



**WEX®**

Wex® is a multipurpose wetting agent that maximizes the effectiveness of pesticides with improved suspension. An exclusive, nutrient-related action technology stimulates root development, which improves water and nutrient absorption. Wex can be applied at any time on all crops. Do not apply Wex with fertilizers.

### COMPANY

Conklin Company, Inc.

### WEBSITE

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

### ADDITIONAL CONTACT INFORMATION

1-888-919-5578

### APPLICATION RATE & TIMING

1 qt. Pre-Emerge

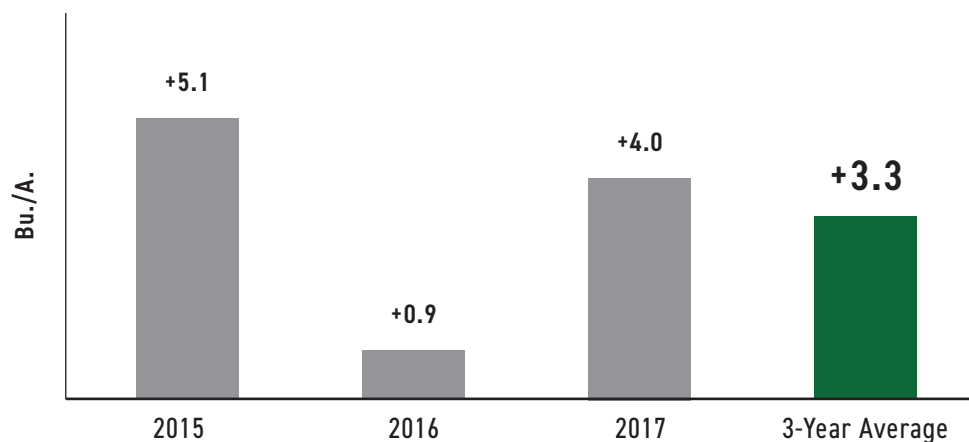
### PFR INSIGHTS

In environments with crusting issues, the product Wex has shown an advantage by assisting plants in emergence. However, even in those site-years without crusting symptomology, a yield advantage has been observed with the use of Wex. This is likely due to the fact that the product appeared to get plants off to a faster start with these plants showing greater canopy coverage which led to in-season advantages including full utilization of seasonal sunlight.

**PROVEN**

**\$6.11/A.**  
**3-YEAR ROI**

**3-Year Multi-Location Yield Advantage**





## AMPLIFY-D®

Amplify-D® is a low analysis fertilizer with a blend of nutrients which aids in early seedling development and growth.

### COMPANY

Conklin Company, Inc.

### WEBSITE

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

### ADDITIONAL CONTACT INFORMATION

1-888-919-5578

### APPLICATION RATE & TIMING

2 oz./50 lb. of seed treated at planting (seed box additive)

### PFR INSIGHTS

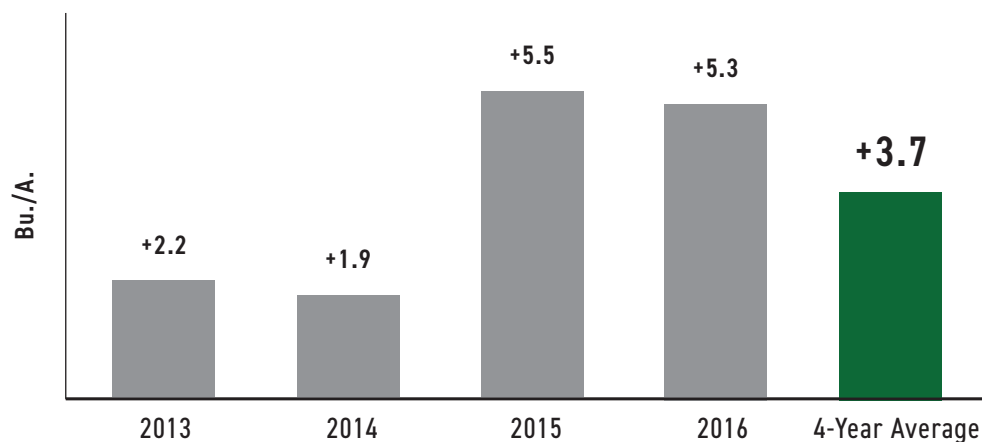
Amplify-D is a seed emergence aid that provides an additional amount of adenosine monophosphate (AMP) that is found naturally in seeds. Amplify can be purchased as a dry formulation (Amplify-D) or a liquid formulation (Amplify-L). Amplify enhances seedling vigor and increases plant emergence in tough conditions. At the IN PFR site in 2015, Amplify was tested in a plot that experienced significant soil crusting and water damage. Yield increases for Amplify were as high as +10.9 Bu./A. under these conditions.

**PFR PROVEN**

**\$13.56/A.**

**4-YEAR ROI**

4-Year Multi-Location Yield Advantage





## CAPTURE® LFR®

Capture® LFR® is a liquid, at-plant insecticide that puts down a zone of protection and controls pests before seed damage ever takes place. It controls seed and seedling pests such as wireworm, cutworm, grubs, armyworm, seed corn maggot and common stalk borer. The full-use rates provide control of corn rootworms as well as many seed and seedling insects.

### COMPANY

FMC Corporation

### WEBSITE

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

### ADDITIONAL CONTACT INFORMATION

Contact your local Ag Retailer

### APPLICATION RATE & TIMING

3.4 oz. In-Furrow at Planting

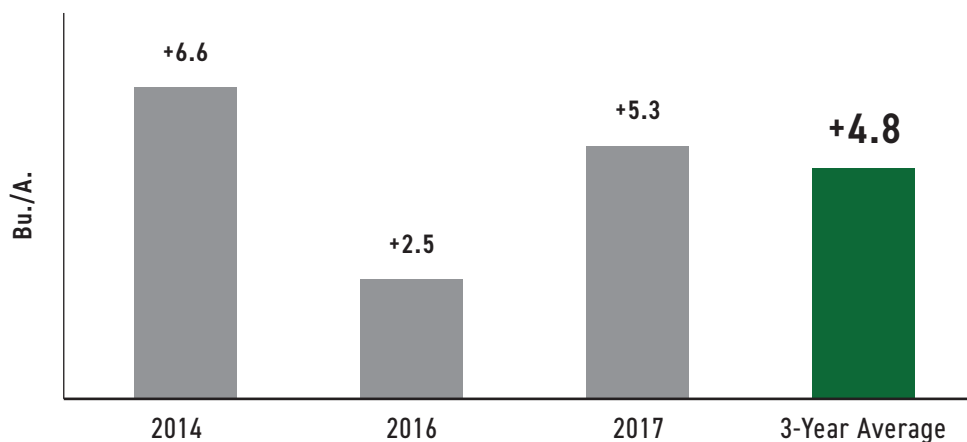
### PFR INSIGHTS

In a cool, wet spring this product provides in-furrow protection from pests into the season in addition to that provided by a seed treatment. This is particularly advantageous when we commonly see pests such as cutworm and armyworm throughout the Midwest.

**PROVEN**

**\$10.80/A.**  
**3-YEAR ROI**

3-Year Multi-Location Yield Advantage





## PUREGRADE® DIAMOND 6-24-6

PureGrade® Diamond 6-24-6 is a 100% orthophosphate, low-salt liquid fertilizer. Phosphorus in this form is immediately available to the plant. Under stressful conditions, such as cold soil temperatures, the phosphorus is ready once the roots are able to take up nutrients.

### COMPANY

The Andersons, Inc.

### WEBSITE

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

### ADDITIONAL CONTACT INFORMATION

Contact your local Ag Retailer

### APPLICATION RATE & TIMING

5 gal. In-Furrow at Planting

### PFR INSIGHTS

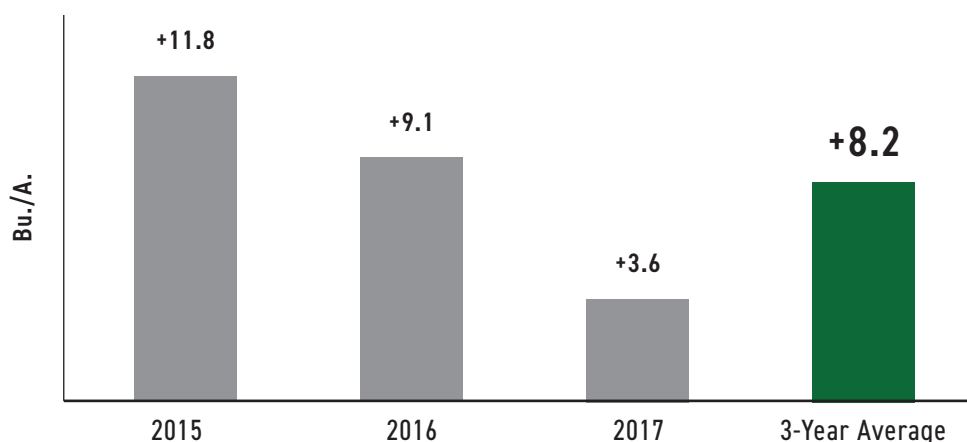
Nutrient availability is often limited during the cool, wet conditions that are common in early spring. An in-furrow starter fertilizer application is the most efficient way to address this issue, and PureGrade® Diamond 6-24-6 has proven to be one of the most consistent pop-up starters we have tested.

PER PROVEN

\$12.78/A.

