81 contains 8% boron and 1% molybdenum for maximum availability to the crop.

Boron is a crucial nutrient in all crops, and is typically deficient in most soils across the country. Boron performs several key functions in the plant. Boron in corn is most crucial at VT in order to help the plant move from vegetative production to reproductive functions. Boron should be applied with every foliar pass on corn and soybeans to help the plant move other nutrients more efficiently. Boron is a key factor in pod retention in soybeans and kernel development in corn as it helps move sugars from leaves to pods and ears in both crops.

Molybdenum (Moly) is crucial in both corn and soybeans because it plays a key role in nitrogen assimilation and protein production. Moly is a nutrient that very few people test for in soil or tissue tests. Moly is crucial in the nitrate reductase process in converting nitrate into plant-usable ammonia. Moly is also key for nitrogen production in soybeans and key factor in chlorophyll production. Without moly, soybeans may not nodulate properly which can lower nitrogen available in the plant.

BENEFITS

- < BMO 81 can be used with any foliar application on soybeans. It is best used with any in-season nitrogen application or foliar at VT on corn.
- < Boron moly allows growers to correct key nutrient deficiencies at the most important growth stages.
- < Most boron soil levels are below required levels to fill the demand for both corn and soybeans, 1-2 in-season applications of BMO 81 can help alleviate any deficiency issues.



RED



SHIELD

(0-15-14)

POWERED BY **NOVASTAR** 

POWERING NUTRIENTS & PROTECTING YIELDS

RED SHIELD is an advanced phosphorus acid and potassium fertilizer designed for both soil and foliar application, specifically formulated to boost plant vigor and overall health.

FEATURES

- < Phosphorus: Essential for the processes of photosynthesis and respiration, phosphorus significantly contributes to root development and flower initiation, providing your plants with a solid foundation for growth.
- < Potassium: Crucial for the formation of a strong, healthy root system, potassium enhances the efficiency of nitrogen uptake, ensuring that nutrients are effectively utilized throughout the plant.

By combining these two vital macronutrients with essential amino acids, boron, manganese, and zinc, RED SHIELD creates a synergistic effect that promotes optimal plant growth, maximizes yield, and enhances quality across a diverse range of crops.

RED SHIELD is expertly formulated with five vital nutrients that are frequently overlooked in corn and soybean production, yet are crucial for optimal plant health and development. When these nutrients are combined, they work harmoniously to improve several key processes, including:

BENEFITS

- < Accelerated Early Development: Supports rapid shoot and root growth, giving crops a strong foundation.
- < Efficient Water Regulation: Helps the plant manage water usage effectively for optimal hydration.
- < Enhanced Auxin and Protein Synthesis: Boosts the production of essential growth hormones and proteins necessary for vigorous development.
- < Vital Chlorophyll Production: Essential for photosynthesis, promoting lush, green foliage.
- < Improved Nutrient Transport: Facilitates the efficient movement of sugars and nutrients throughout the plant.



ENHANCING ENERGY FOR GROWTH

SUNFED foliar fertilizer has a positive effect on plant growth and photosynthesis by acting as an essential nutrient form to help regulate water balance within the plant, improve stomatal function and facilitate the uptake of other nutrients thereby enhancing photosynthesis efficiency.

SUNFED'S balanced forms of micro and secondary nutrients help the plant improve its photosynthetic performance to help maximize increased plant growth and development. With an appropriate balance of key nutrients such as calcium, zinc, manganese, iron and magnesium, SUNFED allows your crop to grow significantly larger leaves and stalks. Larger leaves allows your crop to capture more sunlight to create more photosynthesis. The more photosynthesis your plant can produce the more root exudates it creates. Root exudates feed your soil biome, which allows your crops to capture more nutrients deep into the season for maximum grain fill.

BENEFITS

- < Supplies targeted secondary and micronutrients to maximize photosynthesis and energy transfer in crops.
- < Contains the ideal blend of zinc, manganese, and boron to promote optimal growth, development, and yield in corn, soybeans, and wheat.
- < Reduces photorespiration by delivering essential nutrients in the right chloride form, improving energy efficiency during photosynthesis.
- < Boosts enzyme activity, enhances stomatal function, and strengthens overall plant health when managed effectively, leading to more robust, high-performing crops.



