



**CONKLIN**  
**AgroVantage**  
SYSTEM

**Product Catalog**



The Total Systems Approach For Your Crop Management Program



## Maximize your profits and increase your yields with a world-class crop management system.

Developed through decades of field trials and national research, AgroVantage® has become one of the most progressive and proven crop management systems available. Because our owner is also a lifelong farmer, we understand the management decisions you face in today's competitive marketplace, and the commitment needed to take your crop to the next level.

The primary benefits of the AgroVantage System include:

- Proper soil testing. This helps identify limiting factors in soil and recommends nutrients to positively impact your yields.
- Quality, proven products that maximize the potential of soil and seed genetics. With AgroVantage, you never spend your input dollars on nutrients your crops won't use.
- Ongoing technical and practical training. Discover a completely different way of feeding crops. Then put new insights to work in your own farming practice and see remarkable results from a company manufacturing proven products for more than 50 years.



### Farmer-Owned

*"I am proud to be in agriculture, farming the land my great-grandfather homesteaded over 100 years ago. As owner of Conklin I'm dedicated to providing quality products and production agriculture systems to help you achieve higher yields as part of my commitment to help preserve the family farm."*

Charles W. Herbster  
Owner of Conklin Company Inc., Herbster Angus Farms Inc., Carico Farms Inc.,  
North American Breeders Inc., AgriSolutions Inc., and Judy's Dream Inc.

## The system of champions

Conklin has recognized top producers who have won National Corn Growers Association (NCGA), National Sorghum Producers (NSP), National Wheat Federation (NWF), and state soybean association champion yield titles by integrating Conklin's AgroVantage® System into their winning strategies. The winners of over 100 national and thousands of state titles consider Conklin's innovative products the system of choice for championship yields. As more producers discover our proven system, the number of AgroVantage champions continues to climb.

You owe it to yourself to check out the AgroVantage System to reduce input costs, increase yields, and become a champion in your own right!

### What Conklin Champions Say

*"By simply applying the information I've learned from Conklin in my farming practices, I've seen a dramatic impact on my profits and have lowered my cost per bushel substantially. For more than 15 years, I have been incorporating Conklin products and the knowledge gained from attending Pro Ag I and Pro Ag II training into our operation. We have seen a 20-Bu./A. increase in corn yields and a 7-Bu./A. increase in soybean yields. We were also the top yield winner in North Dakota for corn in 2016. We were able to accomplish all of this by simply following the AgroVantage System recommendations!"*

Jay M., NCGA State Champion, North Dakota

*"By following Conklin's AgroVantage recommendations, our input costs aren't skyrocketing. Yet we've seen our overall farm average corn yields have increased by at least 100 Bu./A. since 2001!"*

Jerry C., 25-Time National NCGA Winner, Missouri

## Take the guesswork out of diagnosing the nutrient requirements of your soil.

### A complete, web-based, interactive system

Unlike many other tests, which offer just the basics, Conklin's more than 30-year partnership with Midwest Laboratories® provides a complete soil and plant analysis in a professional, easy-to-understand format and sends this information electronically to Conklin. Conklin utilizes this information to create AgroVantage recommendation reports from our in-house program. This allows us to offer alternative starter recommendations, add new products as they are introduced and revise fertilizer placement recommendations to achieve the optimal results, in real-time, personalized diagnosis of your field's nutrient status.



## Grow your knowledge and enhance your yields

Our goal is to provide practical, ongoing training that is as effective as our products, to help our growers make the most profitable decisions.

### Conklin training covers how to:

- Take the guesswork out of diagnosing the nutrient requirements of your soil
- Utilize a complete soil-testing program from an independent national lab
- Decrease your nitrogen rates by up to 20%
- Learn about the efficiencies of row-placed fertilizer
- Understand the benefits of foliar feeding for your crops
- Select the proper surfactant for your spray application

### Pro Ag I

Pro Ag I provides the foundation for Conklin's AgroVantage System, gives you practical knowledge that will help you produce higher yields, and squeeze extra profit from every acre, and introduces you to Conklin's AgroVantage products.

### Pro Ag II

Pro Ag II delves even deeper into soil analysis, soil fertility, and foliar feeding. Successful completion of Pro Ag I is required to attend.

### AgroVantage Soil Testing

#### Soil testing improves your return on investment (ROI)

Complete soil testing is essential to maximize the effectiveness of your crop production operation. The AgroVantage System provides one of the most technologically advanced soil analysis systems available. Results include nutrient recommendations, application rates, and placement for nitrogen, phosphorous, and potassium, as well as secondary and micronutrients.

### AgroVantage Tissue Testing

#### Tissue testing unlocks secrets to higher yields

The nutrient status of the growing plant is one of the most overlooked factors affecting crop yields. Measuring the flow of nutrients to the plant tissues during the growing season will detect unseen deficiencies before visual symptoms appear. Plant tissue analysis provides a tool to detect nutrient problems, diagnose deficiencies, and determine if your soil fertility program is providing the necessary uptake to reach your yield goals.



## What Conklin Champions Say

*"The Conklin AgroVantage web-based, online soil and plant analysis system is a true "precision Rx" for crops. This system goes well beyond the traditional "bare bones" recommendations that are so common in the industry. First off, the report's test numbers are determined by the nation's leading independent agricultural lab — Midwest Labs Inc. out of Omaha, Nebraska. AgroVantage System recommendations for major, secondary, and micronutrients are the only ones we will use for our extensive client base. These results are based on nearly 40 years of proof, reliability, and profitability for our customers and used by many state and national yield champions."*

Dennis Dammen, CropMaxx™ Crop Consulting, Minnesota



## What Conklin Champions Say

*"Many growers tell me that attending Pro Ag training makes them \$10 - \$15/acre their first year, when they only make one or two changes in their crop management system."*

Rod L., Iowa

*"I have attended Pro Ag I several times. The information this program provides helps us get more yield from our crops: corn, soybeans, and wheat. With low commodity prices, farmers need increased yields. With Conklin, we do get increased yields, lower input costs, and a better bottom line. Our overall farm operation has changed a lot from the time we were first introduced to Conklin."*

