

**2025 Soybean Guide**



# **ROI** **BIOLOGICALS**

[roibiologicals.com](https://roibiologicals.com)



# | Who We Are

***“ROI Biologicals serves growers who are focused on improving their crop productivity. We believe increasing productivity can only be accomplished by identifying then removing limiting factors.***

***With this goal in mind, ROI has developed a comprehensive system, consisting of production practices and bio-solution products, that boost beneficial plant and soil microbial activity. Higher microbial activity is the key to removing the limiting factors which hinder balanced nutrition and healthier plants.***

***Healthier plants with high microbial activity producing nutritionally balanced plants improves crop yields and quality, lowers costs per unit of production, and solves problems which results in higher profits for our growers.”***

Cody Goins, CEO, ROI Biologicals



## 2025 ROI Soybean Microbial Nutritional Program

### Preplant Broadcast

<b>BAMB</b>	<b>1 gal.</b>	See page 3 for details.
<b>Bio-Amp MP</b>	<b>1 lb.</b>	See page 5 for details.
(or) <b>Bio-Amp</b>	<b>1 gal.</b>	See page 4 for details.
<b>Sulfur</b>	<b>20 lbs.</b>	

### Seed Treatment

<b>Endo-Fight</b>	<b>1 oz.</b>	See page 6 for details.
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### Post Herbicide (V3-V5)

<b>Network</b>	<b>1 qt.</b>	See page 7 for details.
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### Foliar w/RI Fungicide

<b>Fortress</b>	<b>1 qt.</b>	See page 8 for details.
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### Foliar w/ Late RI Early R2 Fungicide

<b>Fortress</b>	<b>1 qt.</b>	See page 8 for details.
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### *A message from our CEO*

*Consistently raising farm averages and assisting growers in setting world records isn't easy. It takes a lot of work and dedication to balance the nutrition in your crops. While we do sell products individually, this complete program has been proven to work time after time.*

*- Cody Goins*



# BAMB

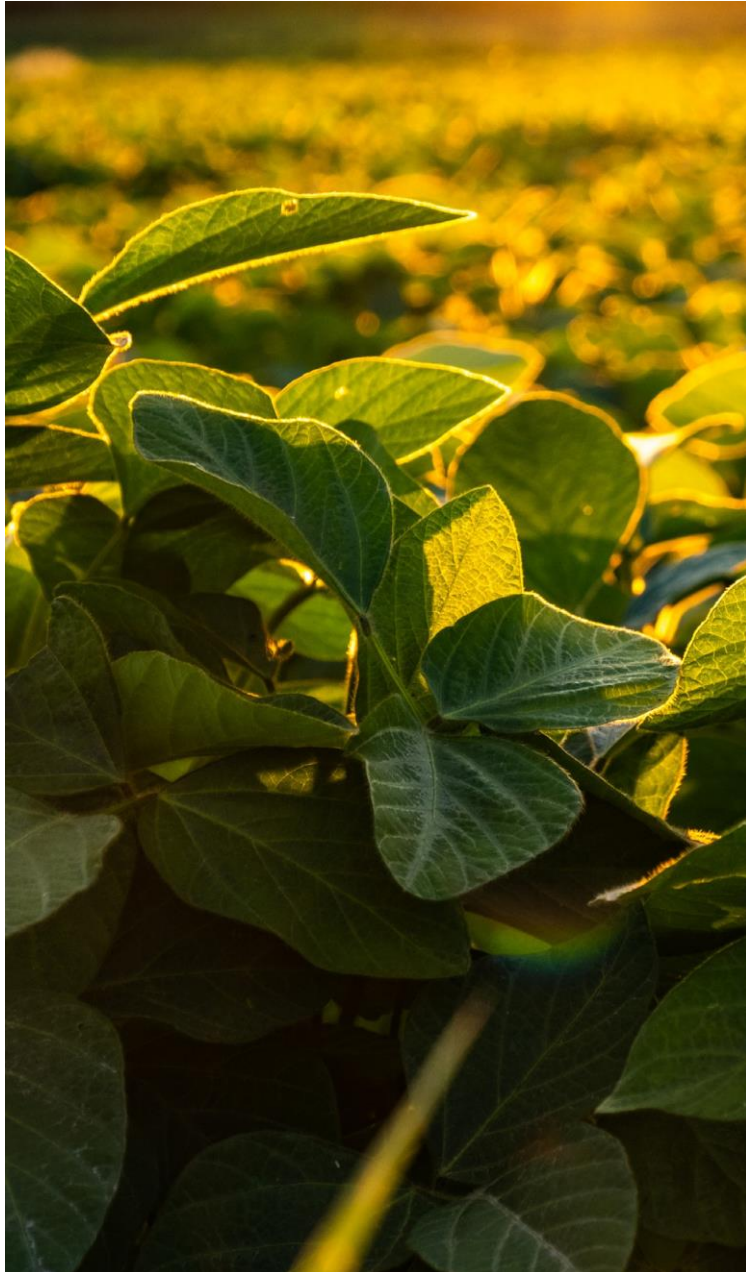
***Ensuring high microbial activity prior to planting is one of the key steps in maximizing yields.***