ELEVATE+ V-STAR TECHNOLOGY

(18-0-6-4S-.1B-.1MN-.1ZN-.1MO)

FOR REACHING HIGHER YIELDS

ELEVATE+ is a highly advanced foliar fertilizer designed to deliver essential nutrients to corn and soybeans during critical growth phases such as grain fill or periods of weather-related stress. Packed with six key nutrients, including slow-release nitrogen and powered by V-STAR TECHNOLOGY, an acetate energy source, ELEVATE+ enhances enzymatic activity, reduces plant stress, and helps crops achieve their full yield potential.

ELEVATE+ provides a safe and efficient controlled-release nitrogen source, along with potassium, sulfur, and vital micronutrients to support strong plant development through key growth stages. Its excellent compatibility with herbicides, fungicides, insecticides, and other nutrient products makes it a versatile and reliable choice for growers focused on performance and consistency.

WHY CHOOSE ELEVATE+

- < Proven Year After Year: ELEVATE+ has earned the REDSTAR PROVEN BRAND STATUS, providing growers confidence that it will boost both yield and quality for corn and soybeans.
- < Non-Burning Slow Release Nitrogen: The slow-release nitrogen formulation ensures maximum uptake without the risk of burning plant tissue.
- < Balanced Nutrient Profile: Potassium, sulfur, and micronutrients promote kernel development and grain fill, improving overall crop performance.
- < Tank-Mix Compatible: To ensure compatibility with foliar fungicides for better absorption and application.
- < Non-Corrosive & Low Volume Application: Safe for use in airplanes, drones, and helicopters, making it perfect for modern farming techniques.

With ELEVATE+, you can feed your crops precisely what they need, when they need it, ensuring stronger plants, reduced stress, and higher yields.

*It is important to use the correct amount of all nutrients in order to prevent reduced yield potential. Perform a jar test to ensure compatibility.



(18-0-3-3S)

FINISHLINE

PROTECTING YOU FROM ABOVE AND BELOW

FINISHLINE is a 100% ammonium-based fertilizer containing potassium and sulfur, fully stabilized to prevent nitrogen loss from volatilization or leaching when applied through irrigation pivots or Y-drop systems.

Protected from both above and below ground losses, it keeps nitrogen in the plant available ammonium form, ensuring consistent nutrient uptake during the critical late vegetative and reproductive stages of corn growth.

In addition, FINISHLINE includes two carbon sources that enhance late season biological activity in the soil, helping roots extract key nutrients and maximize grain fill.

Proper nitrogen management and timing are essential in modern corn production, not only for yield and grain quality but also for protecting water quality and reducing environmental impact. Having the right form of nitrogen at the right time is critical to help today's hybrids reach their full potential, especially under high stress conditions.

BENEFITS

- < Contains 100% stabilized ammonium nitrogen the preferred form of nitrogen the corn plant needs to maximize kernel development and grain fill during V10 – R4 timing in corn.
- < Fully protected source of ammoniacal nitrogen from volatilization and leaching to keep nitrogen plant-available during irrigation and late season rain.
- < FINISHLINE contains fully available nitrogen and ammonium sulfate sulfur in a desired 6:1 N/S ratio to ensure these key nutrients plant available.
- < FINISHLINE also contains two carbon sources to improve nutrient uptake into the roots and increase overall nutrient utilization in the corn plant.

VALUE OF
**CROP NUTRITION
SOLUTIONS**





MAXIMIZE EARLY GROWTH & NUTRIENT UPTAKE

SUMMER SOLUTION delivers a powerful nitrogen source enriched with potassium, sulfur, and zinc to drive strong early growth and maximize yield potential. Designed for precision side-dress, irrigation, or strip-till applications, SUMMER SOLUTION helps plants overcome cool soil conditions that can limit root nutrient absorption in early growth stages.

BENEFITS

- < Boosts Early Growth: Supplies 26% total nitrogen for vigorous vegetative development.
- < Enhances Nutrient Uptake: Zinc and sulfur promote efficient root metabolism and protein synthesis.
- < Improves Yield Potential: Promotes stronger stalks, uniform growth, and higher test weights.
- < Maximizes Efficiency: Compatible with most NPK programs to improve fertilizer use efficiency and reduce overall costs.

