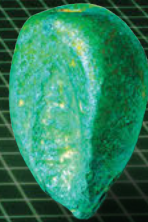


SEED CATALOG  
2024



POTENTIAL

THE POWER OF SELECTION.



# OUR PROMISE

## FAMILY TO FAMILY FARMING

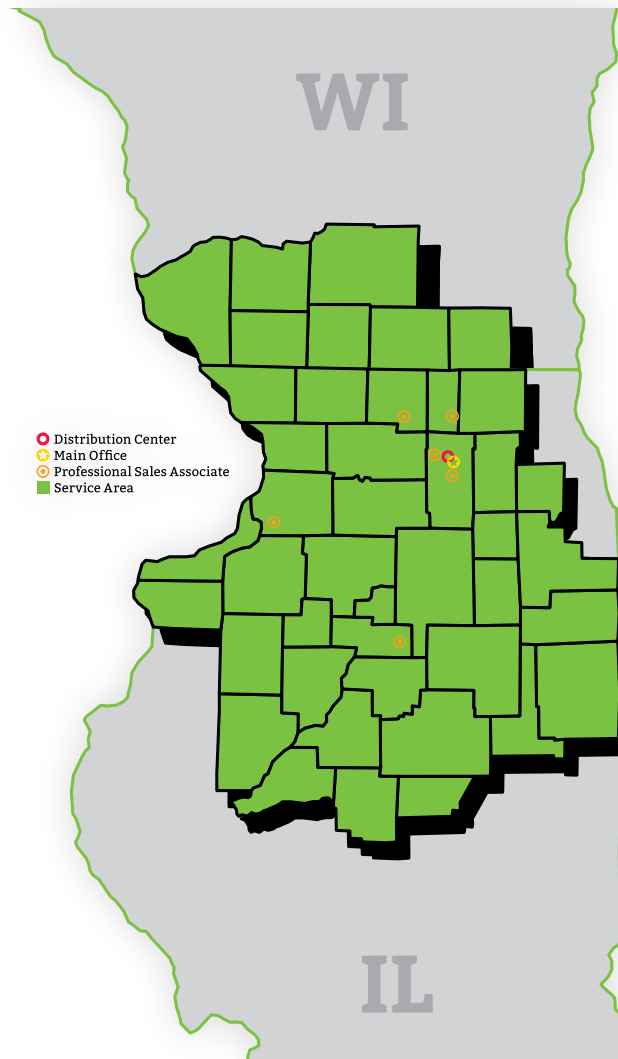
Axis Seed™ is one of the fastest-growing independent seed companies in the U.S. because of our unique business model. Through local, family-owned Independent Regional Companies (IRCs), you have access to the latest genetics, traits, and technologies, backed by people who genuinely care about your success. What you can expect is a dedicated partnership where you receive premium products selected

for your specific soil and profit goals. Because even as the industry evolves with new technologies, success will always come from the relationship—and our family wants to see your family succeed.

*Working with Axis is unlike your relationship with any other company, and it won't take long to see why.*



*Grow Strong®*



## GROWER OWNED. GROWER DRIVEN.

Welcome to Axis Seed Direct, a locally owned, independent seed company providing corn and soybean genetics specific to the Northern Illinois and Southern Wisconsin regions. Axis Seed Direct debuted in 2012 as a brand offered through a local retail outlet and was purchased by Andy Paulson in 2015. Under his ownership, Axis Seed Direct can bring to the market the very best genetics and trait packages to benefit the specific needs of Northern Illinois and Southern Wisconsin farm ground. Axis Seed Direct pairs their expertise of industry-leading genetics with the best soil and crop health-enhancing products through the Nutribolt product offering and Meristem Crop Performance. Axis Seed Direct has access to traits and genetics from major industry suppliers, enabling its products to stand out from the competition.

Andy grew up on a family farm in Northern Illinois, where his family still farms today. He has more than 18 years' experience in the seed industry and understands the importance of achieving the very best results on each acre of your farm. The Axis Seed Direct Team strives to provide you with not only the best product in the industry but also optimum value-added service. To continue to meet the needs of our customers today and tomorrow, we have continued to grow and evolve with our personnel. All of our support staff work in harmony with your Sales Agent to design and implement highly individualized growing plans tailored to your individual soil and growing conditions.



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## OPTIMIZE EVERY ACRE

The success of your farm is a personal commitment of ours. That's why we use complimentary technology designed to maximize your ROI. With SeedSync, we combine our expertise and understanding of your business goals to develop a cropping plan that improves your yield, year after year.

Give us a call today.

# CORN BRANDS

PREMIUM SEED SELECTIONS PROVEN TO OUTPERFORM

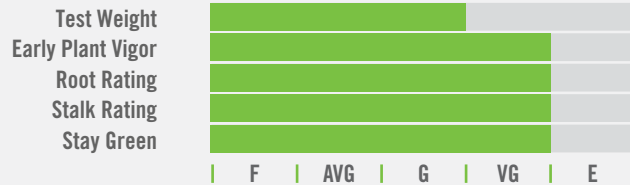


*Grow Strong<sup>®</sup>*

## 47Z61 PCE 97 Day Maturity



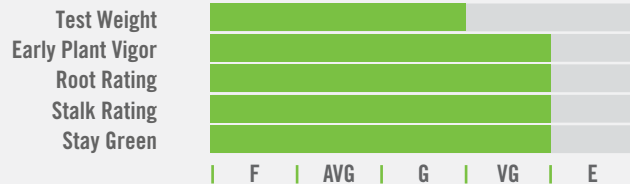
- PowerCore<sup>®</sup> Enlist<sup>®</sup> Refuge Advanced<sup>®</sup> hybrid with late-season eye appeal
- Position on medium to better soils at higher populations
- Medium stature plant with girthy style ear and deep kernels
- Best in zone and north with very good stalks and overall agronomics



## 48B74 TreceptaRIB 98 Day Maturity



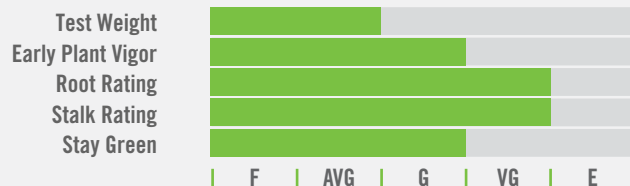
- Large, girthy, flex style ear adapts well to wide range of populations
- Robust hybrid with very good Goss' Wilt tolerance
- Late flowering, fast drying hybrid for grain and silage markets
- Widely adapted east to west with good northern movement



## 49P67 SSPRORIB 99 Day Maturity



- Earliest SmartStax<sup>®</sup> PRO RIB Complete<sup>®</sup> Corn Blend option for known CRW areas
- Very good greensnap, stalk and root ratings
- Medium-tall plant with semi-flex ear type performs at moderate populations
- Great SA, SLB and Eye Spot resistance



**50R21** VT2PRIB 100 Day Maturity



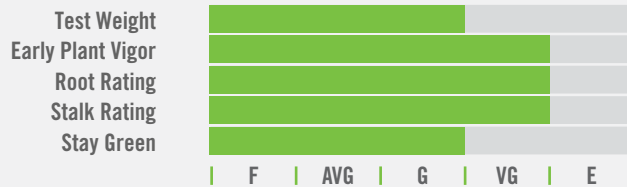
- Dominant yield performance across years and environments
- Lead platform hybrid with tremendous ear size and girth
- Flex ear style adapts well to moderate planting populations
- Medium-tall statured hybrid with very good standability



**51P65** SSSPRORIB 101 Day Maturity



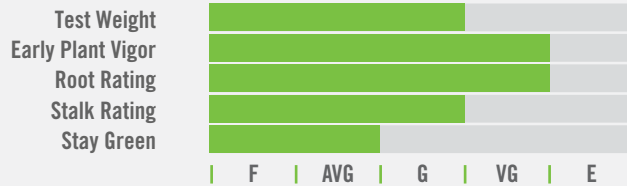
- Above average Tar Spot tolerance
- Solid standability
- Dual-purpose potential



**53B25** VT2PRIB 102 Day Maturity



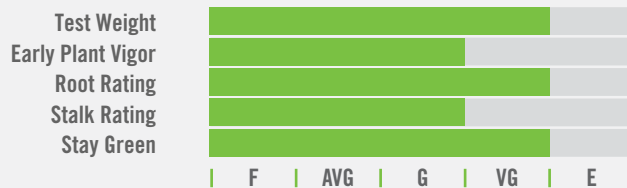
- Above average Tar Spot tolerance
- Solid standability
- Dual-purpose potential



**53T58** SSRIB 103 Day Maturity



- Competitive yield performance with nice consistency across environments
- Good stability and solid stalks
- Tall plant stature with high ear placement
- Very good roots with high greensnap resistance



**54H57** SSRIB 104 Day Maturity



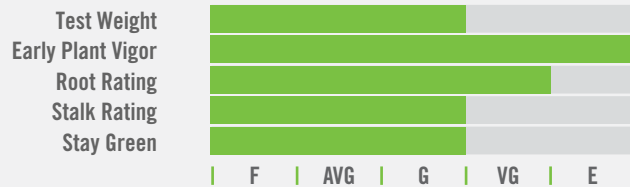
- Widely adapted, high yielding hybrid that works across all soils
- Very long ears, excellent tip fill, with 16-18 kernel rows
- Flowers late for maturity with rapid dry down
- Excellent Goss' Wilt, very good GLS tolerance



**54M24** VT2PRIB 104 Day Maturity



- Strong yield potential with good southern movement
- Excellent greensnap tolerance
- Excellent early vigor for reduced tillage situations
- Very good Goss' Wilt and Common Rust tolerance



**54T64** PCE 104 Day Maturity



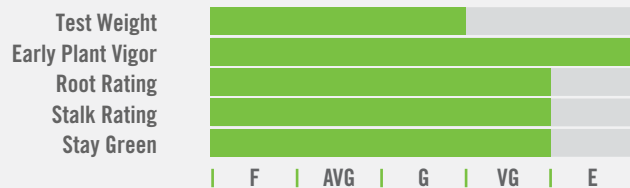
- Impressive disease package including tar spot
- Tremendous late-season staygreen, health, intactness with strong stalks
- Excellent rating for Goss' Wilt and lower greensnap risk
- Widely adapted with long girthy ears and high test weight



**55K52** SSRIB 105 Day Maturity

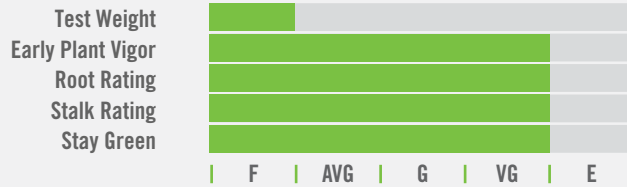


- Solid agronomics and disease package
- Excellent early plant vigor and very good drought stress tolerance
- Strong Goss' Wilt and greensnap tolerance
- Excellent dry down



## 56C03 CONV 106 Day Maturity

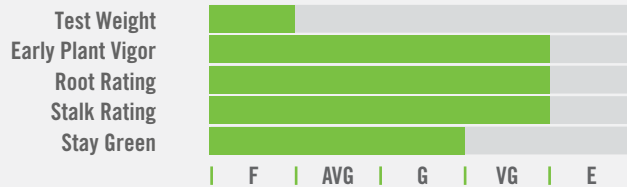
- Good tolerance to Tar Spot, NLB and Goss' Wilt
- Keep in zone and north for best performance
- Girthy ear style with 18-22 rows and very deep kernels
- Strong multi-year data package



## 56C63 PCE 106 Day Maturity



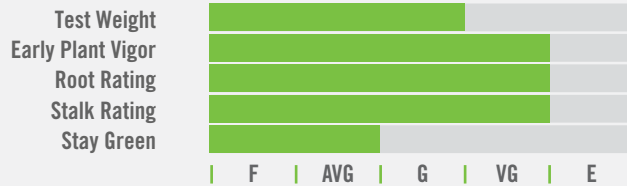
- Good tolerance to Tar Spot, NLB and Goss' Wilt
- Keep in zone and north for best performance
- Girthy ear style with 18-22 rows and very deep kernels
- Strong multi-year data package



## 57D23 DGVT2PRIB 106-108 Day Maturity



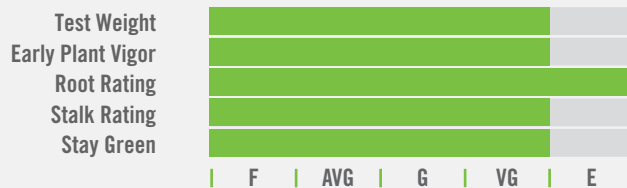
- Very good greensnap and Goss' Wilt tolerance for the west
- Strong stress tolerance and very good ear flex should allow for use on tougher acres
- Best performance in 2019 was in central and east
- Great early plant vigor on this product



## 57Q66 PCE 106-108 Day Maturity



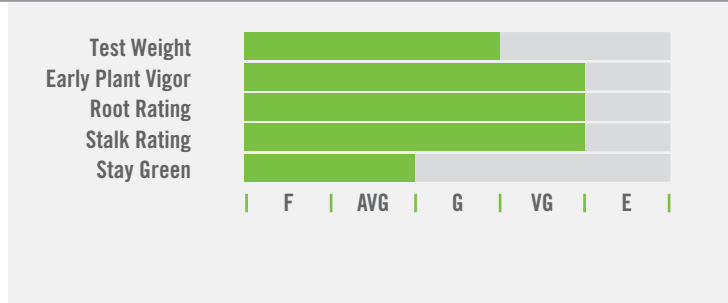
- High performing PowerCore® Enlist® Refuge Advanced® hybrid with excellent agronomics
- Very strong disease package including Goss' Wilt and Tar Spot
- Attractive late-season eye appeal with staygreen and intactness
- Balanced ear type with very good grain quality and test weight