Jumpstart your soil microbial activity with a powerful blend of boron, molybdenum, humic acid, and M-COM technology. Designed for use prior to planting, BAMB aids in stimulating soil microbes prior to planting and promoting robust plant growth.

- **Enhances Soil Microbial Activity:**  
Our unique formula stimulates beneficial soil microbes essential for plant health and nutrient cycling.
- **Boron & Molybdenum For Plant Health:**  
These trace minerals play critical roles in nitrogen uptake and utilization, phosphorus availability and uptake, K uptake, enzyme function, and other nutrient assimilation, ensuring your crops are healthier and more resilient.
- **Humic Acid For Improved Soil Structure:**  
Stimulates activity of soil fungi, enhances nutrient retention and promotes better water infiltration, creating an optimal environment for roots to thrive.
- **M-COM Technology:**  
M-COM technology has been proven to boost populations of soil microorganisms that improve the availability of nearly all nutrients. This naturally derived plant growth promoter not only boost the numbers of beneficial microbes, but also stimulates plants to be more resilient to abiotic stresses.

**Use Rates:** 1 GPA pre-plant with burndown/pre-emerge herbicide





***Bio-Amp is the only humic acid product that is full of diverse life!***

Bio-Amp is our new humic and fulvic acid product. Bio-Amp is made with a patented extraction process that includes multiple humic mine sources, maximum retention of functional groups of humic acids, natural carbohydrates and amino acids, as well as retaining over 1,000 species of soil microorganisms from Humate materials.

- Bio-Amp contains naturally occurring bacteria, fungal species, and algae species.
- Bio-Amp is shown to improve numbers/populations of soil microbes within 24 hours of application. Most products take 1-3 weeks before they begin to “feed” microbes due to the chemicals in the extraction process.
- Bio-Amp is non-KOH extracted. KOH extraction produces higher lab testing concentrations of humic acid, but it destroys most of the biology in the humic acid parent material. Our new extraction method ensures the survivability of over 90% of the microorganisms from the parent material. Because of this, our new humic acid product is loaded with beneficial bacteria, fungi, and algae that will improve root and plant health when applied pre-plant, in furrow, in 2x2/with nitrogen, or foliar.