HIGHLIGHTS

- < Formulated for cool spring soils where root activity and nutrient uptake are limited.
- < Supports balanced N-P-K-Zn fertility for high-yield corn and grain systems.
- < Reduces fertilizer cost per bushel through improved nutrient efficiency.



ST R GUARD

PROTECTING VOLATILITY & NITRIFICATION

STARGUARD combines a nitrogen stabilizer and nitrification inhibitor to deliver complete prill coverage and maximum nitrogen protection. It minimizes leaching, denitrification, and volatility keeping nitrogen in the root zone where crops need it most. By slowing the nitrification process, it extends nitrogen availability throughout the growing season for improved efficiency, stronger growth, and higher yield potential.

ADVANTAGES

- < Enhanced Penetration: Features a proprietary surfactant system that enables 25% faster penetration and absorption into urea prills, providing superior protection against volatility.
- < Easy Application: Designed for convenience, STARGUARD can be directly injected during the application process, streamlining usage.
- < Reduced Corrosion: Significantly less corrosive than similar products, STARGUARD minimizes application plugging issues, ensuring smoother operation.

BENEFITS

- < Minimizes Volatility: Effectively reduces nitrogen volatility, even in challenging conditions.
- < Less Corrosive: Drastically less corrosive than comparable products, promoting safer handling and application.
- < Faster Blending: Achieves 25% quicker blending with UAN, including during splash tank blending processes.
- < Enhanced Soil Penetration: Proprietary surfactant technology ensures more complete fertilizer delivery through the soil.
- < Optimized Plant Uptake: Improves overall plant absorption for enhanced nutrient utilization.



MAGNATRIO

POWERED BY
BioPHY^{NEX}

UNLOCKING NUTRIENTS TO MAXIMIZE DRY FERTILIZER ON YOUR FARM

MAGNATRIO is a proprietary nutrient enhancer consisting of both a proven biological and polymer blend brought together to help enhance the availability of your nitrogen, phosphorus and potassium fertilizers applied in both the fall and spring. This unique biological and polymer blend has worked extremely well in test data when applied to dry MAP and DAP blends in the fall to help maximize nutrient availability to your spring planted crops.

BENEFITS

- < Heightened nutrient uptake through the increased availability of nutrients to the plant.
- < Enhances nutrient use efficiency of all macro, micro and secondary nutrients.
- < Flexible delivery method by applying to DAP, MAP, Potash, MESZ, MES, Pell Lime, Sulfate of Potash, AMS and SO₄.
- < Protects your fertilizer investment while increasing soil health and productivity on your farm.

CASE STUDY

In April 2019, the University of Missouri planted corn with applications of diammonium phosphate (DAP) at rates of 25 lbs/acre, 50 lbs/acre and 100 lbs/acre with and without MAGNATRIO at 2 quarts for each treatment; leaving 7 total treatments including the un-treated check. The corn was harvested in September 2019 with the following yield results.

UN-TREATED CHECK (NO FERTILIZER)	184.99 BUSHELS/ACRE
25 LBS./ A DAP	180.36 BUSHELS/ACRE
50 LBS./A DAP	190.27 BUSHELS/ACRE
100 LBS./A DAP	186.36 BUSHELS/ACRE
25 LBS./A DAP + MAGNATRIO	188.52 BUSHELS/ACRE
50 LBS./A DAP + MAGNATRIO	191.97 BUSHELS/ACRE
100 LBS./A DAP + MAGNATRIO	202.57 BUSHELS/ACRE
AVERAGE YIELD INCREASE WITH MAGNATRIO	8.7 BUSHELS / ACRE

THE IMPORTANCE OF
SEED TREATMENTS



PROTECT^{SERIES}

ONE SYSTEM, THREE LEVELS OF CONFIDENCE

Built to perform at every stage, but proven to peak with PROTECT COMPLETE. From foundational nutrition to full spectrum protection, the PROTECT Series is designed to defend, strengthen, and push crops to their highest potential.

PROTECT^{COMPLETE}

THE ULTIMATE IN CROP DEFENSE, NUTRITION & RECOVERY

PROTECT COMPLETE is the pinnacle of the REDSTAR PROTECT Series. The all-in-one formula that delivers total crop protection, nutrient efficiency, and stress recovery in a single pass. Powered by advanced biologicals, humics, peptides, and nutrient enhancers, it fuels healthier plants and higher yields from emergence to harvest.

