



THE MERISTEM SOYBEAN ACRE
BRINGING MERISTEM IN EVERY PASS TOGETHER
ON THE SOYBEAN ACRE



MERISTEM
CROP PERFORMANCE

DRIVING FAST, EARLY PLANT GROWTH

THE MERISTEM SOYBEAN ACRE BRINGING MERISTEM IN EVERY PASS TOGETHER ON THE SOYBEAN ACRE

The Meristem soybean acre is all about putting the right product sets together to maximize nutrient use efficiency, building strong healthy plants fast and optimizing genetic potential in-season. Once EXCAVATOR and REVLIN HOPPER THROTTLE and RACEREDY™ COMPLETE is put to work in the planter pass, the focus becomes mitigating yield-robbing stresses and foliar nutrition.

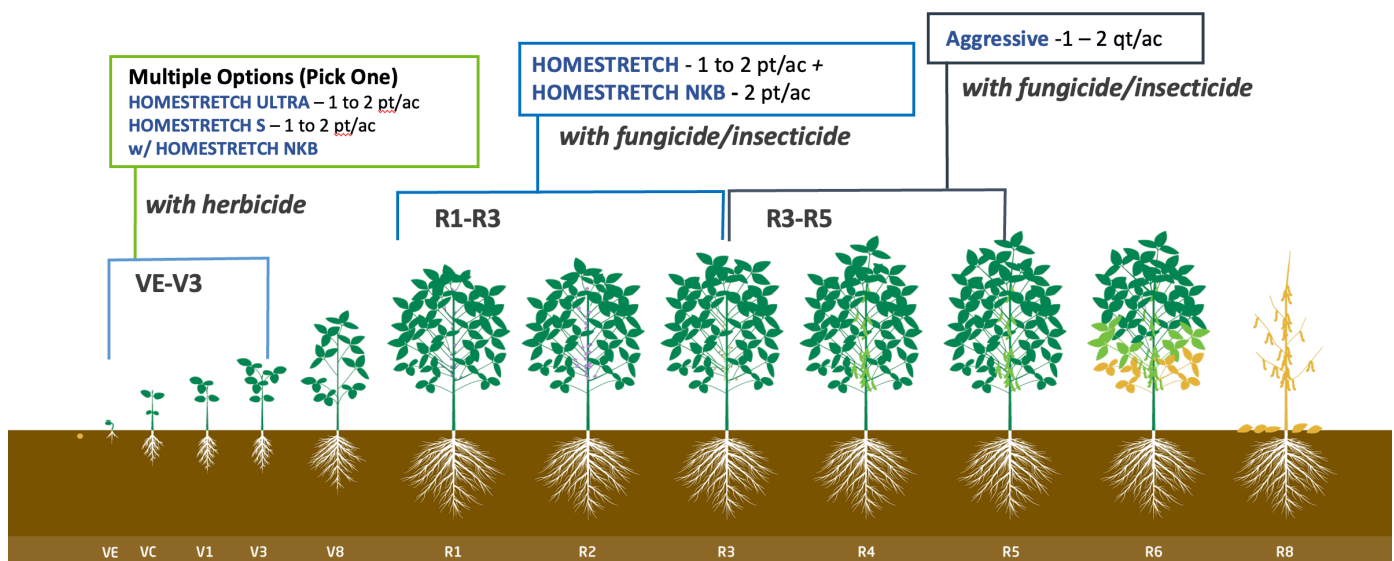
When we help farmers begin to build an in-season crop input plan, the following discussion points are important.

When a soybean plant determines yield

Identifying nutrient deficiencies

Discussing when the best time is to apply nutrients and plant growth regulators/biostimulants for the best results