**57Z69** SSPRORIB 107 Day Maturity



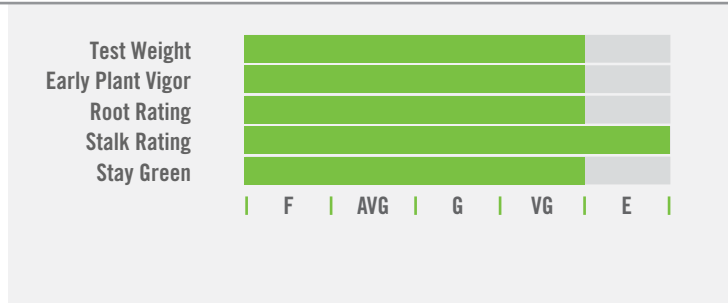
- Very solid agronomic ratings overall
- Great CR, Eye Spot and SLB resistances
- Nice plant stature with a semi-determinate ear type
- Versatile east to west adaptability



**58Z53** SSRIB 108 Day Maturity

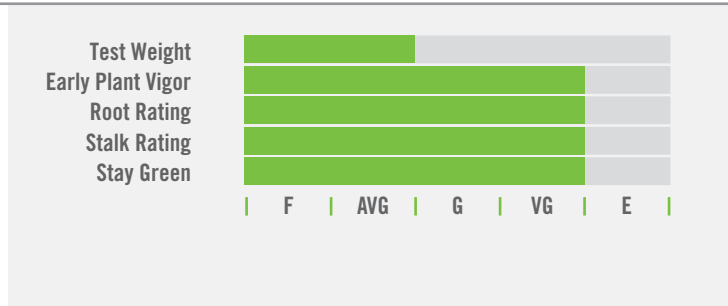


- Consistent no fail hybrid
- Excellent agronomics
- Very good stalks and roots
- Excellent fall appearance



**59A05** CONV 109 Day Maturity

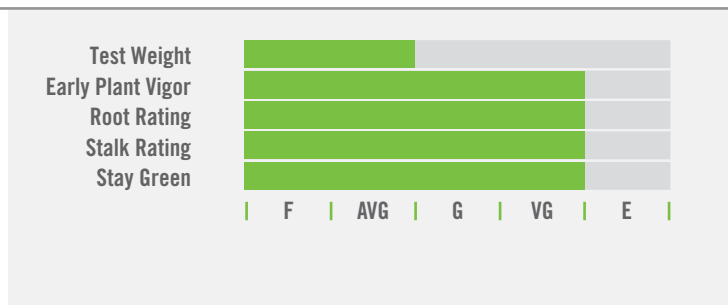
- Excellent top-end yield central and east
- Strong stalks and roots
- Good intactness aid in late-season standability
- Very good dry down



**59A25** VT2PRIB 109 Day Maturity



- Excellent top-end yield central and east
- Strong stalks and roots along with good intactness aid in late-season standability
- Goss' Wilt tolerance limits western adaptability
- Strong northern resistances with overall solid defensive package

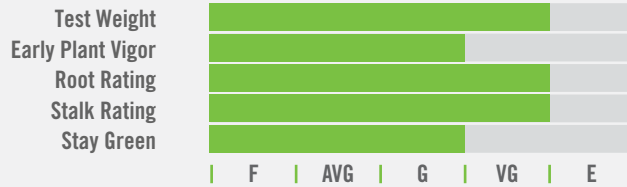




**59D50** SSRIB 109 Day Maturity



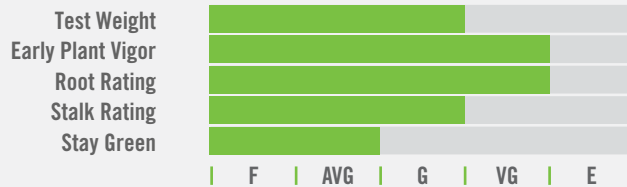
- Consistent yield performance and high test weight
- Medium plant height with a consistent ear line
- Attractive hybrid that adapts well to moderate to high populations
- Recommend fungicide applications in heavy disease areas



**59R27** VT2PRIB 109 Day Maturity

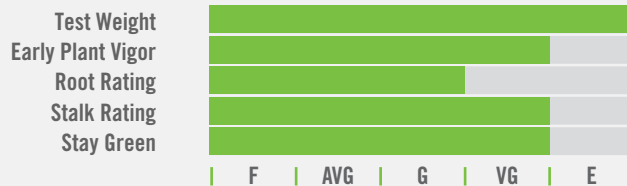


- Exceptional yield performance
- Very good greensnap tolerance but avoid fields with heavy Goss' Wilt
- Will respond well to fungicide use
- Best when positioned on well-drained soils



**59W01** CONV 109 Day Maturity

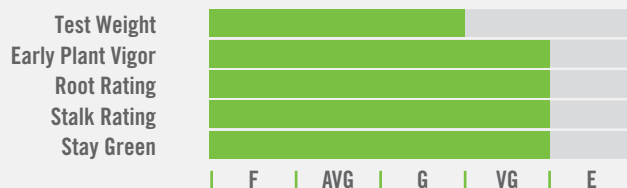
- Yield leader across years with excellent grain quality and test weight
- Widely adapted east to west with late-season intactness
- Strong stalks with good tolerance to anthracnose
- Semi-flex tapered ears with 16-18 rows



**60N61** PCE 110 Day Maturity



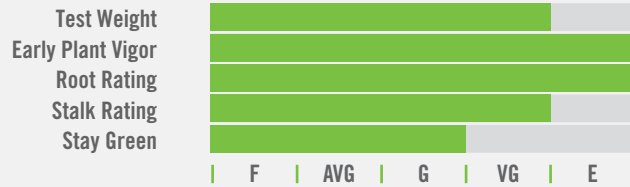
- Moderate stature with fast dry down
- Consistent girthy ears down the row with deep kernels
- Very good tolerance to Goss' Wilt and GLS
- Rewards high management for top-end yield potential



**60P59** SSRIB 110 Day Maturity



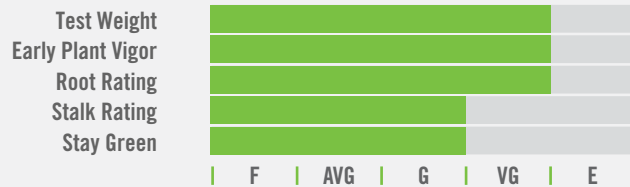
- Very good stalks and excellent roots
- Excellent early vigor and low greensnap risk
- Very good test weight and kernel depth
- Good GLS and NCLB tolerance



**62A58** SSRIB 112 Day Maturity



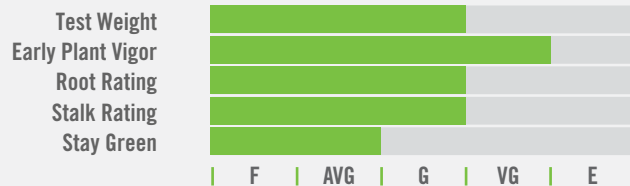
- Very good stalks and roots
- Semi-determinate ear with excellent test weight
- Responds to higher management
- Very good early plant vigor



**62B56** SSRIB 112 Day Maturity

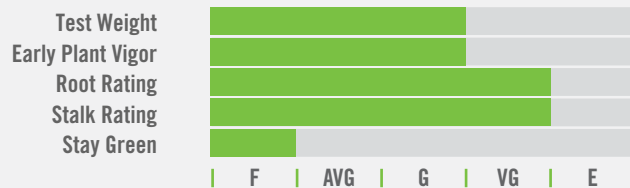


- Widely adapted east to west and good movement north to south
- Fungicide use will maximize performance potential
- Solid defensive package with notable resistance to Southern Leaf Blight
- Great early plant vigor with good roots, stalks and greensnap resistance



**62W06** CONV 112 Day Maturity

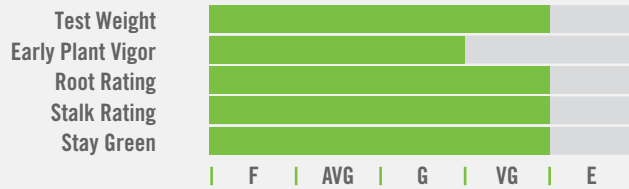
- Produces girthy ears with very thick and deep kernels
- Outstanding yield potential
- Responds well to fungicide application
- Best performance at high plant densities



**63D58** SSRIB 113 Day Maturity



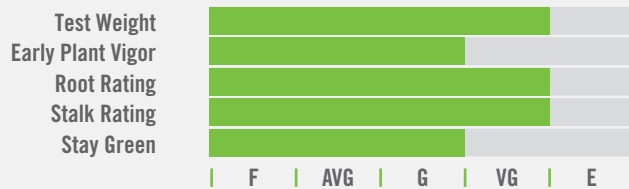
- Widely adapted hybrid with outstanding yield potential
- Outstanding agronomic package with excellent test weight
- Excels in high yield environment
- Late-season health and intactness



**63F60** SSPRORIB 113 Day Maturity



- Very good stalks, roots and test weight
- Good greensnap with very good Goss' Wilt tolerance
- Strong performance on variable to ideal ground
- High food grade potential and above average silage potential



**63W23** DGVT2PRIB 113 Day Maturity

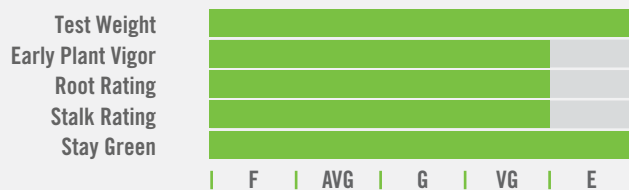


- Very attractive plant with impressive fall appearance
- Produces girthy ears with tremendous kernel flex, size and depth
- Very strong overall disease package
- Optimal performance in moderate to high yield environments



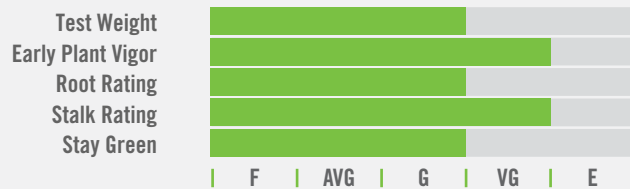
**64C06** CONV 113-115 Day Maturity

- Outstanding food grade potential
- Excellent staygreen and great root strength
- Great central and eastern hybrid
- Moves south well



## 64Z08 CONV 113-115 Day Maturity

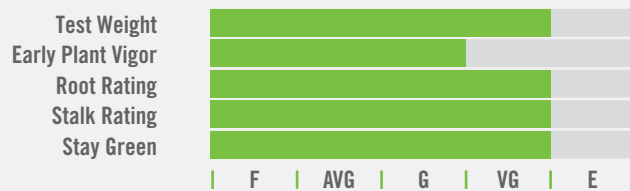
- Very high tolerance to Southern Rust and Goss' Wilt
- Widely adapted east to west with good southern movement
- Medium-long ears with 18-20 kernel rows
- Very good stalks



## 65R36 PCE 115 Day Maturity



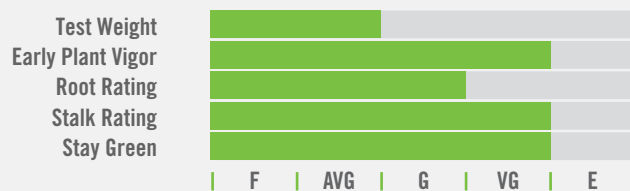
- Large, flex style ears with excellent tip fill and kernel depth
- Dual-purpose option with medium-tall plants and medium-low ear line
- Versatile across soils and best suited to moderate populations
- Excellent silage quality



## 66V66 SSPRORIB 116 Day Maturity



- Very good yield performance across geographies
- Greensnap and Goss' Wilt ratings are very appealing
- Semi-determinant ear type with benefit from higher planting populations
- Above average silage potential



### NOTES

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Before opening a bag of seed, be sure to read, understand and accept the stewardship requirements, including applicable refuge requirements for insect resistance management, for the biotechnology traits expressed in the seed as set forth in the Technology/Stewardship Agreement that you sign. By opening and using a bag of seed, you are reaffirming your obligation and agreement to comply with the most recent stewardship requirements.

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**ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. B.t. products** may not yet be registered in all states. Check with your seed brand representative for the registration status in your state.

Refuge seed may not always contain the DroughtGard® trait.

**IMPORTANT IRM INFORMATION:** Certain products are sold as RIB Complete® corn blend products, and do not require the planting of a structured refuge except in the Cotton-Growing Area where corn earworm is a significant pest. Products sold without refuge in the bag (non-RIB Complete) require the planting of a structured refuge. See the IRM/Grower Guide for additional information. Always read and follow IRM requirements.

Insect control technology provided by **Vip3A** is utilized under license from Syngenta Crop Protection AG. Agrisure Viptera® is a registered trademark of a Syngenta group company.

**ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS.** Roundup Ready® 2 Technology contains genes that confer tolerance to glyphosate. Glyphosate will kill crops that are not tolerant to glyphosate.

**Performance may vary** from location to location and from year to year, as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible and should consider the impacts of these conditions on the grower's fields.







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Seeds containing the Enlist, Herculex and PowerCore traits are protected under numerous US patents. Seeds containing patented traits can only be used to plant a single commercial crop and cannot be saved or replanted. You acknowledge and agree to be bound by the terms and conditions of the following documents in effect at the time of planting of this seed: (i) the Technology Use Agreement and (ii) the Product Use Guides for all technologies in this seed, including the Herbicide Resistance Management (HRM), and Use requirements detailed therein ([www.corteva.us/Resources/traits-stewardship.html](http://www.corteva.us/Resources/traits-stewardship.html)). To plant Enlist, Herculex and PowerCore seed, you must have a limited license from Corteva Agriscience. In consideration of the foregoing, Corteva Agriscience grants to the Grower the limited license to use its technology to produce only a single commercial crop in the United States under the terms and conditions set forth in the Technology Use Agreement in effect at the time of planting of this seed.