BENEFITS

- < All-in-one formula combining nutrition, biologicals, and defense
- < Enhances stress tolerance and recovery after extreme weather
- < Maximizes nutrient use efficiency for stronger, healthier plants
- < Drives yield potential and grain quality from root to canopy
- < Simplifies the decision, one product, complete results

PROTECT⁺

ENHANCED DEFENSE & NUTRIENT EFFICIENCY

Adds biologicals and micronutrients for stronger stress response and improved nutrient mobility during key growth stages.

BENEFITS

- < Boosts stress response
- < Improves nutrient uptake

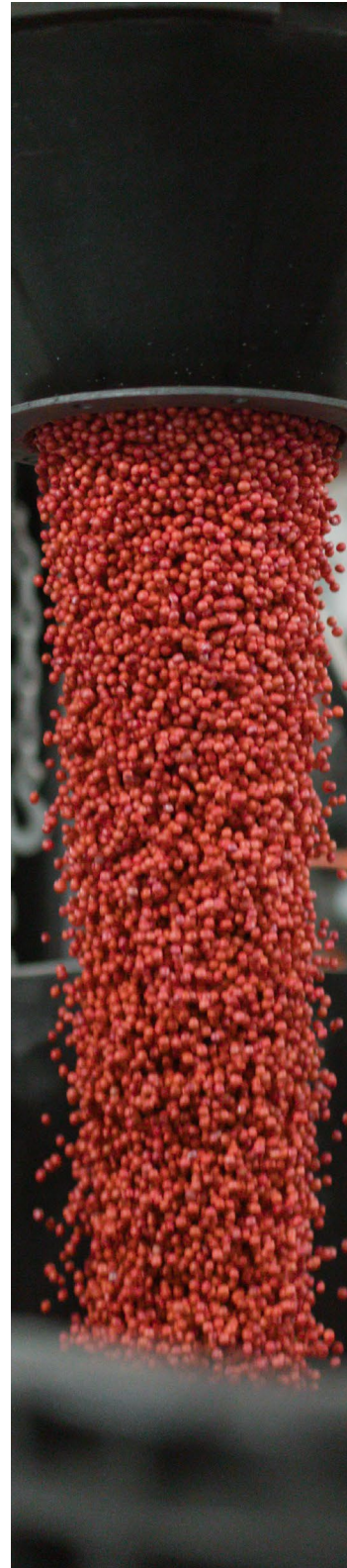
PROTECT

THE FOUNDATION OF PLANT DEFENSE

Delivers essential nutrition and early season protection. The solid base that leads to COMPLETE performance.

BENEFITS

- < Strengthens early growth
- < Supports root & plant health





PROPEL ST

LAUNCH YOUR CROP TO NEW HEIGHTS

PROPEL ST is an advanced nutritional seed treatment solution designed to enhance early crop development in corn, soybeans and grain crops. This advanced formulation combines the power of beneficial bacteria and fungi, along with amino acids, peptides and critical micro-nutrients like zinc, calcium, and manganese.

BENEFITS

- < Early Root Development: Promotes robust root systems for stronger plants.
- < Improved Emergence & Vigor: Ensures faster, healthier growth right from the start.
- < Enhanced Stress Tolerance: Equips crops to withstand environmental challenges.
- < Maximized Nutrient Uptake: Improves efficiency in nutrient absorption.

WHY CHOOSE PROPEL ST FOR YOUR SEED TREATMENT NEEDS?

PROPEL ST stands out by integrating advanced biologicals, amino acids, and essential micronutrients to give your corn and soybeans the foundation for early success. This powerful formulation promotes stronger root systems, enhances nutrient uptake, and boosts resilience to early-season stress. With PROPEL ST, you're not just planting seeds; you're launching your crop to new heights.

ACTIVATION TECHNOLOGIES

HELPING YOUR CHEMICALS WORK HARDER





IMPROVE NUTRITIONAL & PESTICIDE PERFORMANCE

Adjusting water pH is essential for effective pesticide and foliar nutrient applications, as the pH level significantly influences the stability and efficacy of these chemicals. It determines how well they are absorbed by plants and helps prevent degradation or precipitation, which can ultimately impact the success of the treatment. Most pesticides and nutrients perform optimally within a specific pH range; extreme pH levels can render them ineffective or unavailable to plants.