How post-herbicides and environmental conditions can cause stress

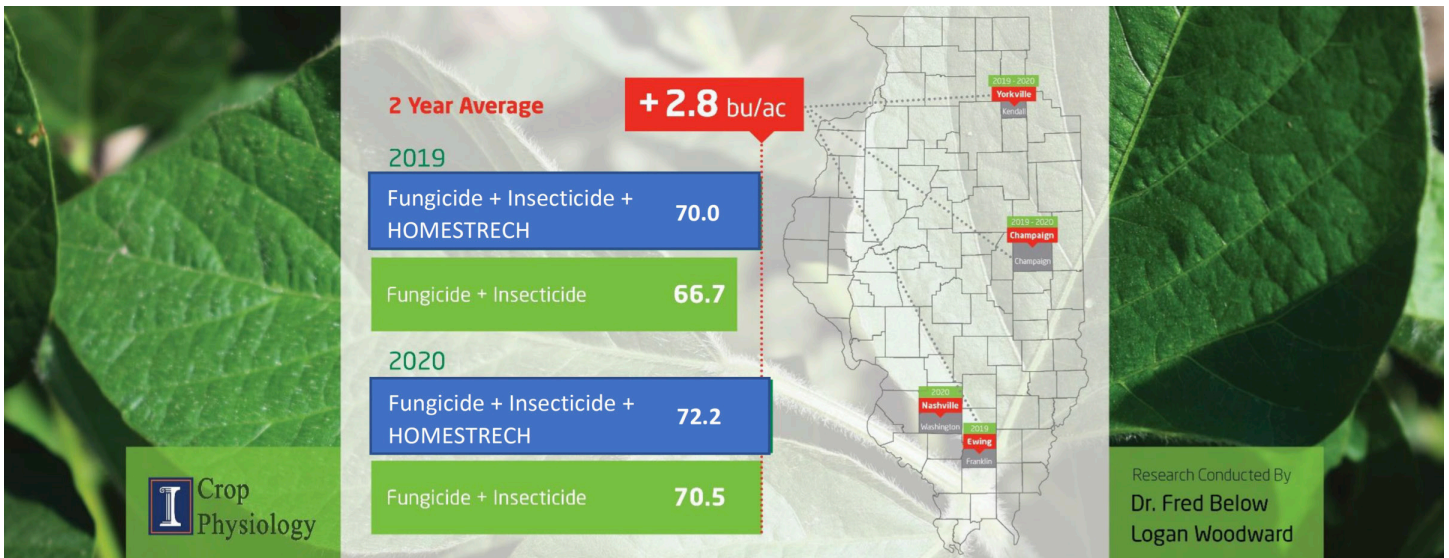
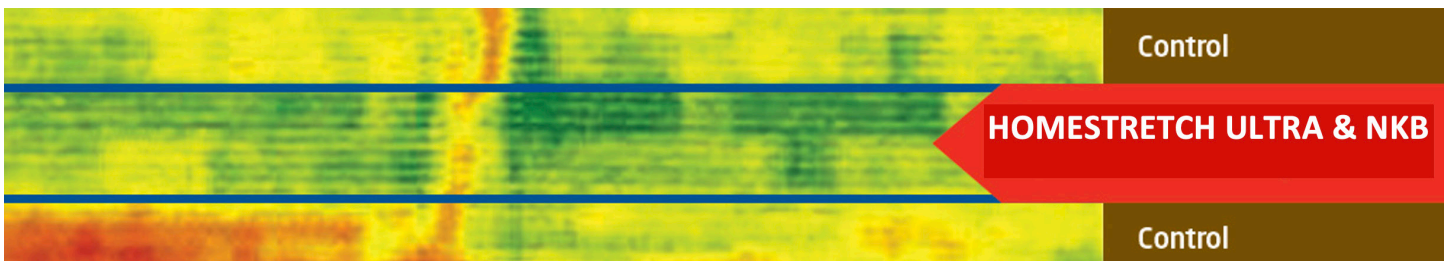


DRIVING FAST, EARLY PLANT GROWTH

THE MERISTEM SOYBEAN ACRE SOYBEAN ENTRY PROGRAM

FARMERS GETTING INTRODUCED TO THE CONCEPT OF HIGHER-MANAGEMENT CROPPING SYSTEMS IN SOYBEANS.