John W., Jr., Minnesota



# The AgroVantage® Crop Management System

PRODUCT	APPLICATION	BENEFIT
<b>AMPLIFY-D® and AMPLIFY-L®</b> Seed emergence aids	Dry powder and liquid dispersible formulations. Can be used on alfalfa, corn, cotton, milo, all small-seeded grasses, and small grains.	<ul style="list-style-type: none"> <li>• Faster, earlier emergence</li> <li>• More uniform stand</li> <li>• Higher percentage of planted seeds will grow</li> <li>• Drier grain at harvest</li> <li>• Research-documented yield increases</li> </ul>
<b>FEAST® SIDE-KICK™</b> Potassium thiosulfate solution	0-0-25 w17S Chloride-free formula. Soil or foliar applications.	<ul style="list-style-type: none"> <li>• Works to enhance plant health and resistance</li> <li>• Safe for use in pop-up fertilizer applications</li> <li>• Highly recoverable forms of potassium and sulfur</li> <li>• Excellent source of sulfur</li> </ul>
<b>FEAST® MICRO MASTER™</b> Secondary and Micronutrients	<ul style="list-style-type: none"> <li>• Liquid forms</li> <li>• 100% chelated or complexed</li> <li>• Seven nutrients available: boron, calcium, copper, iron, magnesium, manganese, and zinc</li> </ul>	<ul style="list-style-type: none"> <li>• Satisfy secondary and micronutrient requirements for optimized yield and quality</li> <li>• Limiting factors removed for optimal yield and quality</li> <li>• May be added to existing soil and/or foliar programs</li> <li>• Backed by significant independent research</li> </ul>
<b>FEAST® Starter and Foliar Fertilizers</b> offering a more efficient way to provide plant food	Clear liquid, true solution. 3-18-18 9-18-9 8-16-11 w2S 2-15-19 w3S 8-24-0 26-0-0 w0.5B	<ul style="list-style-type: none"> <li>• Hardier plant, larger roots</li> <li>• Drier grain (1-3% observed)</li> <li>• Greener, wider leaves</li> <li>• Earlier maturing crops</li> <li>• Yield increase</li> <li>• Better quality feed and forage with higher RFV</li> <li>• Research-documented yield increases</li> </ul>
<b>GUARDIAN®-L</b> Nitrogen stabilizer	Liquid formulation for use with nitrogen solutions, ammonium nitrate, anhydrous ammonia, and liquid manure.	<ul style="list-style-type: none"> <li>• Enhanced nitrogen utilization and nutrition, reduced nitrogen losses, reduced denitrification</li> <li>• Potential to reduce amount of nitrogen applied by 10 to 20%</li> </ul>
<b>KIP CULLERS' INTENSIFY® PLANT GROWTH REGULATOR</b>	Granular product to be dissolved into starter and/or foliar fertilizers or with spray solutions.	<ul style="list-style-type: none"> <li>• Provides for healthier plants and increased yields</li> <li>• Enables greater photosynthesis</li> <li>• Enhances grain development</li> <li>• Triggers transitions from vegetative growth to the flowering stage</li> <li>• Helps overcome cool weather challenges</li> </ul>
<b>MAGNIFY® LST</b> Live microbial liquid soybean seed inoculant with extension solution	Seed treatment application.	<ul style="list-style-type: none"> <li>• Highest potency available</li> <li>• Research-documented yield increases</li> <li>• Remains viable up to 28 days after being applied to the seed for greater planting flexibility</li> </ul>
<b>SOIL X-CYTO®</b> Plant growth regulator <b>FOLIAR X-CYTO®</b> Plant growth regulator	Apply Soil X-CYTO at planting or pre-emerge. Apply Foliar X-CYTO post-emerge. EPA-registered.	<ul style="list-style-type: none"> <li>• Enhances cell division</li> <li>• Better utilization of nutrients and moisture</li> <li>• Increases photosynthesis</li> <li>• Increases root growth</li> <li>• Research-documented yield increases</li> <li>• Enhances plant health</li> </ul>
<b>SYNTOSE FA® LIQUID SUGAR</b>	Liquid sugar for use with starter fertilizer and foliar applications.	<ul style="list-style-type: none"> <li>• Contains multiple sugar sources</li> <li>• Includes fulvic acid to increase uptake</li> <li>• Pre-dissolved solution</li> <li>• Produces superior performance and results</li> </ul>
<b>WEX®</b> Nonionic wetting agent	A multipurpose, liquid wetting agent for use in pre-emerge application programs. Also provides soil amendment characteristics and excellent protection against spray tank foaming.	<ul style="list-style-type: none"> <li>• Increases root growth</li> <li>• Optimizes effectiveness of pre-emerge pesticide applications</li> <li>• Keeps spraying equipment cleaner</li> <li>• Research-documented yield increases</li> </ul>

Conklin recommends the use of soil and/or plant tissue testing to accurately determine exact fertility recommendations.

# New to the Conklin AgroVantage® System?

## These products will help you get started.

Conklin's AgroVantage System offers farmers across America products that can be easily incorporated into their operations. Whether growers are utilizing a few AgroVantage products or the entire crop management program, Conklin's products offer an excellent return on investment due to increased yields, while controlling input costs as a result of utilizing high-quality raw materials.

Are you ready to put the AgroVantage System to work in your operation? The following products are a great way to see the benefits and profits thousands of farmers have already experienced.

- **Amplify® Seed Treatment** — Fast, even emergence is the goal in every field. Amplify-D® dry seed emergence aid with micronutrients and Amplify-L® liquid dispersible seed emergence aid provides additional energy to get your crops off to a fast start. Both planter box treatment and seed treater versions are available. *[Find this product on p. 10]*
- **Feast® Chelated Manganese** — This 100% EDTA-chelated product allows you to apply 1 pint per acre with your glyphosate applications to reduce yield reduction associated with yellow flash induced by glyphosate application. Feast Manganese has been showing a typical yield increase of 4-6 BPA. *[Find this product on p. 14]*
- **Guardian® Nitrogen Fertilizer Additive** — A softer technology as compared to other inhibitor products on the market, Guardian helps maintain a healthier soil microbial activity level, while holding the nitrogen in the root zone and maintaining plant availability. Used with liquid nitrogen, urea solutions, and liquid manure applications, Guardian allows for up to 20% reduction in nitrogen. *[Find this product on p. 8]*
- **Kip Cullers' Nutrient Compass Foliar Fertilizer®** — This foliar fertilizer and micronutrient combination stimulates your plants to take up more nutrients. It can be applied with foliar fertilizers or most pesticides so additional passes over the field are not needed. This product provides 3-6 BPA yield increase. *[Find this product on p. 17]*
- **Kip Cullers' Intensify® Plant Growth Regulator** — This EPA-registered plant growth regulator contains a proprietary blend of plant growth regulators (Gibberellic acid and Indole-3-butyric acid) designed to enhance germination, promote root growth, and encourage plant development. For use at planting and in foliar applications. *[Find this product on p. 20]*
- **Syntose FA®** — Liquid sugar that stimulates soil microbial activity with a unique blend of readily available sugar and fulvic acid. It is ideal for use on all soils and plants and easily incorporates into current operations, readily mixing with starter fertilizers and other key nutrients and chemistries. *[Find this product on p. 21]*
- **Wex® Multipurpose Wetting Agent with NRA®** — When used in burndown applications and/or pre-plant/pre-emerge pesticide applications, Wex helps maximize pesticide performance along with stimulating root development, improving water penetration and nutrient absorption without adding another pass over the field. *[Find this product on p. 19]*



# Protecting nitrogen investments for over 30 years, Guardian® saves money on nitrogen inputs and increases yields.

Nitrogen is one of your most expensive inputs. On top of that, once applied, much of it can be lost to natural processes such as denitrification, leaching, and runoff. Guardian slow-release nitrogen fertilizer additive “holds” plant-available nitrogen in the root zone longer, allowing you to cut your application rates by up to 20%. When you combine decreased nitrogen loss and application rate with higher yield results, Guardian is one smart choice.

## Increase yield while decreasing nitrogen rate up to 20%

Guardian’s non-toxic formula contains dicyandiamide (DCD), which has been shown to have minimal effect on total soil microbial biomass. In addition, Guardian has gained world-wide recognition for its use with ammonium-containing fertilizers. Available in a liquid formula.