Always read and follow herbicide label directions prior to use. Enlist® products contain the Enlist trait that provides crop safety for use of labeled over-the-top applications of glyphosate, glufosinate and 2,4-D herbicides featuring Colex-D® technology when applied according to label directions. Following burndown, the only 2,4-D containing herbicide products that may be used with Enlist™ crops are products that feature Colex-D technology and are expressly labeled for use on Enlist crops. 2,4-D products that do not contain Colex-D technology are not authorized for use in conjunction with Enlist products. Enlist corn contains genes that confer tolerance to 2,4-D and -fop herbicides. 2,4-D and -fop herbicides will damage or kill crops that are not tolerant to 2,4-D or -fops.



IRM - Properly managing trait technology is key to preserving it as a long-term crop protection tool. Growers who fail to comply with IRM requirements risk losing access to this product. To help preserve the effectiveness of B.t. corn technologies, growers planting B.t. corn technologies are required to follow an IRM Plan. Consult the Corn Product Use Guide for appropriate refuge configuration options. Before opening a bag of seed, be sure to read, understand and accept the stewardship requirements, including applicable refuge requirements for insect resistance management, for the biotechnology traits expressed in the seed as set forth in the Technology Use Agreement and Product Use Guide. By opening and using a bag of seed, you are reaffirming your obligation to comply with the most recent stewardship requirements. For complete details on IRM requirements for hybrids with Bt technology, including refuge examples and important information on the use of insecticides on refuge and Bt corn acres, please consult appropriate Product Use Guide. Go to [www.corteva.us/Resources/traits-stewardship.html](http://www.corteva.us/Resources/traits-stewardship.html) to download the latest Corteva Agriscience Corn Product Use Guide.









Enlist E3® soybean seeds containing the Enlist® trait can only be used to plant a single commercial crop. It is unlawful to save and replant Enlist E3® soybeans. Additional information and limitations on the use of these products are provided in the Corteva Agriscience Technology Use Agreement and Enlist® Soybean Product Use Guide. U.S. patents for Corteva Agriscience technologies can be found at the following webpage: [www.corteva.us/Resources/traits-stewardship.html](http://www.corteva.us/Resources/traits-stewardship.html).

Enlist Duo® and Enlist One® herbicides are not registered for sale or use in all states or counties. Contact your state pesticide regulatory agency to determine if a product is registered for sale or use in your area. Enlist Duo and Enlist One are the only 2,4-D products authorized for use with Enlist crops. Consult Enlist herbicide labels for weed species controlled. Always read and follow label directions. Enlist E3® soybeans were jointly developed by Corteva Agriscience and MS Technologies, LLC.™ Enlist, Enlist E3, the Enlist E3 logo, and Colex-D are trademarks of Corteva Agriscience. PowerCore® multi-event technology developed by Corteva Agriscience and Monsanto. Roundup®, Roundup Ready®, Roundup Ready 2 Technology and Design, and PowerCore® are registered trademarks of Monsanto Technology LLC. Liberty Link® and the Water Droplet Design® are registered trademarks of BASF. Enlist®, Colex-D®, and Refuge Advanced® are trademarks of Corteva Agriscience and its affiliated companies. Excellence Through Stewardship is a registered trademark of Excellence Through Stewardship.

**PCE – PowerCore® Enlist® Refuge Advanced® corn products with HX1, VTP, ENL, LL, RR2. Contains a single-bag integrated refuge solution for above-ground insects. In EPA-designated cotton-growing counties, a 20% separate corn borer refuge must be planted with PowerCore Enlist Refuge Advanced products.**

### CORN TRAITS

DGVT2PRIB	 VTDoublePRO <sup>RIB COMPLETE</sup>	DroughtGard® Hybrids with VT Double PRO® RIB Complete® Corn Blend
SSRIB		SmartStax® RIB Complete® Corn Blend
SSPRORIB		SmartStax® PRO RIB Complete® Corn Blend
VT2PRIB		VT Double PRO® RIB Complete® Corn Blend
TreceptaRIB		Trecepta® RIB Complete® Corn Blend
PCE		PowerCore® Enlist® Refuge Advanced®

### SOYBEAN TRAIT

E3		Enlist E3® Soybeans
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## PLANT CHARACTERISTICS

BRAND	TECH	MATURITY	50% Silk	Black Layer	Cob Color	Ear Height	Ear Type	Husk Cover	Kernel Rows	Leaf Angle	Plant Height	Shank Length	Test Weight	Corn on Corn
47Z61	PCE	97	1235	2400	R	M	SF	M	14-16	SE	M	M	G	G
48B74	TreceptaRIB	98	1260	2450	R	MH	FL	ML	16-18	SE	MT	ML	G	VG
49P67	SSPRORIB	99	1213	2365	R	MH	SFL	A	18-20	N/A	MT	N/A	AV	WF
50R21	VT2PRIB	100	1260	2510	R	M	SFL	M	18-20	SE	MT	ML	G	G
51P65	SSPRORIB	101	1232	2427	R	M	SFL	A	16-18	N/A	M	N/A	G	R
53B25	VT2PRIB	102	1256	2474	R	M	SFL	A	16-18	N/A	M	N/A	G	NR
53T58	SSRIB	103	1275	2486	R	MH	SD	A	18-20	N/A	MT	N/A	VG	WF
54H57	SSRIB	104	1290	2605	R	MH	FL	M	16-18	SE	MT	N/A	G	VG
54M24	VT2PRIB	104	1290	2516	R	M	SD	A	16-18	N/A	M	N/A	G	NR
54T64	PCE	104	1275	2575	R	MH	SFL	ML	16-18	SE	MT	ML	VG	VG
55K52	SSRIB	105	1336	2632	R	M	SFL	A	16-18	N/A	M	N/A	G	R
56C03	CONV	106	1270	2630	R	MH	SFL	ML	18-22	SE	MT	M	F	VG
56C63	PCE	106	1270	2630	R	MH	SFL	ML	18-22	SE	MT	M	F	VG
57D23	DGVT2PRIB	106-108	1291	2543	R	MH	SFL	A	14-16	N/A	MT	N/A	G	NR
57Q66	PCE	106-108	1330	2700	R	M	SFL	ML	16-18	SE	MT	ML	VG	VG
57Z69	SSPRORIB	107	1281	2524	R	M	SD	A	16-18	N/A	M	N/A	G	WF
58U08	CONV	107-109	N/A	N/A	R	M	SFL	N/A	14-16	N/A	MT	N/A	H	N/A
58Z53	SSRIB	108	1329	N/A	N/A	MH	B	VG	14-16	SU	MT	MDS	VG	VG
59A05	CONV	109	1286	2538	R	MH	SD	A	16-18	N/A	T	N/A	AV	NR
59A25	VT2PRIB	109	1286	2538	R	MH	SD	A	16-18	N/A	T	N/A	AV	NR
59D50	SSRIB	109	1330	2740	R	M	SFL	M	16-18	SE	M	ML	VG	VG
59R27	VT2PRIB	109	1366	2691	R	MH	SD	A	14-16	N/A	MT	N/A	G	NR
59W01	CONV	109	1300	2730	P	MH	SFL	ML	16-18	H	MT	N/A	E	VG
60N61	PCE	110	1320	2765	R	M	SFL	ML	16-18	SE	M	ML	G	VG
60P59	SSRIB	110	1301	2563	R	M	SD	A	14-16	N/A	M	N/A	VG	WF
62A58	SSRIB	112	1334	2655	R	M	SD	A	16-18	N/A	MT	N/A	VG	WF
62B56	SSRIB	112	1389	2736	R	MH	SD	A	16-18	N/A	M	N/A	G	WF
62W06	CONV	112	1300	2780	R	M	F	ML	16-18	U	M	M	G	VG
63D58	SSRIB	113	1320	2790	R	M	SFL	ML	16	SU	MT	ML	VG	VG
63F60	SSPRORIB	113	1347	2681	R	MH	SFL	A	16-18	N/A	MT	N/A	VG	R
63W23	DGVT2PRIB	113	1300	2825	R	MH	SFL	ML	18-20	SE	MT	N/A	VG	VG
64C06	CONV	113-115	1340	2625	R	N/A	FL	C	14-18	N/A	T	N/A	E	E
64Z08	CONV	113-115	1360	2855	R	MH	SFL	ML	18-20	SU	MT	ML	G	VG
65R36	PCE	115	1350	2850	R	M	FL	ML	16-18	SE	MT	ML	VG	G
66V66	SSPRORIB	116	1393	2772	P	MH	SD	A	16-18	N/A	MT	N/A	AV	R

**Rating Scale:** E = Excellent, VG = Very Good, G = Good, AV = Average, F = Fair, R = Resistance, N/A = Not Available

**Cob Color:** R = Red, P = Pink

**Ear Height:** M = Medium, MH = Medium-High

**Ear Type:** B = Balanced, SFL = Semi-Flex, SD = Semi-Determinate, SF = Semi-Fixed, FL = Flex, F = Fixed

**Husk Cover:** ML = Medium-Long, M = Medium, A = Adequate

**Leaf Angle:** SU = Semi-Upright, SE = Semi-Erect, U = Upright, H = Horizontal

**Plant Height:** MT = Medium-Tall, M = Medium, T = Tall

**Shank Length:** MDS = Mod. Short, M = Medium, ML = Medium-Long

PLANT HARDINESS

DISEASE RESISTANCE

Drought Tolerance	Early Plant Vigor	Greensnap	Herbicide Sensitivity	Population Tolerance	Root Rating	Stalk Rating	Stay Green	Common Rust	Eye Spot	Goss' Wilt	Gray Leaf Spot	Northern Leaf Blight (1)	Stalk Anthracnose	BRAND
N/A	VG	ML	N/A	E	VG	VG	VG	N/A	N/A	G	G	G	N/A	47Z61
N/A	VG	VG	N/A	VG	VG	VG	VG	N/A	N/A	VG	G	G	N/A	48B74
G	G	G	A	M	VG	VG	G	G	VG	G	F	G	VG	49P67
G	G	ML	N/A	G	VG	VG	G	N/A	N/A	G	G	VG	N/A	50R21
G	VG	G	A	M	VG	VG	G	VG	VG	G	G	AV	E	51P65
G	VG	G	A	LM	VG	G	AV	VG	VG	G	G	G	VG	53B25
G	G	VG	A	M	VG	G	VG	N/A	N/A	AV	AV	G	G	53T58
N/A	VG	ML	N/A	VG	G	VG	G	N/A	N/A	VG	VG	G	N/A	54H57
G	E	G	A	M-MH	VG	G	G	VG	N/A	VG	AV	G	G	54M24
N/A	VG	ML	N/A	VG	G	E	E	N/A	N/A	E	VG	VG	N/A	54T64
VG	E	VG	A	LM	VG	VG	VG	N/A	N/A	E	G	G	VG	55K52
VG	VG	ML	N/A	VG	VG	VG	VG	N/A	N/A	VG	G	VG	N/A	56C03
VG	VG	ML	N/A	VG	VG	VG	G	N/A	N/A	VG	G	VG	N/A	56C63
VG	VG	VG	A	M-MH	VG	VG	AV	N/A	N/A	VG	AV	G	AV	57D23
N/A	VG	VG	N/A	VG	E	VG	VG	N/A	N/A	VG	VG	VG	N/A	57Q66
G	VG	VG	N/A	M-MH	VG	VG	AV	VG	VG	G	G	AV	AV	57Z69
N/A	G	N/A	N/A	M-MH	VG	VG	VG	N/A	G	VG	VG	G	N/A	58U08
N/A	VG	N/A	N/A	M-MH	VG	E	VG	N/A	N/A	F	VG	VG	N/A	58Z53
AV	VG	G	A	M-MH	VG	VG	VG	VG	N/A	AV	AV	VG	G	59A05
AV	VG	G	A	M-MH	VG	VG	VG	VG	N/A	AV	AV	VG	G	59A25
N/A	G	VG	N/A	VG	VG	VG	G	N/A	N/A	G	VG	G	N/A	59D50
G	VG	VG	A	M-MH	VG	G	AV	N/A	N/A	G	G	G	AV	59R27
N/A	VG	ML	N/A	VG	G	VG	VG	N/A	N/A	VG	E	VG	N/A	59W01
N/A	VG	VG	N/A	VG	VG	VG	VG	N/A	N/A	VG	VG	F	N/A	60N61
G	E	E	A	M-MH	E	VG	G	VG	N/A	AV	G	VG	VG	60P59
G	VG	AV	A	M-MH	VG	G	G	N/A	N/A	G	G	VG	G	62A58
AV	VG	G	A	MH-H	G	G	AV	N/A	N/A	G	G	G	G	62B56
VG	G	N/A	N/A	H	VG	VG	F	G	N/A	VG	G	VG	N/A	62W06
VG	G	N/A	N/A	MH	VG	VG	VG	G	N/A	G	VG	VG	N/A	63D58
G	G	G	A	LM	VG	VG	G	VG	VG	VG	G	G	E	63F60
N/A	VG	ML	N/A	VG	VG	VG	VG	N/A	N/A	VG	VG	VG	N/A	63W23
N/A	VG	AV	N/A	M	VG	VG	E	VG	N/A	VG	VG	VG	VG	64C06
VG	VG	N/A	N/A	M	G	VG	G	VG	N/A	VG	VG	VG	N/A	64Z08
N/A	G	M	N/A	G	VG	VG	VG	N/A	N/A	G	VG	G	N/A	65R36
G	VG	VG	A	H	G	VG	VG	VG	VG	VG	G	VG	E	66V66

Corn on Corn: WF = With Fungicide, NR = Not Recommended, R = Recommended

Herbicide Sensitivity: A = Acceptable

Population Tolerance: MH-H = Medium-High - High, M-MH = Medium - Medium-High, MH = Medium-High, H = High, M = Medium, LM = Low-Medium