Pass/Timing	Product	Rate	SRP/ac*
Post-Herbicide Pass	HOMESTRETCH ULTRA	1qt	\$9.45
Fungicide Pass	HOMESTRETCH NKB	1qt	\$9.15



I Crop Physiology



DRIVING FAST, EARLY PLANT GROWTH

THE MERISTEM SOYBEAN ACRE HIGH YIELD SOYBEAN PROGRAM

FARMERS DRIVING FOR HIGH YIELD SOYBEANS

In this scenario, the recommendation now includes a plant growth regulator (PGR), STIMULATE® and a stress-mitigation product, HARVESTSHIELD™. The PGR helps plants grow through early-season herbicide antagonism and other stressors, additionally this allows for increased lateral branching promoting more flowering sites. The unique combination of amino acids and biostimulants in HARVESTSHIELD™, applied late-season, mitigates environmental stressors increasing flower and pod retention.

Pass/Timing	Product	Rate	SRP/ac*
Post-Herbicide Pass	HOMESTRETCH ULTRA	1qt	\$9.45
	STIMULATE	2oz	\$3.17
Fungicide Pass	HOMESTRETCH NKB	1qt	\$9.15
	HARVESTSHIELD	1pt	\$9.50

Setting & Retaining Pods

Flower and Pod Abortion (30 to 70%)

- Approximately half of this abortion occurs before the flowers develop into young pods
- The other half is due to pod abortion.

Stress

- Abiotic Stress (environment) and Biotic Stress (disease)

Fertility

- General Fertility
- Micronutrients are as critical in development of flower and retention of pods and NPK & S



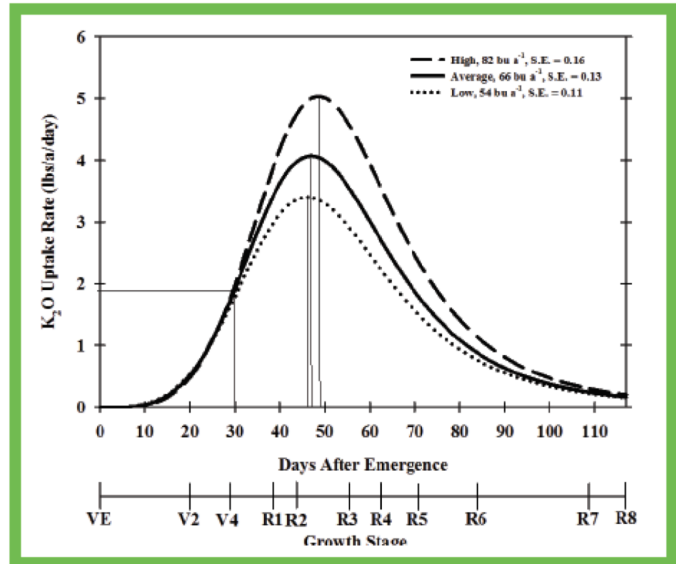
Figure 1. B-deficient soybean pods, Slaton, U. of Arkansas, 2003.

DRIVING FAST, EARLY PLANT GROWTH

THE MERISTEM SOYBEAN ACRE HIGH YIELD SOYBEAN PROGRAM

POTASSIUM Uptake in High Yield Beans Soybeans

- After R1 the uptake rates for each yield level separate out and reach peak uptake rates shortly after R2, ranging between 3.5 - 5.2 lbs. K₂O /A./day.
- As much as 90 to and 100 percent of the total K uptake is reached by R5.5 at the high, average and low yield level, respectively.

