

The image features a promotional graphic for SHUR GROW. The top left corner has a dark teal background with the company name 'SHUR GROW' in white, bold, sans-serif font. The 'O' in 'GROW' is a yellow circle. A gold ribbon-like graphic cuts across the middle of the image. The background is a photograph of a cornfield with rows of green corn plants under a clear sky. A single tree stands in the distance. The bottom left has a white background with green text, and the bottom right has a gold ribbon with the year '2024' in white.

**SHUR
GROW[®]**

**PREMIUM GENETICS & SEED
TRAITS FOR OVER 60 YEARS**

2024

LETTER FROM THE PRESIDENT AND CEO

Heritage Cooperative Members,

Shur Grow Seed has been part of the Heritage story for over 60 years, providing our members with premium genetics and seed traits. Shur Grow was first introduced to Ohio farmers in the early 1960s by The Ohio Grain Company. In 1984, the brand released its first exclusive genetics. In 1992, Champaign Landmark, Inc. acquired the brand, which opened doors to innovative technologies and plant breeding that broadened the Shur Grow brand lineup. We are proud of the long history and dependable performance of the Shur Grow seed line.

This year, in the spirit of our core value of Continuous Improvement, we have once again reevaluated and elevated the Shur Grow lineup to provide our members with new varieties, hybrids, traits, and extended maturity ranges. We understand that needs change and that soil types vary across the state, therefore we have invested in developing a more robust offering for growers to achieve the highest yield potential for their operation.

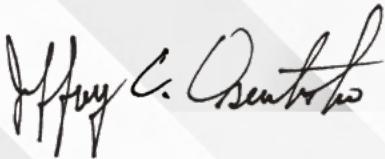
For corn production, we have completely overhauled our offerings, from top to bottom. We are now offering a total of 19 hybrids, with germplasm from five different genetics suppliers, 7 new hybrids, 11 proven hybrids, and 8 trait platforms. We are also testing 2 experimental hybrids this year. This is the most robust offering yet from Shur Grow.

For soybean production, we are offering both Enlist E3® and XtendFlex® technology platforms in our lineup. For 2024, we revamped our offering with germplasm from one genetic supplier, 4 new varieties and continue to offer 7 proven varieties with strong historical usage and yield performance. We are also testing 4 experimental varieties this year. These offerings provide a wider maturity set from 2.5 to 3.8 RM, providing our growers and farmer dealer network with what they need specific to their area. Our commitment to our products and customers has also been enhanced to include a **100% replant policy when utilizing a full seed treatment**.

For wheat production, we have narrowed our offering to 4 varieties which include the very best genetics on market that perform the very best in the state of Ohio. The lineup includes two awnless and two awned varieties, that will fit our customers' needs very well. We are also testing the 3 new varieties as well.

As genetics and traits continue to evolve at a rapid pace, you can count on Heritage Cooperative and the Shur Grow lineup to provide quality seed solutions, with dependable performance, that achieve your profitability goals.

Sincerely,



Jeffrey C. Osentoski, President & CEO
Heritage Cooperative, Inc.



SHUR GROW[®]

TOUGH WEEDS
DON'T
STAND A
CHANCE

Now
Available



Enlist E3[®] soybeans offer the most advanced trait technology available in soybeans. With tolerance to 2,4-D choline in Enlist[®] herbicides, glyphosate and glufosinate, Enlist E3[®] soybeans bring your fields a new standard in weed control and yield potential.

Contact us to learn more:

800.231.7333 | HeritageCooperative.com

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SEED TRAIT MANAGEMENT

Bayer is a member of Excellence Through Stewardship® (ETS).

Bayer products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with Bayer's Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. Commercialized products have been approved for import into key export markets with functioning regulatory systems. Any crop or material produced from this product can only be exported to, or used, processed or sold in countries where all necessary regulatory approvals have been granted. It is a violation of national and international law to move material containing biotech traits across boundaries into nations where import is not permitted. Growers should talk to their grain handler or product purchaser to confirm their buying position for this product. Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship.

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.



Roundup Ready® 2 Technology contains genes that confer tolerance to glyphosate. Glyphosate will kill crops that are not tolerant to glyphosate. Insect control technology provided by Vip3A is utilized under license from Syngenta Crop Protection AG. Acceleron®, DroughtGard®, RIB Complete®, Roundup Ready 2 Technology and Design®, Roundup Ready®, SmartStax®, Trecepta® and VT Double PRO® are registered trademarks of Bayer Group. Herculex® is a registered trademark of Dow AgroSciences LLC. Agrisure Viptera® is a registered trademark of a Syngenta group company. LibertyLink® logo and LibertyLink® are trademarks of BASF Corporation. Respect the Refuge and Corn Design® and Respect the Refuge® are registered trademarks of National Corn Growers Association.



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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.



Corteva Agriscience is a member of Excellence Through Stewardship® (ETS). Corteva Agriscience products are commercialized in accordance with ETS product launch stewardship guidance Corteva Agrisciences Product Launch Stewardship Policy. No crop or material produced from this product can be exported to, used, processed or sold across boundaries into nations where import is not permitted. Growers should talk to their grain handler or product purchaser to confirm their buying position for this product. For further information about your crop or grain marketing options, contact DAS at 877-4-TRAITS (877-487-2487). Information regarding the regulatory and market status of agricultural biotechnology products can be found at: www.biotradestatus.com.

Product performance assumes disease presence. Important: Always read and follow label instructions. Some products may not be registered for sale or use in all states or counties. Please check with your local extension service to ensure registration status. Salstro®, Vibrance® and the Syngenta logo are trademarks of a Syngenta Group Company.

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/trait-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/trait-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/trait-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.

ENLIST® WEED CONTROL SYSTEM— PROVEN CONTROL OF TOUGH WEEDS

Enlist Duo®
COLEX-D® technology
HERBICIDE

Enlist One®
COLEX-D® technology
HERBICIDE

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

CORN TRAITS



The Agrisure® GT trait provides tolerance to in-crop applications of glyphosate-based herbicides. This hybrid is an excellent option for refuge acres in a structured refuge operation.



The Duracade® trait stack provides multiple modes of action against corn rootworm and corn borer, as well as suppression of ear-feeding insects. This trait stack includes a novel, alternate mode of action to help preserve trait durability and delay insect adaptation for long-term field health, and the convenience of an integrated E-Z Refuge® seed blend.

Pests controlled: European corn borer, southwestern corn borer, black cutworm, beet armyworm, southern cornstalk borer, lesser cornstalk borer, sugarcane borer, western corn rootworm, northern corn rootworm and Mexican corn rootworm.

Pests suppressed: Corn earworm, western bean cutworm, fall armyworm and common stalk borer.



The Viptera® trait stack offers the most comprehensive above-ground insect control with control of ear-feeding insects, multiple modes of action against key above-ground insects and the convenience of an integrated E-Z Refuge® seed blend. It is ideal in areas where corn rootworm management is not a primary concern. The Viptera® trait stack features the only trait technology available today that effectively controls western bean cutworm to help protect genetic yield potential.

Pests controlled: European corn borer, southwestern corn borer, corn earworm, western bean cutworm, black cutworm, dingy cutworm, fall armyworm, true armyworm, beet armyworm, common stalk borer, southern cornstalk borer, lesser cornstalk borer and sugarcane borer.



Seed products with the LibertyLink® (LL) trait are resistant to the herbicide glufosinate ammonium, an alternative to glyphosate in corn, and combine high-yielding genetics with the powerful, non-selective, postemergent weed control of Liberty® herbicide for optimum yield and excellent weed control. LibertyLink®, Liberty® and the Water Droplet logo are registered trademarks of BASF.



The Duracade Viptera™ Z3 trait stack offers the most comprehensive above- and below-ground insect control for proactively protecting yield potential and field health. It offers three modes of action on key broad lepidopteran pests and a unique mode of action that demonstrates strong performance against corn rootworm. This trait stack offers control of 16 damaging above- and below-ground pests, and includes the convenience of an integrated E-Z Refuge® seed blend.

Pests Controlled: European corn borer, southwestern corn borer, corn earworm, western bean cutworm, black cutworm, dingy cutworm, fall armyworm, true armyworm, beet armyworm, common stalk borer, southern cornstalk borer, lesser cornstalk borer, sugarcane borer, western corn rootworm, northern corn rootworm, and Mexican corn rootworm.



The Agrisure® Above trait stack offers the convenience of an integrated E-Z Refuge® seed blend featuring multiple modes of action against corn borer, as well as suppression of ear-feeding insects. The Agrisure® Above trait stack is ideal in areas where corn rootworm management is not a primary concern.

Pests controlled: European corn borer, southwestern corn borer, black cutworm, southern cornstalk borer, lesser cornstalk borer and sugarcane borer.

Pests suppressed: Corn earworm, western bean cutworm, fall armyworm and common stalk borer.

Important: Always read and follow label and bag tag instructions; only those labeled as tolerant to glufosinate may be sprayed with glufosinate ammonium-based herbicides. More information about Duracade® is available at <http://www.biotradestatus.com/>.



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CORN TRAIT TABLE		ABOVE & BELOW GROUND					ABOVE GROUND						
Pest		Control Ratings					Control Ratings						
Corn Earworm 		Above Ground	●●●●● 1-2	●● 0-1	●●●● 0-2	●●●● 0-2	●● 0-1	●●●●● 1-2	●●●●● 1-3	●●●● 0-2	●●●● 0-2	●● 0-1	●● 0-1
Black Cutworm 		●●●●● 2	●●●● 1	●●●● 1	●●●● 1	●●●● 1	●●●●● 2	●●●●● 1	●●●● 1	NA	●●●● 1	●●●● 1	
Fall Armyworm 		●●●●● 1-2	● 1	●●●● 2-3	●●●● 2-3	● 0-1	●●●●● 1-2	●●●●● 3	●●●● 2-3	●●●● 2	● 0-1	● 0-1	
Western Bean Cutworm 		●●●●● 1	NA	NA	NA	NA	●●●●● 1	●●●●● 1	NA	NA	NA	NA	
True Armyworm 		●●●●● 1	NA	NA	NA	NA	●●●●● 1	●●●●● 1	NA	NA	NA	NA	
European Corn Borer 		●●●●● 1-2	●●●●● 2	●●●●● 2-3	●●●●● 2-3	●●●●● 1-2	●●●●● 1-2	●●●●● 2	●●●●● 2-3	●●●●● 2	●●●●● 1-2	●●●●● 1-2	
Southwestern Corn Borer 		●●●●● 2	●●●●● 1	●●●●● 3	●●●●● 3	●●●●● 1	●●●●● 2	●●●●● 3	●●●●● 3	●●●●● 2	●●●●● 1	●●●●● 1	
Western, Northern, Southern CRM 	Below Ground	●●●● 0-2	●●●● 0-2	●●●●● 0-3	●●●● 0-2	●●●● 0-2	NA	NA	NA	NA	NA	NA	
Refuge Corn Belt	Refuge	5% In the bag	5% In the bag	5% In the bag	5% In the bag	5% In the bag	5% In the bag	5% In the bag	5% In the bag	5% In the bag	5% In the bag	5% In the bag	
Herbicide Tolerance	Herbicide Tolerance	Glyphosate Glufosinate	Glyphosate Glufosinate	Glyphosate Glufosinate	Glyphosate Glufosinate	Glyphosate Glufosinate	Glyphosate Glufosinate	Glyphosate	Glyphosate Glufosinate 2,4-D choline FOPs	Glyphosate	Glyphosate Glufosinate	Glyphosate Glufosinate	

*1st Line = Insect Control score: information is based solely upon interpretation of publicly available information, including public presentations, regulatory submissions and observations made in commercial fields.

*2nd Line = # of Bt Proteins: the number represents the proteins that are still effective or have a reduced effectiveness for the pest listed.

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.