3-YEAR ROI

3-Year Multi-Location Yield Advantage







## NACHURS® IMPULSE® 10-18-4

NACHURS® imPulse® is a clear liquid fertilizer that is comprised of 100% orthophosphate and contains Bio-K® technology. The NPK analysis of the product is 10-18-4.

### COMPANY

NACHURS ALPINE SOLUTIONS.

### WEBSITE

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

### ADDITIONAL CONTACT INFORMATION

Contact your local Ag Retailer

### APPLICATION RATE & TIMING

5 gal. In-Furrow at Planting

### PFR INSIGHTS

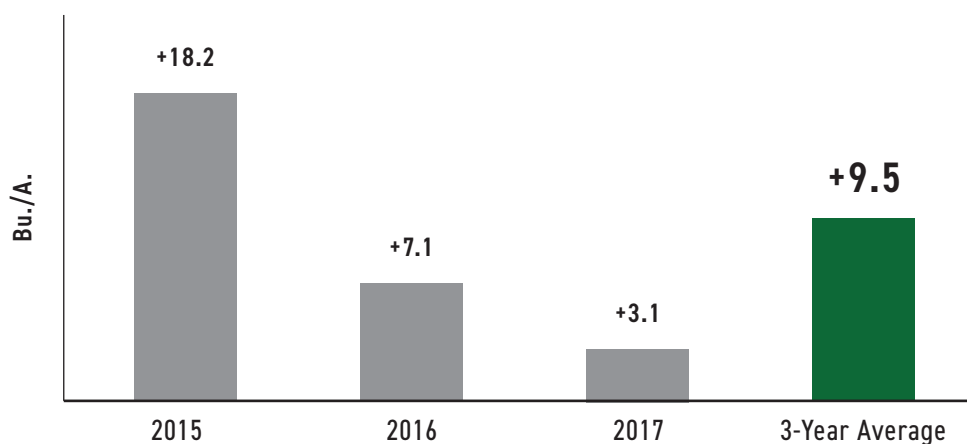
Nutrient availability is often limited during the cool, wet conditions that are common early spring. An in-furrow starter fertilizer application is the most efficient way to address this issue. NACHURS® imPulse® utilizes Bio-K® technology, which uses acetate, a natural plant metabolite, as a carrier for potassium. NACHURS claims increased efficiency with this technology over more traditional potassium forms.

PER  
**PROVEN**

**\$17.67/A.**

**3-YEAR ROI**

3-Year Multi-Location Yield Advantage





## P-MAX<sup>®</sup> LFS

P-Max<sup>®</sup> LFS is a phosphate fertilizer additive. When mixed with liquid fertilizers containing phosphate, P-Max LFS increases phosphate efficiency and plant uptake.

### COMPANY

Rosen's Inc.

### WEBSITE

N/A

### ADDITIONAL CONTACT INFORMATION

1-877-781-9191

### APPLICATION RATE & TIMING

5.12 oz. In-Furrow at Planting

### PFR INSIGHTS

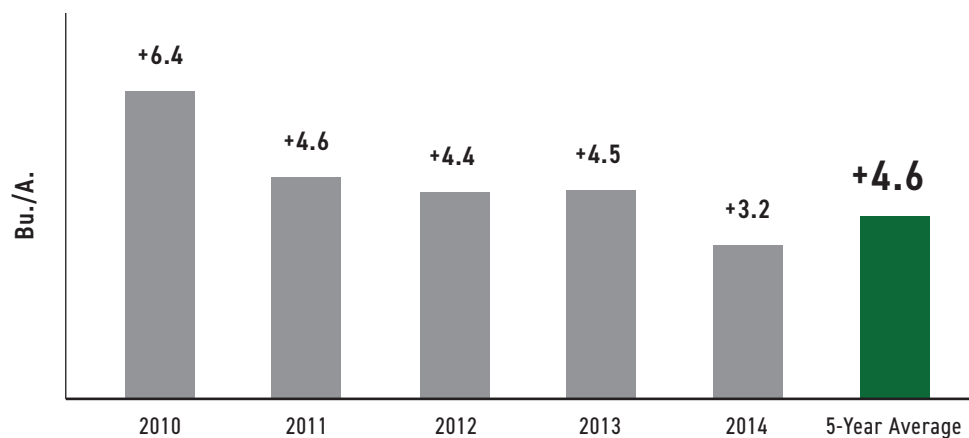
P-Max LFS is a phosphate liquid fertilizer additive that PFR has tested in-furrow for five years. When considering the use of P-Max LFS, ask yourself if you routinely plant early into colder soils that are more prone to experiencing a decrease in plant available P. Environments that naturally limit phosphorus availability, including cold and wet soils, high pH soils, and farms that are testing low in soil P, should be your primary consideration when trying this product.

**PFR PROVEN**

**\$18.46/A.**

**5-YEAR ROI**

5-Year Multi-Location Yield Advantage





## HEADLINE® – IN-FURROW

Headline® fungicide is a fast-acting, broad spectrum fungicide that delivers a high level of activity on more than 50 major diseases that can threaten yield and crop quality. Headline provides protection for more than 90 crops, including corn, soybeans and wheat.

### COMPANY

BASF Corporation

### WEBSITE

[www.agproducts.basf.us](http://www.agproducts.basf.us)

### ADDITIONAL CONTACT INFORMATION

Contact your local Ag Retailer

### APPLICATION RATE & TIMING

6 oz. In-Furrow at Planting

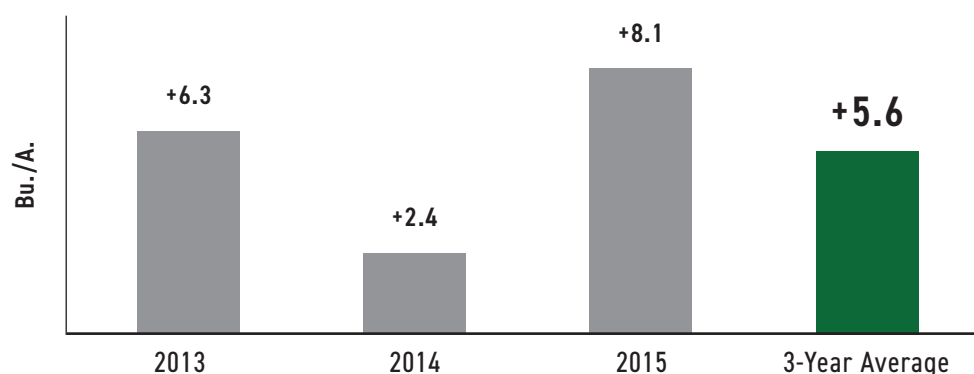
### PFR INSIGHTS

We have seen the greatest responses to Headline when emergence was delayed due to extended periods of saturated soil conditions. It appeared to simply extend the window of disease protection beyond what seed treatments alone can do. Long periods of saturated soils increase the likelihood of seedling blights, which typically contribute to higher yield responses. It's important to note several things. BASF is recommending that farmers look to Xanthion™ for their in-furrow fungicide choice in corn. Although Xanthion is not yet a PFR Proven™ product since we don't have three years of testing behind it, it does appear to be promising at this point. Also, BASF and FMC have teamed up to create two new products that are combinations of two PFR Proven products: Headline® + Capture® LFR®. These will be additional options for in-furrow use. These products are Manticor™ LFR® from BASF and Temitry™ LFR® from FMC.

**PFR  
PROVEN**

**\$7.57/A.**  
**3-YEAR ROI**

3-Year Multi-Location Yield Advantage





## START RIGHT

Start Right is a formulation of nutrients sequestered in a concentrated organic acid. It is fortified with a carbon synergist, fermented plant extracts, seaweed species *Ascophyllum nodosum* and *Chondrus crispus*, and select soil bacteria. Start Right can be applied at planting or early sidedress.

### COMPANY

AgBio Logic, LLC.

### WEBSITE

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

### ADDITIONAL CONTACT INFORMATION

Jerry O'Dell – 864-710-4227

### APPLICATION RATE & TIMING

1 qt. 2x2 at Planting

### PFR INSIGHTS

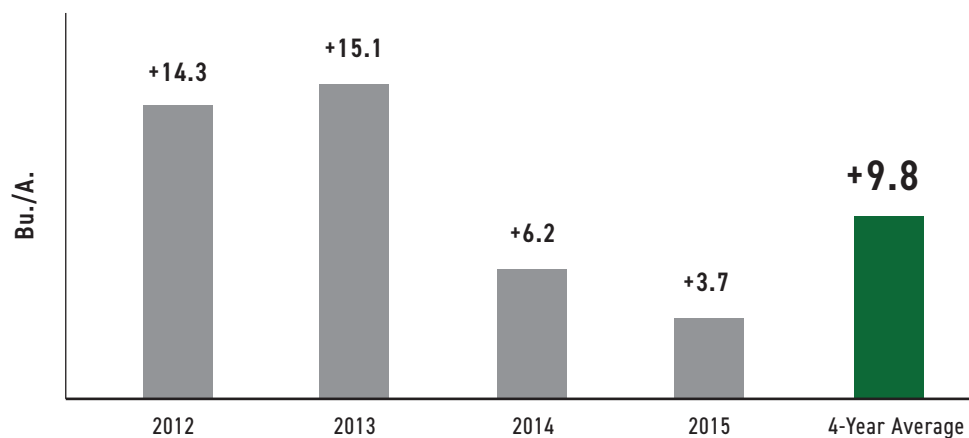
Start Right is a biological row starter additive that can be used in-furrow or in a 2x2 placement. The 2x2 placement has provided more consistent results in PFR over time. As with all products, yield responses vary by environment. We have seen our biggest yield gains with Start Right in 2012 and 2013. In those years, we saw yield increases of over 14 Bu./A. The 2014 and 2015 seasons provided very high corn yields and the response from Start Right was much less than the stress years, only providing a 5.5 to 7 Bu./A. increase. Our four years of testing with Start Right would lead us to believe its biggest gains occur in stress environments.