PRO DROP is a chloride- and sodium-free product specifically formulated to lower water pH and sequester hard water ions, enhancing the performance of pesticides and nutrients that require a lower pH in the spray tank. By providing a more favorable pH level, PRO DROP improves the efficacy of weak acid pesticides and increases the uptake of various foliar nutritional products. Additionally, it conditions the water by reducing key cations that raise pH levels and can tie up certain acid-based pesticides, diminishing their effectiveness.

APPLICATION & RATE RECOMMENDATIONS

For optimal results, add PRO DROP to the tank before introducing your pesticide and nutritional products. Ensure it is mixed thoroughly to effectively adjust the spray tank's pH levels.

PRO DROP NEEDED IN EACH SPRAYER TANK SIZE TO ADJUST PH TO 5.0		
Sprayer Tank Size (Gallons)	PRO DROP gallons per tank to lower pH to 5.0	PRO DROP ounces per tank to lower pH to 5.0
1600	3.33 gal	426 oz.
1200	2.5 gal	320 oz.
1000	2.1 gal	269 oz.
800	1.7 gal	218 oz.



MOST AGGRESSIVE OIL WITH A NOTICEABLE KILL IMPROVEMENT

ORGANOSILICONE WITH MODIFIED SEED OIL

Highest quality MSO plus best surfactant available on the market.

HOW IT WORKS

The combination of modified seed oil and organosilicone helps to increase chemical absorption and penetration through cell walls.

ADVANTAGES

ABLAZE replaces any need for petroleum based crop oils with superior technology. Lower surface tension enhances absorption with each application. ABLAZE was carefully integrated by using great MSO technology and the latest surfactant on the market. This blend saves mixing time and contains the proper ratio for maximum potency.

BENEFITS

- < Pre-blended concentrated MSO and organosilicone.
- < Leading absorption and wetting technology.
- < Premium product with great results.

APPLY FIRST





LESSENING THE RISK OF DRIFT

NEXT GENERATION POLYMER DRIFT CONTROL AGENT

Lessens the risk of drift and gives peace of mind while saving you money by getting more of your chemicals in the right place.

HOW IT WORKS

REDLOCK controls drift by making droplets heavier, without increasing droplet size. Instead, it creates more optimum sized, consistent, and uniform droplets. Our drift control product drastically increases the percentage of spray that lands on target weeds, which results in improved coverage of both the upper and lower canopy.

ADVANTAGES

Our product has shown to be a complete solution as a nonionic surfactant, enabling droplets to stick to leaves and reduce runoff. In addition, it contains proprietary modified free fatty acids that help carry the chemical into the weed for improved results. REDLOCK significantly slows the evaporation process, giving the chemical a greater time frame for uptake.

BENEFITS

- < Delivers peace of mind with our Next Generation Polymer Technology.
- < Creates optimum sized droplets.
- < Slows evaporation, increasing the time chemical has to work.



IMPROVING THE PENETRATION OF LIQUIDS INTO SOIL

MULTI-FUNCTIONAL EMULSIFIER AND PARAFFINIC OIL

Formulated to improve soil adsorption, reduce run-off and leaching of spray applications of fertilizers and pesticides.

HOW IT WORKS

LATCH is designed to optimize water usage by improving the penetration of water and liquid fertilizers into the soil. This means improved performance of soil applied pesticides and provides growing roots better access to the nutrients they need.

ADVANTAGES

When soil substrates are dry, as they often are with new plantings, or when there is inconsistent rain or irrigation water, a soil surfactant (wetting agent) will reduce the surface tension of water. This reduced surface tension increases both the vertical and lateral movement of water into the soil. This improved penetration of water into the soil improves the water use efficiency of developing plants.

BENEFITS

- < Delivers peace of mind with our Next Generation Polymer Technology.
- < Creates optimum sized droplets.
- < Slows evaporation, increasing the time chemical has to work.



