

# SOYBEANS

## PLANT ADVANTAGE™



Soil-Set®, Nature's Basics® 2X, Scyon®, aCalsa® SC and Liqui-Plex® Bonder work together to give soybeans an advantage for improved durability, plant health and yield.

### SOIL HEALTH

Use **Soil-Set** to:

- Increase populations of beneficial microbes to outcompete soil pathogens.
- Maximize nutrients available to the plant.
- Improve residue breakdown and soil organic matter.

### CROP DEVELOPMENT

Use **Nature's Basics 2X** to:

- Provide energy to bolster soybean metabolic processes.
- Help soybeans work more efficiently to achieve enhanced performance and durability when facing in-season stressors.

Use **aCalsa SC** to:

- Increase root development and exudation.
- Improve nutrient uptake, pod fill and ultimate yield.

### CROP DEFENSE

Use **Scyon** to:

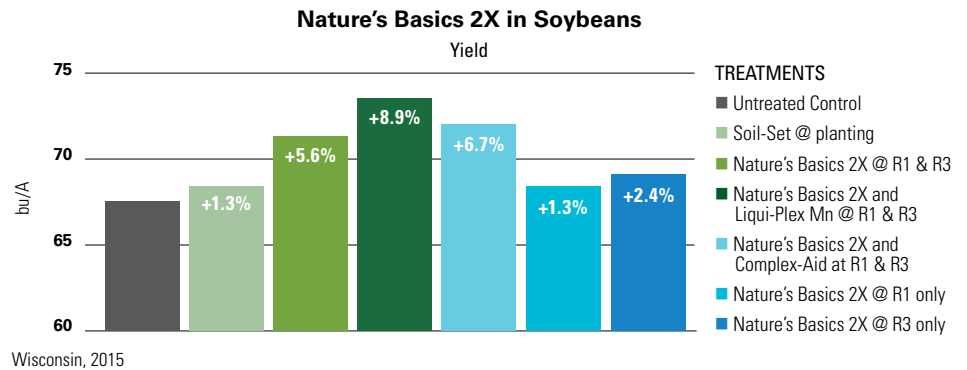
- Improve nutrient uptake, transport, storage and mobilization.
- Elevate photosynthetic activity for additional plant productivity
- Bolster plant immune response to abiotic stressors.

### AMINO ACIDS

Use **Liqui-Plex Bonder** to:

- Provide a natural, balanced source of 18 essential amino acids.
- Help manage soybean response to environmental stress and aid in recovery from herbicide injury.

Soybeans showed optimal crop response when **Nature's Basics 2X** was applied both at R1 and R3, especially when paired with **Liqui-Plex** amino acids.

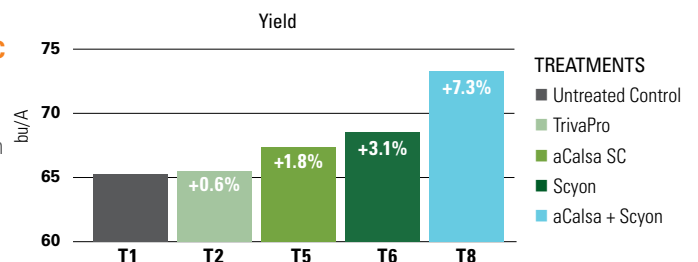


Healthy soils have a balanced profile, including readily-available moisture and nutrients, balanced pH and a robust population of beneficial microbes.