- Keeps plant-available nitrogen in place
- Minimizes leaching and denitrification losses
- Produces higher yields

## Guardian®-L

### Liquid Nitrogen Fertilizer Additive

Guardian-L is an efficient and effective means to boost your yield potential when your management practices call for a liquid. Use 1.5 to 3 quarts per acre for band; 3 to 5 quarts per acre for broadcast applications. Use with fluid fertilizers such as suspensions, urea solutions, urea ammonium nitrate (UAN) liquid manures, anhydrous ammonia, and UAN and ammonium thiosulfate (ATS) blends.

### Guardian-L

- #041770 5 gallons (in two 2.5-gallon containers)
- #041775 135-gallon mini-bulk
- #041777 250-gallon mini-bulk

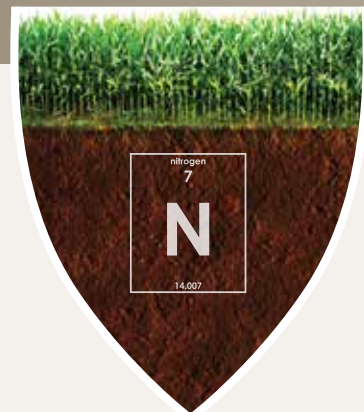


For best results, always read and follow label instructions. Results may vary.

## What Conklin Champions Say

*“I added Guardian to the 32% applied at pre-plant in test strips at the rates recommended by my crop consultant of 100%, 90%, and 85%. The strip showed the 85% rate yielded the same as the 100% rate. In another test, I ran with Guardian and without; the strips with the Guardian out-yielded the other by 5-10 Bu./A.”*

Galen P., Nebraska



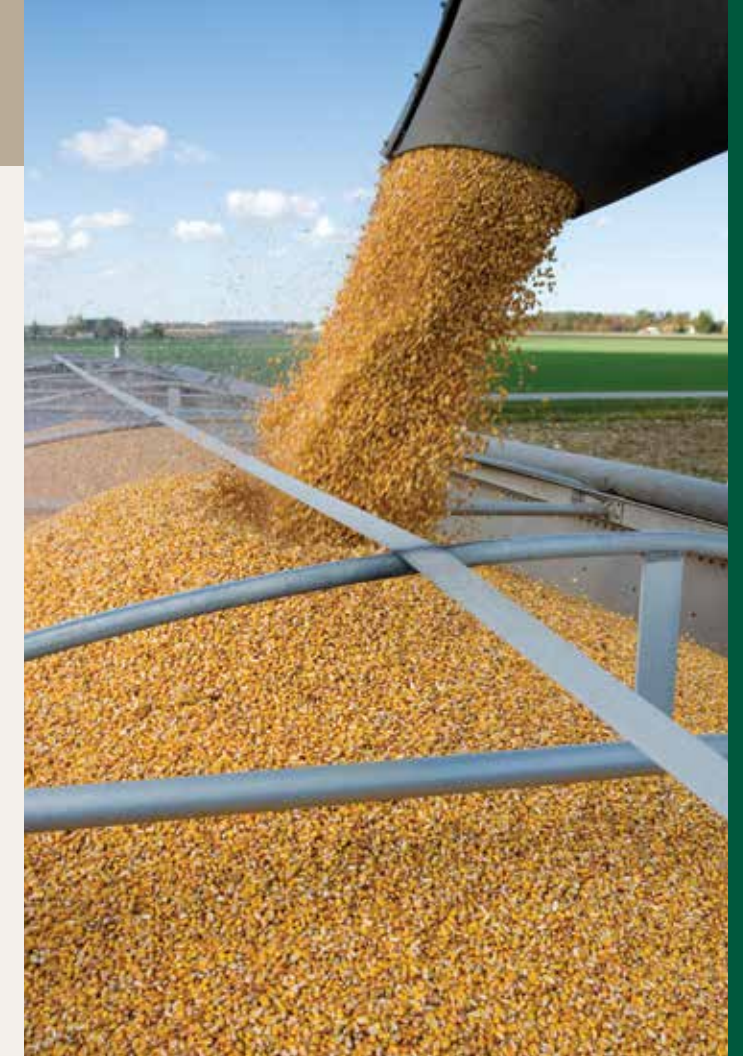
## What Conklin Champions Say

*“The first year we hit 338 Bu/A. The second year 358 Bu/A. The third year we had multiple spots of 420 Bu/A. Using the AgroVantage System consistently has a compound effect.”*

Tracy K., Iowa

*“I’ve planted a test plot for more than 20 years and compared AgroVantage products to many others on the market. My research has consistently shown that Guardian can cut my nitrogen by 12 pounds per acre, while producing the same yield year in and year out. My reduced nitrogen bill more than covers the cost of Guardian.”*

Bernie H., Illinois

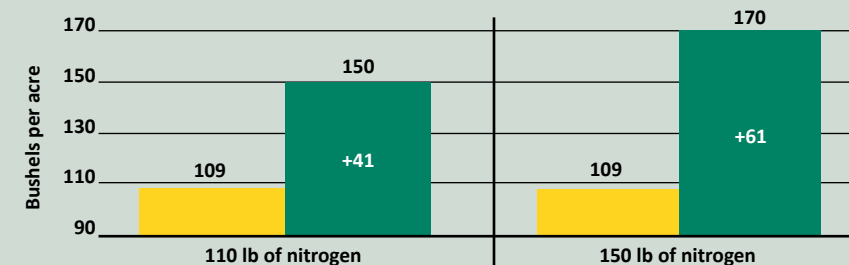


## Guardian®-L Study - Usage with UAN (Corn)

Treatments	Bu./A.	Bu./A. Difference
Control - No Nitrogen	177	--
30 lb. N (10 gpa) UAN Pre-Plant 150 lb. N (50 gpa) UAN Side-Dress	247	70
30 lb. N (10 gpa) UAN Pre-Plant 150 lb. N (50 gpa) UAN Side-Dress 1.5 qt. Guardian-L Side-Dress	257	80
30 lb. N (10 gpa) UAN Pre-Plant 84 lb. N (28 gpa) UAN Side-Dress 1.5 qt. Guardian-L Side-Dress	260	83

UAN is a commonly used nitrogen fertilizer source for corn production. This trial looked at the impact of different rates of UAN along with the use of Guardian-L, a nitrogen stabilizer that slows the conversion of ammonium nitrogen to nitrate nitrogen by blocking the enzyme responsible for this conversion. This trial shows the inclusion of Guardian-L kept the nitrogen in the root zone longer, leading to increased yields. Even with a decreased rate of applied UAN, Guardian-L allowed for increased yield.

## Guardian improved nitrogen efficiency and increased yield by an average of 51 bushels per acre in this University of Minnesota study.