**Use Rates:**    *1 gal. broadcast with nitrogen fertilizer or chemical burndown*  
                          *1 gal. per 100 gallons of UAN solution*

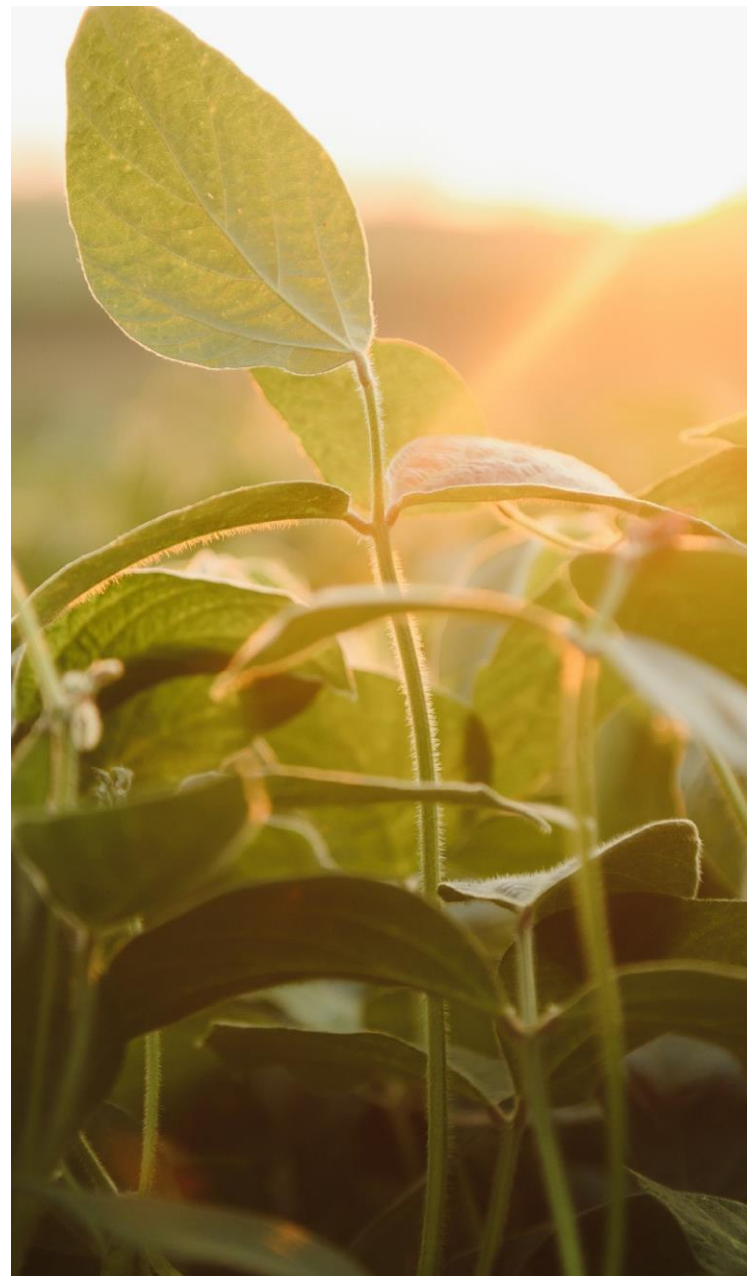
# Bio-Amp MP

***Experience the power of nature's best with our advanced water soluble formulation of Micronized Humic and Fulvic Acids.***

Introducing Bio-Amp MP Water Soluble Micronized Concentrate. Designed for agricultural use, Bio-Amp MP enhances nutrient availability, promotes healthy root development, and boosts plant growth.