Insect Control Scale:

NA = No Control, ● = Some, ●● = Good, ●●● = Very Good, ●●●● = Excellent

CORN PLANTING GUIDES

For Harvest Pop.	Planting Pop. at 90% Germ.	Within Row Kernel Spacing (Inches between each kernel)				
		Row Width				
		15"	20"	22"	28"	30"
20,000	22,200	18.8	14.1	12.8	10.1	9.4
22,000	24,400	17.2	12.9	11.7	9.2	8.6
24,000	26,700	16.6	11.7	10.6	8.4	7.8
26,000	28,900	14.4	10.8	9.8	7.7	7.2
28,000	31,100	13.4	10.1	9.1	7.2	6.7
30,000	33,000	12.6	9.5	8.6	6.7	6.3
32,000	35,500	11.8	8.9	8.1	6.3	5.9
34,000	37,800	11.0	8.3	7.5	5.9	5.5
36,000	40,000	10.5	7.8	5.2	4.4	4.1
38,000	42,200	10.0	7.5	5.0	4.1	3.9

Planting Rate	Acres Per 80,000 Kernel Bag
28,000	2.86
30,000	2.67
32,000	2.50
34,000	2.35
36,000	2.22
38,000	2.11
40,000	2.00



CruiserMaxx® Corn 250 insecticide/fungicide seed treatment, a combination of separately registered products, offers broad spectrum protection against early-season insects and seedborne and soilborne diseases.

Important: Always read and follow label instructions. Some products may not be registered for sale or use in all states or counties. Please check with your local extension service to ensure registration status.

CruiserMaxx® Corn 250 is an on-seed application of Cruiser® 5FS insecticide delivered at the 0.25 mg a.i./seed rate and Maxim® Quattro fungicide. Cruiser®, CruiserMaxx® and Maxim® are registered trademarks of a Syngenta Group Company.

Width	Stand Count Formulas	Equals
30" Rows	Number of plants in 17.5 ft of row x 1000	Final Plants per Acre
20" Rows	Number of plants in 26.0 ft of row x 1000	Final Plants per Acre
15" Rows	Number of plants in 35.0 ft of row x 1000	Final Plants per Acre

CORN HYBRIDS

SG-5653



Agronomic/Disease Ratings

RM: 96 days



Height: **Med-Tall**
Ear Type: **Flex**

Ear Height: **Med**
Kernel Rows: **16-18**

Pop. Range: **28-35k**
Cob Color: **Red**

Descriptions:

- Trait Options - V/GT/CONV
- Outstanding yield, tall, dual-purpose grain or silage hybrid
- Extremely attractive upright leaf stature
- Long, flex-type ear with superior grain quality
- Fall plant health and staygreen are outstanding
- Moves south out of RM as an early option

Graph Key:

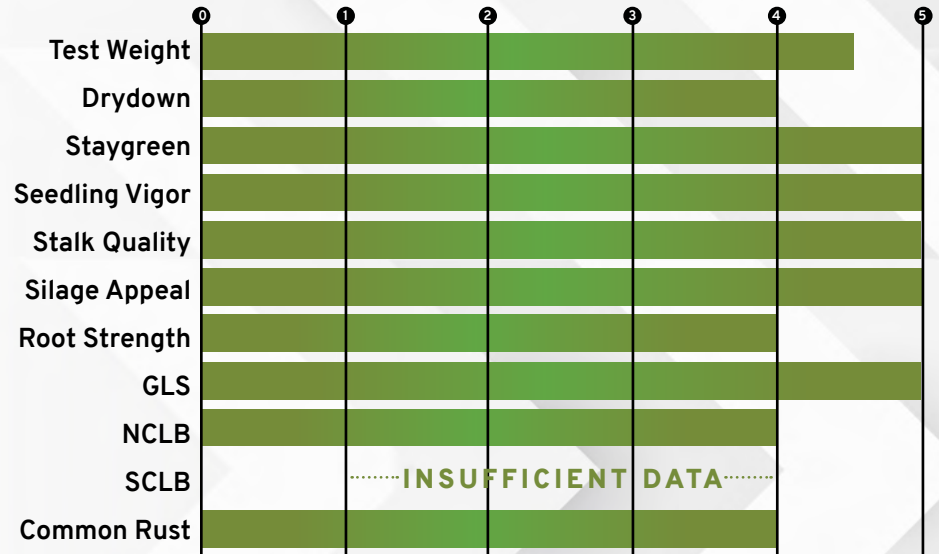
1=Fair 2=Average 3=Good 4=Very Good 5=Excellent

SG-5953



Agronomic/Disease Ratings

RM: 99 days



Height: **Med-Tall**
Ear Type: **S-Flex**

Ear Height: **Med-High**
Kernel Rows: **16**

Pop. Range: **28-36k**
Cob Color: **Red**

Descriptions:

- Trait Options - D
- Consistent high yield with solid agronomics
- Excellent ear flex with good grain quality
- Medium-tall, strong roots and stalks
- Great dual-purpose hybrid
- Strong gray leaf spot and tar spot ratings



CORN HYBRIDS

SG-6053



Agronomic/Disease Ratings

RM: 100 days



Height: Med	Ear Height: Med	Pop. Range: 30-35k
Ear Type: S-Flex	Kernel Rows: 18-20	Cob Color: Red

Descriptions:

- Trait Options - AA
- Outstanding yield, agronomics, and consistent performance
- Moves north and south of maturity zone
- Exceptional stalks and roots
- Staygreen is outstanding!
- Solid disease package

Graph Key:

1=Fair 2=Average 3=Good 4=Very Good 5=Excellent

SG-638



Agronomic/Disease Ratings

RM: 103 days



Height: Med-Tall	Ear Height: Med	Pop. Range: 30-35k
Ear Type: S-Flex	Kernel Rows: 14-16	Cob Color: Red

Descriptions:

- Trait Options - VT2P/RR/CONV
- Excellent top-end yield at early maturity with low greensnap risk
- Excellent emergence and early vigor for early planting and no-till
- Big, robust plant type with excellent test weight
- Long semi-flex ears with good kernel depth
- Medium-tall plant with medium ear height

SG-6314 NEW



Agronomic/Disease Ratings

RM: 103 days



Height: Tall	Ear Height: High	Pop. Range: 33-36k
Ear Type: S-Flex	Kernel Rows: 18	Cob Color: Pink

Descriptions:

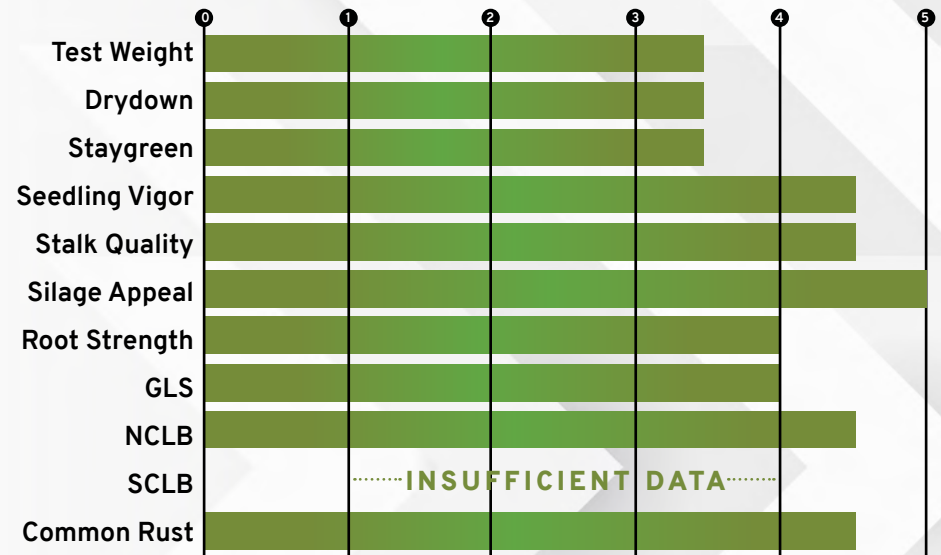
- Trait options - DV
- High top end-yield with outstanding test weight
- Excellent stalks, roots, and intactness
- Great silage hybrid, especially in NE Ohio
- Broad adaptability

SG-641



Agronomic/Disease Ratings

RM: 104 days



Height: Med-Tall	Ear Height: Med	Pop. Range: 32-37k
Ear Type: Flex	Kernel Rows: 18-22	Cob Color: Red

Descriptions:

- Trait options - AA/GT
- Nice, high-yielding hybrid with excellent stalks and roots
- Very healthy, tall, robust plant
- Strong silage hybrid in tonnage and nutritional value
- Responds to populations and fertility
- Long girthy flex-type ear with kernel depth, good test weight

CORN HYBRIDS

SG-6534 NEW



Agronomic/Disease Ratings

RM: 105 days



Height: **Med** Ear Height: **Med** Pop. Range: **32-36k**
 Ear Type: **Flex** Kernel Rows: **16-18** Cob Color: **Red**

Descriptions:

- Trait options - POWERCORE/CONV
- Impressive disease package, including tar spot
- Tremendous late-season staygreen, health, intactness with strong stalks
- Widely adapted with long girthy ears and high test weight
- Always finishes with strong yields; very reliable
- PowerCore Enlist® option

Graph Key:

1=Fair 2=Average 3=Good 4=Very Good 5=Excellent

SG-6633



Agronomic/Disease Ratings

RM: 106 days



Height: **Med** Ear Height: **Med** Pop. Range: **30-34k**
 Ear Type: **S-Flex** Kernel Rows: **16** Cob Color: **Red**

Descriptions:

- Trait options - VT2PRIB
- Very high-yielding hybrid with excellent dry down
- Very good TW and ear flex
- Keep in the low to moderate seeding populations
- Fast emerging hybrid with solid disease ratings
- Works across yield environments; go-anywhere hybrid

SG-6744



Agronomic/Disease Ratings

RM: 107 days



Height: Med	Ear Height: Med	Pop. Range: 30-34k
Ear Type: S-Flex	Kernel Rows: 16-18	Cob Color: Red

Descriptions:

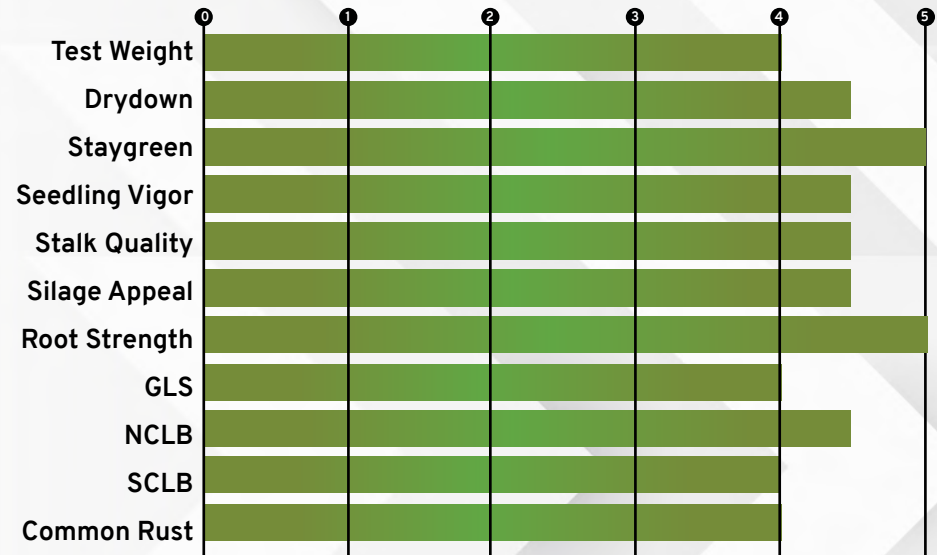
- Trait options - POWERCORE/CONV
- Attractive late-season eye appeal with staygreen and intactness
- Balanced ear type with very good grain quality and test weight
- Widely adapted across soils and works at a wide range of populations
- Fits the entire Heritage geography
- PowerCore Enlist® option

SG-687



Agronomic/Disease Ratings

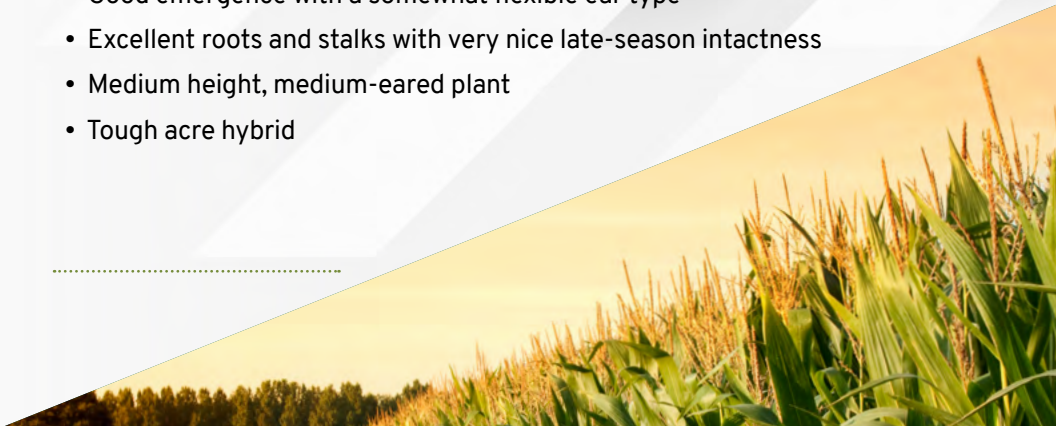
RM: 108 days



Height: Med-Tall	Ear Height: Med	Pop. Range: 30-36k
Ear Type: S-Flex	Kernel Rows: 16	Cob Color: Pink