DGVT2PRIB = DroughtGard® Hybrids with VT Double PRO® RIB Complete® Corn Blend, SSRIB = SmartStax® RIB Complete® Corn Blend,

SSPRORIB = SmartStax® PRO RIB Complete® Corn Blend, VT2PRIB = VT Double PRO® RIB Complete® Corn Blend,

TreceptaRIB = Trecepta® RIB Complete® Corn Blend, PCE = PowerCore® Enlist® Refugue Advanced®

# SOYBEAN BRANDS

ROBUST SEED OPTIONS THAT  
WILL MAXIMIZE YOUR ROI



*Grow Strong*<sup>®</sup>



**2101E** E3 2.1 Relative Maturity



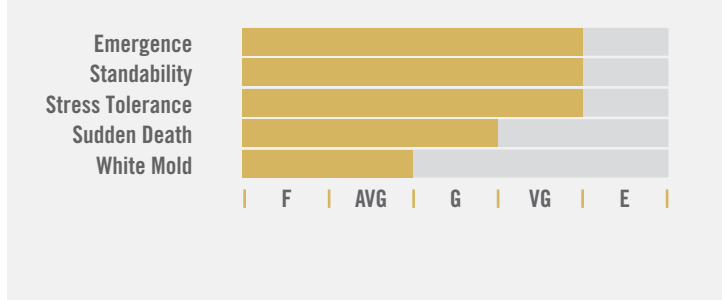
- SCN/Rps 1k/BSR/SWM tolerance
- In zone performance that can move north
- BSR resistant



**2313E** E3 2.3 Relative Maturity



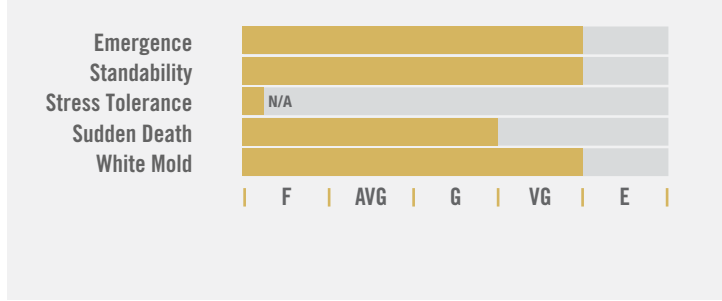
- Good SDS and IDC tolerance
- Very good emergence
- Very good stress tolerance



**2314E** E3 2.3 Relative Maturity



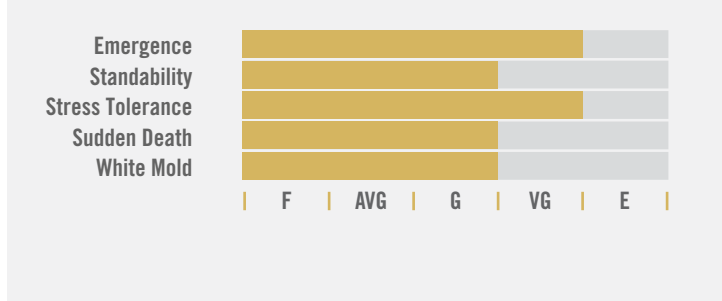
- SCN + Rps 1a3a
- Very good WM and BSR tolerance
- Very good emergence and standability



**2513ES** E3 2.5 Relative Maturity



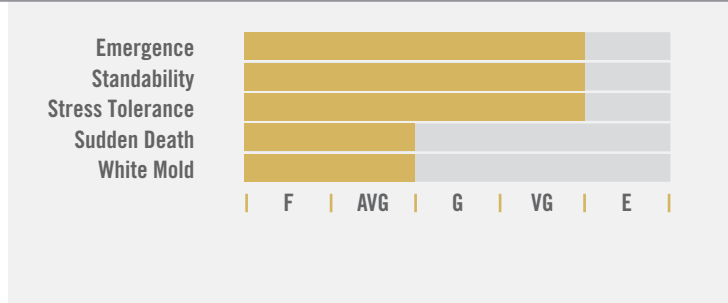
- Unique plant style that brings significant height and good standability
- Very good emergence and stress tolerance
- STS® tolerance



## 2624E E3 2.6 Relative Maturity



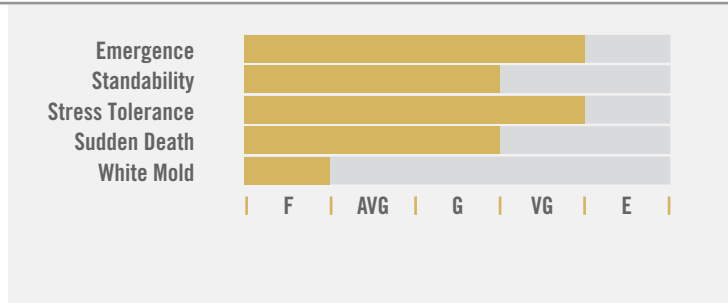
- Brings SCN + BSR + Rps 1k
- Very good standability and emergence
- Good PRR Tolerance



## 2824E E3 2.8 Relative Maturity



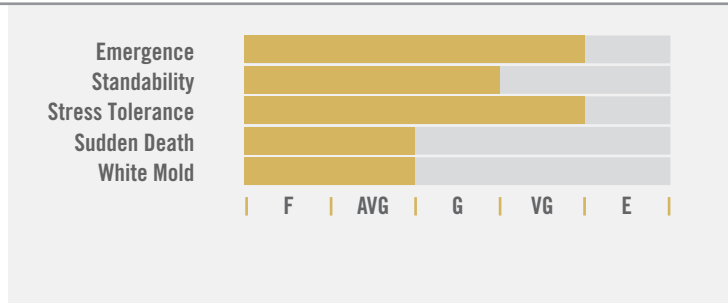
- SCN + BSR + Rps H1k
- Good SDS tolerance
- Good PRR Tolerance



## 2924ES E3 2.9 Relative Maturity



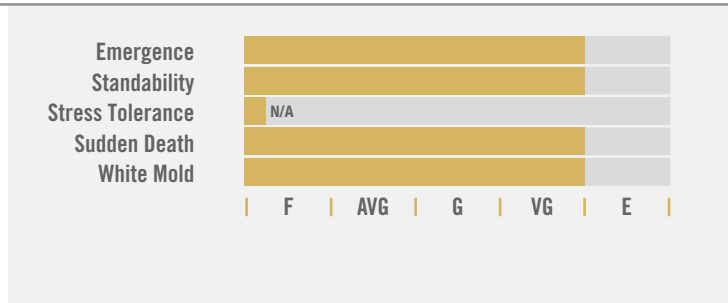
- Sulfonylurea Tolerant
- PRR field tolerance is excellent
- Very good emergence and stress tolerance



## 2934E E3 2.9 Relative Maturity



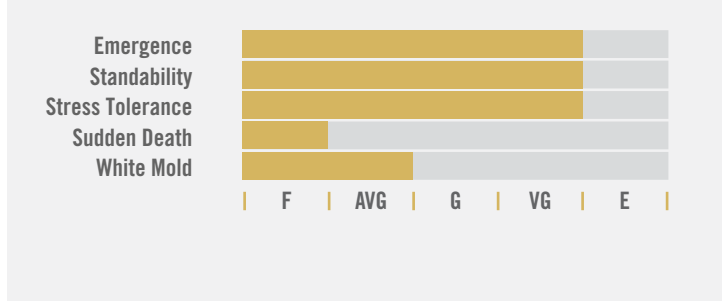
- Excellent standing light tawny with tan pod
- SCN, Rps 1k and good PRR tolerance
- Very good resistance to BSR and Frogeye



**3104ES** E3 3.1 Relative Maturity



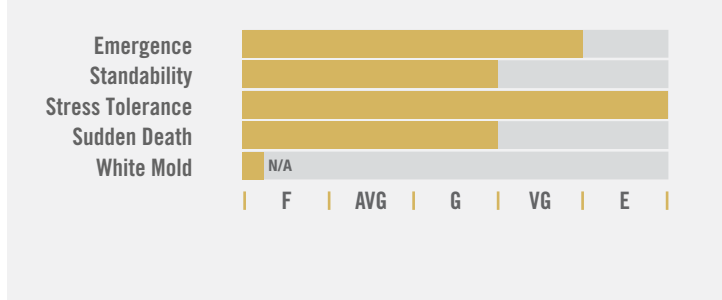
- Sulfonylurea Tolerant
- Field notes call out flawless lodging scores
- Rps 1c plus excellent field tolerance to PRR



**3314E** E3 3.3 Relative Maturity



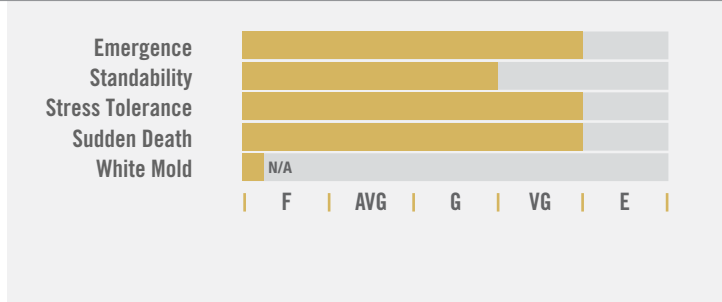
- Excellent lateral branching and very good lodging
- Excellent field tolerance for PRR
- Very good SDS scores and BSR resistant



**3514ES** E3 3.5 Relative Maturity



- Sulfonylurea Tolerant
- Intermediate to wide profile with very good lodging scores
- Nice defensive package



**NOTES**

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## PLANT CHARACTERISTICS

BRAND	TECH	MATURITY	Estimated Seed Size	Flower Color	Hilum	Oil	Plant Type	Pod	Protein	Pubescence	Relative Plant Height
2101E	E3	2.1	N/A	P	IBL	N/A	I	BR	N/A	GR	M+
2313E	E3	2.3	N/A	W	BU	N/A	I	T	N/A	GR	M+
2314E	E3	2.3	3499	P	BL	N/A	IB	T	N/A	LTW	M
2513ES	E3	2.5	N/A	P	BU	N/A	I	BR	N/A	GR	MT
2624E	E3	2.6	N/A	P	IBL	N/A	IB	T	N/A	GR	M+
2824E	E3	2.8	N/A	P	IBL	N/A	I	BR	N/A	GR	M+
2924ES	E3	2.9	N/A	P	IBL	N/A	I	BR	N/A	GR	MT
2934E	E3	2.9	2789	P	BL	N/A	IB	T	N/A	LTW	M
3104ES	E3	3.1	N/A	P	IBL	N/A	THI	BR	N/A	GR	MT
3314E	E3	3.3	N/A	P	IBL	N/A	IB	T	N/A	GR	M+
3514ES	E3	3.5	N/A	P	BU	N/A	IB	BR	N/A	GR	M+

**Rating Scale:** E = Excellent, VG = Very Good, G = Good, AV = Average, F = Fair, R = Resistance, N/A = Not Available

**Flower Color:** P = Purple, W = White

**Hilum:** BL = Black, IBL = Imperfect Black, BU = Buff

**Plant Type:** I = Intermediate, IB = Intermediate-Bush, THI = Thin-Intermediate

**Pod:** T = Tan, BR = Brown

**Pubescence:** LTW = Light Tawny, GR = Gray

**Relative Plant Height:** M = Medium, M+ = Medium+, MT = Medium-Tall

**Brown Stem Rot:** R = Resistant, NG = No Gene

**E3** = Enlist E3® Soybeans

PLANT HARDINESS

DISEASE RESISTANCE

Emergence	Standability	Stress Tolerance	Brown Stem Rot	Iron Chlorosis	Phytophthora Gene	SCN Greenhouse	SCN Marker	Sudden Death Syndrome	White Mold	Frogeye	BRAND
E	G	G	R	AV	Rps 1k	R3, MR14	PI 88.788	G	G	N/A	2101E
VG	VG	VG	NG	G	Rps 1cH3a	N/A	PI 88.788	G	AV	G	2313E
VG	VG	N/A	VG	VG	Rps 1a3a	N/A	PI 88.788	G	VG	VG	2314E
VG	G	VG	NG	AV	Rps 1a	N/A	PI 88.788	G	G	N/A	2513ES
VG	VG	VG	R	F	Rps 1k	N/A	PI 88.788	AV	AV	N/A	2624E
VG	G	VG	R	G	Rps H1k/1a	N/A	PI 88.788	G	F	N/A	2824E
VG	G	VG	NG	F	NG	N/A	PI 88.788	AV	AV	G	2924ES
VG	VG	N/A	VG	VG	Rps 1k	N/A	PI 88.788	VG	VG	VG	2934E
VG	VG	VG	NG	F	Rps 1c	N/A	PI 88.788	F	AV	F	3104ES
VG	G	E	R	AV	NG	N/A	Peking	G	N/A	F	3314E
VG	G	VG	R	AV	NG	N/A	PI 88.788	VG	N/A	F	3514ES



**ENLIST® WEED CONTROL SYSTEM—  
PROVEN CONTROL OF TOUGH WEEDS**

Enlist Duo® and Enlist One® herbicides with Colex-D® technology are the only herbicides containing 2,4-D that are authorized for preemergence and postemergence use on Enlist® crops.

**SOYBEANS** 2,4-D choline | Glyphosate | Glufosinate

**CORN** 2,4-D choline | Glyphosate | Glufosinate | FOP Herbicides



- Convenient proprietary blend of 2,4-D choline and glyphosate
- The two sites of action work together to deliver control of yield-robbing weeds and help prevent resistance



- Straight-goods 2,4-D choline with additional tank-mix flexibility
- Provides additional tank-mix flexibility with Liberty® herbicide and other qualified tank-mix products, allowing for a customized weed control program to fit each farm

**On-Target Application**

- 90% less drift than traditional 2,4-D
- 96% less volatile than 2,4-D ester

We here at Axis Seed Direct focus our energy in 2 key areas. Number one being corn and soybeans—not just how we select the product for the specific region but how we produce it. We set the bar in the seed industry for seed quality. The care for our product doesn't stop there; we shift into our second key area of maximizing genetic potential. To maximize genetic potential, we can do this through numerous ways. Each way we coach, we vet through our testing system. We started our trial system in 2012 with our hybrid selection process and have applied those same standards to our selection process of the foliar feeding programs we offer. Later on in this book, you will find a listing of this past year's testing program results. Just like our hybrid and variety selection models, we only show the results for proven products. We test many products each year and only coach those that bring an ROI to the farm. Our focus is soil health and soil biology focused on maximizing genetic potential.