AEROGRIP



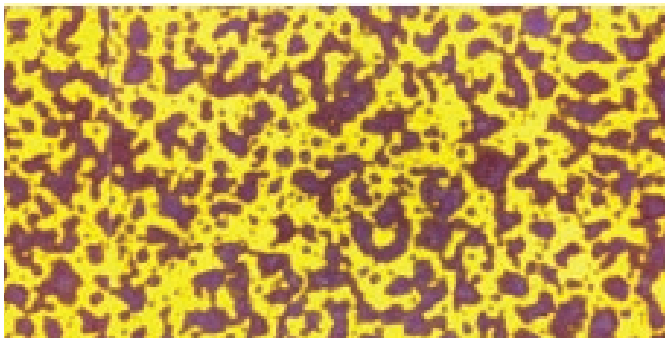
PRECISION COVERAGE. CONSISTENT DROPLETS. PROVEN RESULTS.

BENEFITS

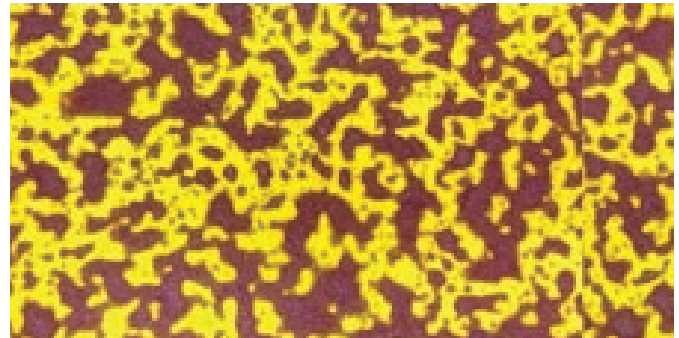
- ◀ Patented for the unique drift reduction system that limits pump shear and solution fatigue during application
- ◀ Manages droplet formation within the optimum size range
- ◀ Excellent spreading and wetting characteristics, ensures uniform surface coverage and reduced bounce or run-off
- ◀ Safe to use in-season to enhance efficacy of fungicide and insecticide applications
- ◀ 99% non-volatile
- ◀ NPE free

DROP DEPOSITION ANALYSIS SHOWS THE SUPERIOR DEPOSITION THAT AEROGRIP DELIVERS

ACTIVE INGREDIENT



ACTIVE INGREDIENT + AEROGRIP



Field Study / Sharon, WI / Nozzle: XR 11002, 40 PSI AEROGRIP - 0.25 % V/V



PREMIUM PH-OPTIMIZED WATER CARRIER FOR AERIAL APPLICATION

PUREAMP is a high performance water carrier replacement designed to maximize the effectiveness of herbicides, insecticides, fungicides, and foliar nutrients in aerial and high value ground applications. Its ultra clean profile and optimized pH create the perfect environment for chemical performance, consistent, predictable, and powerful.

BENEFITS

- ◀ Optimized Chemical Performance: Eliminates impurities and bicarbonates that can bind or neutralize active ingredients. Enhances solubility and protects product integrity.
- ◀ Superior Spray Quality: Improves coverage, eliminate a.i. tie up in the tank.
- ◀ Built for Aerial Use: Heavier droplets improve on target deposition.
- ◀ Mixing Made Simple: No foaming or clogging. Works with all chemistries.
- ◀ Consistent from Tank to Tank: No local water variability, no surprises.

IDEAL FOR

- ◀ Late-season disease & insect passes
- ◀ Complex tank mixes
- ◀ High-stakes applications with premium chemistry
- ◀ Inconsistent or poor water sources

FIELD PROVEN

- ◀ Fewer application issues
- ◀ More consistent mixing
- ◀ Cleaner nozzles and tanks
- ◀ PH Balanced to optimize chemical performance