Descriptions:

- Trait options - GT
- Good emergence with a somewhat flexible ear type
- Excellent roots and stalks with very nice late-season intactness
- Medium height, medium-eared plant
- Tough acre hybrid



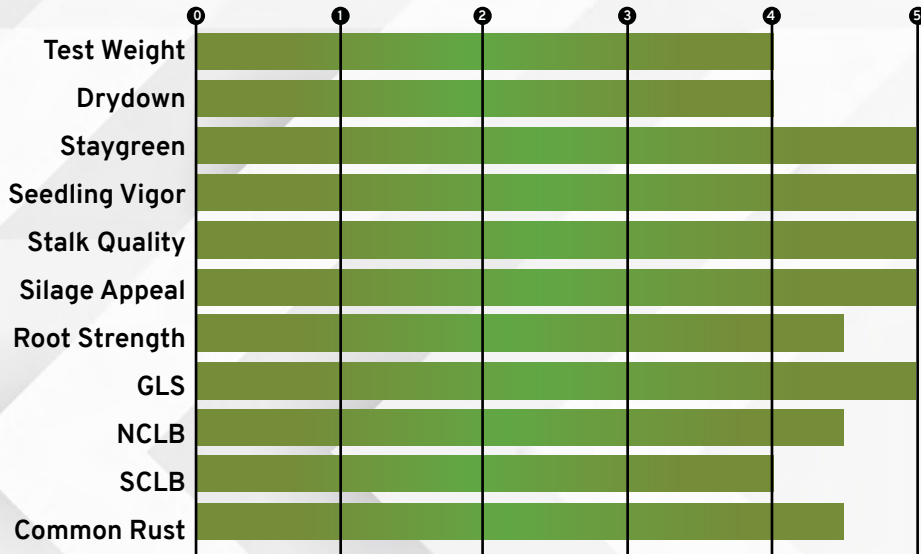
CORN HYBRIDS

SG-692



Agronomic/Disease Ratings

RM: 109 days



Height: **Med-Tall**
Ear Type: **Flex**

Ear Height: **Med**
Kernel Rows: **18**

Pop. Range: **28-35k**
Cob Color: **Pink**

Descriptions:

- Trait options - V
- Top yields with response to high fertility soils
- Industry-leading foliar disease protection
- Demonstrates good tolerance to tar spot
- Great dual-purpose hybrid; excellent silage quality
- Consistent, very girthy ear brings yield of 18+ kernel rows

Graph Key:

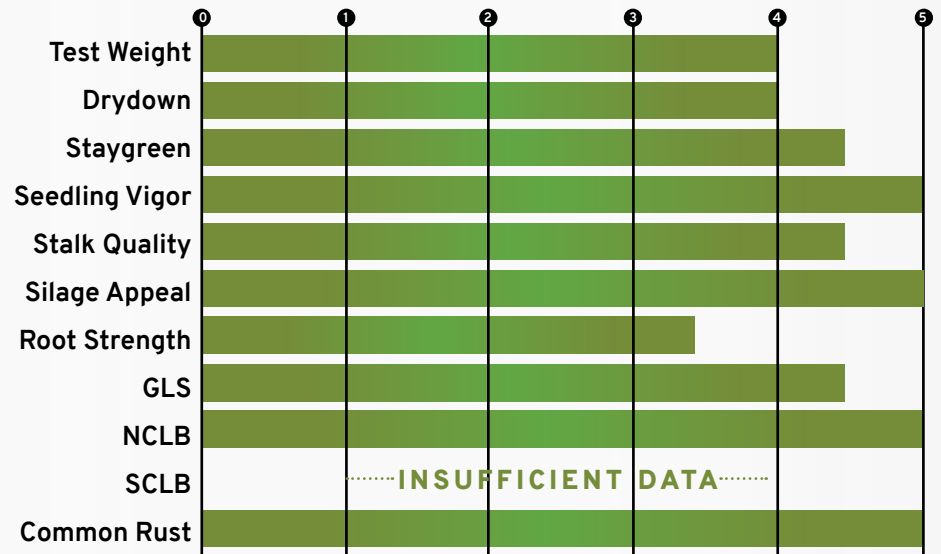
1=Fair 2=Average 3=Good 4=Very Good 5=Excellent

SG-6914



Agronomic/Disease Ratings

RM: 109 days



Height: **Tall**
Ear Type: **Flex**

Ear Height: **Med-High**
Kernel Rows: **14-18**

Pop. Range: **29-33k**
Cob Color: **Red**

Descriptions:

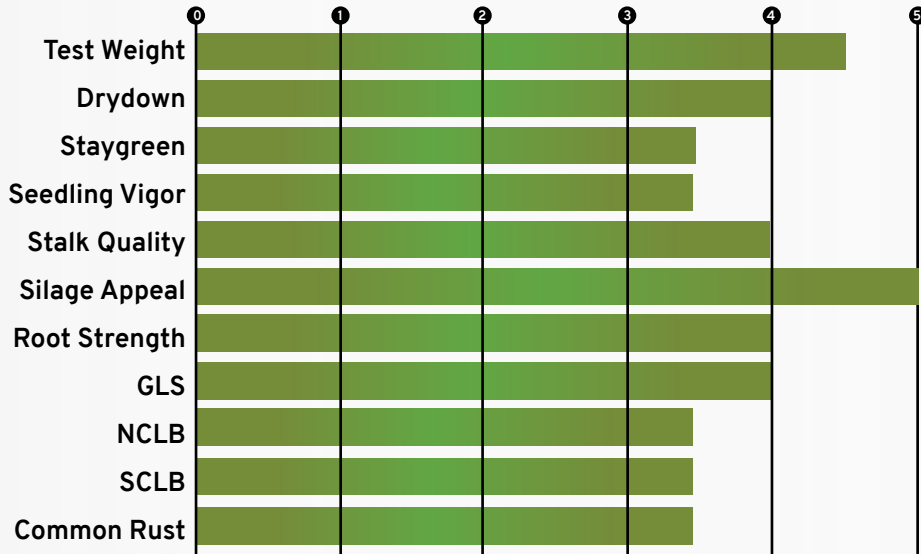
- Trait options - D
- Excellent dual-purpose hybrid for grain or silage
- Very good grain quality
- Solid agronomics and fast emergence
- Broad adaptability

SG-6933

VT Double PRO
RIB COMPLETE

Agronomic/Disease Ratings

RM: 109 days



Height: **Med-Tall**

Ear Height: **Med**

Pop. Range: **34-38k**

Ear Type: **Flex**

Kernel Rows: **14-16**

Cob Color: **Red**

Descriptions:

- Trait options - VT2PRIB
- Elite hybrid with excellent top-end yields and wide area of adaptation
- Longer ear type with large, thick, deep kernels and good test weight
- Consistent ear length under density with good tip fill
- Position on productive soils, rewards high management
- Medium-tall plant with excellent silage tonnage and good quality

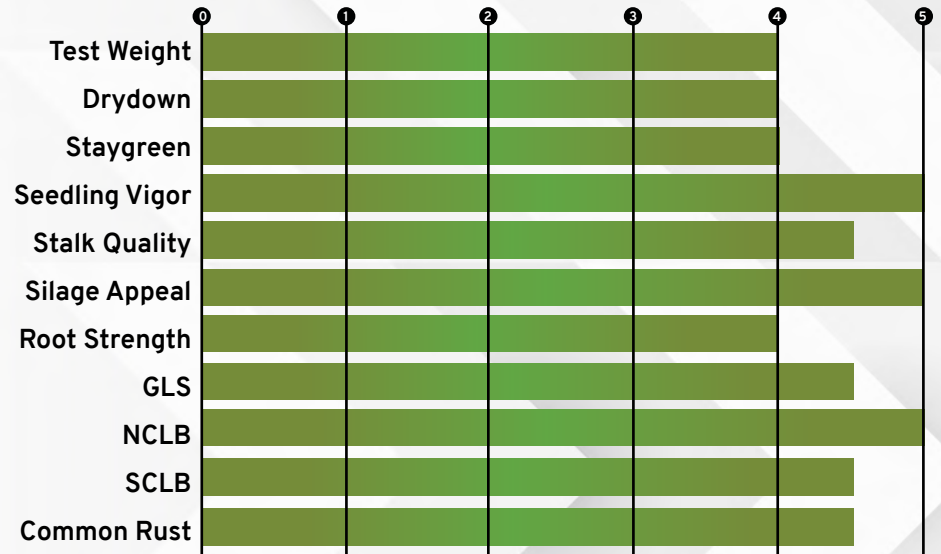
SG-7054

NEW

Agrisure Above

Agronomic/Disease Ratings

RM: 110 days



Height: **Med-Tall**

Ear Height: **Med-High**

Pop. Range: **32-36k**

Ear Type: **Flex**

Kernel Rows: **14-16**

Cob Color: **Red**

Descriptions:

- Trait options - AA
- Versatile hybrid for Ohio
- Superior stay green and NCLB protection
- Excellent stalks and roots
- Attractive dual-purpose silage/grain hybrid

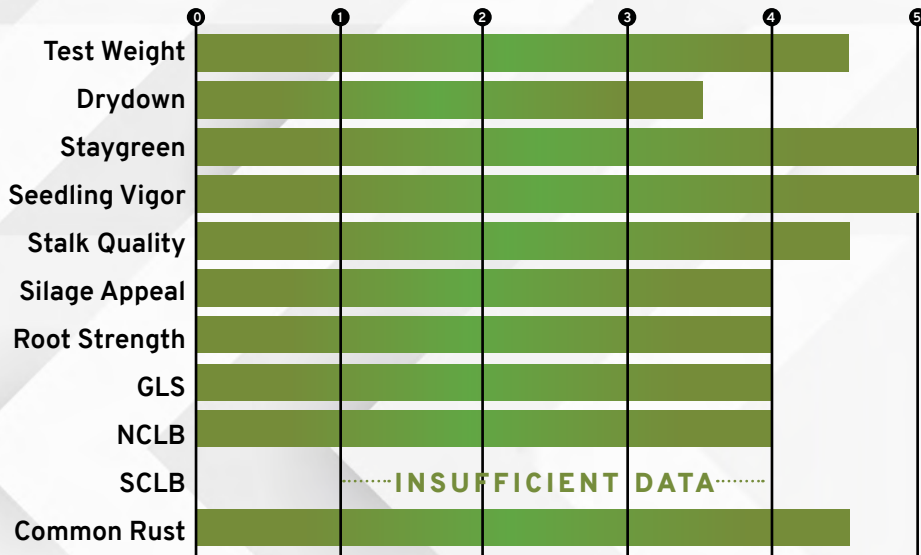
CORN HYBRIDS

SG-7124 NEW



Agronomic/Disease Ratings

RM: 111 days



Height: Med	Ear Height: Med	Pop. Range: 30-34k
Ear Type: Flex	Kernel Rows: 18-20	Cob Color: Pink

Descriptions:

- Trait options - POWERCORE/CONV
- Industry leading germplasm
- Very showy appearance all season
- Strong stalks & late-season staygreen
- Girthy ears with good flex
- Excellent top-end yield in medium to high yield environments
- PowerCore Enlist® option

Graph Key:

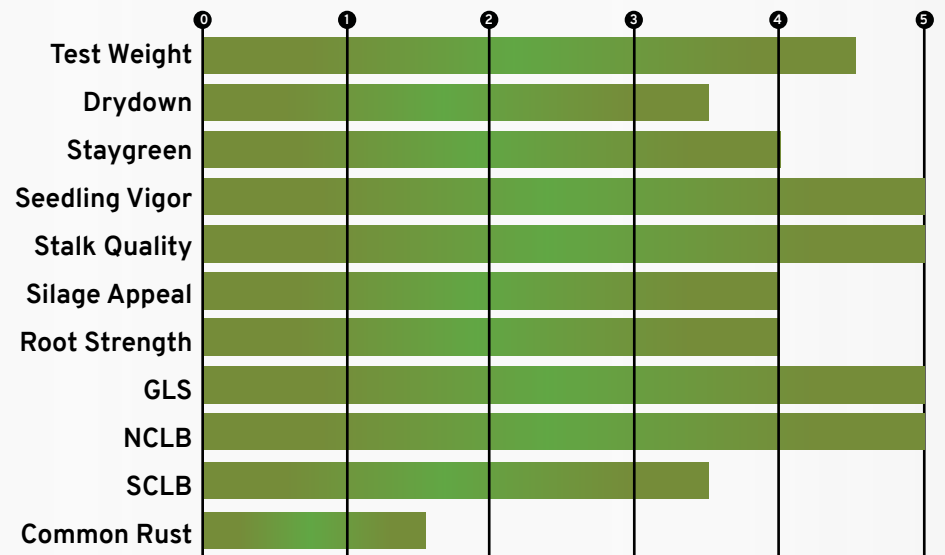
1=Fair 2=Average 3=Good 4=Very Good 5=Excellent

SG-7153



Agronomic/Disease Ratings

RM: 111 days



Height: Med-Tall	Ear Height: Med-Low	Pop. Range: 32-36k
Ear Type: S-Flex	Kernel Rows: 16	Cob Color: Pink

Descriptions:

- Trait options - AA, CONV
- Attractive plant type with high yield potential
- Widely adapted with good tolerance to tar spot
- Superior test weight and grain quality
- Very attractive plant appearance and late-season intactness
- Highest rated hybrid in lineup for GLS and NCLB

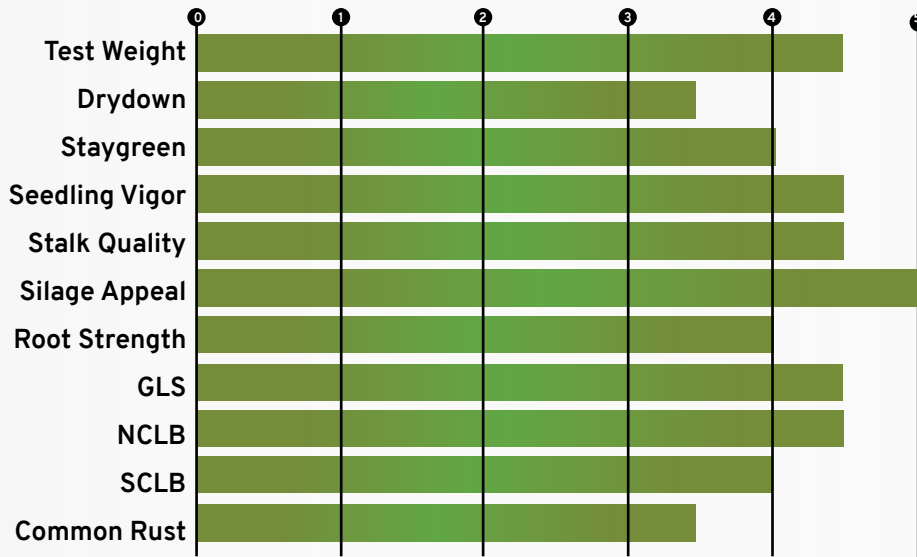
SG-7233

DroughtGard
HYBRIDS

VTDoublePRO
RIB COMPLETE

Agronomic/Disease Ratings

RM: 112 days



Height: Med-Tall	Ear Height: Med-High	Pop. Range: 30-35k
Ear Type: Flex	Kernel Rows: 18-20	Cob Color: Red

Descriptions:

- Trait options - DGVT2PRIB
- Optimal performance in high management systems
- Produces girthy ears with tremendous kernel flex, size, and depth
- Very attractive plant with nice fall appearance and intactness
- Very strong overall disease package
- Strong dual-purpose silage and grain hybrid

SG-7244

NEW

POWERCORE
Enlist

Agronomic/Disease Ratings

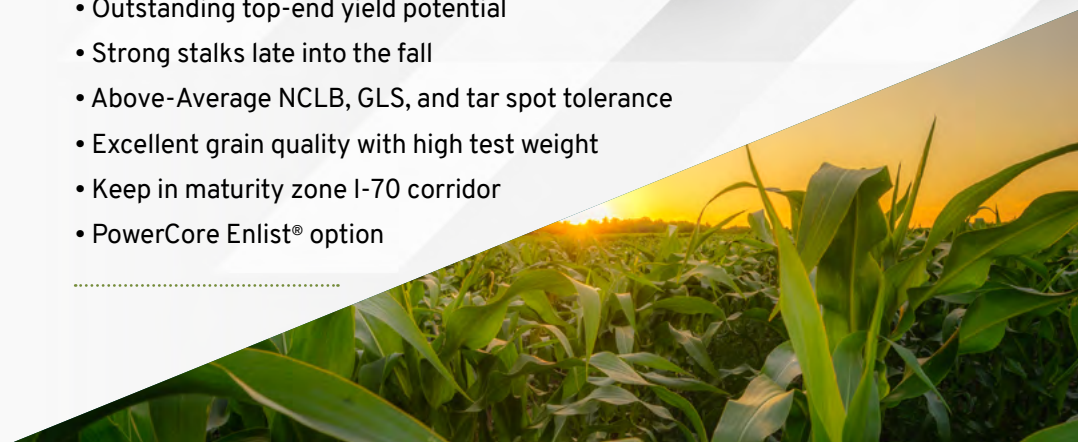
RM: 112 days



Height: Med-Tall	Ear Height: Med	Pop. Range: 32-36k
Ear Type: S-Flex	Kernel Rows: 16-18	Cob Color: Pink

Descriptions:

- Trait options - POWERCORE/CONV
- Outstanding top-end yield potential
- Strong stalks late into the fall
- Above-Average NCLB, GLS, and tar spot tolerance
- Excellent grain quality with high test weight
- Keep in maturity zone I-70 corridor
- PowerCore Enlist® option



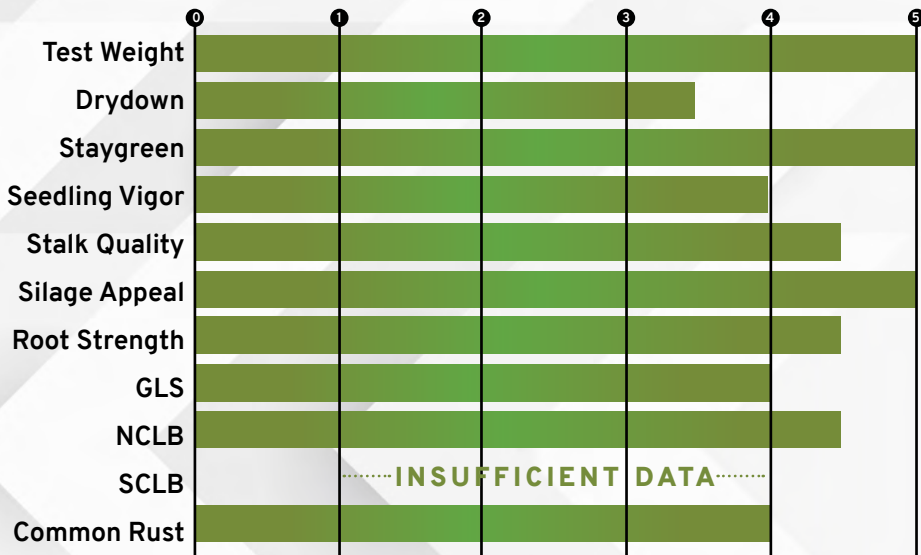
CORN HYBRIDS

SG-7323



Agronomic/Disease Ratings

RM: 113 days



Height: **Tall**
Ear Type: **Flex**

Ear Height: **High**
Kernel Rows: **14-18**

Pop. Range: **30-34k**
Cob Color: **Red**

Descriptions:

- Trait options - POWERCORE/CONV
- Excels as a high-yielding, full-season hybrid south of I-70
- Tall plant with excellent roots and staygreen
- Long flex ear handles moderate populations
- Excellent grain quality with high test weight
- Excellent dual-purpose grain and silage
- Can handle corn after corn

Graph Key:

1=Fair 2=Average 3=Good 4=Very Good 5=Excellent



SHUR GROW®



CORN CHARACTERISTICS

HYBRID	Maturity	Conventional	Agrisure GT®	Roundup Ready® 2	Agrisure Above®	VT Double Pro®	PowerCore	Viptera®	Duracade®	Duracade Viptera®	Plant Height	Ear Height	Plant Pop	Ear Flex	
SG-5653	96		✓	✓					✓			MT	M	28-35k	Flex
SG-5953	99									✓		MT	MH	28-36k	S-Flex
SG-6053	100					✓						M	M	30-35k	S-Flex
SG-638	103	✓			✓		✓					MT	M	30-35k	S-Flex
SG-6314	103										✓	T	H	33-36k	S-Flex
SG-641	104			✓		✓						MT	M	32-37k	Flex
SG-6534	105	✓						✓				M	M	32-36k	Flex
SG-6633	106						✓					M	M	30-34k	S-Flex
SG-6744	107	✓						✓				M	M	30-34k	S-Flex
SG-687	108			✓								MT	M	30-36k	S-Flex
SG-692	109								✓			MT	M	28-35k	Flex
SG-6914	109									✓		T	MH	29-33k	Flex
SG-6933	109						✓					MT	M	34-38k	Flex
SG-7054	110					✓						MT	MH	32-36k	Flex
SG-7124	111	✓						✓				M	M	30-34k	Flex
SG-7153	111	✓				✓						MT	ML	32-36k	S-Flex
SG-7233	112						✓					MT	MH	30-35k	Flex
SG-7244	112	✓						✓				MT	M	32-36k	S-Flex
SG-7323	113	✓						✓				MT	H	30-34k	Flex

These ratings reflect trends observed in research trials that change with variations in rainfall, temperature, crop production patterns and other factors. Ratings on new hybrids are based on limited data and may change as more data is collected.

Kernel Rows	Cob Color	Test Weight	Drydown	Staygreen	Seedling Vigor	Stalk Quality	Silage Appeal	Root Strength	Gray Leaf Spot	NCLB	SCLB	Common Rust	HYBRID
16-18	Red	4	4.5	5	5	4.5	5	4	4	4	N/A	4	SG-5653
16	Red	4.5	4	5	5	5	5	4	5	4	N/A	4	SG-5953
18-20	Red	4	4	5	4	5	4	5	5	4	4	N/A	SG-6053
14-16	Red	3.5	3.5	4.5	3.5	4.5	N/A	4	4.5	3.5	4	3.5	SG-638
18	Pink	4.5	4	4.5	5	5	5	5	4.5	4.5	3.5	N/A	SG-6314
18-22	Red	3.5	3.5	3.5	4.5	4.5	5	4	4	4.5	N/A	4.5	SG-641
16-18	Red	4.5	4	5	4.5	5	5	4	4.5	4.5	N/A	4.5	SG-6534
16	Red	4.5	5	4	4.5	4.5	3.5	3.5	3	4	N/A	N/A	SG-6633
16-18	Red	4	3.5	4.5	4	4	5	5	4	4	N/A	4	SG-6744
16	Pink	4	4.5	5	4.5	4.5	4.5	5	4	4.5	4	4	SG-687
18	Pink	4	4	5	5	5	5	4.5	5	4.5	4	4.5	SG-692
14-18	Red	4	4	4.5	5	4.5	5	3.5	4.5	5	N/A	5	SG-6914
14-16	Red	4.5	4	3.5	3.5	4	5	4	4	3.5	3.5	3.5	SG-6933
14-16	Red	4	4	4	5	4.5	5	4	4.5	5	4.5	4.5	SG-7054
18-20	Pink	4.5	3.5	5	5	4.5	4	4	4	4	N/A	4.5	SG-7124
16	Pink	4.5	3.5	4	5	5	4	4	5	5	3.5	1.5	SG-7153
18-20	Red	4.5	3.5	4	4.5	4.5	5	4	4.5	4.5	4	3.5	SG-7233
16-18	Pink	4.5	3.5	4.5	4.5	5	4.5	4.5	4.5	4.5	N/A	4.5	SG-7244
14-18	Red	5	3.5	5	4	4.5	5	4.5	4	4.5	N/A	4	SG-7323

Plant Height: T = Tall, M = Medium, S = Short

Ear Height: H = High, M = Medium, L = Low

Scale: 1 = Fair, 2 = Average, 3 = Good, 4 = Very Good, 5 = Excellent

SOYBEAN TREATMENTS

SOYBEAN TREATMENTS				
Treatment Package	Custom Treatment (bulk)			
	Base Treatment	Inoculant	SDS / Nematode	Optional add-on
Shur Coat Max+	Warden CX II	Preside Ultra	Saltro or llevo	Seed+Graphite
Shur Coat Max	Warden CX II	Preside Ultra		Seed+Graphite
Shur Coat Basic+	Vibrance Trio	Preside Ultra	Saltro or llevo	Seed+Graphite
Shur Coat Basic	Vibrance Trio	Preside Ultra		Seed+Graphite

Warden CX II:

contains four fungicides (picarbutrazox, mefenoxam, sedaxane, fludioxonil) and insecticide (thiamethoxam). Provides broad-spectrum protection against early-season disease and insects to help improve root health, plant vigor and optimize yield potential. Protects against diseases such as, but not limited to, Pythium, Phytophthora, Rhizoctonia, Fusarium and Seedborne Phomopsis and Seedborne Sclerotinia.