### Guardian Yield Response

DCD Management Study:  
University of Minnesota

- without Guardian
- with Guardian

*This study was conducted on irrigated sand and is a great example of just how important sound nitrogen management can be.*



## What Conklin Champions Say

*"I share a planter with another farmer. The day it was my turn to use the planter was the day before an eight-day cold/wet spell. The field had standing water in it three times before my corn emerged. This was my first time using any Conklin products. The difference of using Amplify-D translated into yield and made me a believer. I saw an 8-Bu./A. increase over the untreated corn. I'm not going to run without it! For my operation it is a total win!"*

Ben P., Nebraska

## What Conklin Champions Say

*"We have seen up to a 20-25% yield increase in our crops: soybeans, corn, and cotton. The Conklin AgroVantage System is the highest-quality product on the market today that can increase your yields and is a more economical solution for today's lower commodity prices."*

Joey D., Virginia



## Optimizing nutrient conditions for seedling growth and emergence for 40 years

### The original adenosine monophosphate (AMP) seed treatment used by the world

Recommended for corn, alfalfa, small grains, cotton, and small-seeded grasses. These proprietary products provide AMP as an energy source to enhance seedling growth and emergence. While the benefits are the same, we offer both dry and liquid-applied formulas to meet your needs. Count on increased yield and lower grain moisture at harvest, and a higher return on investment.

- Helps seeds overcome stressful, cold and wet conditions
- Faster and more uniform emergence
- Fuels early growth and vigor for enhanced plant health



### Amplify-L®

#### Liquid Dispersible Seed Emergence Aid

This liquid-applied, seed emergence aid fuels early growth and improves plant stand. Dissolve one pound of powder in 1.25 to 2.50 gallons of water to be applied to 700 pounds of small-seeded crops or 1,500 pounds of large-seeded crops.

#039651 1-lb jar

### Amplify-D®\*

#### Dry Seed Emergence Aid with Micronutrients

This planter-box-applied product is an easily identifiable blue powder with talc to improve seed flow and lubrication, reducing the effects of high humidity. Use 2.5 pounds to treat 500 pounds of small-seeded crops or 1,000 pounds of large-seeded crops.

#### \*Beck's PFR Proven

#057372 2.5-lb container

#079266 2.5-lb dispensing cap



## Beck's Practical Farm Research – Seed Treatment Study - Seed Box Additive (Corn)

To evaluate a seed box additive treatment—a seed germination aid and its ability to affect yield and profitability.

Treatments	Emerged Population	Population Difference	Bu./A.	Bu./A. Difference	Return on Investment
Control	32,694	--	202.9	--	--
2 oz./50 lb. of seed Amplify-D*	33,139	+445	208.2	+5.3	+\$18.09

Corn \$3.86/Bu. Amplify-D\* \$2.37/A. Individual results may vary.

## Magnify® the performance of your soybean crop

### Scientifically proven to increase soybean yields

Research proves that at least one million rhizobia bacteria added by inoculation are needed for consistent soybean yield response, which is especially important on ground where soybeans have not been grown for multiple years. Available in liquid form, Magnify® LST with Rhizobium Extension Solution provides one million live Bradyrhizobium japonicum cells per seed and a Rhizobium Extension Solution, ensuring inoculant survivability and providing additional time should weather events or breakdowns prevent planting for several days. Magnify LST increases nitrogen fixation for efficient plant development and improves pod fill to increase crop yield.

- Consistently increases yields
- Up to 28 days survivability on seed
- Easy-to-use liquid formula

### Magnify® LST

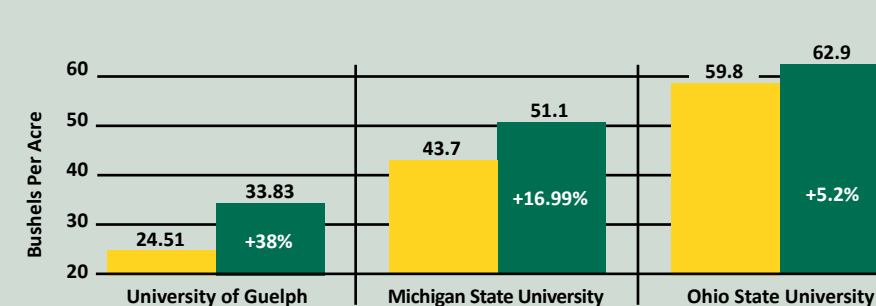
#### Liquid soybean Rhizobium inoculant with extension solution

This liquid soybean inoculant lasts up to 28 days on the seed before planting; best results are achieved with the shortest time from treatment to planting. This is the product of choice for on-seed and in-furrow applications. A 50.7-ounce inoculant bladder and 11.8-ounce extension solution treats 2,500 pounds (50 units of seed.)

#057810 4 – 50.7-oz inoculant bladders and 4 – 11.8-oz extension solution bladders (treats 200 units of seed)



## Magnify LST increased soybean yields in three university trials an average of 20%



### Magnify LST Yield Response

University Trials: Canada, Michigan, and Ohio: Soybeans

- Without Magnify LST
- With Magnify LST

Typical yield response to Magnify LST is 1-2 Bu./A. These studies are great examples of how important it is to use a high-quality soybean inoculant.



### What Conklin Champions Say

*"I like Conklin's whole system approach. We were looking for a system's approach when we were introduced to Conklin. By using Conklin's soil sampling process and the recommendations we got back from the tests, we saw a 9-36 bpa increase on only 11 inches of rain. Our yields ran 20-30 bpa higher than our neighbors. It is a real plus to purchase our entire fertility program from Conklin, not 2 and 3 things here and there. It saves time and time is money. There really is a Better Way to Farm."*

Travis S. SD 1st and 2nd place State winner

## Break the yield barrier with Feast® fertilizers

### Feast Starter Fertilizers

Introduced nearly 40 year's ago, Conklin's fertilizers start with the highest quality raw materials to produce a superior finished product. Unlike most fertilizers in the industry, Feast is an absolutely clear liquid, true solution with no impurities. It has a low-salt index providing 100% orthophosphate and potash provided with potassium hydroxide. Only low-biuret\* urea sources are used in these specifically formulated fertilizers.

- Over 40 years of consistent research and field-proven test results
- Non-corrosive to equipment
- Effective at lower application rates
- Proven seed safety
- Food-grade and virgin raw materials



For best results, always read and follow label instructions. Results may vary.

### Feast Foliar Fertilizers

Bring in bumper crops with the efficiency of foliar feeding! Designed as a top-end management tool to target plants at growth stages when photosynthesis, root growth, and nutrient absorption need an extra boost, foliar feeding stimulates growth. A successful foliar application requires products of proper specifications: a very low salt index, high solubility, low-biuret\*, and high purity. Feast fertilizers exceed all these qualifications for a foliar feeding program that's highly effective at increasing both quality and yield.

- Boosts photosynthesis in essential growth stages
- Enhances growth and vigor of plants
- Non-corrosive to equipment
- Low burn potential

\*Biuret is the most common impurity found in urea.

### Feast® Starter and Foliar Fertilizers

#### 9-18-9

- #007190 135-gallon mini-bulk
- #007190 250-gallon mini-bulk
- #007112 bulk

#### 3-18-18

- #007278 5 gallons (in two 2.5-gallon containers)
- #007275 135-gallon mini-bulk
- #007300 250-gallon mini-bulk
- #007211 bulk

#### 2-15-19 w3S

- #041555 250-gallon mini-bulk
- #042640 bulk

#### 8-16-11 w2S

- #040550 250-gallon mini-bulk
- #040568 bulk

#### Feast® Side-Kick™ 0-0-25 w17S\*

Fortify your liquid starter foliar and sidedress mixes.