**PFR PROVEN**

**\$39.66/A.**

**4-YEAR ROI**

4-Year Multi-Location Yield Advantage





## VERSA MAX<sup>®</sup> AC

Versa Max<sup>®</sup> AC is a unique blend of macro and micronutrients that can be applied in a versatile manner. Versa Max AC has an analysis of 7-0-1-3S-1Fe-2Mn-2Zn. It is designed for use in all crops and may be used for soil or foliar applications. Versa Max AC is intended to be used as a supplement to a standard fertility program.

### COMPANY

Rosen's Inc.

### WEBSITE

N/A

### ADDITIONAL CONTACT INFORMATION

1-877-781-9191

### APPLICATION RATE & TIMING

1 qt. at V4-V5

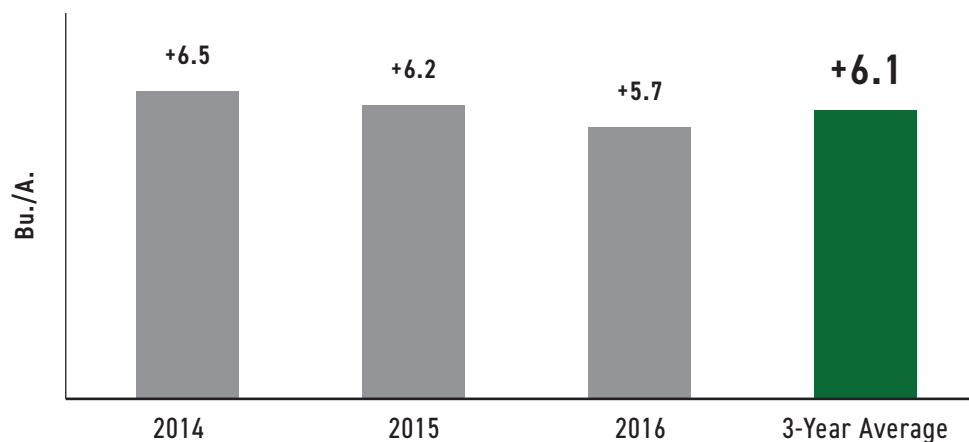
### PFR INSIGHTS

Versa Max AC is designed to be tank mixed with your post emergence herbicide application and is recommended to target the V4 to V5 growth stages. We know this is an important stage in corn development as ear size, particularly the number of rows around the ear, are determined near V6. Environmental stresses at this time could limit nutrient availability and uptake, resulting in decreased yield potential. Versa Max AC is one of the most consistent products we have tested in PFR. Our data across multiple PFR sites suggest that Versa Max AC is a low risk, consistently performing foliar product.

**PROVEN**

**\$18.80/A.**  
**3-YEAR ROI**

3-Year Multi-Location Yield Advantage





## MAX-IN<sup>®</sup> ULTRA ZMB<sup>®</sup>

MAX-IN<sup>®</sup> Ultra ZMB<sup>®</sup> is a foliar product that supplies zinc (4%), manganese (3%), boron (0.1%), and sulfur (3.6%), which are vital for increased plant health and growth. MAX-IN Ultra ZMB can be used in most crops and contains a patented, crop-based adjuvant system for maximum nutrient efficacy.

### COMPANY

Winfield Solutions, LLC.

### WEBSITE

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

### ADDITIONAL CONTACT INFORMATION

Contact your local Ag Retailer

### APPLICATION RATE & TIMING

1 qt. at V4-V5

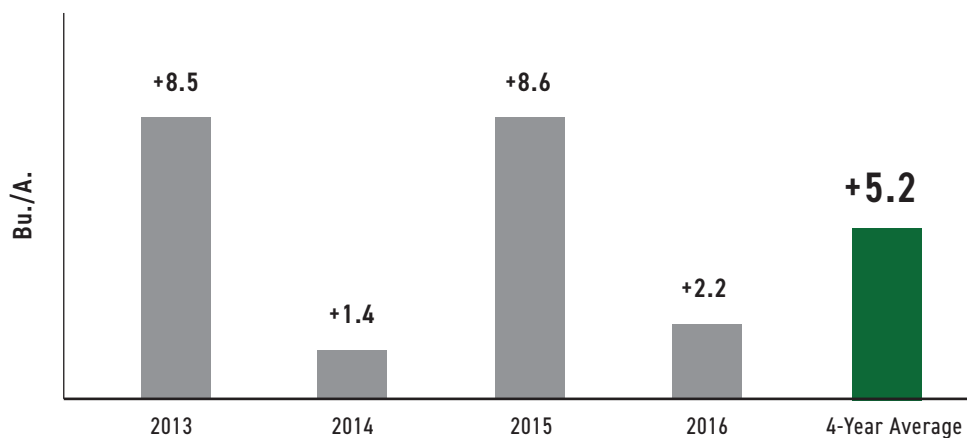
### PFR INSIGHTS

MAX-IN Ultra ZMB is designed to be tank mixed with your post emergence herbicide application and is recommended to target the V4 to V5 growth stages. We know this is an important stage in corn development as ear size, particularly the number of rows around the ear, are determined near V6. Environmental stresses at this time could limit nutrient availability and uptake, resulting in a decreased yield potential. We see the largest yield response to foliar nutrient applications in years with stress conditions during this timeframe.

**PFR PROVEN**

**\$15.72/A.**  
**4-YEAR ROI**

4-Year Multi-Location Yield Advantage





## NUTRIMAX AC™

NutriMax AC™ is a balanced nutritional formula with double systemic action (moves systemically up and down the plant). It is immediately available to the plant which reduces stress and increases root mass. NutriMax AC contains nitrogen (6%), phosphorus (15%), potassium (2%), calcium (5%), boron (3%), zinc (3%), Manganese (2%), and sulfur (2.7%).

### COMPANY

Grow Seven

### WEBSITE

[www.grow7usa.com](http://www.grow7usa.com)

### ADDITIONAL CONTACT INFORMATION

1-866-90G-ROW7

### APPLICATION RATE & TIMING

24 oz. at V4-V5

### PFR INSIGHTS

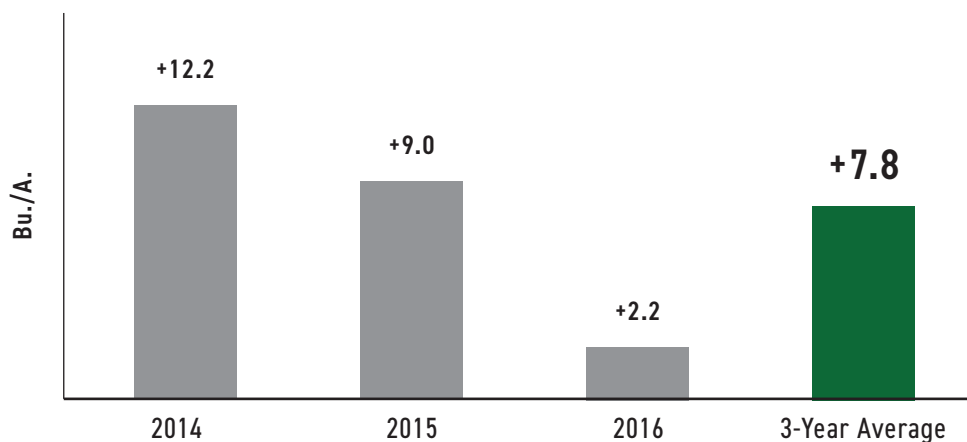
NutriMax AC is a foliar applied nutrient product designed to be tank mixed with your post-applied herbicide near the V4 to V5 timeframe. We know this is an important stage in corn development as ear size, particularly the number of rows around the ear, are determined near V6. Environmental stresses at this time could limit nutrient availability and uptake, resulting in decreased yield potential.

**DEP** **PROVEN**

**\$16.36/A.**

**3-YEAR ROI**

3-Year Multi-Location Yield Advantage





## NITROGEN SEALERS

Nitrogen Sealers double rolling coulter systems are aftermarket upgrades compatible with most 28 percent or anhydrous applicators. Nitrogen Sealing Systems' sealers can be used in twin row or 20 in. row corn.