AVAILABILITY

- ◀ 265 gallon tote
- ◀ Bulk delivery
- ◀ Seasonal or contract pricing

POWERED THROUGH EVERY STAGE

PRODUCT FIT BY GROWTH STAGE

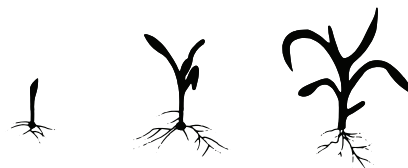


CORN GROWTH & DEVELOPMENT CHART

HIGH QUALITY, ECONOMICAL OPTION

SEED TREATMENT

PROPEL ST



FALL / SPRING FERTILIZER & BURNDOWN

BioPHY^{NEX}

BREAK_{DOWN}

MAGNATR:O

MAGNIFY

STARLINER

PLANTING TIME

BioPHY^{NEX}

MAXXUM-STAR

NOVASTAR

NSSTARTER

REDELITE+

REDFIN

RED  **SHIELD**

VE - V3

ELEVATE+

MAGNITUDE

NOVASTAR

Recess

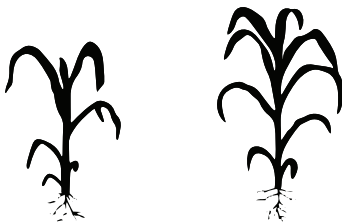
REDSTAR FULVIC

RED  **SHIELD**

SUNFED

HELPING YOU MAXIMIZE YOUR CROPS YIELD

UNDERSTANDING HOW AND WHEN YOUR CROP NEEDS TO BE FED



V5 - V10

ELEVATE+

MAGN!TUDE

NOVASTAR

Recess

REDSTAR FULVIC

RED SHIELD

SUNFED



VT - R6

BMO81

ELEVATE+

MAGN!TUDE

NOVASTAR

Recess

RED SHIELD

SUNFED

FINISH LINE

SOYBEAN GROWTH & DEVELOPMENT CHART

HIGH QUALITY, ECONOMICAL OPTION

SEED TREATMENT		
	 	
FALL / SPRING FERTILIZER & BURNDOWN	PLANTING TIME	VE
BioPHY ^{NEX}	BioPHY ^{NEX}	BREAKDOWN
BREAKDOWN	K-STAR	MAGNIFY
MAGNATR:O	MAXXUM-STAR	<i>Red</i> SWEET
MAGNIFY	NOVASTAR	STARLINER
STARLINER	REDELITE+	
	REDFIN	
	RED  SHIELD	
	<i>Red</i> SWEET	

HELPING YOU MAXIMIZE YOUR CROPS YIELD

UNDERSTANDING HOW AND WHEN YOUR CROP NEEDS TO BE FED



VC - V6

BMO81
ELEVATE+

K-STAR

MAGNIFY
MAGN!TUDE
NOVASTAR

Re:cess

RED  **SHIELD**

SUNFED

R1 - R3

BMO81
ELEVATE+

K-STAR

MAGNIFY
MAGN!TUDE
NOVASTAR

Re:cess

RED  **SHIELD**

SUNFED

R4 - R6

BMO81
ELEVATE+

K-STAR

MAGNIFY
MAGN!TUDE
NOVASTAR

Re:cess

RED  **SHIELD**



REVOLUTIONIZING AGRICULTURE

At RED SOLUTIONS, our mission is to revolutionize agriculture through state-of-the-art drone technology and comprehensive support services. We are committed to enhancing efficiency, productivity, and sustainability for farmers.



DRONE SOLUTIONS

RED SOLUTIONS helps you select the best drone tailored to your operations and needs. Our guidance includes recommending the necessary parts for optimal performance, such as batteries, chargers, and spare parts



POWER SOLUTIONS

RED SOLUTIONS assist in identifying the most suitable power solutions, including advising on and selling REDPOWER Generators to ensure your drones operate efficiently.



TRAILER SOLUTIONS

Choose from designed by RED SOLUTIONS or consult with us if you prefer to build your own. Our expertise ensures you understand best practices and avoid common pitfalls in trailer construction.



DRONE TRAINING

RED SOLUTIONS offers comprehensive assistance for certification preparation. Our programs provide the necessary tools and support to help you become a certified drone pilot

RED RISK STRATEGIES

WHO WE ARE

RED RISK STRATEGIES is dedicated to safeguarding the livelihoods of farmers and ranchers through innovative crop and livestock risk solutions. Our mission is to provide tailored coverage and expert guidance that empowers our producers to thrive in an unpredictable environment.

OUR APPROACH

We reduce your market risk, expand your marketing opportunities, and close coverage gaps with a customized plan for your farm creating efficiency, uncovering revenue, and protecting your bottom line from the top down.

WE SPECIALIZE IN



**MULTI PERIL
CROP INSURANCE**



**PRODUCTS FOR
PROFIT SHIELDING**



**STRATEGIC
MARKETING**



LIVESTOCK



**PASTURE, FORAGE
& RANGELAND**



WIND & HAIL





REDSTARNE.COM