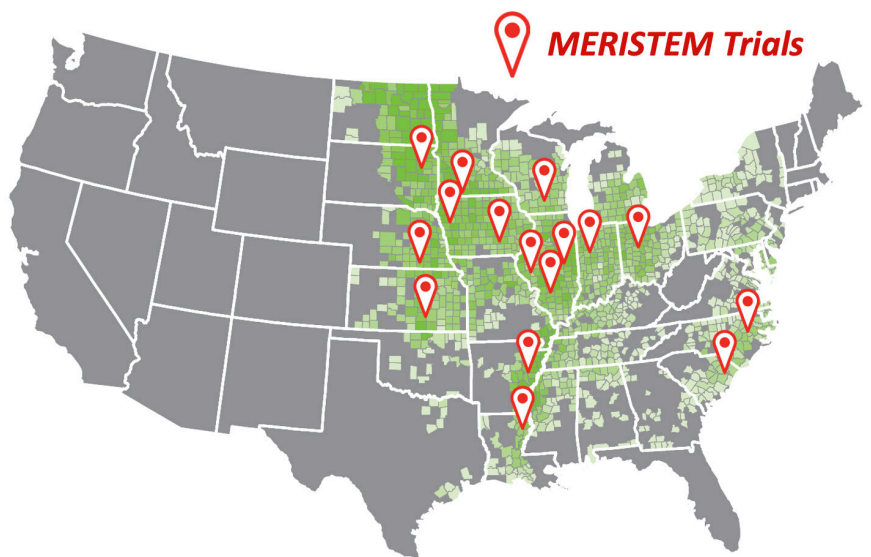


HOMESTRETCH Soybeans Trial Locations and Yield Results

Yield Increase
BRANDT HOMESTRES ULTRA
2.3 bu/ac

Yield Increase
HOMESTRETCH ULTRA
+ HOMESTRETCH NKB
3.3 bu/ac

Win Rate
Grower Doubles
Investment
> 70%





HOMESTRETCH[™] ULTRA[™] NUTRITIONAL

Put Plants on the Fast Track to Higher Yields

Farmers that drive for yield know that season-long plant health is critical to maximizing genetic potential. Foliar feeding is one of the most efficient ways to supply nutrition to crops during critical growth stages. HOMESTRETCH[™] ULTRA by Meristem[™] Crop Performance is a foliar-applied formulation of 5-0-0 with an advanced formulation of micronutrients. It is ideal for in-season nutrient applications on row crops and is an *excellent* tank mix partner.

HOMESTRETCH[™] ULTRA is approved for use with Engenia[®], XtendiMax[®] with VaporGrip[®] Technology and FeXapan[™] Plus VaporGrip[®] Technology.

For info, visit:

- EngeniaTankMix.com
- XtendiMaxApplicationRequirements.com

PRODUCT BENEFITS

- **Ultimate tank mix formulation compatibility**
- **Compatible with 2,4D, Dicamba, and Fomesafen-based herbicides**
- **Excellent compatibility in ultra low spray volumes such as aerial applications**
- **Drives season-long plant health by providing micronutrients critical for growth and development**
- **Prepares plants to deal with season-long stressors**
- **At a value that just makes sense**

APPLICATION RECOMMENDATIONS

Apply 1-2 quarts per acre per application throughout the growing season. More frequent applications at 1 pint per acre may be needed to correct deficiencies once they occur.

Please visit MeristemAg.com for more information.

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HOMESTRETCH[™] ULTRA ACTIVE INGREDIENTS

Guaranteed Analysis	5-0-0
Total Nitrogen (N).....	5.00%
Sulfur (S).....	2.00%
Boron (B)	0.50%
Manganese (Mn)	2.00%
Molybdenum (Mo)	0.05%
Zinc (Zn)	2.00%

AGRONOMIC BENEFITS

Sulfur: aids in protein and enzyme synthesis.

Boron: essential to new growth, pollination and reproduction. Stabilizes cell walls, which provides plant structure and integrity. Also aids in nitrogen assimilation and root nodulation formation, which enhances nitrogen uptake and utilization.

Manganese: aids in herbicide metabolism, chlorophyll formation and plant respiration. It is also critical to photosynthesis.

Molybdenum: promotes root nodulation growth and enhances nitrogen utilization.

Zinc: promotes root and shoot growth; helps plants withstand environmental stress.

PRODUCT AVAILABILITY

Products are available in both 2.5 gallon jugs and 250 gallon totes.



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1-833-637-4783 (MERISTEM)

STIMULATE™ AUXIN/CYTOKININ

OPTIMIZE THE GENETIC POTENTIAL OF EVERY PLANT IN YOUR FIELD

Plant Growth Regulators (PGR) are essential for enhanced germination, uniform emergence, and vigorous growth. Stimulate Auxin/Cytokinin provides two essential, growth-promoting plant hormones for optimal crop development and yield.

Stimulate Auxin/Cytokinin contains indole-butyric acid for fast, vigorous root growth and cytokinin for optimal growth of vegetative and reproductive parts of the crop.