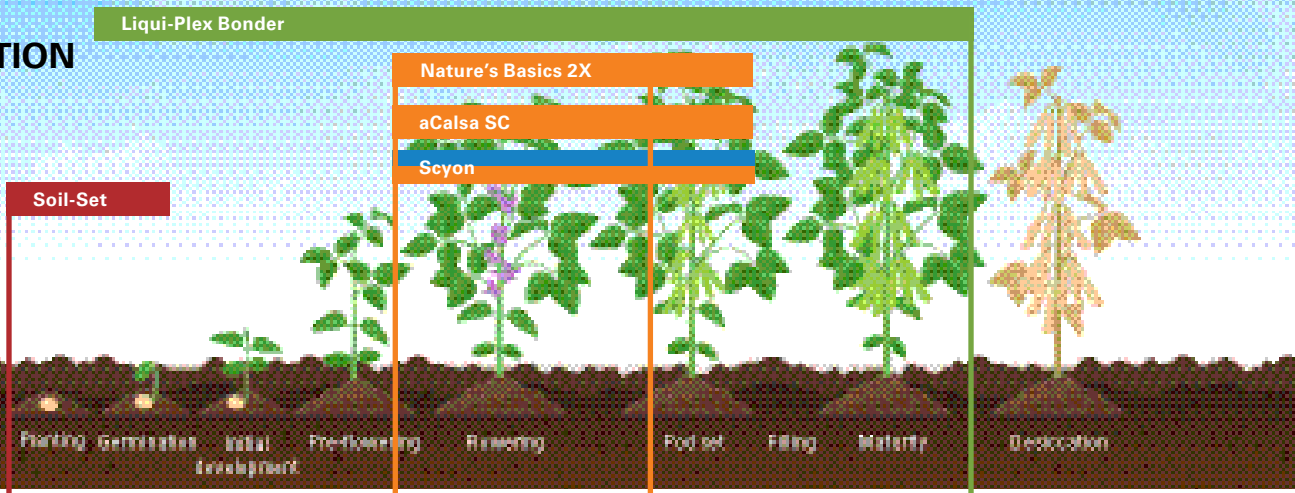
Types of Soil Microbes and Benefits	Population Growth with Soil-Set 16 fl oz/A
Ammonifying bacteria decompose nitrogen-rich waste into nitrites	+23%
Oligotrophic bacteria facilitate more efficient nutrient uptake in low nutrient soils	+28%
Nitrogen-fixing bacteria make atmospheric nitrogen available in soil	+43%
Filamentous bacteria break down organic residues and form soil humus and antibiotic compounds	+81%
Pedotrophic microflora aid in forming soil humus	+47%
Soil phosphorus mobilizing microorganisms	+90%
Cellulose degrading bacteria	+54%
Microfungi (various) break down organic residues; many can form symbiotic relationships with plants.	+70%
Azotobacter make atmospheric nitrogen available in the soil	+2% (maximum reached)

**Scyon** and **aCalsa SC**

showed improved performance and yield in soybeans both individually and when applied together.



# APPLICATION TIMING



	SOIL HEALTH	CROP DEVELOPMENT			AMINO ACIDS
	<b>SOIL SET®</b>	<b>NATURE'S BASICS® 2X</b>	<b>aCalsa<sub>SC</sub></b>	<b>Scyon®</b>	<b>LIQUI-PLEX® BONDER</b>
<b>Rate</b>	10 fl oz/A in furrow, or 16 fl oz/A	10 fl oz/A	27 fl oz/A	16 fl oz/A	16-64 fl oz/A
<b>Application Timing</b>	Broadcast pre-plant or at planting	At early bloom (R1). Repeat at early pod development (R3)	R1 - R3	Dependent on crop conditions: at bloom or later	Dependent on crop conditions

## SCIENCE-BASED SUPERIORITY

In contrast to live microbial products, which require fostering a viable culture in precise environmental conditions, our products use the beneficial metabolites produced by microbes – not the microbes themselves. The result is a consistent, effective product every time.

### About fermentation and metabolite technology

Many of HELM's Plant Advantage products are built on a foundation of fermentation-based metabolites. These metabolites have a beneficial effect on soil and crops. They won't feed harmful microbes or pathogens and, in many cases, will outcompete pathogens to reduce plant stress.

### Where our fermentation- and metabolite-based products win:

- Stable and stand up to most on-farm storage conditions.
- Can be stored for multiple growing seasons without compromising quality.
- Compatible with most tank mix chemicals.
- Produced in a laboratory setting for high precision, uniformity and consistency with every batch.

Geek out on **more** fermentation science:



**Give this year's soybean crop the ultimate advantage.**

Reach out to your regional HELM sales rep today.



**HELM Agro US, Inc.**

401 E. Jackson St.  
Suite 1400  
Tampa, FL 33602

P: 813.621.8846

F: 813.621.0763

connect@helmagro.com

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