Vibrance® Trio:

contains three fungicides (mefenoxam, sedaxane, fludioxonil). Provides broad-spectrum protection against early-season disease to help improve root health, plant vigor and optimize yield potential. Protects against diseases such as, but not limited to, Pythium, Phytophthora, Rhizoctonia, Fusarium, Seedborne Phomopsis and Seedborne Sclerotinia.

Preside Ultra:

super concentrated soybean inoculant helps provide soybeans with increased levels of Nitrogen in the plant. The addition of Take Off® technology leads to earlier and more uniform emergence, producing a more powerful stand capable of producing higher yields.

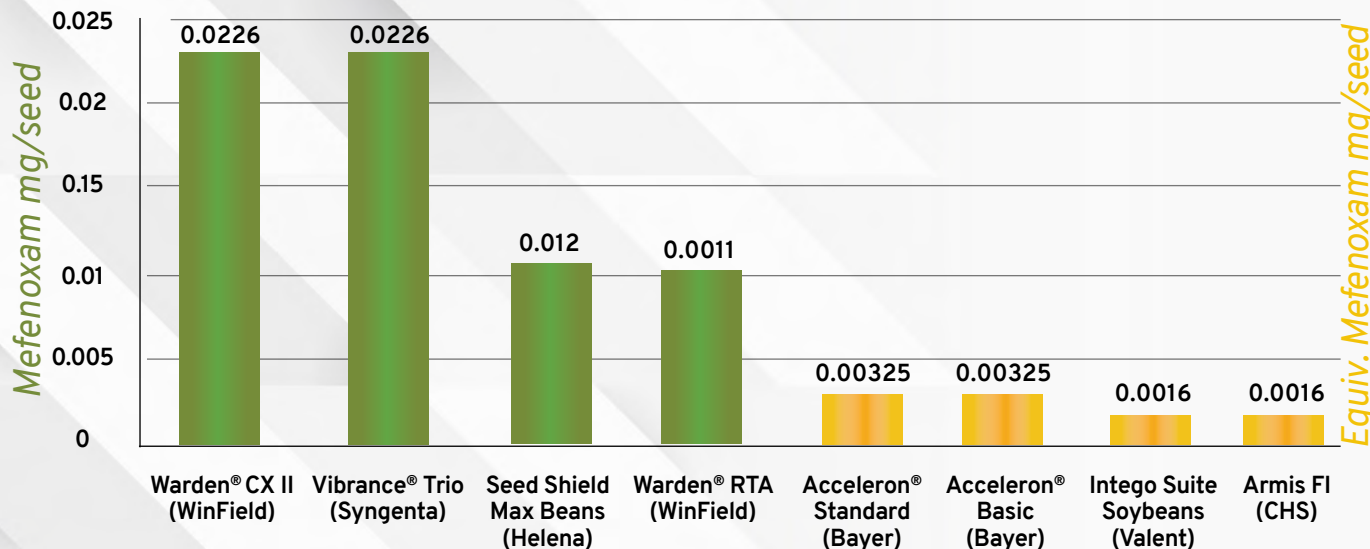
Saltro® or llevo:

powerful, proven protection against Sudden Death Syndrome (SDS) and Soybean Cyst Nematode (SCN).

Seed+Graphite:

contains three components (biostimulants, talc+graphite, nutrients) as a nutritional seed treatment/lubricant that delivers efficiency at planting, a robust start for the crop, and defense against early-season stress.

Mefenoxam vs. Metalaxyl Rates*



Warden CX II and Vibrance Trio feature the highest rate commercially available for protection against Pythium and Phytophthora. Mefenoxam contains the isolated active isomer of metalaxyl, which makes it twice as effective.

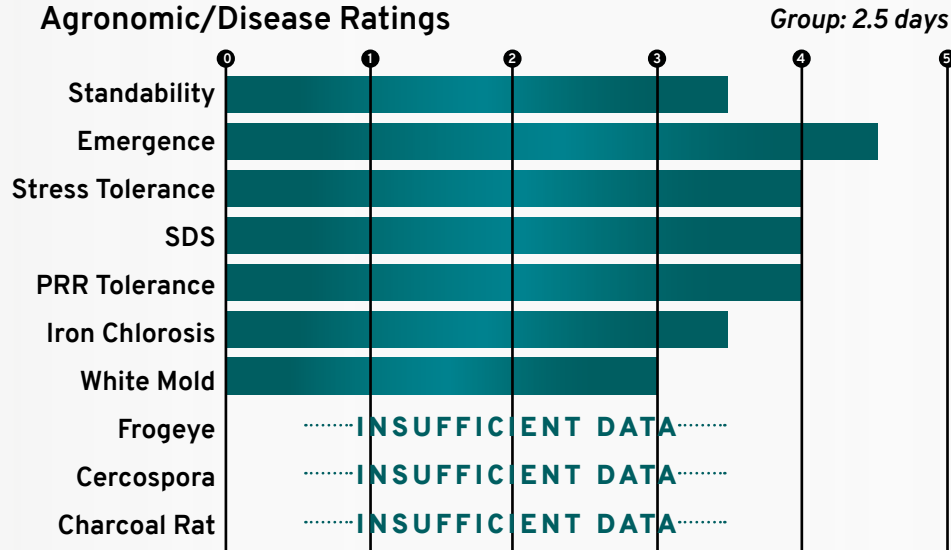
*Based on 3,000 seeds per pound and labeled rates

SOYBEAN VARIETIES

SG-2554E NEW



Group: 2.5 days



Height: Med	Plant Style: Intermediate	BSR Tolerance: R
PRR Gene: Rps1c	SCN: PI 88.788	Stem Canker: R
Flower: Purple	Pubescence: Gray	Pod Color: Brown

Descriptions:

- Early-maturing, high yield genetics
- Built for broad acres, especially Ohio
- SCN + BSR+ Rps1c
- Good SDS tolerance over many reps in '21 & '22
- Upgrade in yield over SG-2552E by 1.4 bu

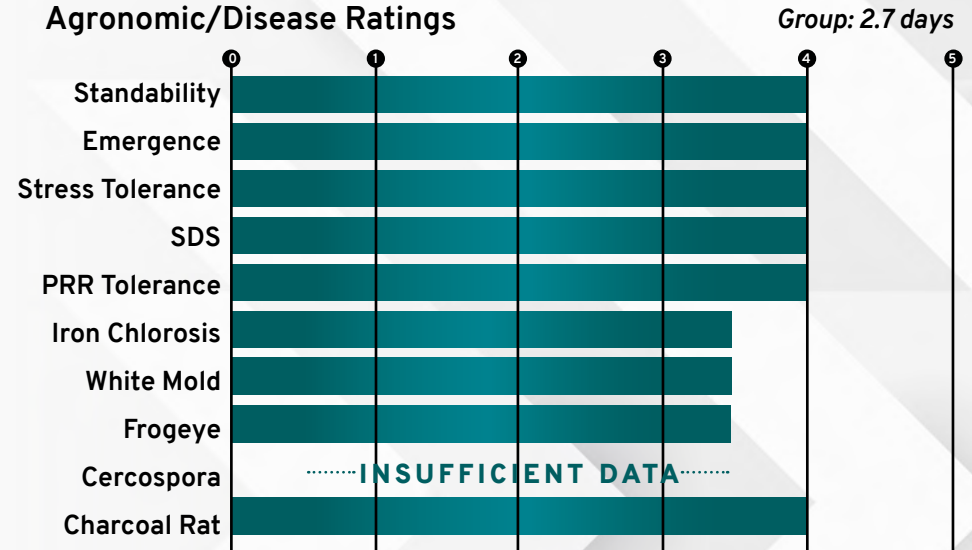
Graph Key:

1=Fair 2=Average 3=Good 4=Very Good 5=Excellent

SG-2753E



Group: 2.7 days



Height: Med-Tall	Plant Style: Thin-Intermediate	BSR Tolerance: R
PRR Gene: Rps1c	SCN: PI 88.788	Stem Canker: R
Flower: Purple	Pubescence: Gray	Pod Color: Tan

Descriptions:

- Medium-tall plant with outstanding standability
- Plant style with complete package to cover lots of acres in Midwest
- Outyields all others in this maturity across breeder trials
- Very clean plant, great fit for Ohio
- Graduated from EXP status early with breeder

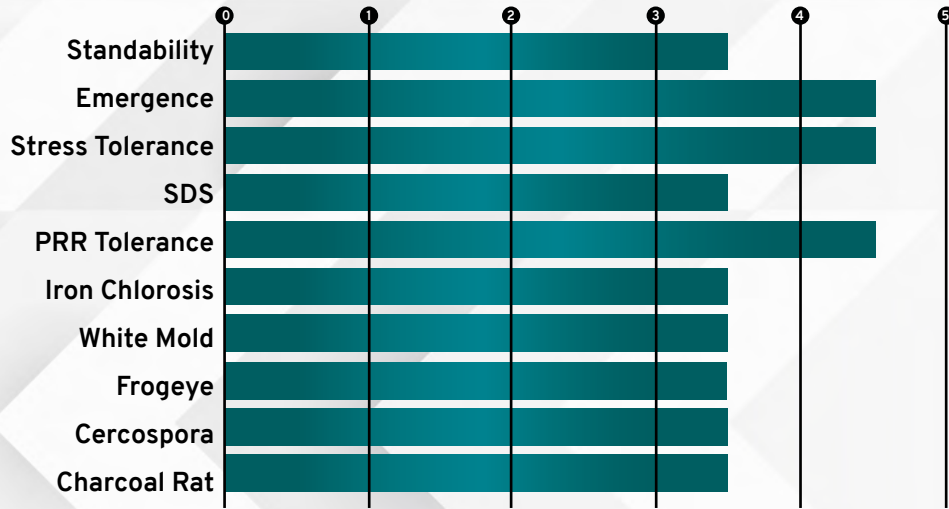
SOYBEAN VARIETIES

SG-2954E NEW



Agronomic/Disease Ratings

Group: 2.9 days



Height: Med-Tall	Plant Style: Intermediate	BSR Tolerance: NG
PRR Gene: NG	SCN: PI 88.788	Stem Canker: R
Flower: Purple	Pubescence: Gray	Pod Color: Brown

Descriptions:

- Upgrade over SG-2952E by 2.1 bu
- This will be a big ONE for Ohio
- PRR field tolerance is excellent
- Medium-tall with above average lodging
- This new variety sets the bar high for late group II

Graph Key:

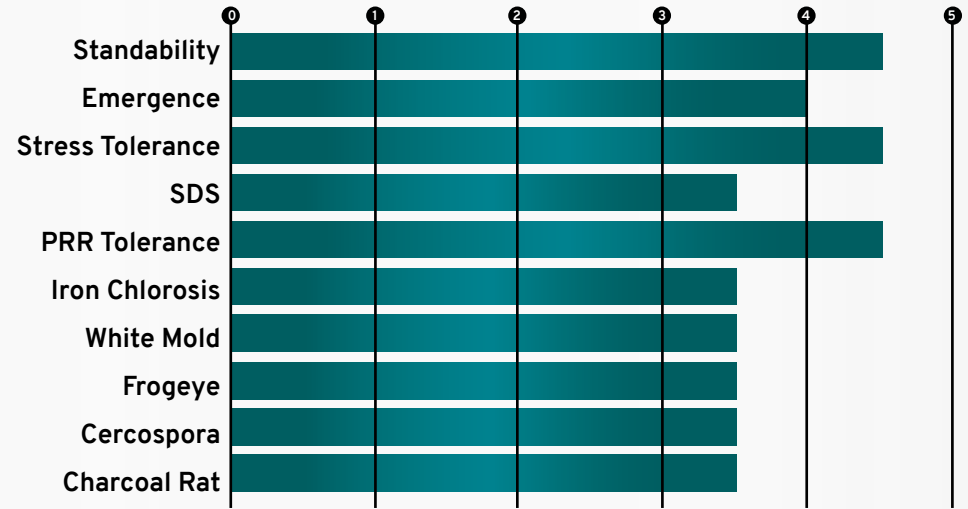
1=Fair 2=Average 3=Good 4=Very Good 5=Excellent

SG-3053E



Agronomic/Disease Ratings

Group: 3.0 days



Height: Med-Tall	Plant Style: Intermediate	BSR Tolerance: NG
PRR Gene: Rps1c	SCN: PI 88.788	Stem Canker: R
Flower: Purple	Pubescence: Gray	Pod Color: Brown

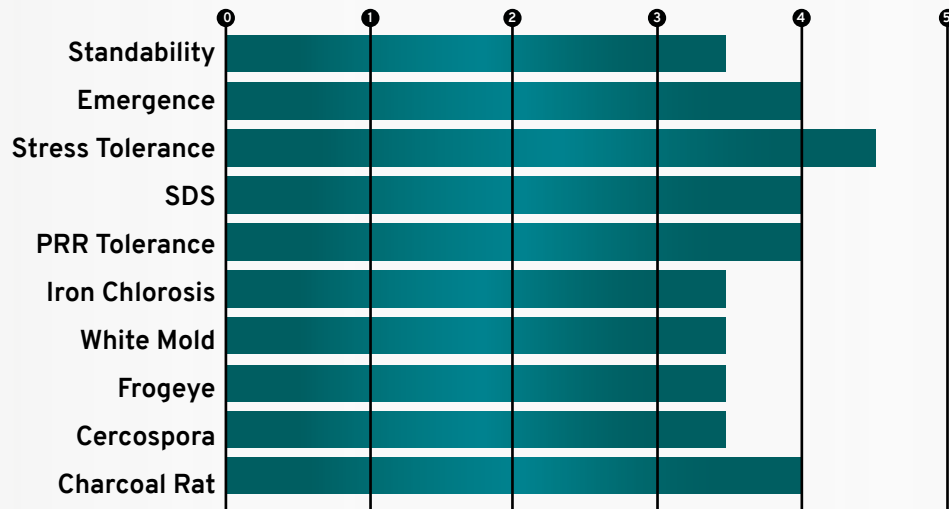
Descriptions:

- Key variety released in 2023
- Combination of yield, standability, and excellent defensive package
- Flawless lodging ratings across all yield environments
- Brings RPS1C gene and excellent field tolerance to PRR
- Stand out performance in all yield trials across IN/OH

SG-3284E NEW



Group: 3.2 days



Height: Med+	Plant Style: Intermediate	BSR Tolerance: NG
PRR Gene: Rps1k	SCN: PI 88.788	Stem Canker: R
Flower: Purple	Pubescence: L. Tawny	Pod Color: Brown

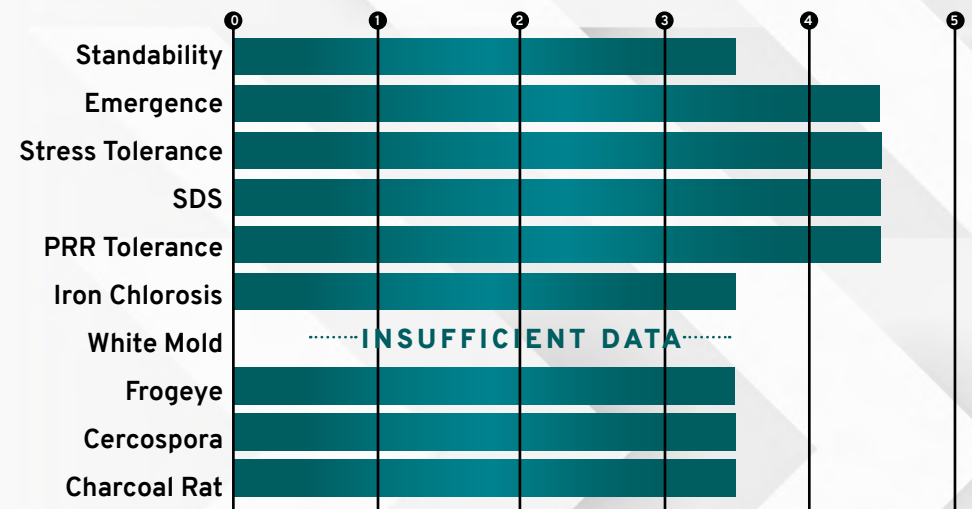
Descriptions:

- Gorgeous; looks healthy and clean
- Earlier version of the SG-3652E
- Farmer friendly plant style and defensive package
- Exceptional late-season plant health and SDS tolerance
- Upgrade over SG-3352E by 2.5 bu

SG-3454E NEW



Group: 3.4 days



Height: Med+	Plant Style: Intermediate Bush	BSR Tolerance: R
PRR Gene: NG	SCN: PI 88.788	Stem Canker: R
Flower: Purple	Pubescence: Gray	Pod Color: Brown

Descriptions:

- Fits all acres with balance of offense and defense
- Intermediate to wide profile with very good lodging scores
- Nice defensive package; excellent-tolerance to PRR and SDS
- Perfect companion to SG-3652E
- Very stable performance

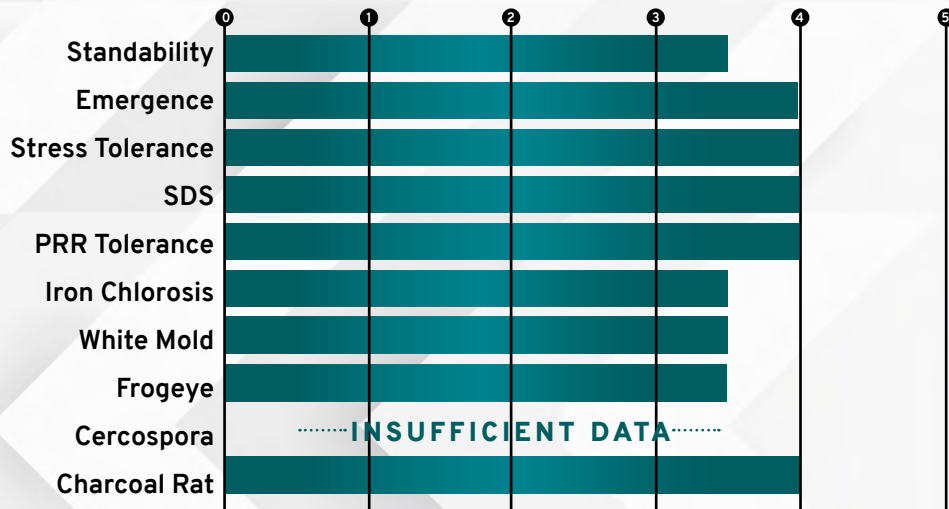
SOYBEAN VARIETIES

SG-3652E

Agronomic/Disease Ratings



Group: 3.6 days



Height: Med-Tall	Plant Style: Intermediate	BSR Tolerance: R
PRR Gene: Rps1K	SCN: PI 88.788	Stem Canker: R
Flower: Purple	Pubescence: L. Tawny	Pod Color: Brown

Descriptions:

- Long live the King – 3 yrs. running #1 of mid group III IL/IN/OH
- Stunning late-season plant health
- Rps1k with very good field tolerance for PRR
- Three-year observations show excellent SDS tolerance
- This variety fits a lot of acres

Graph Key:

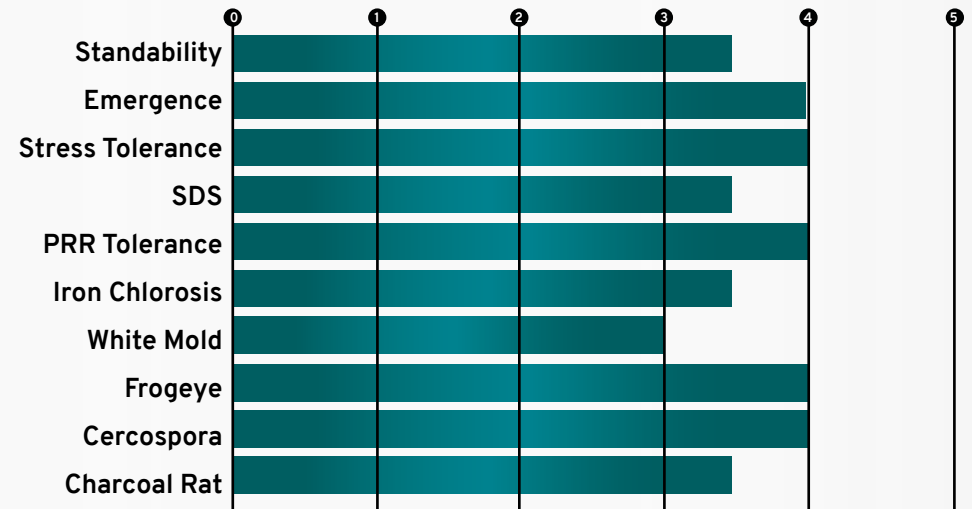
1=Fair 2=Average 3=Good 4=Very Good 5=Excellent

SG-3853E

Agronomic/Disease Ratings



Group: 3.8 days



Height: Med-Tall	Plant Style: Bush	BSR Tolerance: NG
PRR Gene: Rps1c	SCN: PI 88.788	Stem Canker: R
Flower: White	Pubescence: L. Tawny	Pod Color: Tan

Descriptions:

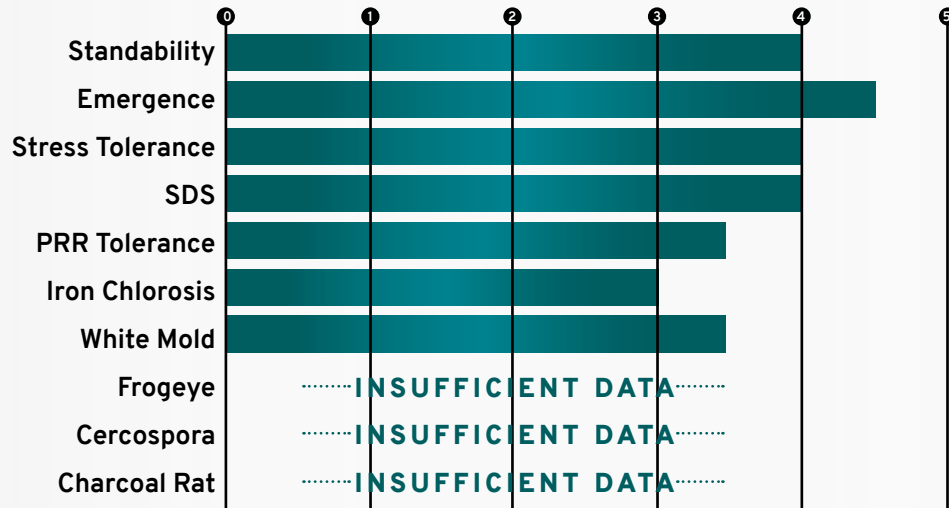
- Yield Champion, game changer for E3 late group III
- This one proved itself in 2022 yield trials across Ohio
- Defensive package - RPS1C with very good field tolerance for PRR and Frogeye
- Medium-tall, light tawny/tan, wider, more aggressive plant style
- This one looks really, really good! This will be a focus product in 2024!