ACTIVE INGREDIENTS:

Cytokinin (as kinetin) 0.15%

Indole-3-butyric acid 0.85%

GUARANTEED ANALYSIS

Designed to help plants function more efficiently. Not replacement for sound agronomy and fertility programs. This product works in concert with good farming practices to help the plant realize its true yield potential.

PRODUCT FEATURES

BOOSTS ROOT GROWTH + PLANT VIGOR

Stimulate Auxin/Cytokinin has key ingredients to optimize season-long plant development, leading to higher yield.

IMPROVES PLANT HEALTH + PHYSIOLOGY

Stimulate Auxin/Cytokinin enhances cell division and nutrient uptake, setting the stage for maximum yield.

INCREASE YIELD POTENTIAL + GRAIN QUALITY

An EPA-registered product, Stimulate Auxin/Cytokinin enhances naturally occurring hormones within the plant to optimize genetic expression.

RECOMMENDED FIELD APPLICATIONS

Stimulate Auxin/Cytokinin is formulated for foliar application at a recommended rate of 2.0 oz/ac.



FOLIAR

Mixes well with most crop protectants.

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HOMESTRETCH™ NKB NUTRITIONAL

Put Plants on the Fast Track to Higher Yields

Farmers that drive for yield know that season-long plant health is critical to maximizing genetic potential. Foliar feeding is one of the most efficient ways to supply nutrition to crops during critical growth stages. HOMESTRETCH™ KB by Meristem Crop Performance™ is a 2-0-16 formulation with a boost of boron. It is ideal for in-season nutrient applications on row crops and is an *excellent* tank mix partner.

HOMESTRETCH™ KB is approved for use with XtendiMax®, Engenia®, FeXapan™, Enlist Duo® and Enlist One®.

For info, visit:

- XtendiMaxApplicationRequirements.com
- EngeniaTankMix.com
- FeXapanApplicationRequirements.dupont.com
- Enlist.com/en/herbicides/approved-tank-mix.html

PRODUCT BENEFITS

- Ultimate tank mix formulation compatibility
- Maximum nutrient mobility and efficiency, allowing for a lower application rate per acre
- Low salt index and low impurities
- Contains a proprietary, high efficiency form of boron
- Healthier plants, stress mitigation, enhanced quality and yield
- At a value that just makes sense

HOMESTRETCH™ KB ACTIVE INGREDIENTS

Guaranteed Analysis	2-0-16
Nitrogen (N)	2.00%
2.0% Urea Nitrogen	
Soluble Potash (K ₂ O)	16.00%
Boron (B)	2.50%
Molybdenum (Mo)	0.20%

AGRONOMIC BENEFITS

Boron: essential to new growth, pollination and reproduction. Stabilizes cell walls, which provides plant structure and integrity. Also aids in nitrogen assimilation and root nodulation formation, which enhances nitrogen uptake and utilization.

Potassium: assists with drought tolerance, nodulation, lodging resistance and defense against insects and diseases. Critical to high yields.

APPLICATION RECOMMENDATIONS

Apply 1-2 quarts per acre per application throughout the growing season. More frequent applications at 1 pint per acre may be needed to correct deficiencies once they occur.

PRODUCT AVAILABILITY

Products are available in both 2.5 gallon jugs and 250 gallon totes.

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Reduce Plant Stress - Protect and Enhance Genetic Potential

HOMESTRETCH™ HARVESTSHIELD by Meristem Crop Performance™ is a stress-mitigating biostimulant and nutritional designed to reduce plant stress and improve yield in tough conditions.

Stay protected in times of stress due to extreme temperature, drought or water stress with HARVESTSHIELD's special formulation of botanical extracts rich in natural auxins, vegetal amino acids, tryptophan, arginine and high performance surfactants all brought together to improve performance during difficult growing conditions.

PLANT EXTRACTS

Each plant extract contained in HARVESTSHIELD™ has components vital to stress mitigation or cell division. Polyphenols protect the plant from oxidation caused by environmental stresses or stresses on the plant during rapid growth stages. Auxins are known to stimulate cell division. Additionally, betaines keep water content stable in plant cells.