## NUTRIBOLT REPLICATED TRIALS SOYBEANS

Product	2020 Plot Average				2021 Plot Average				2022 Plot Average				3 Year Plot Average			
	Moisture	TWT	Yield	Advantage	Moisture	TWT	Yield	Advantage	Moisture	TWT	Yield	Advantage	Moisture	TWT	Yield	Advantage
Nutribolt Prebiotic Treated Trial Average	10.30	-	66.85	14.57	12.90	-	80.37	14.89	11.13	-	76.17	-	11.60	0.00	74.46	14.87
Untreated Plot Average	10.40	-	52.28	-	13.75	-	65.48	-	11.30	-	61.01	-	12.08	0.00	59.59	-
3 Year Average Advantage	14.87 Bushel Advantage															

## NUTRIBOLT REPLICATED TRIALS CORN

Product	2020 Plot Average				2021 Plot Average				2022 Plot Average				3 Year Plot Average			
	Moisture	TWT	Yield	Advantage	Moisture	TWT	Yield	Advantage	Moisture	TWT	Yield	Advantage	Moisture	TWT	Yield	Advantage
Nutribolt Prebiotic Treated Trial Average	26.90	-	203.30	13.64	19.20	56.60	238.06	11.13	23.97	54.00	234.25	20.50	23.05	28.30	225.20	15.09
Untreated Plot Average	25.30	-	189.66	-	20.10	56.00	226.93	-	25.03	53.50	213.75	-	22.70	28.00	210.11	-
3 Year Average Advantage	15.09 Bushel Advantage															

## SOYBEAN REPLICATED FOLIAR TRIALS

Product	2020				2021				2022				3 year Average			
	Moisture	TWT	Yield	Advantage	Moisture	TWT	Yield	Advantage	Moisture	TWT	Yield	Advantage	Moisture	TWT	Yield	Advantage
Nutribolt Liquid Calcium	10.50	-	67.50	9.00	13.23	-	68.98	1.63	-	-	-	-	11.87	-	68.24	5.32
Check	10.10	-	58.50	-	13.20	-	67.35	-	12.60	-	64.40	-	11.65	-	62.93	-
Nutribolt Prebiotic	11.30	-	66.85	12.97	13.10	-	67.95	0.60	12.10	-	76.10	-	12.20	-	67.40	6.79
Check	11.10	-	53.88	-	13.20	-	67.35	-	12.60	-	64.40	-	12.15	-	60.62	-
Homestretch Nutritional	10.70	-	58.91	3.32	13.26	-	67.57	0.22	-	-	-	-	11.98	-	63.24	1.77
Check	10.80	-	55.59	-	13.20	-	67.35	-	-	-	-	-	12.00	-	61.47	-
Nutribolt Prebiotic / Revline	-	-	-	-	13.32	-	70.34	2.99	-	-	-	-	13.32	-	70.34	2.99
Check	-	-	-	-	13.20	-	67.35	-	-	-	-	-	13.20	-	67.35	-
NKB / Revline Early Season	-	-	-	-	-	-	-	-	13.30	-	68.30	-	13.30	-	68.30	3.90
Check	-	-	-	-	13.20	-	67.35	-	12.60	-	64.40	-	12.90	-	65.88	-
NKB / Revline Late Season	-	-	-	-	-	-	-	-	12.90	-	65.30	-	12.90	-	65.30	0.90
Homestretch / NKB	-	-	-	-	-	-	-	-	13.20	-	64.50	-	13.20	-	64.50	0.10
Revline Early Season / Nutribolt	-	-	-	-	13.20	-	70.35	-	-	-	-	-	13.20	-	70.35	3.00

## CORN REPLICATED FOLIAR TRIALS

Product	2020				2021				2022				3 year Average			
	Moisture	TWT	Yield	Advantage	Moisture	TWT	Yield	Advantage	Moisture	TWT	Yield	Advantage	Moisture	TWT	Yield	Advantage
Nutribolt Liquid Calcium	26.20	54.60	193.30	12.50	20.47	56.27	253.40	8.30	29.10	53.10	243.20	22.40	23.34	-	229.97	14.40
Nutribolt Prebiotic / Nutribolt Liquid Calcium	26.40	54.80	210.90	30.10	19.80	55.20	255.75	10.65	-	-	-	-	23.10	-	233.33	17.76
Check	25.30	55.50	180.80	-	20.21	56.60	245.10	-	28.30	53.00	220.80	-	22.76	-	215.57	-
NKB / Revline Early Season	-	-	-	-	-	-	-	-	28.20	53.50	232.70	11.90	28.20	-	232.70	11.90
Sulfur 17 2 Quarts	-	-	-	-	20.37	56.60	248.13	3.03	30.80	52.10	245.10	24.30	10.19	-	246.62	13.67
1 Pint Homestretch 1 Quart of NKB	-	-	-	-	-	-	-	-	29.40	52.00	244.10	23.30	29.40	-	244.10	23.30
Nutribolt	-	-	-	-	21.40	56.70	260.90	15.80	29.10	53.10	243.20	22.40	21.40	-	252.05	19.10

**AXIS SEED**

**NUTRIBOLT®**

# NATURALLY BOOST YOUR SOIL-PLANT PRODUCTIVITY

*Apply directly to soil or plants to increase your yield potential*

**NutriBolt** is a prebiotic formula that is completely natural, safe, and effective, helping boost healthy microbial activity up to 5,000 percent.

BOOSTS MICROBIAL  
ACTIVITY UP TO

**5K%**



## WHY USE NUTRIBOLT?

- ▶ Increases microbial diversity, reducing pathogen imbalances
- ▶ Improves the availability of existing soil minerals and fertilizers
- ▶ Creates a surge in early and sustained root development, and increases seed germination and emergence
- ▶ Optimizes water regulation and utilization efficiency
- ▶ Improves plant growth, vigor, and health, while strengthening roots and stalks
- ▶ Offsets negative effects of glyphosate
- ▶ Increases crop quality and yield, helping maximize your return on investment

Your crops and the microorganisms in your soil exist in a symbiotic relationship—they rely on each other to exchange nutrients and be healthy. The easier it is for them to access and share nutrients, the more able they are to produce high yields.

## GENERAL APPLICATION PRACTICES:

- ▶ Use standard ground or aerial equipment for multi-stage application in furrow, on top of soil, and directly to plants
- ▶ Can be mixed with most herbicides, pesticides, fungicides, and liquid fertilizers
- ▶ Apply at rate of 1–2 pints per acre per application
- ▶ Spray when crop is in active growing stage, after irrigation or natural rainfall
- ▶ If midday temperatures exceed 85° F, apply in early morning or late afternoon

*Naturally enhance your soil-plant productivity and ROI.*

▶ **Contact your local Sales Agent today.**

[AXISSeedDirect.com](http://AXISSeedDirect.com)

*Grow Strong™*

AXIS SEED

**NUTRIBOLT**<sup>®</sup>  
LIQUID CALCIUM

# NATURALLY BOOST YOUR pH BALANCE

*Apply directly to soil or crops to improve your growing environment*



## WHY USE NUTRIBOLT LIQUID CALCIUM?

- It's a simple source of chelated calcium with a guaranteed analysis of 10% calcium
- It's 100% water soluble and does not require a biological breakdown period, making its benefits immediately available to your soil and crops
- Application is simple and can be performed using standard equipment
- Its stabilizing effect on liquid nitrogen can help cut costs

A low pH balance often calls for more lime—but did you know that's a slow, ineffective fix? Instantly improve your pH ratings and nutrient availability with **NutriBolt Liquid Calcium**. Calcium is an essential and beneficial plant nutrient that's easily applied and increases return on investment.

## GENERAL APPLICATION PRACTICES:

- *Can be applied with conventional ground or aerial equipment or properly equipped irrigation systems*
- *Can be tank-mixed with most soil-applied herbicides and liquid fertilizers that do not contain phosphorus, and does not require extra field passes*
- *Soil applications: 2–5 gallons per acre*
- *Foliar applications: 1–3 gallons per acre*
- *Liquid nitrogen solution applications: 2–5 gallons per acre*
- *Do not mix with materials containing phosphates, sulfates, or glyphosate bases (i.e. RoundUp<sup>®</sup>-type herbicides)*
- *Always perform a jar-test mix to ensure compatibility*

*Naturally enhance your growing environment and ROI.*

➤ **Contact your local Sales Agent today.**



AXIS SEED

**NUTRIBOLT**<sup>®</sup>  
SEED TREATMENT

# NATURALLY JUMP-START YOUR SEEDLING VIGOR

*Apply to seeds for the strongest start possible*



## WHY USE NUTRIBOLT SEED TREATMENT?

- Improves germination, root structure, emergence, seedling vigor, and developing plant structure
- Permeates soil to improve fertilizer efficiency and nutrient uptake
- Supports naturally occurring protective elements around the seed and root system
- Delivers consistent yield performance, improved test weights, and enhanced crop quality, especially in stressful growing conditions
- Is compatible with most seed-applied, broad-spectrum insect- and disease-protection products

Germination and emergence are some of the most stressful and critical phases in the life cycle of a plant. **NutriBolt Seed Treatment** provides your crops the natural resources needed to jump-start their growth and maximize your return on investment.

---

### GENERAL APPLICATION PRACTICES:

- *Applied to seed by authorized downstream treater*
- *Hybrid seed corn: 6–8 ounces per 100 pounds*
- *Soybean varieties: 4–6 ounces per 100 pounds*
- *Other crops: Please discuss with your Axis Seed representative*

---

**Naturally boost your seedling vigor and ROI.**

- **Contact your local Sales Agent today.**

# BASE SEED TREATMENT BLENDS



## AXIS REVOLVE™ SEED PROTECTION SYSTEM

*Protect your seeds and increase your yields with Axis Revolve™ and Revolve PLUS™. These state-of-the-art soybean seed treatments are tested and selected by area and genetics. Each provides seed-specific protection of your investment — and your bottom line.*

- Faster speed to canopy.
- Better stress tolerance.
- Increased nutrient uptake.
- Better emergence.
- Improved vigor.
- Higher yield potential.

### Axis Revolve™

*Advanced protection against early season diseases and tough growing conditions:*

- A custom blend of four fungicides for superior broad-spectrum control.
- Now with Ethaboxam! A newly developed fungicide for superior protection.
- Applied at rates 35–115% higher than leading competitors.
- Provides excellent control of Fusarium, Rhizoctonia, Pythium and Phytophthora.
- Enhanced with a proven polymer to keep your investment on the seed where it belongs.
- Features trouble-free seed flow and great product appearance.

### Revolve PLUS™

*All the proven ingredients and benefits of our Axis Revolve treatment, plus:*

- Insecticide applied at a 50% higher rate than the industry standard.
- Broad-spectrum, systemic insect protection from planting through the early growing season.

#### SAVINGS AVAILABLE ON REVOLVE PLUS

50–150 units.....	\$0.75 savings per unit
151–250 units.....	\$1.50 savings per unit
251–500 units.....	\$2.25 savings per unit
500+ units.....	\$3.00 savings per unit



Axis Seed Direct

**BRAHMSTEDT SEED TREATMENT**  
Aaron Brahmstedt  
Garden Prairie, IL | 815.703.1658  
[abrahmstedt@axisseeddirect.com](mailto:abrahmstedt@axisseeddirect.com)

# ADDITIONAL SEED TREATMENT PACKAGES

## A NEW LINE OF DEFENSE

### Against sudden death syndrome and white mold

*Heads Up® is a cost effective seed treatment solution that gives you a full season advantage over the most devastating diseases.*

- Applying Heads Up® Plant Protectant to high quality seed helps prime those varieties to fight harder against soil borne pathogens all season long.



## A SDS PROTECTION. UPGRADED.

*Don't risk losing your soybean crop to the yield-robbing devastation of Sudden Death Syndrome (SDS). With more power to fight SDS and robust nematocidal activity, Saltro® fungicide seed treatment delivers superior SDS protection without early-season plant stress.*

- Robust activity against soybean cyst, root knot, reniform, lesion, and lance nematodes.
- Superior protection from SDS without signs of visible plant stress, including phytotoxicity, stunting, reduced plant stands, susceptibility to pests or weather, and reduced plant growth above and below ground.



FOR CORN  
AND SOYBEAN  
APPLICATIONS

## NATURALLY JUMP-START YOUR SEEDLING VIGOR

### Apply to seeds for the strongest start possible

- Improves germination, root structure, emergence, seedling vigor, and developing plant structure.
- Permeates soil to improve fertilizer efficiency and nutrient uptake.
- Supports naturally occurring protective elements around the seed and root system.
- Delivers consistent yield performance, improved test weights, and enhanced crop quality, especially in stressful growing conditions.
- Is compatible with most seed-applied, broad-spectrum insect- and disease-protection products.