SG-3063XF



Agronomic/Disease Ratings

Group: 3.0 days



Height: **Tall** Plant Style: **Intermediate Bush** BSR Tolerance: **NG**
 PRR Gene: **Rsp1c3a** SCN: **PI 88.788** Stem Canker: **R**
 Flower: **Purple** Pubescence: **Gray** Pod Color: **Brown**

Descriptions:

- Yield upgrade from SG-2962XF and SG-3162XF
- Great emergence and very good standability with this taller plant
- Has Rps1c3a PRR stack for those tough PRR soils
- Very strong tolerance for Sudden Death Syndrome and brown stem rot

SG-3462XF



Agronomic/Disease Ratings

Group: 3.3 days



Height: **Med-Tall** Plant Style: **Intermediate Bush** BSR Tolerance: **R**
 PRR Gene: **Rps1c** SCN: **PI 88.788** Stem Canker: **R**
 Flower: **Purple** Pubescence: **Gray** Pod Color: **Brown**

Descriptions:

- Medium-tall plant height with very good standability
- Rps1c PRR gene with average field tolerance
- Excellent emergence and brown stem rot and cyst resistance
- Strong high-yielding line made for Ohio, "Buckeye Bean"

SOYBEAN VARIETIES

SG-3663XF



Agronomic/Disease Ratings

Group: 3.6 days



Height: Med	Plant Style: Intermediate	BSR Tolerance: R
PRR Gene: Rps1c	SCN: PI 88.788	Stem Canker: R
Flower: Purple	Pubescence: Gray	Pod Color: Brown

Descriptions:

- Medium height mid-III soybean
- SCN Resistant, PRR Rps1c with above average field tolerance
- Very good standability, fits a lot of different acres
- Very sharp harvest appearance

Graph Key:

1=Fair 2=Average 3=Good 4=Very Good 5=Excellent



SHUR GROW®



SOYBEAN CHARACTERISTICS

VARIETY	Maturity	Enlist E3®	XtendFlex®	Plant Height	Plant Style	BSR	PRR Gene	SCN	Stem Canker	Flower	Pubescence
SG-2554E	2.5	✓		M	M	R	Rps1c	PI88.788	R	Purple	Gray
SG-2753E	2.7	✓		MT	M	R	Rps1c	PI88.788	R	Purple	Gray
SG-2954E	2.9	✓		MT	M	NG	NG	PI88.788	R	Purple	Gray
SG-3053E	3	✓		MT	MT	NG	Rps1c	PI88.788	R	Purple	Gray
SG-3284E	3.2	✓		M+	M	R	Rps1k	PI88.788	R	Purple	L. Tawny
SG-3454E	3.4	✓		M+	MB	R	NG	PI88.788	R	Purple	Gray
SG-3652E	3.6	✓		MT	M	R	Rps1k	PI88.788	R	Purple	L. Tawny
SG-3853E	3.8	✓		MT	B	R	Rps1c	PI88.788	R	White	L. Tawny
SG-3063XF	3		✓	T	MB	NG	Rps1c3a	PI88.788	R	Purple	Gray
SG-3462XF	3.3		✓	MT	MB	R	Rps1c	PI88.788	R	Purple	Gray
SG-3663XF	3.6		✓	M	M	R	Rps1c	PI88.788	R	Purple	Gray

These ratings reflect trends observed in research trials that change with variations in rainfall, temperature, crop production patterns and other factors. Ratings on new varieties are based on limited data and may change as more data is collected.

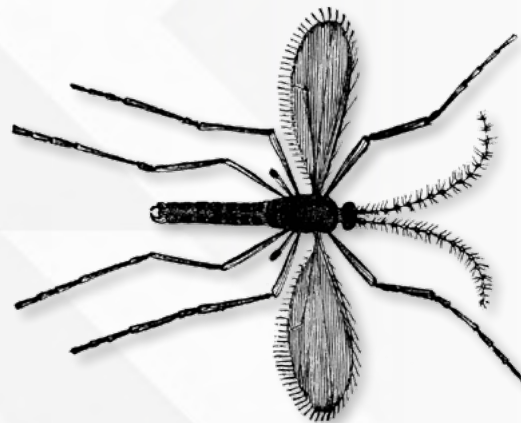
Pod Color	Standability	Emergence	Stress Tolerance	SDS	PRR Tolerance	Iron Chlorosis	White Mold	Frogeye	Cercospora	Charcoal Rot	VARIETY	
Brown	3.5	4.5	4	4	4	4	3.5	3	N/A	N/A	N/A	SG-2554E
Tan	4	4	4	4	4	4	3.5	3.5	3.5	3.5	3.5	SG-2753E
Brown	3.5	4.5	4.5	3.5	4.5	4.5	3.5	3.5	3.5	3.5	3.5	SG-2954E
Brown	4.5	4	4.5	3.5	4.5	4.5	3.5	3.5	3.5	3.5	3.5	SG-3053E
Brown	3.5	4	4.5	4	4	4	3.5	3.5	3.5	3.5	4	SG-3284E
Brown	3.5	4.5	4.5	4.5	4.5	4.5	3.5	N/A	3.5	3.5	3.5	SG-3454E
Brown	3.5	4	4	4	4	4	3.5	3.5	3.5	N/A	4	SG-3652E
Tan	3.5	4	4	4	3.5	4	3.5	3	4	4	3.5	SG-3853E
Brown	4	4.5	4	4	4	3.5	3	3.5	N/A	N/A	N/A	SG-3063XF
Brown	4	4.5	3.5	3	3	3	4	3.5	N/A	N/A	N/A	SG-3462XF
Brown	4.5	4	4	3	3	3.5	3	3.5	N/A	N/A	N/A	SG-3663XF

Plant Height: S = Short, M = Medium, T = Tall
 Canopy: T = Thin, M = Intermediate, B = Bush, R = Resistant, NG = No Gene
 Scale: 1 = Fair, 2 = Average, 3 = Good, 4 = Very Good, 5 = Excellent

WHEAT PLANTING GUIDE

SHUR GROW®

Shur Grow Seeds have been part of the Heritage story for over 60 years, providing our members with premium genetics and seed traits. Shur Grow was first introduced to Ohio farmers in the early 1960s by The Ohio Grain Company. In 1984, the brand released its first exclusive genetics. In 1992, Champaign Landmark, Inc. acquired the brand, which opened doors to innovative technologies and plant breeding that broadened the Shur Grow brand lineup. We are proud of the long history and dependable performance of the Shur Grow seed line.



Hessian Fly-Free Date

By Date and County

Wheat sown on, or after, the date indicated for each county will escape most egg deposition by the fall brood of Hessian Flies. Egg-laying is completed within the 2-to 3-day female lifespan. Therefore, it is important to time autumn wheat sowing to escape most egg deposition on the plants.

Wheat Planting Guide

Seeding Rate Chart

Pounds of Seed Needed Per Acre

Millions Of Seeds/Ac Seed Per Pound	1.2	1.4	1.6	1.8	2.0
10,000	120	140	160	180	200
11,000	109	127	145	164	189
12,000	100	116	133	150	167
13,000	92	108	123	138	154
14,000	85	100	114	129	143
15,000	80	93	107	120	133
16,000	75	88	100	113	125
17,000	71	82	94	106	118
18,000	66	77	89	100	111

Average Seeding Rate:

1.6 million seeds per acre. Adjust accordingly for variable soil conditions.

For Best Results:

- Plant 1.4 to 1.6 million seeds per acre during the two weeks following the fly-free date.
- Plant 1.6 to 2.0 million seeds per acre the third and fourth weeks following the fly-free date.

WHEAT TREATMENTS

SEED TREATMENTS				
Treatment Package	Custom Treatment (bulk)			Optional add-on
	Disease	Bio Stimulant	Insecticide	
Shur Coat Max	Warden Cereals II	Ascend SL	Resonate 480	Seed+Graphite
Shur Coat Plus	Warden Cereals II	Ascend SL		Seed+Graphite
Shur Coat Basic	Warden Cereals II			Seed+Graphite

Warden Cereals II:

Contains three fungicides (mefenoxam, sedaxane, difenconazole) with different modes of action for broad-spectrum control of diseases such as, but not limited to, Damping-Off, Seedling Blights, Root Rots, Rhizoctonia, Dwarf and other Bunts/Smuts.

Resonate 480:

Insecticide (imidacloprid) controls pests such as, but not limited to, aphids, hessian fly, wireworm, and grasshopper.

Ascend SL:

Contains three EPA registered plant growth regulators (cytokinin, gibberellic acid, indolebutyric acid) designed to provide vigorous early plant germination and emergence, a robust root system, larger leaves and wider stems.

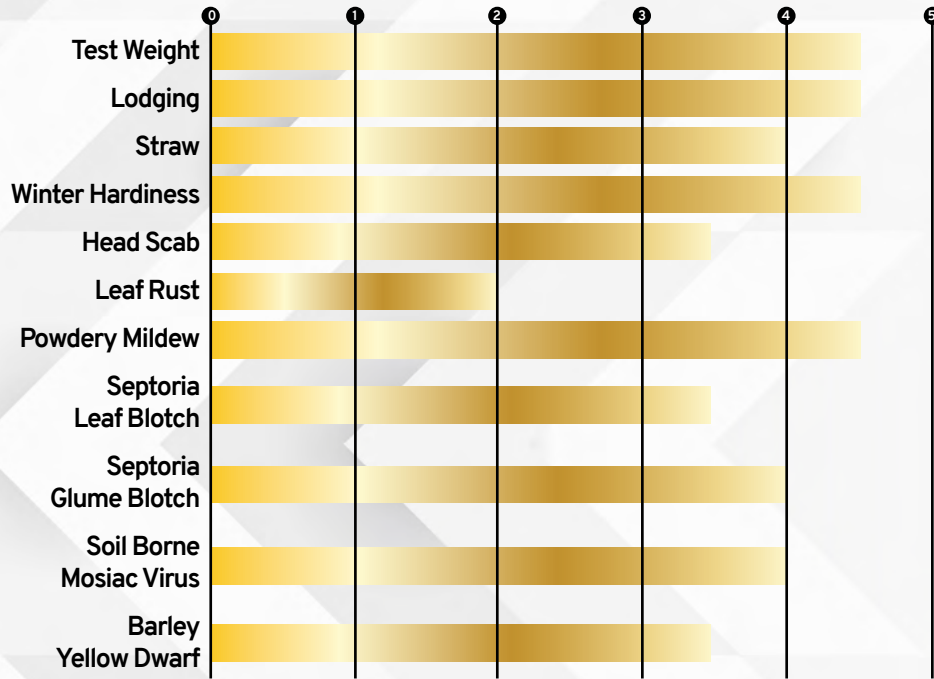
Seed+Graphite:

Contains three components (biostimulants, talc+graphite, nutrients) as a nutritional seed treatment/lubricant delivering efficiency at planting, a robust start for the crop, and defense against early-season stress.

WHEAT VARIETIES

SG-1546S

Agronomic/Disease Ratings



Maturity: **Med**
Head Type: **Awned**

Plant Height: **Med-Tall**
FHB: **FHB1**

Descriptions:

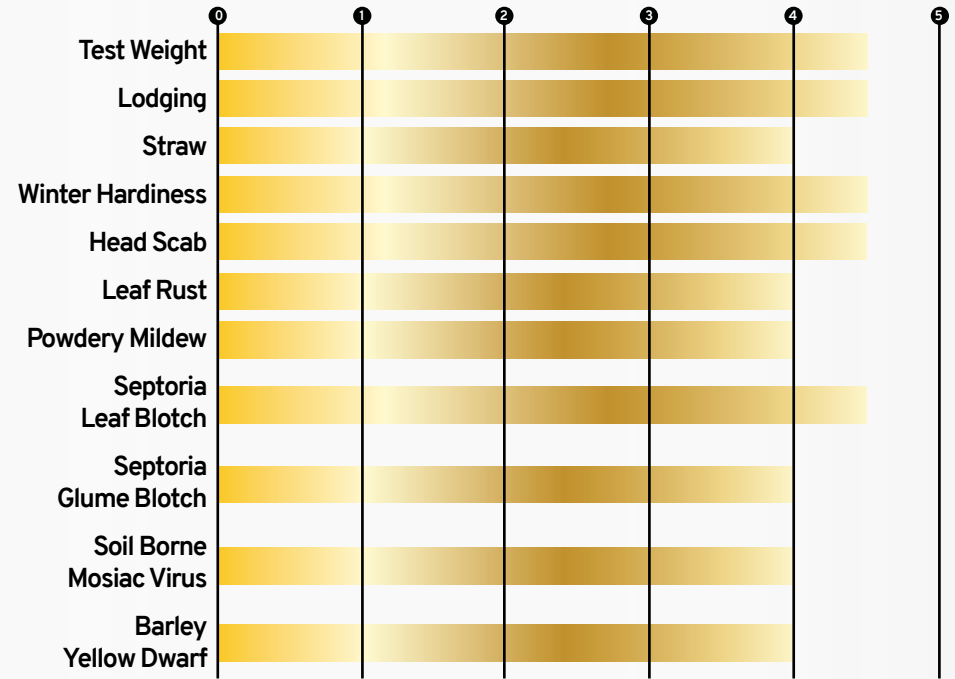
- Excellent test weight and winter hardiness
- Awned, medium-tall height with great stand
- Manage leaf rust for best results
- High management, high reward variety
- Top selling variety sold in 2020, 2021 & 2022