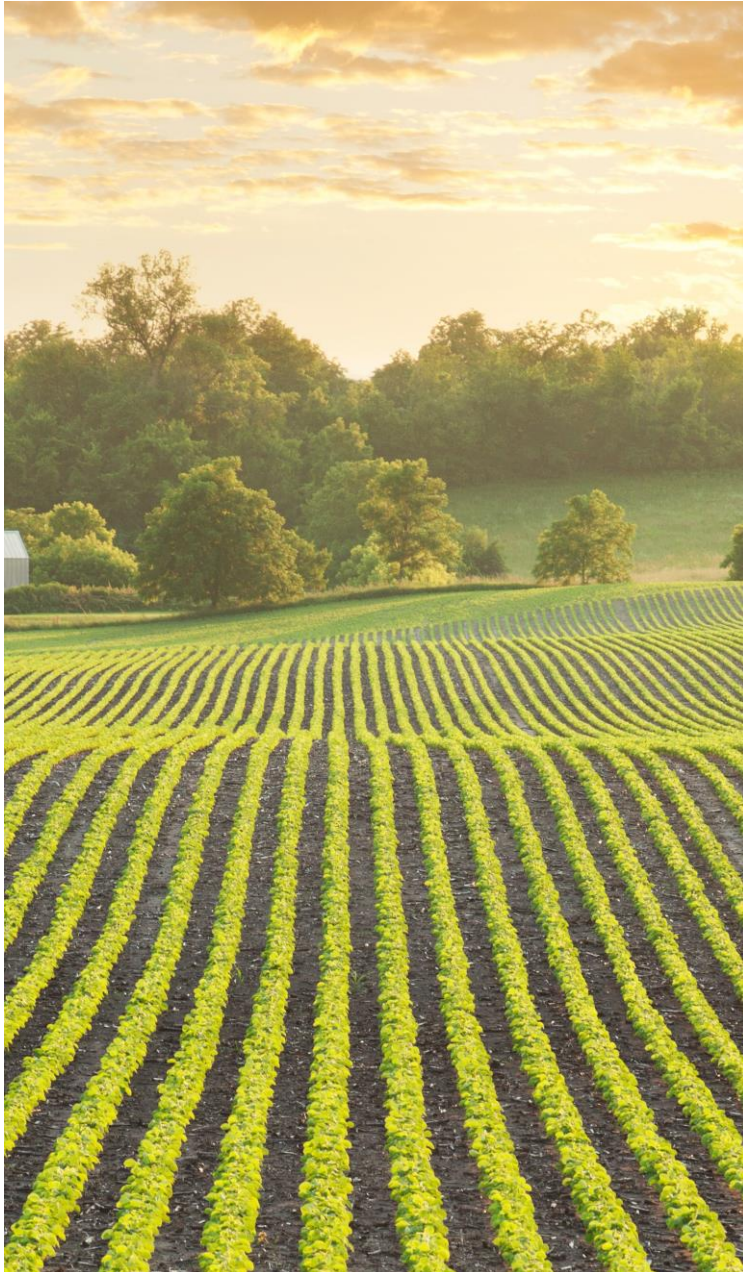
- **Enhanced Nutrient Uptake:**  
Humic and fulvic acids improve the absorption of macro and micronutrients, ensuring your plants receive the essential elements they need for vibrant health. Humic and fulvic acids also feed and stimulate the growth of beneficial soil microbes, particularly fungi.
- **Improves Soil Structure:**  
Our concentrated formulation helps to break up compacted soil, increases aeration, and improves water retention, leading to healthier root systems.
- **Multiple Mine Technology:**  
Comprised of humic and fulvic acids from multiple mines, Bio-Amp MP contains a perfect balance of functional groups which ensures the highest bioactivity on the market. No single mine has the “perfect” humic or fulvic acid....so we have sourced from multiple mines to create the most balanced, broad-spectrum humic and fulvic acid possible.

**Use Rates:** *Apply 1-3 lbs/acre pre-plant. Dissolve in water prior to adding burndown /pre-plant herbicides and/or Nitrogen to spray tank.*





# Endo-Fight |



## ***Entomopathogenic fungi for corn, soybeans, wheat, cotton, potatoes, and more.***

Endo-Fight is a dual purpose fungus that is applied to the seed via seed treater, planter box application (talc/graphite replacement), or applied as a liquid in furrow product. It performs multiple functions that improve plant health and yield, such as:

- **Insect suppression:** Endo-Fight grows into plant roots and up through the xylem and phloem, and presents itself on the surface of leaves, stems, and fruits. When certain insects walk across the plant surface, Endo-Fight attaches to the insect and grows around it, suffocating and killing the insect within 2-5 days of contact.
- **Nutrient uptake:** Endo-Fight has been shown to increase K, Zn, Cu, Fe, Mn, and other nutrients. In over 30% of our trials, nutrient level increases of over 200% have been recorded. Nutrient content increases of 20% or more have been recorded in over 80% of side by side comparisons.
- **Beneficial metabolite production:** Endo-Fight produces dozens of beneficial metabolites that it shares with its host plant (your crop). These chemicals enhance plant performance in the midst of abiotic stress such as heat, cold, drought, disease attack, insect attack, and other stressful situations that your crop faces every year.
- **Grain quality improvement:** Endo-Fight has dramatically improved grain quality in both corn and wheat. 100%+ reductions of DON and other mycotoxins have been recorded in most grain quality trials. Higher test weight is typical. Defects, damaged seed, and live insects in grain have also been dramatically reduced in grain quality trials.

**Use Rates:** 1 oz. in furrow or seed applied (liquid)  
2 oz. per acre planter box

# Network

***Network is used in furrow and foliar, has been used in countless farm records, state records and even on the past 6 World Records. This is our number one product across the country for corn, soybeans, wheat, cotton, and speciality crops.***

Network is a product that contains humic and fulvic acid, amino acids, seaweed extract, multiple microalgae strains, zinc, molybdenum, and two proprietary plant growth promoters (PGPs). We individually test every ingredient in this product by growing microorganisms to verify each ingredient is growing and multiplying microbes, with a focus on growing soil fungi.

- Network consists of six biological base components with over 100 individual compounds that stimulate plants and microbes. Network also contains two specific micronutrients that enhance the stimulation and populations of soil microorganisms.
- Broad-spectrum food source for soil microbes that increases populations of both beneficial bacteria and fungi
- Patented PGP, plus a secondary proprietary plant growth promoter, which is highly synergistic with the original PGP. Together these PGPs increase resistance to both biotic and abiotic stresses.
  - Faster germination and emergence when applied in furrow
  - Increased nutrient uptake and translocation in the plant
  - Improved abiotic stress tolerance and disease/insect resistance in treated crops
  - Improved rhizosphere and phyllosphere population and diversity