ARGININE

Arginine is an amino acid building block for polyamines. Polyamine production increases during times of environmental stress including drought, heat and high salinity levels in soil.

TRYPTOPHAN

The amino acid building block for Indole-3-acetic acid (IAA). Tryptophan assists plants in cell expansion and cell division.

5-8-4

GUARANTEED ANALYSIS

Total nitrogen (N)	5.00%
0.60% Organic Nitrogen (N)	
1.00% Nitric Nitrogen (N)	
1.7% Ammoniacal Nitrogen (N)	
1.7% Ureic Nitrogen (N)	
Available phosphate (P2O5)	8.50%
Soluble Potash (K2O)	4.00%
Organic Carbon* (C)	3.00%
<small>*of biological origin</small>	

RECOMMENDED USE RATE

Apply 1 pint per acre with a minimum 10 gallons of water.

PRODUCT AVAILABILITY

- 2.64 gallon containers
- 250 gallon totes

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PGR Biostimulant—Liquid

- Kinetin (.12%)
- GABA (.98%)
- Choline Chloride (1.95%)



Timing: Early reproductive · Rate: 12.8 oz/acre

Inertia is a fortified cytokinin designed to increase pollination and support photosynthesis during fruit or grain fill. The unique combination produces more flowering/fruitlet sites, and more importantly increases the plant's net capture of solar energy to help drive sugar production.

Influence Reproductive Stage

Early reproductive application increases branching, flowering, and fruiting sites

Optimize Plant Metabolism

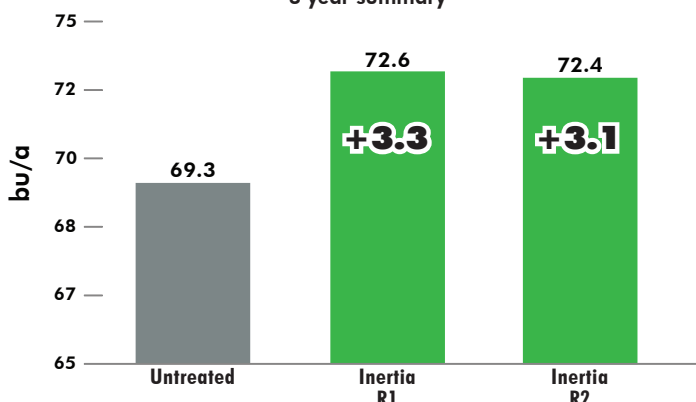
Strengthens plant cell structures and maintains photosynthesis, even in stress conditions

Produce Larger Yields

Boost yield potential by increasing pod/grain size and reducing abortion incidence