Graph Key:

1=Fair 2=Average 3=Good 4=Very Good 5=Excellent

SG-1547S

Agronomic/Disease Ratings



Maturity: **Med**
Head Type: **Awnless**

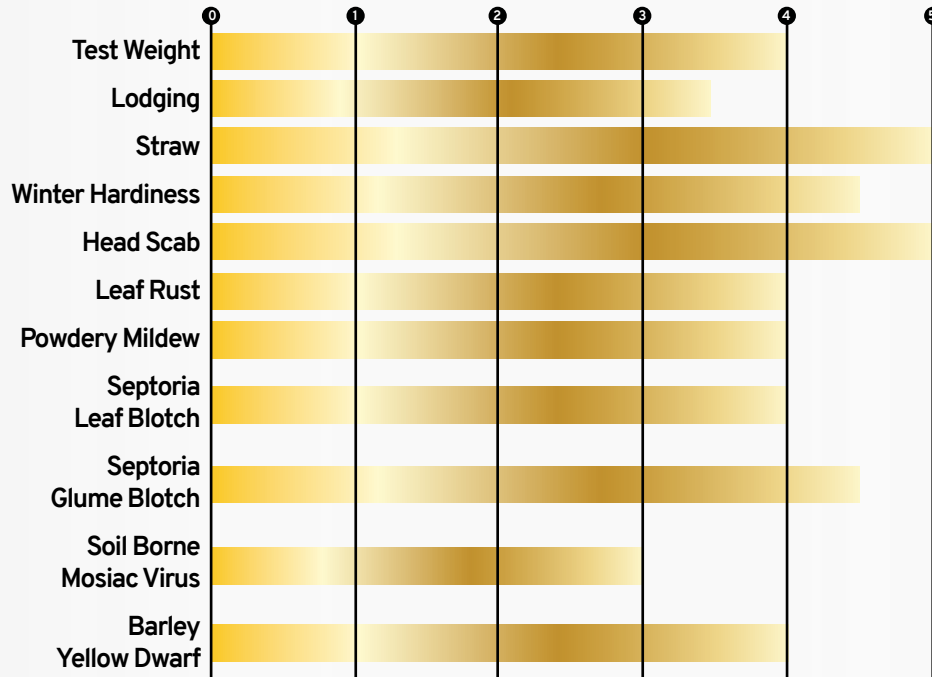
Plant Height: **Med**
FHB: **FHB1**

Descriptions:

- Excellent standability and test weight
- Smooth variety with excellent standability and test weight
- Stripe rust resistance with good straw height
- High-yielding wheat with great head scab resistance
- High volume variety sold in 2020, 2021 & 2022

SG-1551S

Agronomic/Disease Ratings



Maturity: **Early-Med**
Head Type: **Awnless**

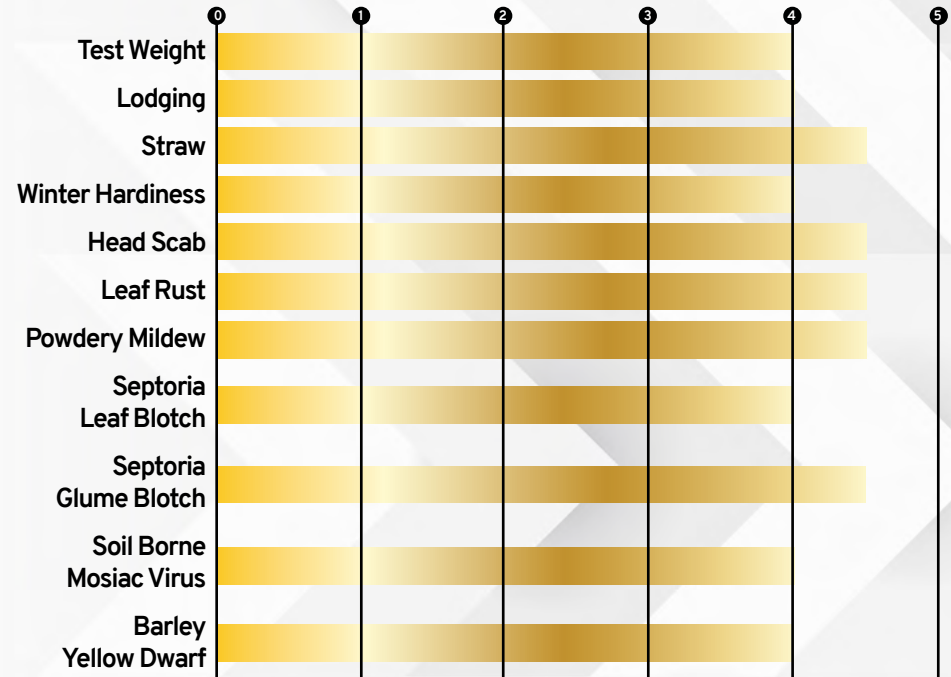
Plant Height: **Med-Tall**
FHB: **FHB1**

Descriptions:

- Tremendous yield and test weight for all soil types
- Manage population and Nitrogen
- Excellent winter hardiness with ability to handle stress
- Smooth variety with very good straw height
- 2021 & 2022, #2 seller and sold out early!

SG-1582S

Agronomic/Disease Ratings



Maturity: **Med**
Head Type: **Awned**

Plant Height: **Med**
FHB: **FHB1**

Descriptions:

- Go anywhere variety workhorse that performs!
- Solid disease and agronomic package
- #1 performer in nearly all of the Midwest/Eastern plots
- Push Nitrogen to maximize production
- Handles average yield environments



DEFEND LIKE A PRO

SmartStax[®] PRO is the next generation of corn rootworm control

SmartStax[®] PRO
TECHNOLOGY

The best way to minimize the risk of devastating crop damage is to help maximize control of corn rootworm below ground while protecting against above-ground pests. SmartStax[®] PRO Technology will provide three modes of action against corn rootworm for the strongest biotech defense* available in 2022.

WHAT SETS SMARTSTAX[®] PRO TECHNOLOGY APART

- Will be the first product with **THREE** modes of action for corn rootworm control
- Will combine the proven benefits of **SmartStax[®] Technology** with an additional, RNAi-based mode of action
- SmartStax PRO Technology will provide broad-spectrum control for **above- and below-ground pests as well as tolerance to glyphosate and glufosinate herbicides**

QUANTIFYING THE DAMAGE

Root damage is primarily caused by corn rootworm larval feeding. Every root node nibbled by larvae can result in a yield loss of approximately 15%.¹ In addition, root lodging can impede harvesting, further reducing grain yield by 15%–34%.²

HEALTHY ROOT



DAMAGED ROOT
15%-34% Yield Loss
Root Damage by
corn rootworm

PROVEN PROTECTION FOR ABOVE- AND BELOW-GROUND PROTECTION

Multiple modes of action give corn plants the protection they need against major pests that can inflict serious crop damage.



CORN ROOTWORM
(NORTHERN & WESTERN)



EUROPEAN CORN BORER



SOUTHWESTERN
CORN BORER



CORN EARWORM



FALL ARMYWORM



BLACK CUTWORM

1. Journal of Applied Entomology 137 (2103): Validation of a nested error component model to estimate damage caused by corn rootworm larvae. N.A.Tinsley, R.E.Estes & M.E.Gray.

2. Spike BP, Tolleson JJ, 1991. Yield response of corn subjected to western corn rootworm (Coleoptera:Chrysomelidae) infestation and lodging. J. econ Entomol. 84, 1585-1590.

* Based upon 2019-2020 Bayer internal trials comparing leading corn rootworm technologies in fields with moderate to heavy corn rootworm pressure.

THE SYSTEM OF CHOICE



ROUNDUP READY
X TEND
CROP SYSTEM

X TENDFLEX
SOYBEANS



WEED CONTROL

Triple tolerance allows control of over 335+ weed species²

When used with XtendiMax herbicide with VaporGrip® Technology, get up to 14 days of soil activity on certain small-seeded broadleaf weeds³

YIELD. WEED CONTROL. FLEXIBILITY

You want high-yielding performance. You also need innovative options for managing tough weeds. XtendFlex® soybeans offer proven performance and herbicide tolerance to dicamba, glyphosate and glufosinate. That's what makes the Roundup Ready® Xtend Crop System the #1 soybean system planted by farmers in the U.S.*

Here's what farmers are saying...

“ We plan to continue growing XtendFlex soybeans on our operation due to the versatility of the chemical program and the advanced traits.

Brett V., Odessa, MO

“ We like the genetics that come with XtendFlex [soybeans], and it's not all about spray either — it's about yield, and that's what we want.

Larry N., Windom, MN

TRIPLE TOLERANCE



See what more farmers are saying about their System of Choice at RoundupReadyXtend.com/Testimonials



YIELD

Average 2.5+ bu/A yield advantage over Enlist® weed control system when used as part of the Roundup Ready® Xtend Crop System¹

*Traited U.S. acres

¹ 2021 Farmer Managed Soybean System Trials (67 locations in 2021 reporting data located with 12-IA, 11-IL, 9-IN, 4-KS, 3-MI, 9-MN, 1-ND, 8-NE, 5-OH, 2-PA, 1-SD, 2-WI). Significant at P ≤ 0.05 LSD at 1.2 Bu/A as of 11/29/2021. Roundup Ready® Xtend Crop System data = XtendFlex® soybeans with a farmer-selected weed control program that may include dicamba, glyphosate and various residual herbicides. Enlist™ Weed Control System data = Enlist E3® soybeans with a farmer-selected weed control program that may include glyphosate, Enlist One® herbicide, Liberty® 280 SL herbicide and various residual herbicides.

² Based on approved EPA herbicide labels for the herbicides recommended for use in each system as of January 2021.

³ Results may vary, depending on rainfall and soil type. Always use dicamba with residual herbicides in pre-emergence and postemergence applications that have different, effective sites of action, along with other Diversified Weed Management Practices.

Bayer is a member of Excellence Through Stewardship® (ETS). Bayer products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with Bayer's Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. Commercialized products have been approved for import into key export markets with functioning regulatory systems. Any crop or material produced from this product can only be exported to, or used, processed or sold in countries where all necessary regulatory approvals have been granted. It is a violation of national and international law to move material containing biotech traits across boundaries into nations where import is not permitted. Growers should talk to their grain

handler or product purchaser to confirm their buying position for this product. Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship. XtendiMax® herbicide with VaporGrip® Technology is part of the Roundup Ready® Xtend Crop System, is a restricted use pesticide and must be used with VaporGrip® Xtra Agent (or an equivalent vapor reducing agent). For approved tank-mix products (including VRAs and DRAs), nozzles and other important label information visit XtendiMaxApplicationRequirements.com.

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. It is a violation of federal and state law to use any pesticide product other than in accordance with its labeling. NOT ALL formulations of dicamba, glyphosate or glufosinate are approved for in-crop use with products with XtendFlex® Technology. ONLY USE FORMULATIONS THAT ARE SPECIFICALLY LABELED FOR SUCH USES AND APPROVED FOR SUCH USE IN THE STATE OF APPLICATION. Contact the U.S. EPA and your state pesticide regulatory agency with any questions about the approval status of dicamba herbicide products for in-crop use with Roundup Ready 2 Xtend® soybeans or products with XtendFlex® Technology. Products with XtendFlex® Technology contains genes that confer tolerance to glyphosate, glufosinate and dicamba. Glyphosate will kill crops that are not tolerant to glyphosate. Dicamba will kill crops that are not tolerant to dicamba. Glufosinate will kill crops that are not tolerant to glufosinate. Contact your seed brand dealer or refer to the Bayer Technology Use Guide for recommended weed control programs. Bayer, Bayer Cross, Roundup Ready 2 Xtend®, Roundup Ready 2 Yield®, Roundup Ready® and XtendFlex® are registered trademarks of Bayer Group. LibertyLink® and the Water Droplet Design® is a trademark of BASF Corporation. ©2022 Bayer Group. All rights reserved.





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