## GIVE YOUR SOYBEAN SEED A NUTRITIONAL BOOST

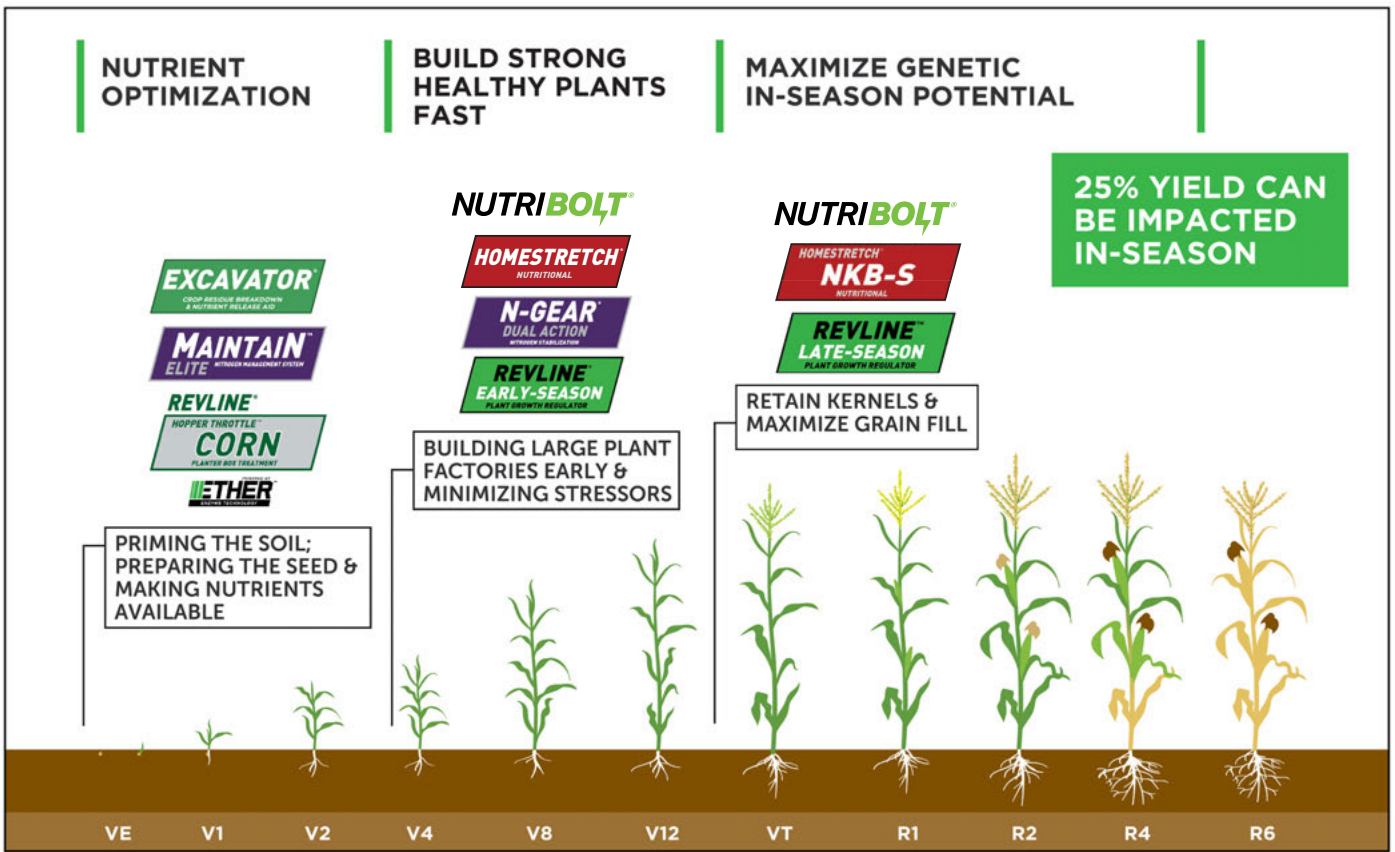
- These Rhizobia bacteria use the plant to draw nitrogen from the air, convert it, then store the nitrogen in the plant's roots.
- As a result, nitrogen-packed nodules form, turning your soybean plants into nutrient-rich powerhouses.
- Viable on your seed for 120 days after application.

### Always Inoculate When You.....

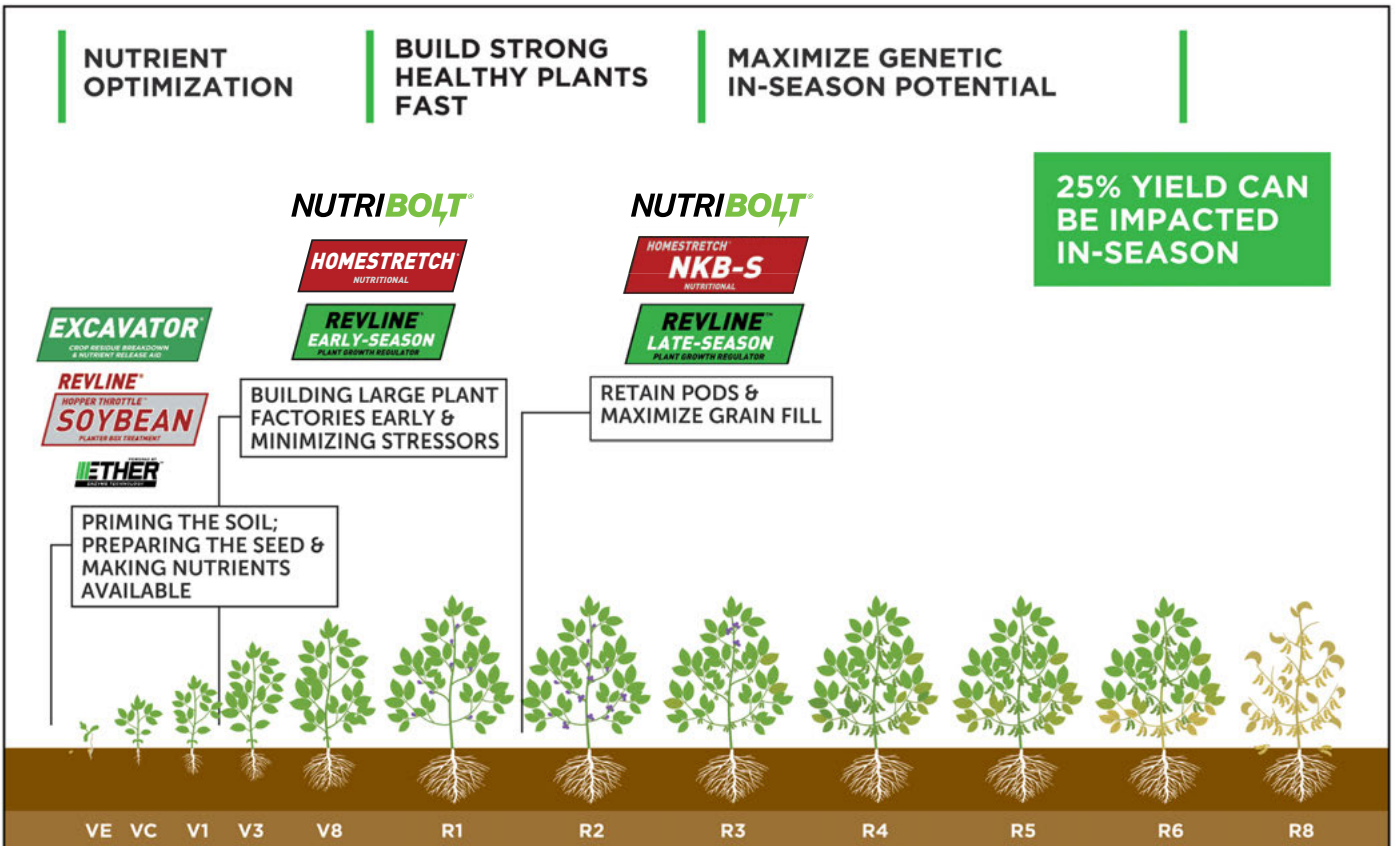
- Plant on sandy soils.
- Plant on CRP ground.
- Plant on fields without soybeans in 2-3 years.
- Have flooded soils.
- Plant after droughts.
- Have high or low soil pH levels.
- You want to boost yields.



# HIGH-YIELD CORN PROGRAM



# HIGH-YIELD SOYBEAN PROGRAM



## KEY PRODUCTS AND TIMING

# N-GEAR<sup>®</sup>

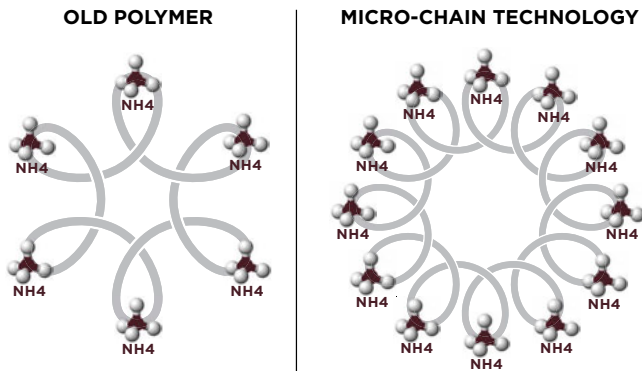
## DUAL ACTION

NITROGEN STABILIZATION

PREMIUM ABOVE AND BELOW  
GROUND, BIO-FRIENDLY NITROGEN  
MANAGEMENT SYSTEM

N-GEAR<sup>®</sup> DUAL ACTION gives you flexibility of both above and below ground nitrogen protection. N-GEAR DUAL ACTION is specifically formulated for use in urea and UAN scenarios.

**Micro-Chain Technology** captures and maintains more nitrogen in the upper root zone, increasing nitrogen uptake and utilization. The NH<sub>4</sub> molecules are more densely packed, leading to more binding sites to limit nitrogen loss.



### PRODUCT BENEFITS

- **Dual-action protection**
  - Up to three weeks of above-ground protection from volatilization
  - Reduces nitrogen loss below ground due to leaching
- **Increases nitrogen efficiency, availability and uptake**
- **Formulated to help build soil biological activity**
- **Non-toxic with no detrimental effects on soil bacteria and non-corrosive to equipment**
- **Specifically formulated for urea and UAN, and can be used with multiple fertilizer sources**

### ACTIVE INGREDIENTS

NBPT (N-(n-butyl)-thiophosphoric triamide)  
Solution (CAS No. 94317-64-3) .....20.0%

### Inactive Ingredients

Propylene Glycol, 1-methyl-2-pyrrolidone and  
Copolymer Surfactant .....80.0%  
TOTAL.....100.0%

### DIRECTIONS FOR USE

#### UREA BLENDING:

May be used to treat urea prior to application in the field, including pre-treatment. Under certain temperature and humidity conditions, urea blended with N-GEAR DUAL ACTION may stick together. Application of urea to the field is recommended soon after treatment for best results.

#### UAN SOLUTIONS:

May be mixed with liquid fertilizers such as aqua ammonia or other liquid ammoniacal or urea nitrogen fertilizers. Liquid fertilizers containing high levels of phosphate should not be used with N-GEAR DUAL ACTION. If pesticides are added to the tank mix in conjunction with liquid fertilizers, a compatibility jar test should be performed prior to large scale application to the field.

#### LIQUID MANURE:

May be mixed with liquid animal manures. N-GEAR DUAL ACTION may be applied to slurry pit or through an injection system as material is loaded into applicator.

### RECOMMENDED USE RATES

**Urea (46-0-0):** 2-3 quarts per ton of urea

**UAN Solutions (28-32%):** 1.5 quarts per ton of total solution

**Liquid Manure:** 13.5-18 oz per acre

### PRODUCT AVAILABILITY

Available in 2x2.5 gallon jugs (36 cases per pallet), 250-gallon totes or bulk.

**Density:** 8.9 lb/gal

**Specific Gravity:** 1.01 at 68°F (20°C)

**Storage:** Store above 32°F (0°C). Do not allow product to freeze.

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CROP PERFORMANCE

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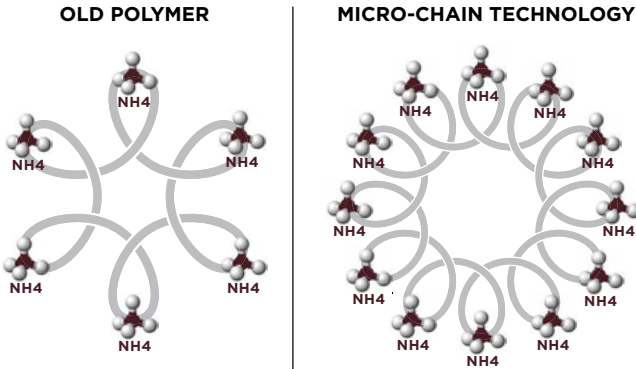


# MAINTAIN™ ELITE NITROGEN MANAGEMENT SYSTEM

**EXTEND NITROGEN AVAILABILITY  
AND UPTAKE AND REDUCE  
NITROGEN LOSS DUE TO LEACHING**

Farmers that drive for consistent profits know that season-long availability of nitrogen is critical to maximizing corn yields. MAINTAIN™ ELITE utilizes an improved formulation to extend nitrogen availability and uptake and reduce nitrogen loss. MAINTAIN ELITE provides more calcium and enhanced polymer technology. It is intended for use as an additive to anhydrous ammonia and liquid fertilizer applied below ground.

**Micro-Chain Technology** captures and maintains more nitrogen in the upper root zone, increasing nitrogen uptake and utilization. The NH<sub>4</sub> molecules are more densely packed, leading to more binding sites to limit nitrogen loss.



## PRODUCT BENEFITS

- Does not kill biologicals or beneficial bacteria
- Reduces leaching of nitrogen to groundwater
- Does not corrode equipment
- Manages nitrogen during key growth stages
- No planting restrictions

## ACTIVE INGREDIENTS

Calcium .....	10.0%
Poloxethylene Glycol, Co-Polymer.....	28.0%
Other Proprietary Ingredients.....	62.0%
TOTAL.....	100.0%

## ALSO CONTAINS NON-PLANT FOOD INGREDIENTS

Carboxylic and Organic Acids

## DIRECTIONS FOR USE

### ANHYDROUS AMMONIA:

Operator must follow all anhydrous safety precautions. Inject MAINTAIN ELITE through liquid ll valve. If pressure exceeds 150 psi, inject MAINTAIN ELITE through liquid withdraw valve. Proper maintenance is required. Flush valve thoroughly with anhydrous. Coat ll valve thoroughly with a petroleum or silicone based lubricant. Apply treated anhydrous using conventional anhydrous application equipment.