### COMPANY

Nitrogen Sealing Systems

### WEBSITE

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

### ADDITIONAL CONTACT INFORMATION

John Miller – 217-304-1109

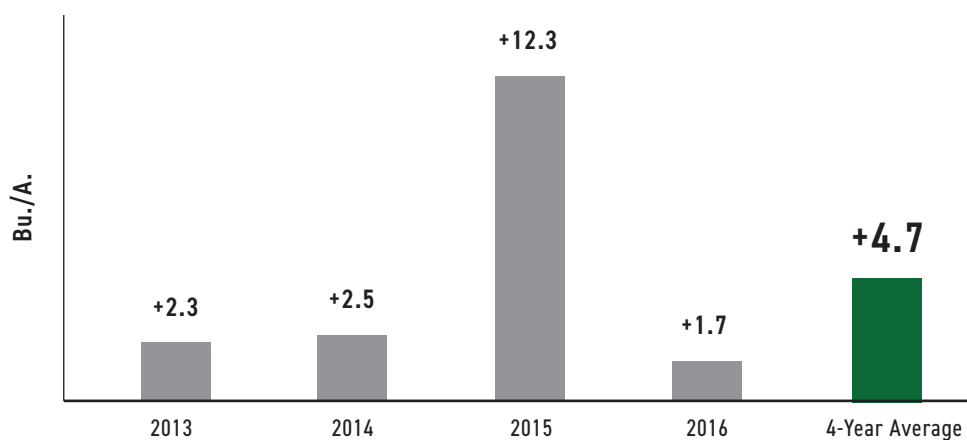
### APPLICATION TIMING

Sidedress

### PFR INSIGHTS

We tested Nitrogen Sealers on UAN sidedress applicators. The double rolling coulter system covers the slot made by the injection knife, reducing the chance of nitrogen volatilization. Nitrogen volatilization is most likely to occur in warm, moist environments when urea nitrogen is near the soil surface. The greatest return on investment was observed during 2015, as a result of warm, saturated soil conditions throughout the sidedress season.

4-Year Multi-Location Yield Advantage







## HEADLINE AMP®

Headline AMP® fungicide provides two modes of disease control. The first provides preventive activity and the second is a triazole that provides post-infection disease control. One of the active ingredients in Headline AMP is F500®, a unique, advanced chemistry that delivers well-documented plant health benefits. F500 helps plants grow more efficiently and allows them to focus their energy on producing higher yields.

### COMPANY

BASF Corporation

### WEBSITE

[www.agproducts.basf.us](http://www.agproducts.basf.us)

### ADDITIONAL CONTACT INFORMATION

Contact your local Ag Retailer

### APPLICATION RATE & TIMING

10 oz. at VT

### PFR INSIGHTS

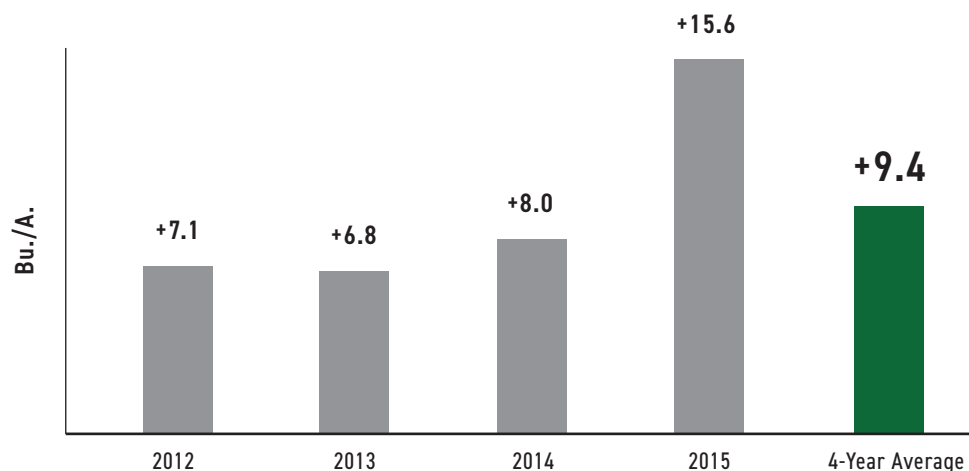
Headline AMP contains a triazole, which provides post-infection disease control. However, we consistently see the largest yield advantage when Headline AMP is applied prior to disease infection. In years of light disease pressure, the F500 component of Headline AMP has provided other plant health benefits like stress reduction, increased stay green, and increased standability and harvestability. While we can watch weather patterns and forecasts and anticipate which fields and which management practices might be at most risk, it is nearly impossible to predict in which years VT fungicide will pay big. Our multi-location PFR data suggests that a planned application of Headline AMP at VT, particularly on the fields most at risk, is a solid long-term investment.

**PROVEN**

**\$13.59/A.**

**4-YEAR ROI**

4-Year Multi-Location Yield Advantage





## CAPELLO® QUASAR CHOPPING HEAD®

The Capello® Quasar Corn Head® has a wide-range of configuration options including folding or rigid frames, chopping or standard row units, and a choice of color schemes.

### COMPANY

Capello USA

### WEBSITE

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

### ADDITIONAL CONTACT INFORMATION

N/A.

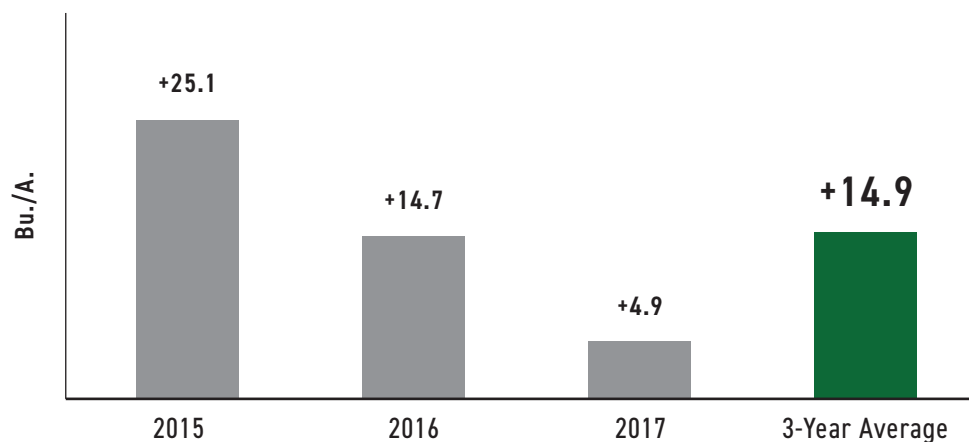
### APPLICATION RATE & TIMING

Harvest

### PFR INSIGHTS

The Capello® Quasar Corn Head sizes corn residue much smaller than a traditional corn head. Smaller residue has more surface area for soil microbes to work on. This in turn results in faster residue breakdown, and ultimately, greater nutrient availability for the following crop. Less residue come spring time also results in warmer soils and, overall, a more favorable seed bed at planting.

3-Year Multi-Location Yield Advantage





## YETTER STALK DEVASTATOR™

Yetter 5000 Stalk Devastator™ pushes over stalks and stubble as they travel through the field. They also reduce damage to tires, tracks, wires, and hydraulic hoses. The Yetter 5000 Stalk Devastators are also designed to crush corn stalks in order to facilitate quicker residue breakdown. They also have a spring loaded, steel construction that will not interfere with most header cart trailers.

### COMPANY

Yetter Manufacturing Company, Inc.

### WEBSITE

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

### ADDITIONAL CONTACT INFORMATION

N/A.

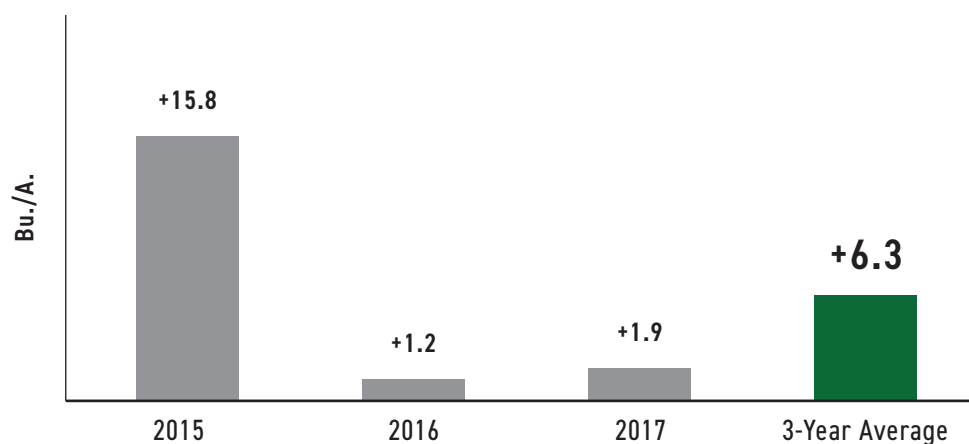
### APPLICATION RATE & TIMING

Harvest

### PFR INSIGHTS

In a corn following corn setting, the Yetter 5000 Stalk Devastator™ has shown the ability to breakdown residue better than the traditional corn head alone. This greater residue breakdown results in better use of nitrogen by the following corn crop via a reduced carbon penalty and overall less residue for the corn crop to compete with in the furrow when emerging the following season.

3-Year Multi-Location Yield Advantage





**ROBUST®**

Robust® is a unique formulation of plant and soil nutrients designed to help overall plant growth as well as the soil microflora.

**COMPANY**

Rosen's Inc.