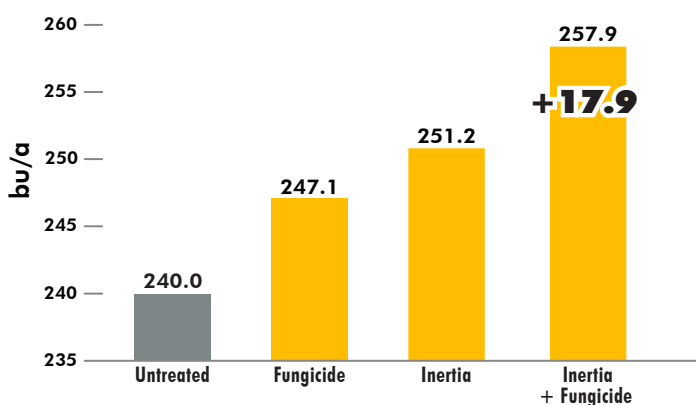
Inertia on Soybean

Replicated Trials
3 year summary

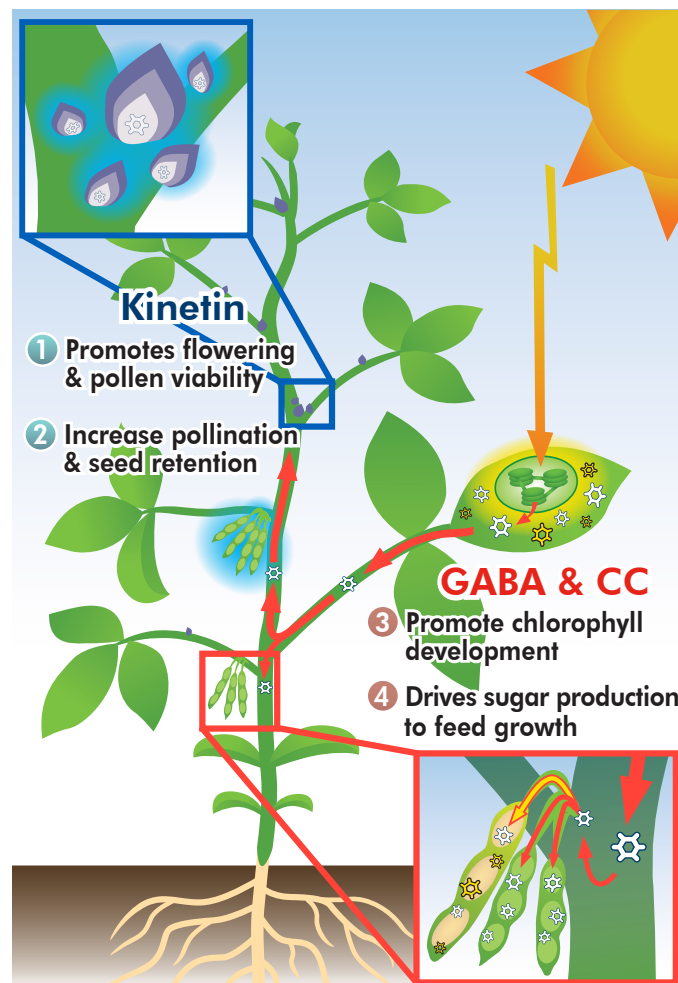


Inertia on Corn @VT

Replicated Trials
2 year summary

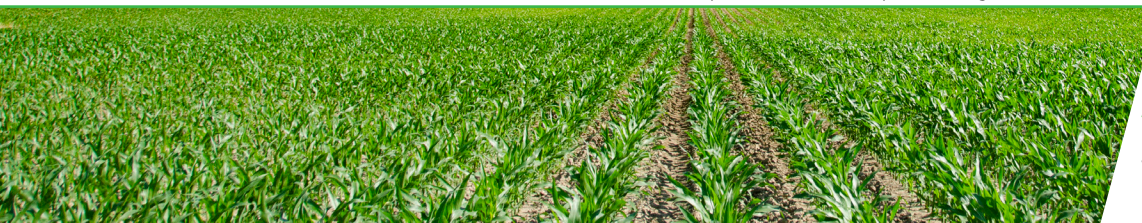


Greater pollination + more energy capture = More Yield!



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HOMESTRETCH™ SULFUR 17

Put Plants on the Fast Track to Higher Yields

8-0-0-17S

HOMESTRETCH SULFUR 17 is specifically formulated for foliar delivery of sulfur. Sulfur is important for chlorophyll formation, nodulation, enzyme activation, and S-containing amino acids.

PRODUCT BENEFITS

- Ultimate tank mix formulation compatibility
- Maximum nutrient mobility and efficiency, allowing for a lower application rate per acre
- Low salt index and low impurities

APPLICATION RECOMMENDATIONS

Foliar:

Apply 1/2-4 quarts per acre per application throughout the growing season. More frequent applications at 1-2 pints per acre may be needed to correct deficiencies once they occur.

Soil Applications:

Field and Row Crops: 2-4 quarts per acre banded either as a stand alone or in combination with liquid NPK starter fertilizers at planting or as a side-dress during the season.

HOMESTRETCH™ SULFUR 17 ACTIVE INGREDIENTS

Guaranteed Analysis

Nitrogen (N)	8.00%
0.14% Urea Nitrogen	
7.86% Ammonical Nitrogen	
Sulfur (S)	17.00%

Derived from urea and ammonium thiosulfate.

AGRONOMIC BENEFITS

- Essential for chlorophyll production
- Aids in protein and enzyme synthesis
- Enhances nitrogen use efficiency

PRODUCT AVAILABILITY

Products are available in both 2.5 gallon jugs and 250 gallon totes.

Please visit MeristemAg.com for more information.

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