## Use Rates:

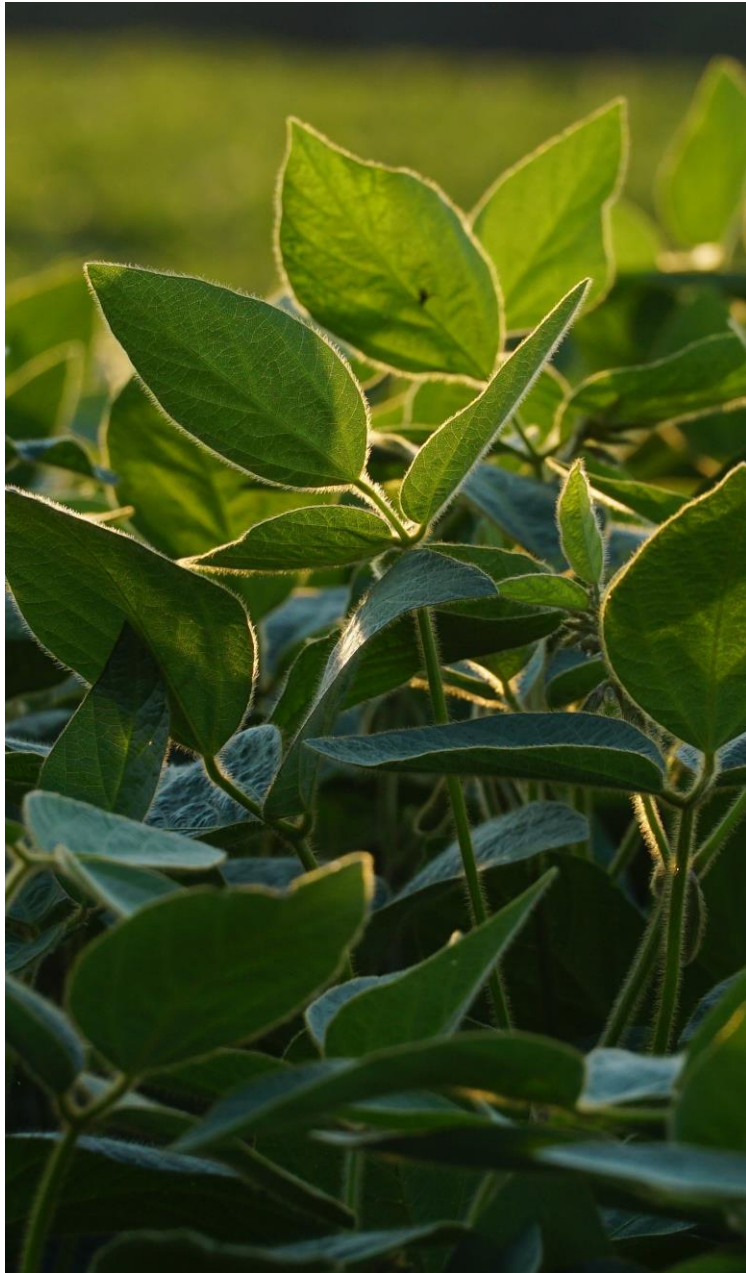
*In furrow: 2-4 qts. per acre*

*Foliar application with nutrients: 2 qts. per acre per application*

*Foliar application with post herbicides: 1 qt. per acre*







***Top single app yield improvement product from 2020-2023 on corn and soybeans.***

Fortress is our #1 blend of biologicals for foliar tank mixes with fungicides. In this product you will find fulvic acid, other organic acids, true kelp extract, multiple strains of microalgae, a stress mitigating PGP, boron, and molybdenum. These ingredients help to boost photosynthesis and extend the longevity of applied fungicides. Fortress functions as a complexing agent for micronutrients and provides a source of natural plant growth promoting compounds and added organic carbon.

- Fortress is designed to maximize results with fungicide applications on soybeans, corn, wheat, watermelons, cotton, and other crops.
- Fortress contains high rates of organic acids, cold water algae, bio-stimulants, and key nutrients for fungicide activity.
- Yield data has shown a 6+ bushel increase on corn and 4+ bushel increase on soybeans with one quart applied with fungicides compared to fungicide alone (average of multiple replicated trials on both corn and soy).
- Fortress provides improved photosynthesis, mitigates stress during reproductive stages, increases uptake and translocation of nutrients, extends life of fungicides, and improves grain fill on all crops.

**Use Rates:** *1 qt. per acre with fungicide application on any crop*

# | Other Considerations

## The Value of Tissue Sampling

***To increase your crop yields, it is critical to remove your limiting factors. Why spend money on your acres until you know exactly what is most limiting?***