**WEBSITE**

N/A

**ADDITIONAL CONTACT INFORMATION**

1-877-781-9191

**APPLICATION RATE & TIMING**

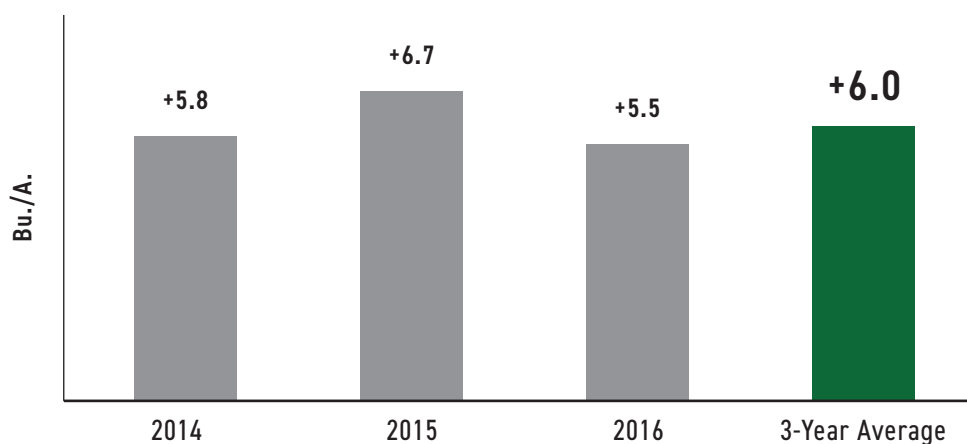
1 qt. Post-Harvest

**PFR INSIGHTS**

Robust is designed to feed the microbes in the soil, leading to increased residue degradation. We observed increased residue degradation as well as increased yield in all three years of testing Robust. We have applied Robust in the fall and spring but the most consistent results have always come from the fall application, as seen in the graph below. Warm fall conditions will accelerate residue degradation.

**PFR PROVEN™**  
**\$12.06/A.**  
**3-YEAR ROI**

**3-Year Multi-Location Yield Advantage**





## RES PLUS

Res Plus is a dual-action residue management product that contains two components for residue breakdown: chelated micronutrients & macronutrients combined with an enhanced residue degradation booster. Recommended crops are corn, soybeans and wheat, preferably applied post-harvest or early pre-plant.

### COMPANY

Elemental Enzymes Ag & Turf, LLC.

### WEBSITE

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

### ADDITIONAL CONTACT INFORMATION

For product questions please contact Joe Hanson at 309-838-0192 and for product orders please call 573-397-1510.

### APPLICATION RATE & TIMING

1 pt. Post-Harvest

### PFR INSIGHTS

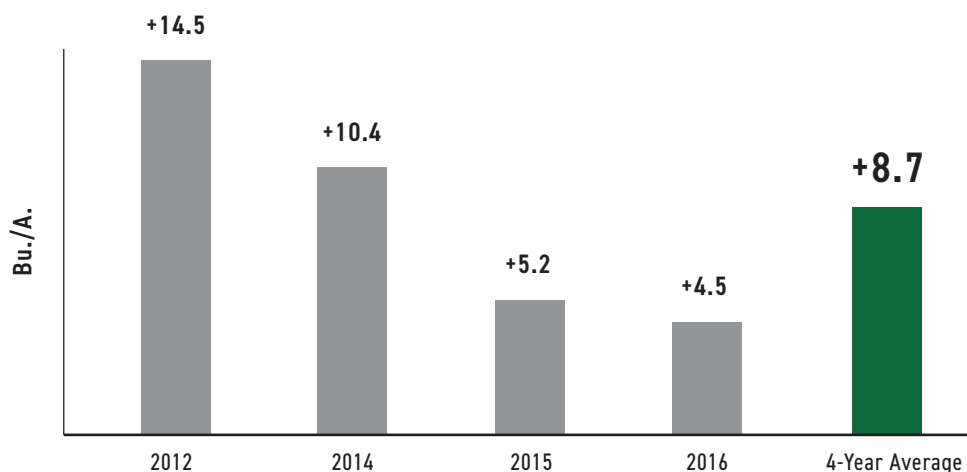
Res Plus, formerly known as RES 16, has shown to increase yield and profitability when fall applied immediately following harvest. We saw the greatest yield response in the first two years of testing. The treatments were always applied in the same locations, into a corn after corn rotation every year except for 2013 and 2014. In 2013, we planted soybeans after corn and received a +4.2 Bu./A. yield increase with the fall application of Res Plus. The speed of residue decomposition is very dependent on temperature and soil moisture during the fall, which is likely the cause for the variation of year-to-year results.

**PROVEN**

**\$31.12/A.**

**4-YEAR ROI**

4-Year Multi-Location Yield Advantage





**WEX®**

Wex® is a multipurpose wetting agent that maximizes the effectiveness of pesticides with improved suspension. When soil applied, an exclusive, nutrient-related action technology stimulates root development, which improves water and nutrient absorption. Wex can be applied at any time on all crops. Do not apply Wex with fertilizers.

#### COMPANY

Conklin Company, Inc.

#### WEBSITE

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

#### ADDITIONAL CONTACT INFORMATION

1-888-919-5578

#### APPLICATION RATE & TIMING

1 qt. Pre-Emerge

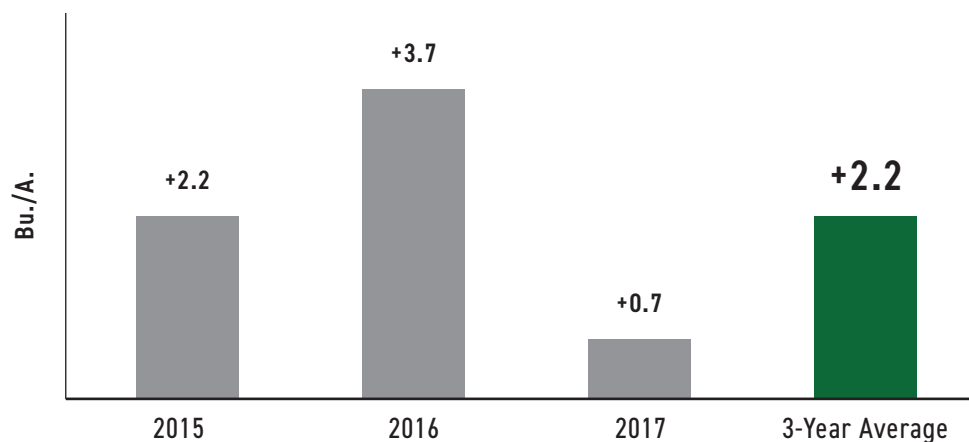
#### PFR INSIGHTS

Some site-years have shown evidence of Wex has assisted with crusting issues and helped increase the initial stand. However, even in environments absent of crusting, a yield advantage was observed from the use of Wex.

**DER PROVEN**

**\$14.05/A.**  
**3-YEAR ROI**

**3-Year Multi-Location Yield Advantage**





## ESCALATE SDS

Escalate SDS has all the benefits of Escalate™ plus a full rate of ILeVO® for protection from Sudden Death Syndrome (SDS) in soybeans. Working from the early part of the season to protect the root zone, it greatly reduces the infection from *Fusarium virguliforme*, the fungus that causes SDS. It also aids in protection against soybean cyst nematode (SCN) and Septoria leaf spot (brown spot).

### COMPANY

Beck's Superior Hybrids, Inc.

### WEBSITE

[www.beckshybrids.com/products/seedtreatments](http://www.beckshybrids.com/products/seedtreatments)

### ADDITIONAL CONTACT INFORMATION

Contact your local Beck's Seed Representative

### APPLICATION RATE & TIMING

Available for an additional \$8.95/unit on any Beck's soybean varieties

### PFR INSIGHTS

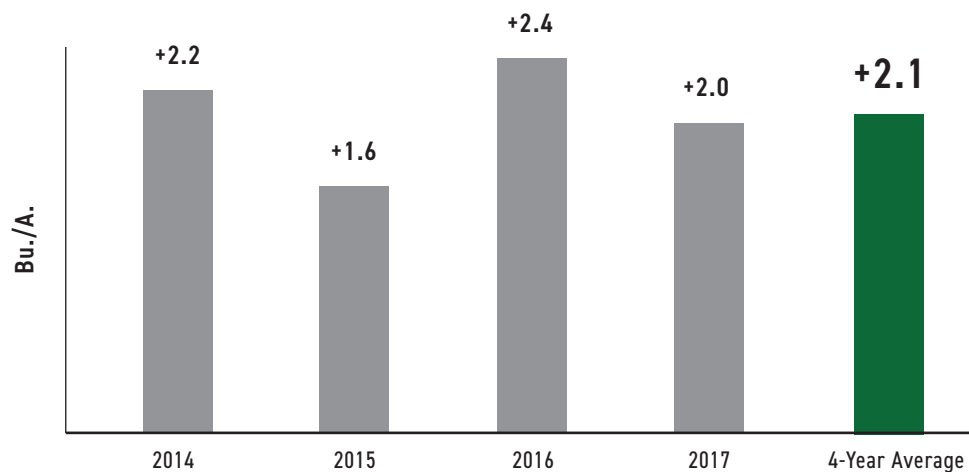
Historically, SDS pressure has not been high at the PFR sites where Escalate SDS was tested. In 2016, the Escalate label was revised to include the control of early season Septoria brown spot. Visual differences in the Septoria brown spot infection were noted throughout the 2016 growing season in both the Indiana and Ohio PFR locations. Traditionally, Septoria brown spot was not thought to be yield limiting. However, we observed a yield advantage with the Escalate SDS treated soybeans. This also could have resulted from added soybean cyst nematode protection from ILeVO.

**PFR PROVEN**

**\$11.59/A.**

**4-YEAR ROI**

4-Year Multi-Location Yield Advantage





## CAPTURE® LFR®

Capture® LFR® is a liquid, at-plant insecticide that puts down a zone of protection and controls pests before seed damage ever takes place. It controls seed and seedling pests such as bean leaf beetle (larvae), grubs, seed corn maggot, seed corn beetle, and wireworm.