#### \*Beck's PFR Proven

- #038690 5 gallons (in two 2.5-gallon containers)
- #038715 135-gallon mini-bulk
- #038750 220-gallon mini-bulk
- #038737 bulk (3,900-gallon maximum/per truckload)

### High Phosphorus Starter Fertilizer

#### 8-24-0

- #040188 bulk

### High Nitrogen Foliar Fertilizer\*

#### Feast®-XL 26-0-0 w0.5B

Specially formulated for foliar feeding with Triazone\*. May be used with foliar applied fungicides.

#### \*Becks PFR Proven

- #054593 5 gallons (in two 2.5-gallon containers)
- #054600 135-gallon mini-bulk
- #054590 250-gallon mini-bulk
- #008459 bulk

#### Mini-Bulk and Drum Accessories

- #075317 2-inch plastic faucet for 30- and 55-gallon drums

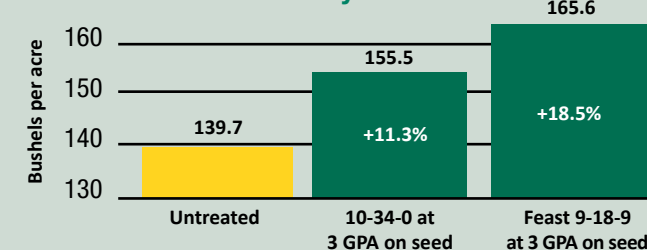


### What Conklin Champions Say

*"Conklin's Feast 8-16-11 w2S starter fertilizer is the most efficient in-row plant food on the market today. This low-salt fertilizer is 100% readily available to our corn in the furrow and is seed safe to improve early germination. When you want a great return on a cost-per-bushel basis, Feast 8-16-11 w2S is top-notch quality for in-row and foliar feeding on our farm in Nebraska."*

Todd H., Nebraska

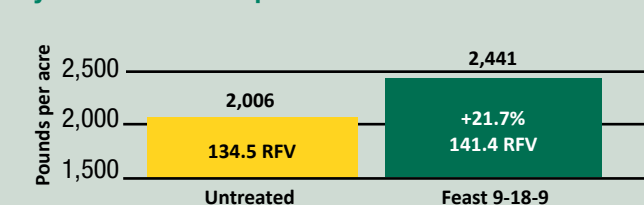
### Feast 9-18-9 as a starter fertilizer increased corn yield 18%



#### Starter Fertilizer Yield Response

Regional Test Plot: Indiana: Corn

### Foliar feeding alfalfa with Feast 9-18-9 seven days after second cutting increased third-cutting yield 21% and improved relative feed value 5%.



#### Foliar Fertilizer Yield Response

Independent Research: Nebraska: Alfalfa Hay

# Maximize your yields with Feast<sup>®</sup> micro and secondary nutrients

Essential secondary and micronutrients help crops achieve genetic potential for 40 years

Once you have your AgroVantage<sup>®</sup> soil and/or plant tissue analysis results and recommendations, choose from a full line of Feast Micro Master<sup>™</sup> chelated secondary and micronutrients to balance the deficiencies of your soil and plants. These nutrients are designed for co-application with starter or foliar fertilizers.

All of our formulations are either 100% chelated using EDTA chelating agents (to resist soil tie-up and provide universal compatibility) or are complexed to provide ideal physical characteristics for ease-of-handling.

- Unsurpassed in consistency, purity, and nutrient availability
- 5 to 10 times more efficient than inorganic sources
- Economical, effective, and easy-to-use
- Compatible with most fertilizers

## Feast Micro and Secondary Nutrients

### Complexed Boron - 10%\*

#037143 5 gallons (in two 2.5-gallon containers)  
 #037138 135-gallon mini-bulk  
 #037130 250-gallon mini-bulk  
 #038980 bulk

### Feast<sup>®</sup> Side-Kick<sup>™</sup> 0-0-25 w17S - 17% Sulfur\*

#038690 5 gallons (in two 2.5-gallon containers)  
 #038715 135-gallon mini-bulk  
 #038750 220-gallon mini-bulk  
 #038737 bulk (3,900-gallon maximum)

### Chelated Manganese - 6%

#007518 5 gallons (in two 2.5-gallon containers)  
 #007529 135-gallon mini-bulk  
 #007590 250-gallon mini-bulk  
 #007534 bulk

### Chelated Calcium - 3%

#037150 5 gallons (in two 2.5-gallon containers)  
 #037163 135-gallon mini-bulk  
 #037160 250-gallon mini-bulk  
 #037490 bulk

### Chelated Iron - 4.5%

#007419 5 gallons (in two 2.5-gallon containers)  
 #007435 bulk

### Chelated Zinc - 9%

#007617 5 gallons (in two 2.5-gallon containers)  
 #007623 135-gallon mini-bulk  
 #007660 250-gallon mini-bulk  
 #007633 bulk

### Chelated Copper - 7.5%

#007716 5 gallons (in two 2.5-gallon containers)  
 #007725 135-gallon mini-bulk  
 #007770 250-gallon mini-bulk  
 #007732 bulk

### Chelated Magnesium - 2.5%

#037176 5 gallons (in two 2.5-gallon containers)

\*Becks PFR Proven



## Has yellow flash swept through your glyphosate-resistant soybeans?

Use Conklin Feast<sup>®</sup> Chelated 6% Manganese to keep your soybeans a healthy, lush green, and not a nutrient-deficient yellow! Applying EDTA-chelated manganese in combination with glyphosate products has been proven to help overcome induced manganese deficiency brought on by application of glyphosate. Feast Manganese is 100% chelated using an EDTA chelating agent, and is the ideal source of manganese to co-apply with your weed control.

- Compatible with most pesticides, most other fertilizers and other secondary and micronutrients
- Concentrated formula effective at low application rates
- 5 to 10 times more efficient than inorganic sources
- Economical, effective, and easy-to-use product

Soil and plant tissue testing are the only reliable methods available to accurately determine nutrient status.

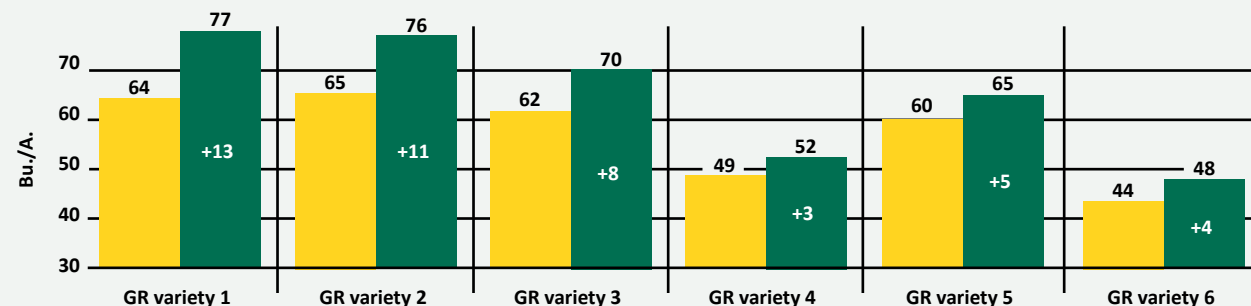


Yellow flash will cause yield drag, which results in yield loss.