### LIQUID FERTILIZER:

Liquid fertilizers containing high levels of phosphate should not be used with MAINTAIN ELITE. If pesticides are added to tank mix in conjunction with liquid fertilizers, a compatibility jar test should be performed prior to large scale application to field.

## RECOMMENDED USE RATES

**Anhydrous Ammonia:** Use 6 oz. of per 50 units of Nitrogen, up to a maximum use rate of 24 oz. per acre.

**UAN Solutions (28-32%):** 2 quarts per ton of total solution

**Liquid Manure:** 24-32 oz per acre

## PRODUCT AVAILABILITY

Available in 2x2.5 gallon jugs (36 cases per pallet), 250-gallon totes or bulk.

**Density:** 12.0 lb/gal

**Specific Gravity:** 1.44 at 68°F (20°C)

**Storage:** Store above 32°F (0°C). Do not allow product to freeze.

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# EXCAVATOR®

CROP RESIDUE BREAKDOWN  
& NUTRIENT RELEASE AID

POWERED BY **MICROBILIZE™**  
MICROBE TECHNOLOGY DELIVERY SYSTEM

EXCAVATOR® is specifically designed to break down crop residue in the field, improving planter performance, creating stronger stands and releasing valuable nutrients to feed the crop.

The patent-pending formulation of EXCAVATOR is powered by the MICROBILIZE™ Microbe Technology Delivery System. This system provides the ideal carrier to ensure that microbes stay alive in the jug and have the optimum conditions to begin multiplying and breaking down residue.

The consortium of microbes included in EXCAVATOR are specifically designed to digest crop residue and cycle nutrients back to the soil profile. Additionally, these microbes build improved soil tilth, reduce disease pressure and generate overall increased biological activity.

**GUARANTEED ANALYSIS:**

Alkyl Polyglucoside (surfactant).....	35%
Organic acids (pH buffer).....	5%
Rheology and dispersant agents.....	5%
Fulvic Acid.....	1%
	CFUs/gallons*
Bacillus coagulans .....	5.67 x 10 <sup>10</sup>
Bacillus amyloliquefaciens .....	6.38 x 10 <sup>10</sup>
Bacillus licheniformis .....	2.17 x 10 <sup>11</sup>
Bacillus megaterium .....	6.38 x 10 <sup>10</sup>
Bacillus pumilis .....	1.66 x 10 <sup>11</sup>
Phanerochaete chrysosporium .....	3.57 x 10 <sup>7</sup>
Trichoderma harizianum .....	1.53 x 10 <sup>7</sup>
<b>Total CFUs .....</b>	<b>5.67 x 10<sup>11</sup></b>

In the liquid form, contains 567 billion total colony forming units (CFU) of the above soil health microbes.

**3:1 RETURN ON INVESTMENT**

Through multi-location/multi-state research trials, EXCAVATOR has proven to deliver a 3:1 return on investment through one or a combination of the following benefits.

- 

Breaking down residue faster will allow faster planting, stronger stands and fewer skips **\$25/ac**
- 

More nutrients available early **\$39/ac**
- 

Less tillage required **\$18/ac**
- 

Improve soil health **12%+**  
in soil health index

**DIRECTIONS FOR USE**

Apply EXCAVATOR to any crop residue.

**FALL APPLICATIONS**

Apply immediately after harvest for best performance.

**SPRING APPLICATIONS**

Apply with early herbicide application or in the termination of cover crops.

**SUMMER APPLICATIONS**

Ideal for breaking down wheat stubble. Specific timing for optimal use varies based on tillage practices, fertility levels and other factors. Contact your agronomist for specific recommendations.

*Works well with irrigation systems and drone applications.*

**RECOMMENDED USE RATE**

Apply 12.8 oz per acre with a minimum 10 gal of water. Highly compatible tank mix partner with most herbicide and fertility programs.

**PRODUCT AVAILABILITY**

Available in 2x2.5 gallon jugs (36 cases per pallet), 250-gallon totes or bulk.

**Density:** 9.42 lb/gal  
**Specific Gravity:** 1.13 @ 68°F (20°C)  
**Min. Storage Temp:** 15° F

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**REVLINE®**

**HOPPER THROTTLE™**

**CORN**

**PLANTER BOX TREATMENT**



**NUTRIENT & MICROBIAL  
PLANTER BOX  
DELIVERY SYSTEM**

REVLINE® HOPPER THROTTLE™ CORN (RHTC) is a best-in-class 80/20 talc/graphite combination that ensures optimum performance in today's high-speed planters. It can take the place of any seed fluency agent.

The base includes 1.35 pounds of IONLOCK™ Zinc plus Iron and Manganese. These micronutrients are essential for fast emergence and strong, healthy plants.

RHTC is powered by BIO-CAPSULE TECHNOLOGY™ - a patented delivery system that helps farmers save time, labor and fuel. The BIO-CAPSULE carrier system allows for the addition of multiple biological solutions safely packaged for convenient deployment at planting.

ETHER™ Enzyme Technology is designed to kick start the uptake of available soil nutrients and water, while maximizing microbial activity.

**PRODUCT BENEFITS**

- **Most convenient method to deliver a high-volume load of zinc to the furrow**
- **Generates massive root structure**
- **Increases early-season iron, manganese and zinc uptake**
- **Puts corn plants in the position to manage season-long stressors and optimize genetic potential**

**6.25 oz Terrasym®**  
Proven, Industry-Leading Bio Stimulant PPFM strains that generate massive root structures.

**Industry-Leading Bio-Fertility & N-Fixing Microbes**  
Azotobacter chroococcum  
Azotobacter vinelandii  
Bacillus amyloliquefaciens  
Bacillus licheniformis  
Bacillus megaterium  
Bacillus pumilus  
Bacillus subtilis  
Trichoderma harzianum  
**CFU count 46 billion**

**NEW: ETHER™ Enzyme Technology: 1 g/ac**  
This Lipase & Mannanase enzyme combo fosters microbial activity for long-term benefits

**80/20 Talc/Graphite + Mn & Fe**

**NEW: 1.35 lbs IONLOCK™ Zinc**

**BASE INGREDIENTS:**

*80/20 TALC, GRAPHITE AND MICRONUTRIENT BLEND*

**GUARANTEED ANALYSIS**

Iron (Fe).....	0.70%
Manganese (Mn) .....	0.90%

*Derived from Ferrous Oxide and Manganese Oxide.*

**BASE INGREDIENTS CONTAIN 27% IONLOCK™ ZINC**

IONLOCK ZINC is designed to increase singulation performance, adhere microbes to seed coats, and provide valuable early emergence nutrition.

**BIO-CAPSULE INGREDIENTS:**

**ALSO CONTAINS NON-PLANT FOOD INGREDIENTS:**

Azotobacter Chroocuccum.....	5.0x10 <sup>7</sup> CFU/g
Azotobacter Vinelandii.....	5.0x10 <sup>7</sup> CFU/g
Bacillus Amyloliquefaciens.....	6.8x10 <sup>8</sup> CFU/g
Bacillus Licheniformis.....	1.4x10 <sup>9</sup> CFU/g
Bacillus Megaterium.....	6.8x10 <sup>8</sup> CFU/g
Bacillus Pumilus.....	1.1x10 <sup>9</sup> CFU/g
Bacillus Subtilis.....	6.8x10 <sup>8</sup> CFU/g
Trichoderma Harzianum.....	4.5x10 <sup>9</sup> CFU/g
Mannanase.....	2.5 x 10 <sup>9</sup> μUnits/g
Lipase.....	5.0 x 10 <sup>4</sup> μUnits/g
Methylobacterium gregans.....	1x10 <sup>9</sup> CFU/g

**DIRECTIONS FOR USE & RECOMMENDED USE RATE**

Once ready to plant, remove the safety clips from the BIO-CAPSULES. Push down on the buttons atop the pail to release the biologicals into the base. Seal the pail and shake aggressively to blend the contents. The combined products treat 50 units of corn at 80k seeds per unit.

Before each application, aggressively shake contents to ensure the correct volume is applied.

**For a single row unit planters**, use the enclosed scoop to measure out blended contents. One scoop treats 1 unit (80K seeds) corn.

**DO NOT ACTIVATE BIO-CAPSULE UNTIL READY TO USE.**

**PRODUCT AVAILABILITY**

Sold in 2-pail cases to treat 100 units of corn. Each pail is capable of treating 50 units of corn

NET WEIGHT (per pail): 6.05 lbs (2.74 kg)

\*Data available for additional information

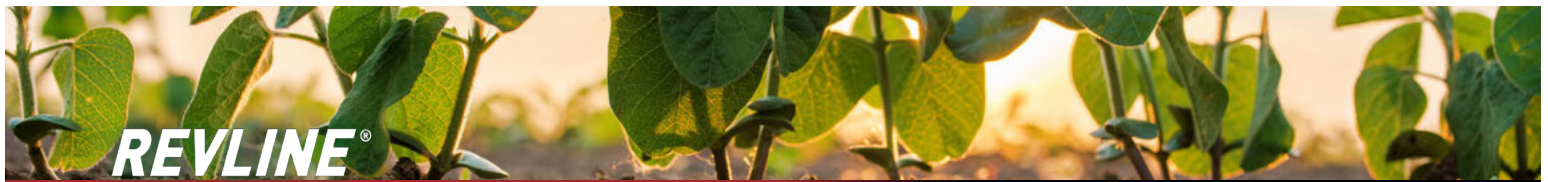
Actual product packaging may be different than this visual

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**REVLINE®**

**HOPPER THROTTLE™**  
**SOYBEAN**  
 PLANTER BOX TREATMENT

POWERED BY  
**BIO-CAPSULE TECHNOLOGY™**  
PLANTER BOX INNOVATION DELIVERY SYSTEM

POWERED BY  
**ETHER™**  
ENZYME TECHNOLOGY

**NUTRIENT & MICROBIAL  
 PLANTER BOX  
 DELIVERY SYSTEM**

REVLINE® HOPPER THROTTLE™ SOYBEAN (RHTS) is a best-in-class 80/20 talc/graphite combination that ensures optimum performance in today's high-speed planters. It can take the place of any seed fluency agent.

The base product includes Iron and Manganese—now with the added benefit of 0.43 pounds of IONLOCK™ Zinc. These micronutrients are essential for fast emergence and strong, healthy plants.

RHTS is powered by BIO-CAPSULE TECHNOLOGY™ - a patented delivery system that helps farmers save time, labor and fuel. The BIO-CAPSULE carrier system allows for the addition of multiple biological solutions safely packaged for convenient deployment at planting.

New is a mineralization microbial package to improve nutrient availability and multiple forms of Nitrogen fixing microbes to feed genetic potential in today's high-yielding soybeans.

ETHER™ Enzyme Technology is designed to kick start the uptake of available soil nutrients and water, while maximizing microbial activity

**PRODUCT BENEFITS**

- **Drives early-season taproot nodulation and N-fixation**
- **Builds stronger, healthier plants fast & massive roots**
- **Puts soybeans in the position to manage season-long stressors and optimize genetic potential**
- **Herbicide tolerant bradyrhizobia strain (patent # 8772576)**

**BASE INGREDIENTS:**

*80/20 TALC, GRAPHITE AND MICRONUTRIENT BLEND*

**GUARANTEED ANALYSIS**

Iron (Fe).....	0.70%
Manganese (Mn) .....	0.90%
Zinc (Zn).....	1.58%
Derived from Ferrous Oxide, Manganese Oxide, and Zinc Sulfate.	

**BASE INGREDIENTS CONTAIN 10.8% IONLOCK™ ZINC**

IONLOCK ZINC is designed to increase singulation performance, adhere microbes to seed coats, and provide valuable early emergence nutrition.

**BIO-CAPSULE INGREDIENTS:**

**ALSO CONTAINS NON-PLANT FOOD INGREDIENTS:**

Bradyrhizobium japonicum.....	2.0x10 <sup>5</sup> CFU/g
Azospirillum Brasilense.....	5.0x10 <sup>7</sup> CFU/g
Azospirillum Lipoferum.....	5.0x10 <sup>7</sup> CFU/g
Azotobacter Chroocuccum.....	5.0x10 <sup>7</sup> CFU/g
Azotobacter Vinelandii.....	5.0x10 <sup>7</sup> CFU/g
Thibacillus Ferrooxidans.....	5.0x10 <sup>7</sup> CFU/g
Paenbacillus Azotofixans.....	5.0x10 <sup>7</sup> CFU/g
Bacillus Amyloliquefaciens.....	5.3x10 <sup>8</sup> CFU/g
Bacillus Licheniformis.....	1.1x10 <sup>9</sup> CFU/g
Bacillus Megaterium.....	5.3x10 <sup>8</sup> CFU/g
Bacillus Pumilus.....	8.8x10 <sup>8</sup> CFU/g
Bacillus Subtilis.....	5.3x10 <sup>8</sup> CFU/g
Trichoderma Harzianum.....	3.5x10 <sup>5</sup> CFU/g
Mannanase.....	2.5 x 10 <sup>9</sup> µUnits/g
Lipase.....	5.0 x 10 <sup>4</sup> µUnits/g
Methylobacterium hispanicum.....	1x10 <sup>9</sup> CFU/g

**DIRECTIONS FOR USE & RECOMMENDED USE RATE**

Once ready to plant, remove the safety clips from the BIO-CAPSULES. Push down on the buttons atop the pail to release the biologicals into the base. Seal the pail and shake aggressively to blend the contents. The combined products treat 40 units of soybeans at 140k seeds per unit.

Before each application, aggressively shake contents to ensure the correct volume is applied.

**For a single row unit planters:** use the enclosed scoop to measure out blended contents. One scoop treats 1 unit (140k seeds) soybeans.