### COMPANY

FMC Corporation

### WEBSITE

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

### ADDITIONAL CONTACT INFORMATION

Contact your local Ag Retailer

### APPLICATION RATE & TIMING

3.4 oz. In-Furrow at Planting

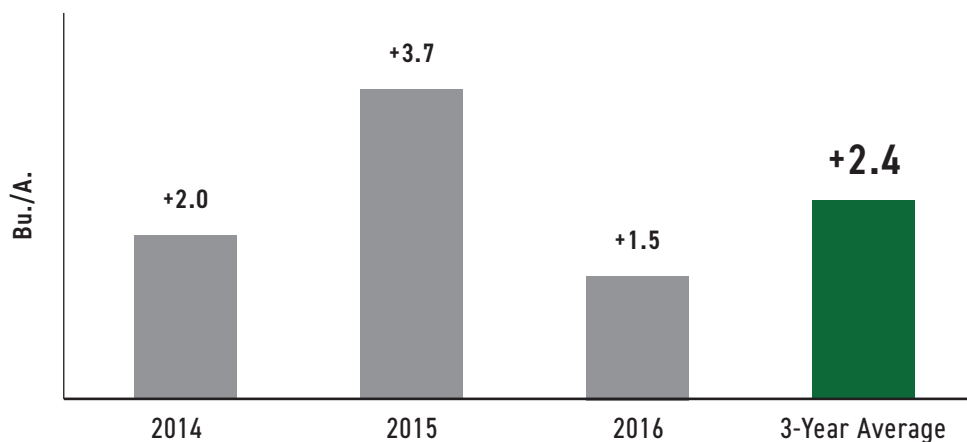
### PFR INSIGHTS

Although Beck's Escalate™ *yield enhancement system* contains the highest rate of a seed applied insecticide, the addition of Capture LFR in-furrow prevents any actual insect feeding on roots and seeds, which has consistently proven to be a profitable practice over this three-year, multi-location study. The largest return on investment was observed with cool, wet weather conditions following planting, which made for slow seedling development.

**PFR PROVEN**

**\$15.35/A.**  
3-YEAR ROI

3-Year Multi-Location Yield Advantage







## FIRST PASS<sup>®</sup> w/ MICROCARB ZMB<sup>™</sup> 3-5-15

First Pass<sup>®</sup> with MicroCarb ZMB<sup>™</sup> (3-5-15) is an in-furrow starter fertilizer specifically formulated to maximize your soybean yields. It provides early-season nutrients, encourages early flowering and maturity, and promotes canopy development.

### COMPANY

The Andersons, Inc.

### WEBSITE

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

### ADDITIONAL CONTACT INFORMATION

Contact your local Ag Retailer

### APPLICATION RATE & TIMING

2 gal. In-Furrow at Planting

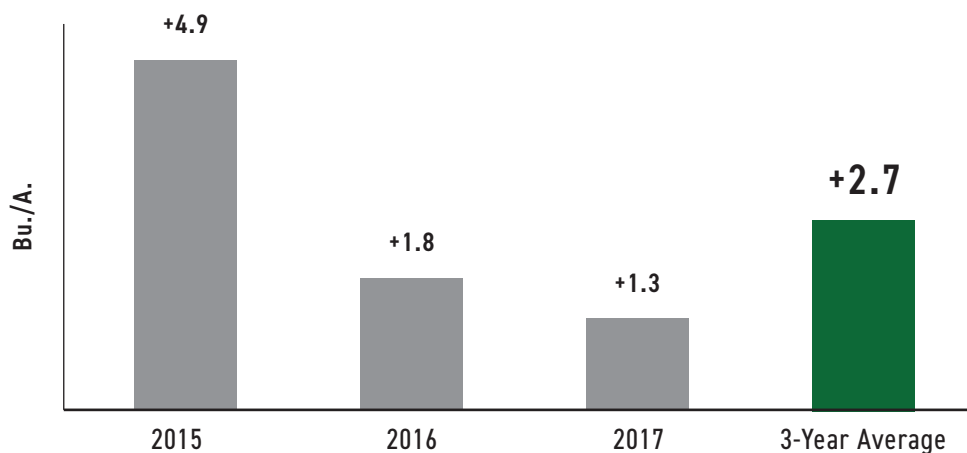
### PFR INSIGHTS

By adding this small amount of P and K, and the additional micronutrients, we are providing a small amount of the nutrients necessary for processes including photosynthesis and protein formation. Ultimately, these processes contribute to overall pod-fill and yield.

**PROVEN**

**\$9.19/A.**  
3-YEAR ROI

3-Year Multi-Location Yield Advantage





## VERSA MAX™ MN

Versa Max™ Mn provides the micronutrient manganese. Manganese is essential in plant growth, affecting carbohydrate and nitrogen assimilation, chlorophyll production and crop maturity. Versa Max Mn is designed for foliar applications in agronomic crops.

### COMPANY

Rosen's Inc.

### WEBSITE

N/A

### ADDITIONAL CONTACT INFORMATION

1-877-781-9191

### APPLICATION RATE & TIMING

2 qt. at V3-V4

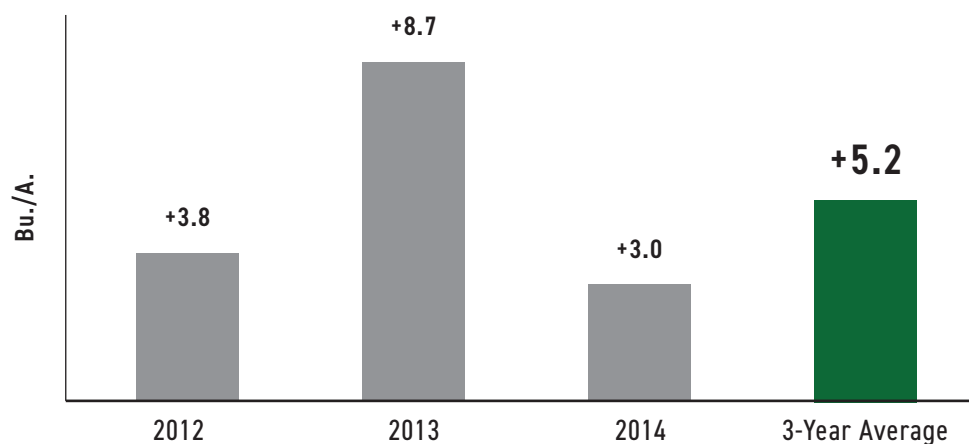
### PFR INSIGHTS

Many soils throughout our marketing area are becoming deficient in manganese (Mn). Mn plays an essential role in soybean development and is known to regulate potassium (K) uptake. Additionally, research has suggested that glyphosate applications on soybeans can tie up Mn. Versa Max Mn is designed to be a tank mix partner for your early, post-applied herbicide program.

PER  
**PROVEN**

**\$58.22/A.**  
3-YEAR ROI

3-Year Multi-Location Yield Advantage





## MAX-IN<sup>®</sup> ULTRA MANGANESE

MAX-IN<sup>®</sup> Ultra Manganese is a foliar product that supplies manganese, which is vital for increased plant health and growth. MAX-IN Ultra Manganese plant nutrients can be used in many crops, including soybeans, dry beans, fresh beans, peanuts, and other crops. It contains a patented, crop-based adjuvant system for maximum nutrient efficacy.

### COMPANY

Winfield Solutions, LLC.

### WEBSITE

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

### ADDITIONAL CONTACT INFORMATION

Contact your local Ag Retailer

### APPLICATION RATE & TIMING

2 qt. at V3-V4

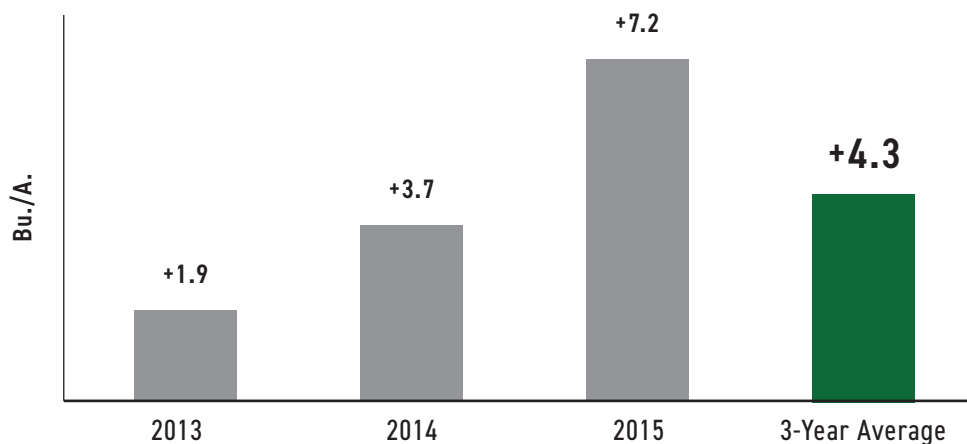
### PFR INSIGHTS

Areas of high pH often show manganese deficiencies. Mn plays an essential role in photosynthesis and overall soybean development. Particularly in legumes, Mn is known to regulate potassium (K) uptake. Additionally, research has suggested that glyphosate applications on soybeans can tie up Mn. We recommend using MAX-IN Ultra Manganese with early, post-applied herbicide programs.