For best results, always read and follow label instructions. Results may vary.

## Applying Chelated Manganese to glyphosate-resistant soybeans reduces yellow flash and improves yield by an average of 7.4 Bu./A.



Feast Micro Master 6.0% Manganese Yield Response  
 Indiana and Illinois: Soybeans

Without Feast Manganese  
 With Feast Manganese

Actual yield results have varied between .5- and 10-Bu./A. increase on soybeans.

## What Conklin Champions Say

"I treated a portion of my soybean field with Roundup<sup>®</sup> and the rest with Roundup<sup>®</sup> mixed with 1 pint/acre of Conklin's Manganese. When I harvested the field diagonally, I noticed the yield monitor jumped 8 Bu./A. where I'd applied the Manganese and dropped 8 Bu./A. where I hadn't."

Paul S., Missouri

"Our first year soil testing showed we needed 25 pints of micros. The second year, because we had addressed the fundamental needs we only needed to apply 14 pints. I like that the recommendations call for more than just NPK. We are seeing dramatic results because we added chelated micronutrients to our program. Our farm average increased by over 40 bpa due to the Conklin system. While combining, I noticed that the yield monitor varies a lot less from spot to spot in all of our fields. Yield consistency has really helped increase our profit, as well as our yield."

Josh C. Nebraska





Yield contest winners and farmers across the country have used and experienced results from Kip Cullers' Nutrient Compass Foliar Fertilizer and recommend this product as part of the AgroVantage® System.

## Kip Cullers' Nutrient Compass Foliar Fertilizer®

Considered a worldwide authority on soybeans, Kip Cullers has earned multiple world records in soybean production, NCGA national yield contest wins, and world records in vegetable production. Kip Cullers has partnered with Conklin Company to bring American farmers the Kip Cullers' Nutrient Compass Foliar Fertilizer. This product is designed to increase yields and profits, while easily incorporating into current management and pesticide applications.

Developed as a collaboration between Kip Cullers and the Conklin Company, Kip Cullers' Nutrient Compass Foliar Fertilizer stimulates corn, beans, wheat, alfalfa, and other crops at strategic growth stages to push plants to achieve greater yields and increase farmers' profit potential. This is accomplished by helping the plants:

- Develop a larger root mass
- Take up more nutrients
- Increase yield and test weight

### Intended for use on:

- Corn
- Soybeans/Dry Beans
- Cotton
- Small Grains (wheat, rice, etc.)
- Alfalfa

For general applications, use 1-2 quarts per acre in a foliar application with most herbicides and foliar fertilizer applications.

Application windows include:

- Corn – V3-V5 and/or one week before tassel
- Soybeans/Dry Beans – V3-V5 and/or at first flower
- Small Grains (wheat, rice, etc.) – When plants are 3-8 inches tall and/or at flag leaf/boot stage
- Alfalfa – As alfalfa crowns out after each cutting
- Cotton – At pinhead square

Typically, the early applications have shown the strongest response.



## Kip Cullers' Nutrient Compass Foliar Fertilizer®

A proprietary blend of NPK fertilizer, micronutrients, and sucrose, the Kip Cullers' Nutrient Compass Foliar Fertilizer is designed to stimulate plants at critical growth stages to take up more nutrients and push plants to achieve greater yields and increase farmers' profit potential.

- Encourage more photosynthesis through larger leaves
- Increase nutrient uptake through increased root mass
- Designed to be used in conjunction with the AgroVantage® System
- Low application rates, near neutral pH

#41657 5 gallons (in two 2.5-gallon containers)

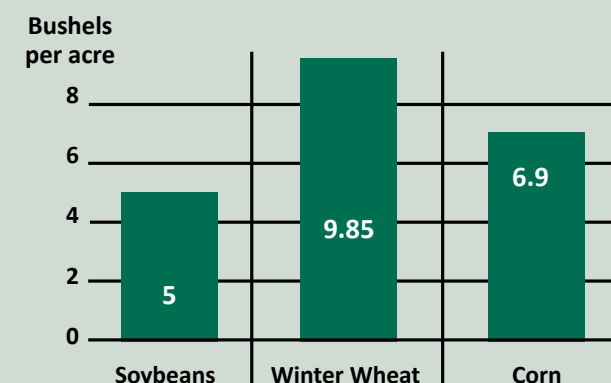
#41660 250-gallon mini-bulk



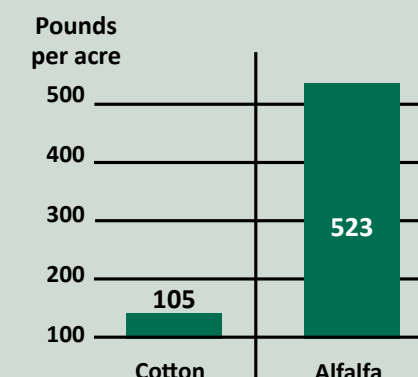
Application of the Kip Cullers' Nutrient Compass Foliar Fertilizer results in larger leaves that capture more sunlight, resulting in greater photosynthesis and plants achieving higher production levels.

## Results of Using Kip Cullers' Nutrient Compass Foliar Fertilizer

### Yield Advantage - Bushels per Acre National Averages



### Yield Advantage - Pounds per Acre National Averages



## What Conklin Champions Say

"The Kip Cullers' Nutrient Compass Foliar Fertilizer applied at V3-V5 showed an 11-bushel response. This product energizes the leaf areas on our corn and soybeans, and is the most economical return on investment foliar fertilizer product in production agriculture today."

Todd H., Nebraska





## Perfect Spray Solutions

Adjuvants perform a variety of functions to improve the performance of spray applications. Conklin offers the product to match your chemical and application needs.

### Rain Fast® Surfactant/Wetting Agent

**Produces rain-fastness, leaf wetting, and stomatal flooding**

Maximizes performance of pesticide and foliar fertilizer applications. Keeps your solutions on target plants and produces stomatal flooding. Does an unbeatable job in water-based sprays and with fungicide applications. Six to 12 ounces treats 100 gallons of spray solution; one gallon treats 1,100 to 2,100 gallons of spray solution.

- Improves pesticide efficiency
- Produces superior leaf wetting, spreading, and penetration
- 100% active ingredient

#037895 1 gallon

#037911 5 gallons (in two 2.5-gallon containers)

### Complete™ Liquid AMS/Drift Retardant Blend

**Easy handling, fast blending, and reduced plugging**

Designed primarily for use with herbicide labels which specify ammonium sulfate (AMS) for water conditioning. Formulated as a liquid product for easier handling, faster blending, and elimination of plugging problems inherent with many dry ammonium sulfate products. Each quart of Complete contains 0.85 pound of AMS.