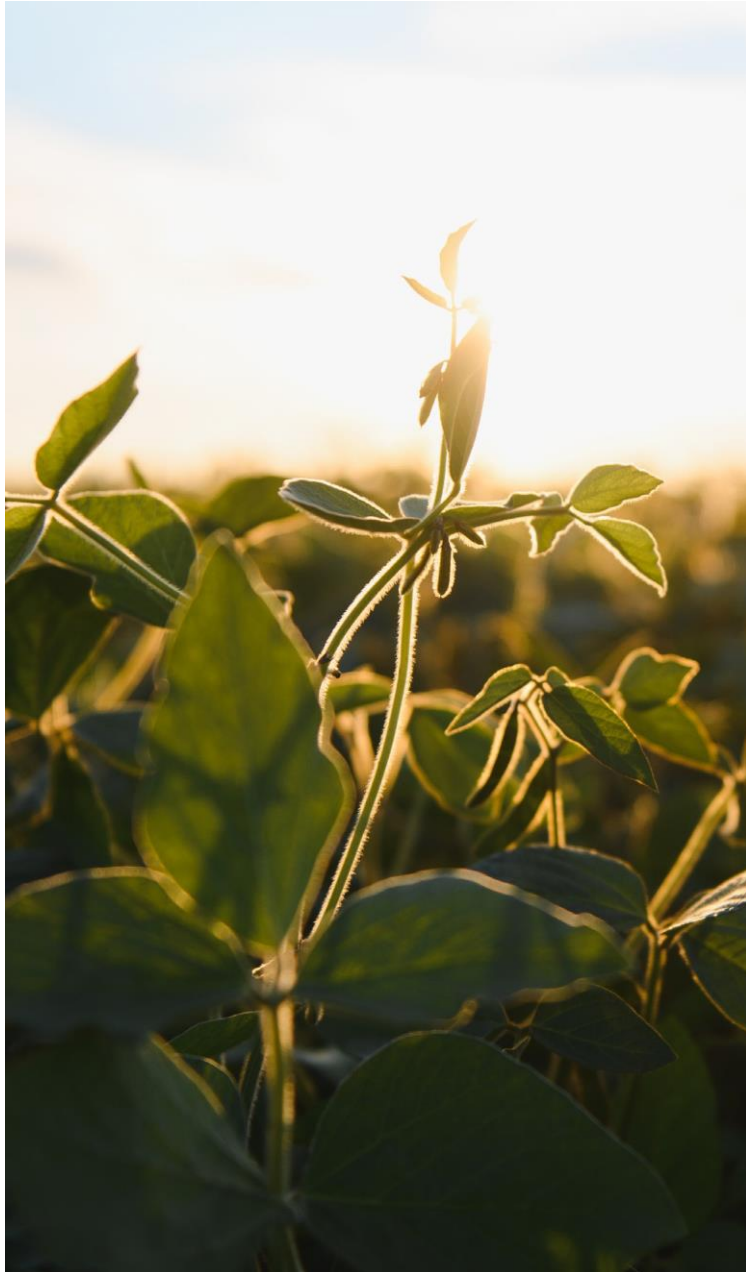
### Tissue Sampling:

- Enables growers to identify nutrients that limit yields or quality
- Allows deficiencies or imbalances (limiting factors) to be corrected in-season (remove stress) to increase crop yields and quality
- Identifies nutrient deficiencies or imbalances required to protect crops from diseases and insects
- Lowers costs because excessive rates and unnecessary nutrient applications are avoided
- ROI's proprietary AgPLUS tissue sampling database uses 176 algorithms to identify which nutrient is MOST limiting to yield. ROI also utilizes 44 virtual weather stations across the country to ensure accurate data.
- You must remove what is most limiting to see a yield increase. If you don't correct the most limiting nutrient, you are not likely to get a consistent response to any treatment.





# Other Considerations |



## Four Components of Soybean Yield

***Soybean yield is made up of only four components. In order to maximize yields you must implement a full system that maximizes each one of these four components.***

To replicate success (yield increase) we must know which component of yield was impacted.

To help growers improve yields, we will complete an analysis of yield components on your farm. We will find the areas that need most improvement and develop an action plan to maximize those components for your specific operation.

## Biologicals

The topic of “biologicals” can be confusing. To simplify this, ROI defines biologicals in three separate categories: prebiotics (feeds living organisms), probiotics (contains living organisms), and PGP (naturally derived substance that stimulates and enhances plant growth and development). It is important to understand what you are using and specifically how that product adds value.

## Soil Biology Sampling

ROI offers soil biology sampling to evaluate your levels and ratios of the four key soil microorganisms: bacteria, fungi, protozoa, and nematodes. To track the success of biological programs, we can measure and remeasure biology after application.



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