**PFR PROVEN**

**\$33.57/A.**  
**3-YEAR ROI**

3-Year Multi-Location Yield Advantage





## VERSA MAX™ AC

Versa Max® AC is a unique blend of macro and micronutrients that can be applied in a versatile manner. Versa Max AC has an analysis of 7-0-1-3S-1Fe-2Mn-2Zn. It's designed for use in all crops and may be used for soil or foliar applications. Versa Max AC is intended to be used as a supplement to a standard fertility program.

### COMPANY

Rosen's Inc.

### WEBSITE

N/A

### ADDITIONAL CONTACT INFORMATION

1-877-781-9191

### APPLICATION RATE & TIMING

2 qt. at R1-R3

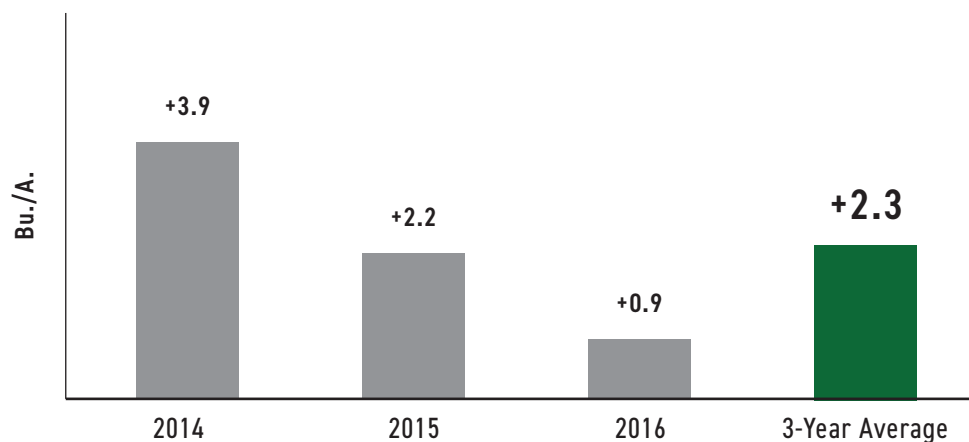
### PFR INSIGHTS

Versa Max AC is used in a similar way as Versa Max Soybean, but is a more versatile "all crop" formulation. Versa Max AC has performed well in three years of testing and has been named a PFR Proven™ product for corn and soybeans. We recommend Versa Max AC for farmers who want to use just one foliar feed product for corn and soybeans.

**PFR PROVEN**

**\$16.64/A.**  
**3-YEAR ROI**

3-Year Multi-Location Yield Advantage





## VERSA MAX<sup>®</sup> SOYBEAN

Versa Max<sup>®</sup> Soybean is a mixture of macro and micronutrients that can be applied in a versatile manner, as a foliar application or in-row starter/sidedress applications. Versa Max Soybean is designed for use in soybeans and can improve plant health by providing efficient delivery of nitrogen and essential micronutrients (sulfur, iron, manganese, zinc) as part of a total fertility program.

### COMPANY

Rosen's Inc.

### WEBSITE

N/A

### ADDITIONAL CONTACT INFORMATION

1-877-781-9191

### APPLICATION RATE & TIMING

2 qt. at R1-R3

### PFR INSIGHTS

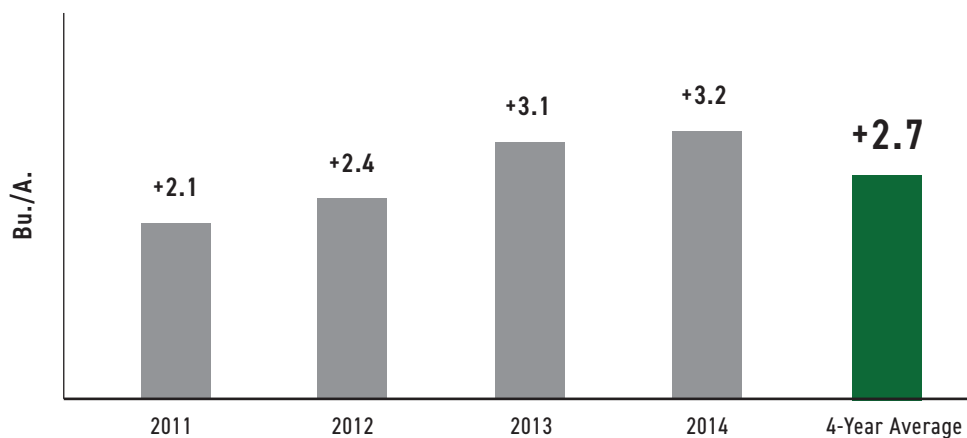
Versa Max Soybean is best applied foliar at the R1 growth stage, but can be used up to R3. It can also be tank mixed with most fungicides and insecticides. We have received very consistent results across multiple years and locations with the application of Versa Max Soybeans.

**PFR PROVEN**

**\$24.29/A.**

**4-YEAR ROI**

4-Year Multi-Location Yield Advantage





## MAX-IN<sup>®</sup> ULTRA ZMB<sup>®</sup>

MAX-IN<sup>®</sup> Ultra ZMB<sup>®</sup> is a foliar product that supplies zinc, manganese and boron, which are vital for increased plant health and growth. MAX-IN Ultra ZMB plant nutrients can be used in most crops and contain a patented, crop-based adjuvant system for maximum nutrient efficacy.

### COMPANY

Winfield Solutions, LLC.

### WEBSITE

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

### ADDITIONAL CONTACT INFORMATION

Contact your local Ag Retailer

### APPLICATION RATE & TIMING

2 qt. at R1-R3

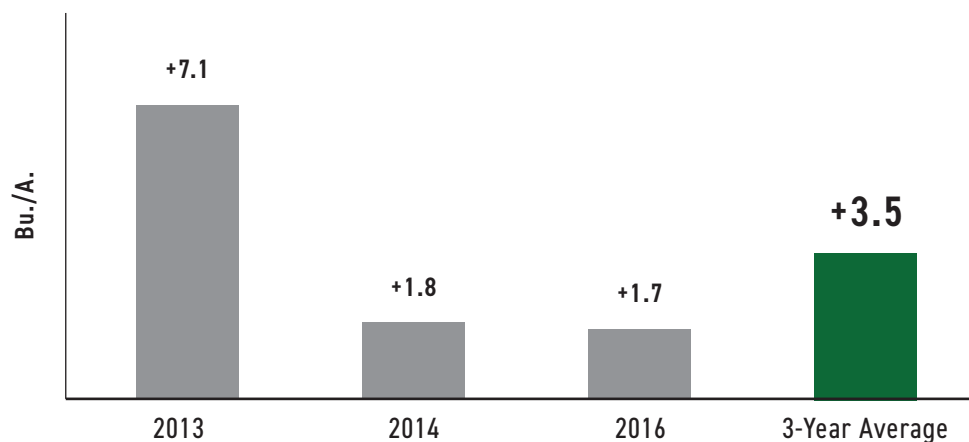
### PFR INSIGHTS

MAX-IN Ultra ZMB is a versatile foliar feed product that can be tank mixed with most fungicides and insecticides. In 2013 we received some periods of dry weather, which led to a higher yield response from the foliar application. Overall, with an average ROI of \$32.16/A., MAX-IN Ultra ZMB should be considered as part of a late-season nutrient program.

**PFR PROVEN**

**\$32.16/A.**  
**3-YEAR ROI**

3-Year Multi-Location Yield Advantage





# PRIAXOR®

Priaxor® fungicide is designed to protect plants from a large variety of fungi in various crops including corn, soybeans, and wheat. It is powered by Xemium® fungicide, an active ingredient that continuously distributes its unique chemistry throughout the leaf to help deliver long-lasting disease protection. Priaxor fungicide is a combination of this advanced chemistry and F500®, the same active ingredient as in Headline® fungicide.

## COMPANY

BASF Corporation

## WEBSITE

[www.agproducts.basf.us](http://www.agproducts.basf.us)

## ADDITIONAL CONTACT INFORMATION

Contact your local Ag Retailer

## APPLICATION RATE & TIMING

4 oz. at R3

## PFR INSIGHTS

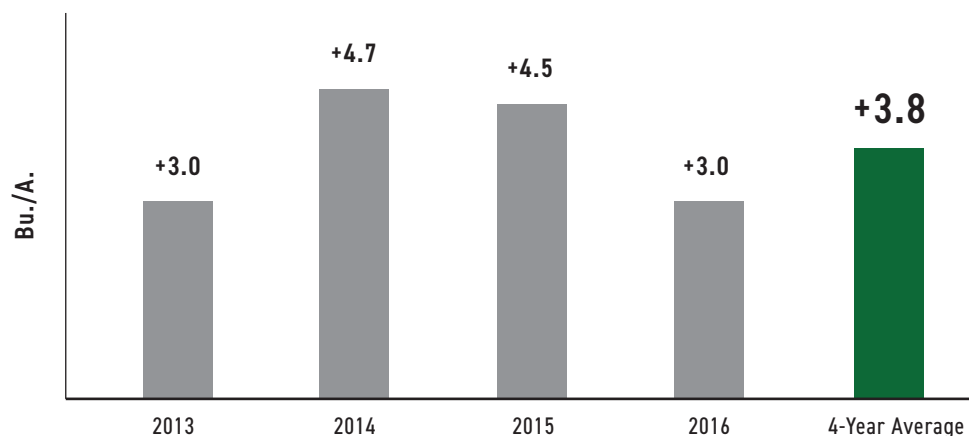
Priaxor fungicide on soybeans at the R3 growth stage has been a very consistent performer across all sites within PFR. In 2014 and 2015, weather conditions were conducive to foliar disease development, resulting in large yield increases with the use of foliar fungicides. Additionally, consistent yield gains have been observed, even in the absence of disease pressure. Strobilurin fungicides have additional benefits in soybeans other than just disease control/suppression. Increased stress tolerance, greater water use efficiency, improved CO<sub>2</sub> assimilation, and delayed plant senescence have all been documented with the use of Priaxor fungicide, by third-party sources.