- Highest-quality spray-grade AMS
- Contains drift retardant

#039362 5 gallons (in two 2.5-gallon containers)

#039375 135-gallon mini-bulk

#039380 250-gallon mini-bulk

#039391 bulk

### Knock-Out™ Antifoam Agent

**Prevents foaming for improved spray solutions**

Controls both entrained and surface foam in agricultural sprays. Performs well with all agricultural chemicals and is highly recommended for use with glyphosate herbicides. Mix 1 to 2 ounces per 100 gallons.

- Prevents foaming
- Knocks down foam in spray tanks

#039495 4 - 32-oz/quart bottles (case)

### Home Run® Methylated Soy Adjuvant

**Increases herbicide performance and penetration into leaves**

Maximizes surface spreading and penetration, and increases pesticide activity under low humidity and high temperature conditions. One to 2 pints per acre or 1 to 5 quarts per 100 gallons of spray solution.

- Improves post emergent herbicide performance
- Disperses easily for trouble-free mixing

#037937 5 gallons (in two 2.5-gallon containers)



### Bulls Eye® Drift Retardant/Deposition Aid

**Keeps your spray solution on target**

Cuts down on chemical losses, while maintaining an effective spray pattern. By reducing drift due to off-target movement, applicator exposure is minimized. Increases accuracy and carries the spray deeper into the canopy. One to 16 ounces treats 100 gallons of spray solution.

- Larger, more uniform droplets
- Spray in light wind conditions

#055251 12 - 32-oz/quart bottles (case)

### Wex® Multipurpose Wetting Agent with NRA®\*

**Improves liquid fertilizer and pesticide coverage and penetration**

This Beck's PFR proven product maximizes the effectiveness of liquid-applied fertilizer and pesticides with improved suspension. Exclusive, nutrient-related action (NRA) technology stimulates root development, improving water and nutrient absorption. Results include increased root mass, higher organic matter, and higher yields. Pre-plant/pre-emerge soil amendment application rates are 1 pint to 1 quart per acre. (Consult specific pesticide labels for usage rates.)

- Improves penetration and knocks down foam
- Increases yields when used at higher rates in pre-emerge applications
- Great for burndown and pre-emerge chemical applications

*\*Beck's PFR Proven*

#002071 5 gallons (in two 2.5-gallon containers)

#002092 135-gallon mini-bulk

#002100 250-gallon mini-bulk

#002048 bulk

### Kombind® Compatibility Agent/Acidifier/Buffer

**Improves blending, acidifies and buffers spray solution**

When mixed with fertilizers and pesticides, improves compatibility and stability. As a compatibility agent, use 8 to 16 ounces per 100 gallons nitrogen solution fertilizers; 16 to 24 ounces per 100 gallons liquid mixed fertilizers. As an acidifier/buffer, use 1 to 24 ounces per 100 gallons.

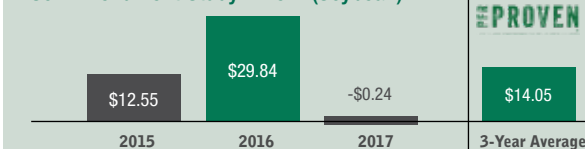
- Prevents plugged lines
- Lowers and buffers pH of spray solutions

#009886 4 - 32-oz/quart bottles (case)

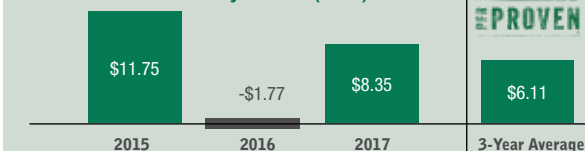
#009829 5 gallons (in two 2.5-gallon containers)

#### Beck's Practical Farm Research (PFR)® 3-Year Multi-Location Wex® Return on Investment

Soil Amendment Study - Wex® (Soybean)



Soil Amendment Study - Wex® (Corn)



#### OBSERVATION

Wex® is advertised as helping to reduce soil crusting, stimulate root growth, and improve nutrient uptake. We saw stand improvements due to reduced soil crusting at our Indiana PFR site in 2015 and at our southern Illinois PFR site in 2016, which resulted in yield increases. In 2016, we observed visual differences in root growth in Ohio, but that did not result in increased yield. This year, we did not observe any difference in crusting or root mass, but still saw a yield increase at all locations. This suggests that this year's yield gains were due to improved nutrient uptake.

Mike Hannewald | Beck's Field Agronomist

## What Conklin Champions Say

*"We use Conklin's Wex on every acre we plant because it makes our chemicals work better. We see a 5-to-6 Bu./A. yield boost, and we have fewer problems with foaming and tips plugging with Wex in the tank mix."*

Jerry C., Multi-winner,  
Multi-class NCGA National Champion, Missouri

*"Our growers have consistently seen better weed control and lower costs since using Conklin's AgroVantage System. We use one of the AgroVantage tools to determine the rate of adjuvants such as Complete, Kombind, Knock-Out, and Bulls Eye to be used with glyphosate. We have decreased the adjuvants costs by \$1 to \$1.50 per acre; that is a substantial savings and great weed control."*

Mark F., CCA, Minnesota

For best results, always read and follow label instructions. Results may vary.

## What Conklin Champions Say

"Using Intensify® Plant Growth Regulator in our foliar program last year, we saw a tremendous difference in leaf size in 10-14 days. This resulted in a 4-bushel yield increase in soybeans in our first check over the untreated beans. Intensify is a must for a profitable crop when every pound of yield matters."

Joey D., Virginia

## What Conklin Champions Say

"We decided to start using a product on our farm called Amplify D in 2016 and had positive results. Since then we have switched to the full AgroVantage system which has helped us have consistency in our yields for corn and soybeans. Helping the American farmer has been something I always have wanted to do. With the low commodity prices, farming is more and more challenging. I believe Conklin is the perfect way for me to have a positive impact on other farmers, while keeping my own family legacy alive on our Heritage Family Farm."

Chris W. Iowa

## Accelerate Crop Development with Kip Cullers' INTENSIFY® Plant Growth Regulator

This EPA-registered plant growth regulator that contains a proprietary blend of highly concentrated plant growth regulators designed to promote root growth and development, stimulate cell division and elongation, and enhance germination.

Intensify works with your crop fertility and protection programs, helping plants use more nutrients at key growth stages for:

- Stronger roots and quicker emergence
- Healthier plants and increased yields
- Increased flowering
- Healthier plants and increased yields
- Enabling greater photosynthesis
- Enhanced grain development
- Triggers transitions from vegetative growth to the flowering stage
- Ability to overcome cool weather challenges

### Kip Cullers' INTENSIFY®

#### Healthier plants and increased yields

The first plant growth regulator developed, registered, manufactured, and packaged by Conklin Company Inc., Intensify offers you the flexibility for use both with in-furrow applications and over-the-top spray applications. Simply use one container per 50 acres of this granular product that easily and quickly dissolves in fertilizer and water.

#041785 12.8-oz. container

## X-CYTO® stimulates plants' biological processes

Designed for soil and foliar applications, this EPA-registered plant growth regulator – contains cytokinin plant growth regulator to assist in early stand establishment, and promote cell division and growth for more efficient use of nutrients at key growth stages.