**DO NOT ACTIVATE BIO-CAPSULE UNTIL READY TO USE.**

**PRODUCT AVAILABILITY**

Sold in 2-pail cases to treat 80 units of soybeans. Each pail is capable of treating 40 units of soybeans.

NET WEIGHT (per pail): 5.52 lbs (2.50 kg)

\*Data available for additional information

**Industry-Leading RACEREADY™ Bradyrhizobia Inoculant**  
 Proprietary Triple-Stack accelerates early-season nodulation for maximum nutrient uptake.

**5 oz Terrasym®**  
 Proven, Industry-Leading Bio Stimulant PPFM strains that generate massive root structures.

**NEW: ETHER™ Enzyme Technology: 1 g/ac**  
 This Lipase & Mannanase enzyme combo fosters microbial activity for long-term crop benefits

**NEW: Industry-Leading Bio-Fertility & N-Fixing Microbes**  
 Azospirillum brasilense  
 Azospirillum lipoferum  
 Azotobacter chroocuccum  
 Azotobacter vinelandii  
 Thibacillus Ferrooxidans  
 Paenbacillus Azotofixans  
 Bacillus amytoliquefaciens  
 Bacillus licheniformis  
 Bacillus megaterium  
 Bacillus pumilus  
 Bacillus subtilis  
 Trichoderma harzianum  
**CFU count 38 billion**

**80/20 Talc/Graphite + Mn & Fe**

**NEW: 0.43 lbs IONLOCK™ Zinc**

Actual product packaging may be different than this visual

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PUT YOUR CROP ON THE FAST TRACK TO HIGHER YIELDS



**Enzyme with Water Soluble Fertilizer**

UPSHIFT® C powered by ETHER™ Enzyme Technology combines two enzymes specifically identified to increase phosphate availability, increase nutrient and water availability and boost plant growth, while maximizing microbial activity.

This product is designed for dissolving in water and applying through fertilizing equipment into actively growing root zones, or injected near the seed during planting. It has a low salt index, so it is ideal for use as a starter or sidedress fertilizer applied directly to the soil.

**ETHER Enzyme Technology** is designed to kick start the uptake of available soil nutrients and water, while maximizing microbial activity.

**AGRONOMIC BENEFITS**

**Phosphatase:** Phosphatase enzymes release phosphate from organic phosphate sources in the soil, which increases nutrient availability and uptake.

**Mannanase:** Mannanase enzymes break down starches that surround the outermost layer of the root tip. This chemical reaction increases the flow of water and nutrients to the root zone and sugars in the plant. This in turn boosts root growth and increases microbial activity.

**PRODUCT BENEFITS**

- Supports germination and early vigor
- Aids in microbial activity
- Boosts root growth
- Increases nutrient availability and uptake
- Dramatically decrease starter fertilizer costs

**GUARANTEED ANALYSIS 12-58-0**

Total Nitrogen .....	12.0%
12.0% Ammoniacal nitrogen	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) .....	58.0%
<i>Derived from monoammonium phosphate.</i>	
<b>ALSO CONTAINS NON-PLANT FOOD INGREDIENTS</b>	
Phosphatase.....	5.0 x 10 <sup>2</sup> µUnits/g
Mannanase .....	2.2 x 10 <sup>6</sup> µUnits/g

**DIRECTIONS FOR USE**

UPSHIFT C is recommended for multiple crops.

**Replacement for 10-34-0 starter fertilizer:** For every 1 gallon of 10-34-0 fertilizers, replace with 0.5 lbs of UPSHIFT C dissolved into 1 gallon of water.

A maximum of 1 lb UPSHIFT C can be dissolved per gallon. However, longer mix times are required and this is only recommended for users that have heated water and strong agitation.

**RECOMMENDED USE RATE**

**Starter or side-dress fertilizer:** Use 1-15 lb/acre at plant dissolved in water

*May be run through irrigation systems.*

**PRODUCT AVAILABILITY**

- 50 lb bag, 80 bags per pallet
- 2,000 lb super sack

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# **REVLINE®** **EARLY-SEASON** **PLANT GROWTH REGULATOR**

## **EARLY-SEASON PGR FOR RAPID PLANT DEVELOPMENT**

REVLINE® EARLY-SEASON provides two essential growth-promoting plant hormones for optimal crop development and yield. These two EPA-registered plant growth regulators (PGRs) are found in nature and stimulate seeding and plant growth, improving root development.

REVLINE EARLY-SEASON contains indole-butyric acid for fast, vigorous root growth and cytokinin for optimal vegetative and reproductive development.

### **BENEFITS**

- **Boosts root growth and plant vigor**
- **Improves plant health and physiology**
- **Increases yield potential and grain quality**
- **Contains vitamins that aid transplanting and plant growth**
- **Optimizes the genetic potential of every plant in your field**

### **ACTIVE INGREDIENTS**

Cytokinin (as kinetin).....	00.15%
Indole-3-butyric Acid.....	00.85%

### **RECOMMENDED USE RATE**

**In-Furrow:** 2 fl oz per acre

**Foliar:** 2 fl oz per acre .

### **PRODUCT AVAILABILITY**

- 2 x 2.5 gallon case
- 275-gallon tote

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# REVLINE™ LATE-SEASON PLANT GROWTH REGULATOR

LATE SEASON  
PLANT GROWTH REGULATOR

REVLINE LATE SEASON is a fortified cytokinin designed to increase pollination and support photosynthesis during fruit or grain fill. The unique combination produces more flowering/ fruiting 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

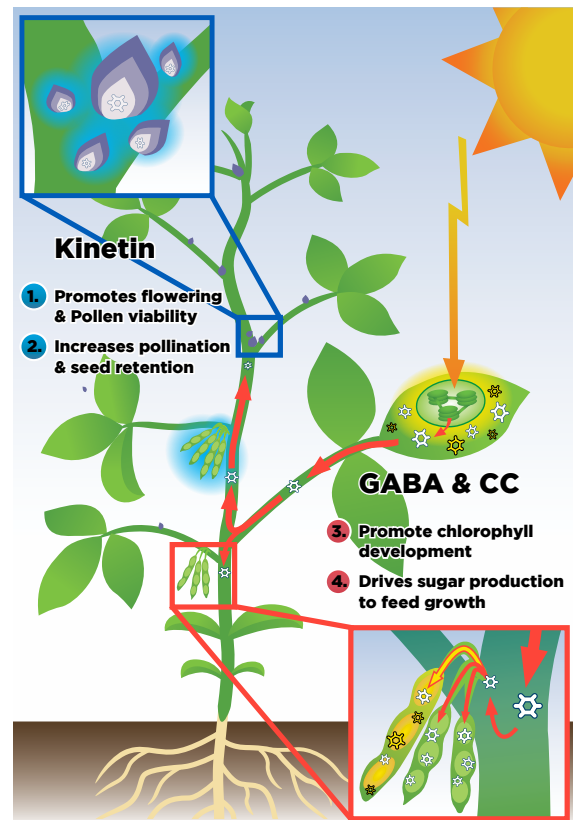
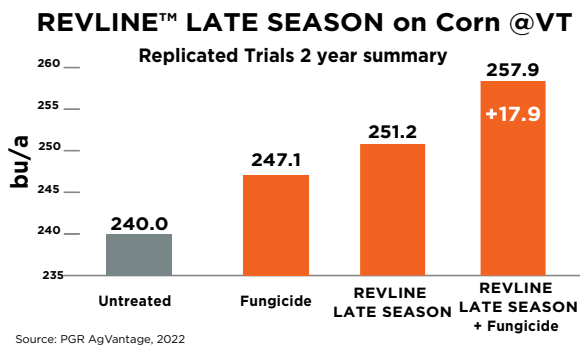
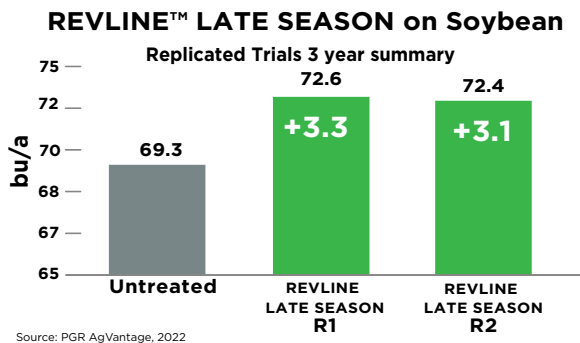
### ACTIVE INGREDIENTS

Kinetin.....	0.12%
GABA.....	0.98%
Choline Chloride.....	1.95%

Rate: 12.8 oz/Ac

Net Weight: 5.31 lbs (2.40kg)

**Greater pollination + more energy capture  
= More Yield!**



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# HOMESTRETCH<sup>®</sup>

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<sup>®</sup> by is a foliar applied formulation of 4-0-0 with a micronutrient package. It is ideal for in-season nutrient applications on row crops and can be used as a tank mix partner.

## PRODUCT BENEFITS

- High quality and mobile form of readily available nutrients for plants
- Low use rates
- Low salt index and low impurities
- Reduced stress through improved plant health
- Drives higher yields
- At a value that just makes sense

## 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.

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

## Guaranteed Analysis 4-0-0

### ACTIVE INGREDIENTS

Nitrogen (N).....	4.00%
4.0% Urea Nitrogen	
Sulfur (S).....	3.00%
Boron (B).....	0.25%
Manganese (Mn).....	3.00%
Zinc (Zn).....	3.00%

*Derived from urea, boric acid, manganese sulfate and zinc sulfate.*

## APPLICATION RECOMMENDATIONS

### FOLIAR APPLICATION

**Ground:** Apply 1-2 quarts in a minimum of 10 gallons of water per acre and repeat as needed.

**Aerial:** Apply 1-2 pints in a minimum of 5 gallons of water per acre and repeat as needed.

### SOIL APPLICATION

Use 1-3 quarts in a minimum of 10 gallons of water per acre. Not for use with starter fertilizer.

## PRODUCT AVAILABILITY

- 2x2.5 gallon jugs
- 250 gallon tote

**Weight:** 10.5 lb/gal @ 68°F

**Specific Gravity:** 1.26

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**HOMESTRETCH<sup>®</sup>**  
**NKB-S**  
**NUTRITIONAL**

**PUT PLANTS ON THE FAST TRACK TO HIGHER YIELD**

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<sup>®</sup> NKB-S is a 2-0-15 formulation, specifically formulated with a boost of potassium, boron, and sulfur. It is ideal for in-season nutrient applications on row crops and is an excellent tank mix partner.

**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**

**PRODUCT AVAILABILITY**

- 2 x 2.5 gallon jugs
- 250-gallon tote

**Density:** 11.15 lb/gal at 68°F

**Guaranteed Analysis 2-0-15**

**ACTIVE INGREDIENTS**

Nitrogen (N).....	2.00%
2.0% Urea Nitrogen	
Soluble Potash (K <sub>2</sub> O).....	15.00%
Sulfur (S) .....	4.50%
4.5% Water soluble sulfur	
Boron (B) .....	2.50%
2.5% Water soluble boron	
Molybdenum (Mo).....	0.25%

*Derived from urea, potassium sulfate, sodium molybdate, potassium borate.*

**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.

**Sulfur:** important for chlorophyll formation, nodulation, enzyme activation, and S-containing amino acids. Also aids in protein and enzyme synthesis.

**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.

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**CROP PERFORMANCE**

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# HOMESTRETCH<sup>®</sup> **B-Mo** NUTRITIONAL

PUT PLANTS ON THE FAST  
TRACK TO HIGHER YIELDS

Boron is one of the most common micronutrient deficiencies. Boron positively impacts vegetative and reproductive growth, cell and tissue growth and reproductive capacity.

Molybdenum is the micronutrient that aids in nitrogen utilization and sulfur metabolism.

HOMESTRETCH<sup>™</sup> B-Mo is designed for maximum nutrient mobility and performance, and is one of the most efficient and user friendly forms of boron available.

## PRODUCT BENEFITS

- Provides up to 8x more efficiency and mobility than 10% boron
- Highly soluble and stable across a broad pH range
- Boron will not precipitate when it comes in contact with acidic solutions
- Compatible with other micronutrients, including Zn and Ca
- Compatible with insecticides, herbicides and fungicides that have very specific pH ranges

## AGRONOMIC BENEFITS

**Boron:** Boron provides structural integrity and flexibility to the primary cell walls. It also improves vegetative and reproductive growth.

**Molybdenum:** Molybdenum is involved in many functions within the plant. It aids nitrogen and sulfur metabolism, as well as aids in hormone biosynthesis and toxic compound transformation. It is essential to root nodulation formation in legumes; and helps convert N<sub>2</sub> to ammonium and converts nitrate to nitrate.

## Guaranteed Analysis

### ACTIVE INGREDIENTS

Boron (B) .....	5.00%
5.0% Water soluble boron	
Molybdenum (Mo).....	0.50%
<i>Derived from boric acid and sodium molybdate.</i>	

## RATE RECOMMENDATIONS

### FOLIAR APPLICATION

**Field, Row, Vegetable and Vine Crops:** Apply 0.5-1 pint 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.

**Fruit and Nut Tree Crops:** Apply 1-4 pints per acre per application throughout the growing season. More frequent applications at 2 pint per acre may be needed to correct deficiencies once they occur.

**Ornamentals:** Apply 1-2 pints per 100 gallons water. Cover foliage thoroughly to point of runoff.

### SOIL APPLICATION

**All crops:** Use 1-3 quarts per acre.

Optimum rate of application will vary depending on treatment interval, soil properties (such as pH, organic matter content, texture), weather conditions, time of year, plant species and its nutrient requirements. For best results, follow soil/tissue test recommendation.

## PRODUCT AVAILABILITY

- 2x2.5 gallon jugs
- 250-gallon tote

**Weight:** 10.7 lb/gal @ 68°F

**Specific Gravity:** 1.28

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