**PROVEN**

**\$18.73/A.**

**4-YEAR ROI**

4-Year Multi-Location Yield Advantage





## STRATEGO® YLD

Stratego® YLD fungicide features the latest in triazole technology for corn and soybeans. Offering two modes of action, it provides both preventive and curative activities and systemic movement to provide broad-spectrum, long-lasting disease control and higher yield potential.

### COMPANY

Bayer CropScience

### WEBSITE

[www.cropscience.bayer.us](http://www.cropscience.bayer.us)

### ADDITIONAL CONTACT INFORMATION

Contact your local Ag Retailer

### APPLICATION RATE & TIMING

4 oz. at R3

### PFR INSIGHTS

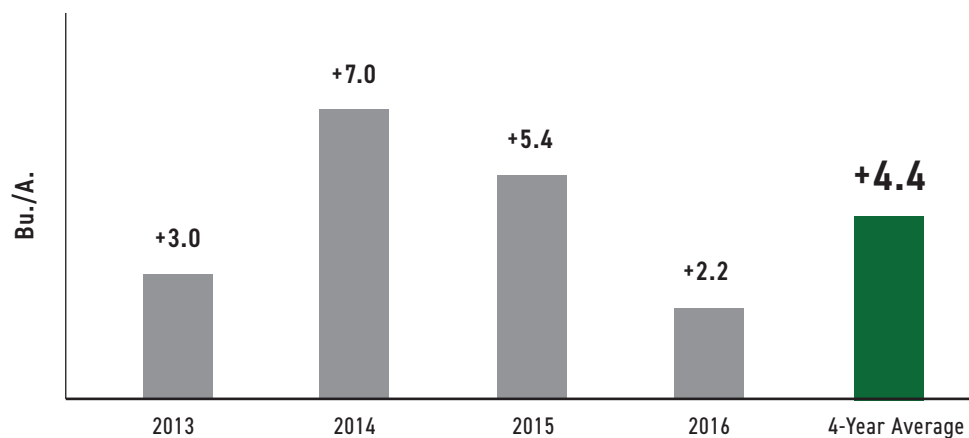
In 2014 and 2015 weather conditions were conducive to foliar disease development, resulting in large yield increases with the use of foliar fungicides. Of all the PFR Proven™ fungicide products, Stratego YLD provided the greatest yield gains during years of high disease pressure. Additionally, positive yield gains have been observed, even in the absence of disease pressure. Strobilurin fungicides have additional benefits in soybeans other than disease control/suppression. These include increased stress tolerance, greater water use efficiency, improved CO<sub>2</sub> assimilation, and delayed plant senescence.

**PFR PROVEN**

**\$26.76/A.**

**4-YEAR ROI**

4-Year Multi-Location Yield Advantage







## PREEMPTOR™ SC

Preemptor™ SC offers a fast-acting strobilurin combined with the long lasting triazole. It protects against a wide range of diseases including leaf spot, leaf blight, rust, powdery mildew, stem rot, anthracnose and more.

### COMPANY

FMC Corporation

### WEBSITE

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

### ADDITIONAL CONTACT INFORMATION

Contact your local Ag Retailer

### APPLICATION RATE & TIMING

5 oz. at R3

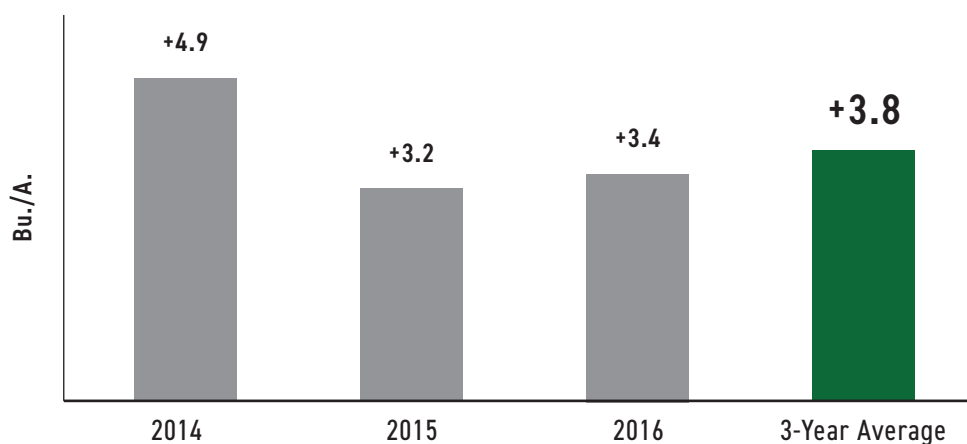
### PFR INSIGHTS

In 2014 and 2015 weather conditions were conducive to foliar disease development, resulting in large yield increases with the use of foliar fungicides. Additionally, positive yield gains have been observed, even in the absence of disease pressure. Strobilurin fungicides have additional benefits in soybeans other than disease control/suppression. These include increased stress tolerance, greater water use efficiency, improved CO<sub>2</sub> assimilation, and delayed plant senescence.

**PFR PROVEN**

**\$20.48/A.**  
**3-YEAR ROI**

3-Year Multi-Location Yield Advantage





## MUSTANG® MAXX

Mustang® Maxx is an insecticide that controls more than 100 pests on 200 crops including soybeans, corn, alfalfa, rice, wheat, sunflowers and pasture. Its enhanced pyrethroid chemistry works on contact for at-plant, pre or post-emergence applications.

### COMPANY

FMC Corporation

### WEBSITE

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

### ADDITIONAL CONTACT INFORMATION

Contact your local Ag Retailer

### APPLICATION RATE & TIMING

3.2 oz. at R3

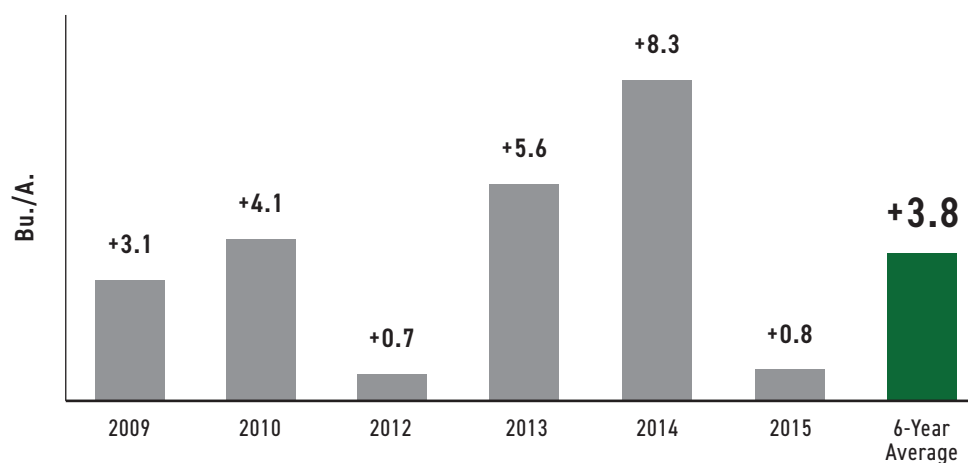
### PFR INSIGHTS

At first glance, the results of Mustang Maxx seem inconsistent year to year. This is due to the inconsistency of insect presence at the time of application. While Mustang Maxx has superior knockdown capabilities, there is little to no residual activity. When insect pressure is high and you need a fast knockdown of troublesome pests, this pyrethroid chemistry is the best option. When insect pressure is not extreme and you're looking for a tank mix partner for your fungicide application, an insecticide with some sort of residual (Fastac™ EC) would be a better choice.

DER  
PROVEN

**\$32.41/A.**  
6-YEAR ROI

6-Year Multi-Location Yield Advantage





## FASTAC™ EC

Fastac™ EC insecticide gives growers an effective new tool for excellent knockdown and residual and repellent action. Fastac insecticide will control a broad-spectrum of crop damaging pests, including aphids, beetles, armyworms and stink bugs.

### COMPANY

BASF Corporation

### WEBSITE

[www.agproducts.basf.us](http://www.agproducts.basf.us)

### ADDITIONAL CONTACT INFORMATION

Contact your local Ag Retailer

### APPLICATION RATE & TIMING

3.2 oz. at R3

### PFR INSIGHTS

The unique attribute of Fastac EC is its residual and repellent action. While there may be better options for a fast knockdown of a high concentration of pests (Mustang® Maxx), Fastac EC shines as a good tank mix partner in a planned fungicide application at the R3 growth stage. The residual aspect of Fastac EC provides consistent results when planning to apply it around a particular growth stage, rather than making a reactive application to insect pressure.

**PROVEN**

**\$13.61/A.**  
**3-YEAR ROI**

3-Year Multi-Location Yield Advantage