- Enhances utilization of available moisture and nutrients
- Generates faster maturity, higher yields, and quality
- Increases photosynthesis

### Soil and Foliar X-CYTO®

#### EPA-registered plant growth regulator

Contains cytokinin, an essential plant hormone that assists in early stand establishment, and promotes cell division and growth for more efficient use of nutrients at key growth stages.

Use at rates from 4 to 30 ounces per acre to stimulate plants and increase resistance to various challenges.

Soil #054783 4 gallons (case)

Foliar #057744 4 gallons (case)

## Syntose FA® Liquid Sugar provides energy

Liquid sugar that stimulates soil microbial activity with a unique blend of readily available sugars and fulvic acid. It is ideal for use on all soils and plants and it easily incorporates into current operations, readily mixing with starter fertilizers and other key nutrients and chemistries.

- Each pint provides 1 lb. of sugar
- Easy-to-use and tank mix
- Promotes healthy soil ecology

### Syntose FA® Liquid Sugar\*

#### Promotes healthy soil ecology

Use 1 pint per acre to stimulate soil microbial activity.

#041792 5 gallons (in two 2.5-gallon containers)

#041793 135-gallon mini-bulk

#041794 250-gallon mini-bulk

#### \*Becks PFR Proven

For best results, always read and follow label instructions. Results may vary.



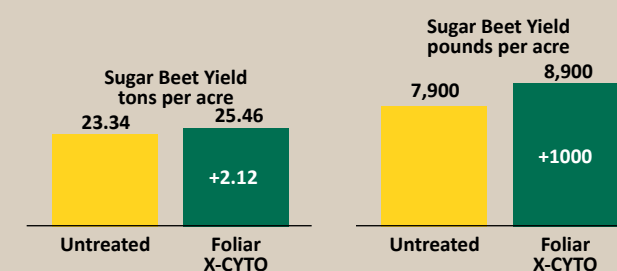
Corn Yield Gain  
**6.2 Bu./A.**  
(In-Row and Foliar)

Soybeans Yield Gain  
**3.9 Bu./A.**  
(In-Row and Foliar)

Nationwide averages from 2018 data



X-CYTO can increase your total yield as much as **10%**



Foliar X-CYTO Yield Response  
University Trials: Montana: Sugar Beets

### Beck's Practical Farm Research (PFR)® Sugar Study - In-furrow

In-Furrow Treatments	Percent Moisture	Bu./A.	Bu./A. Difference	Return on Investment
Control: Starter	17.8	202.5	--	--
Starter + 1 pt. Syntose FA®	17.8	205.4	+2.9	+\$9.87
Starter + 4 lb. Feed Grade Dextrose	17.9	205.5	+3.0	+\$9.64
Starter + 8 oz. eXceed™ Nano Brown Sugar	17.7	203.9	+1.4	+\$3.65
Starter + 4 oz. Carbose	17.8	203.4	+0.9	+\$2.25

Corn \$3.92/Bu. Feed Grade Dextrose \$0.53/lb. Carbose \$41.00/gal. eXceed™ Nano Brown Sugar \$29.50/gal. Syntose FA® \$12.00/gal. These results are based on the disclosed study parameters and participating sites.

## What Conklin Champions Say

"No other product on the market compares to Feedstore silage inoculant. It helps the fermentation process, doesn't lose the green color, and has a perfect aroma. I am always satisfied with the end results."

Tim H., Texas

"When it comes to alfalfa, I don't believe there's anything better on the market than what Conklin has to offer. With state-of-the-art plant and soil testing, high-quality liquid fertilizer, an array of Feast® Micro Master™ chelated micro and secondary nutrients, Pro-Serve® and Wex® at the swather, and Feedstore® at the baler, give it a try and you will be happy with the benefits. The AgroVantage System has been giving us great benefits for over 20 years."

Delmar Y., Iowa



## Preserve the feed value of your forage and silage

Good forage management is more than just production. Improper fermentation, heat damage, and runoff can prevent you from getting the most nutrients from your crop.

Feedstore hay inoculant, Feedstore Generation II silage inoculant, and Pro-Serve forage treatments are necessary components of your crop management system. By promoting proper preservation, you'll recover more dry matter and retain more nutrients for your livestock.

### Feedstore® Live Microbial Hay Inoculant

**Bale at higher moisture levels, such as small square bales up to 25% moisture**

Baling at higher moisture levels prevents leaf loss, resulting in increased protein, enhanced feed value, and greater tonnage per acre. This water-dispersible powder is the product of choice for applications at the baler. One 100-gram packet treats 25 tons of hay.

- Increases protein, feed value, and palatability
- Retains dry matter and nutritional value
- Bale at high moisture levels

#037093 100-gram packet water-soluble powder (WSP)

### Feedstore® Generation II Live Microbial Silage Inoculant

**Guards against spoilage, reduces runoff, and increases bunk life**

Using live microbials, it promotes fast fermentation with minimal loss of nutrients and dry matter. That means more meat or milk when you feed Feedstore-treated silage to your livestock. This product, for use in vertical silos, bag systems, high-moisture wrapped bales or bunkers, is non-toxic and non-corrosive. One packet or bag treats 50 tons of forage.

- Retains more ensiled forage dry matter and nutritional value
- Reduces silage runoff and extends bunk life
- Protects against spoilage and protein loss

#055228 100-gram packet water-soluble powder (WSP)

#055236 50-lb dry granular bag

### Pro-Serve® Forage Treatment

**Recommended application at the swather or haybine**

Pro-Serve naturally preserves hay to retain more nutrients. When applied, small square bales can be baled at up to 23% moisture; large square and large round bales with up to 20% moisture. Apply 1 ½ ounces per ton of dried, cut forage.

One gallon treats 100 tons of forage.

- Greener, leafier bales with improved palatability
- Bale at higher moisture levels up to 23%
- Preserves nutritional value and dry matter for commercial hay production

#041497 1 gallon



## CONKLIN® VEHICLE PRODUCTS

### Expect Better Performance and Longevity from Your Equipment and Vehicles

Conklin has been helping farmers maintain and protect their equipment for more than 50 years. We want to help protect the investment you have in your equipment, lower maintenance costs, and improve fuel economy and performance, which affects the bottom line and profits of your operation.

**The Vehicle Products Division offers:**

- **Gasoline and diesel fuel conditioners and fuel system cleaners** that regain, retain, and improve performance and fuel efficiency.
- **Convoy® premium parasynthetic motor oil** that improves fuel mileage, extends oil change intervals, and ensures top engine protection.
- A full line of **oils, greases, lubricants, cleaners, conditioners, and treatments.**

*"We run Convoy oil in all our farm equipment and commercial trucks. With conventional oil, we were changing oil twice a year. Using Convoy extends our oil changes to only once a year, which allows us to see a savings of 25% on the cost of oil as well as labor costs. When you add cost savings, lower overall maintenance cost and increased mileage, Convoy pays for itself in our operation."*

Jay M., North Dakota

Conklin Vehicle Products have been out-performing other leading brands and lowering maintenance costs for farmers across the country. See how they can work for you and your operation by visiting

[www.ConklinVehicleProducts.com](http://www.ConklinVehicleProducts.com)



**"Agriculture is our wisest pursuit, because it will in the end contribute most to real wealth, good morals, and happiness."**

- Thomas Jefferson

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