2025 SEED GUIDE

Seed Consultants
Simply Better

WE KNOW WHERE YOU GROW

Seed Consultants sales professionals are, first and foremost, consultants. We know the eastern Corn Belt and strive to help you capture the most value from our seed through local experience with product placement and management. Our corn hybrids and soybean varieties are developed, tested and proven to perform here and they contain the high yield potential, traits and defensive characteristics eastern Corn Belt farmers need to succeed.

At Seed Consultants, we deliver better service, better products and traits, and uncomplicated pricing and discounts for the eastern Corn Belt. That's Simply Better.

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NATIONAL CORN YIELD CONTEST

SEED CONSULTANTS, INC.
2025 National Corn Growers Association YIELD CONTEST

2025 — NATIONAL WINNER AWARDS

(winning Seed Consultants entries only)

1st — Trip for two to the 2026 Commodity Classic in San Antonio, TX
Prize of $10,000 in SC Brand Seed

2nd — Trip for two to the 2026 Commodity Classic in San Antonio, TX
Prize of $7,500 in SC Brand Seed

3rd — Trip for two to the 2026 Commodity Classic in San Antonio, TX
Prize of $5,000 in SC Brand Seed

2025 — STATE WINNER AWARDS

(winning Seed Consultants entries only)

1st — Trip for two to the 2026 Commodity Classic in San Antonio, TX
Prize of $1,000 in SC Brand Seed

2nd — Trip for two to the 2026 Commodity Classic in San Antonio, TX
Prize of $500 in SC Brand Seed

3rd — Trip for two to the 2026 Commodity Classic in San Antonio, TX

Important Details

- Winner receives highest level prize attained. One trip for two per winner.
- To be eligible for reimbursement and prizes grower grants Seed Consultants, Inc. the permission to use for all purposes the NCGA information as well as grower's name, pictures of grower and grower's property.
- Awards from Seed Consultants are not transferable or be transferred for cash.
- Entrants must hold a current membership in the National Corn Growers Association and his/her state associations to qualify.
- Trip includes 4 nights hotel accommodations, coach class airline tickets, registration to the Commodity Classic, and dinner with SCI representatives.
- The membership must be in the exact name as on the entry form.
- Taxes, if applicable, are the sole responsibility of each prize winner.
- Fill out the NCGA Yield Contest entry form and submit, before their final postmark deadline. Contest rules and all forms needed to enter will be available at www.ncga.com or contact Seed Consultants at 800-708-2676.
- Fill out entry form for NCYC and submit form (one copy to NCGA and one copy to Alissa Armstrong), send in no money SCI picks up entry fee and membership dues for grower.

Questions – contact SCI-NCGA Yield Contest Lead, Alissa Armstrong

FINANCING

SEED CONSULTANTS, INC.

TWO GREAT FINANCING CHOICES FOR 2024-2025
0% THROUGH JOHN DEERE FINANCIAL
0% THROUGH RABO AGRIFINANCE

These financing programs are only available to John Deere Financial Preferred Customers and/or RABO AgriFinance approved customers. To apply for a John Deere Financial Preferred Account or RABO account or to increase your John Deere Financial or RABO line of credit, contact John Deere Financial (800-433-8964) or RABO (888-395-8505), so the necessary paperwork may be completed with John Deere Financial &/or RABO.

JOHN DEERE FINANCIAL & RABO GUIDELINES

- Must be a John Deere Financial Preferred Customer or approved by RABO AgriFinance.
- Approval and credit limits established by John Deere Financial &/or RABO...not by SCI.
- Terms and conditions apply. See respective credit applications for full terms and disclosures.
- To increase or establish your credit line call John Deere Financial (800-433-8964) or RABO (888-395-8505).
- Must be enrolled and approved to qualify for discounts.
- Discounts applied on approval date from John Deere Financial &/or RABO.
- Signed terms of disclosure on file.
- Minimum purchase of $1,000.
- Due date of December 2025.

For John Deere Financial customers with current special terms balances at or near their credit limit, they may have an option to enable their seed purchase now and lock in their order. Contact your SCI Seedsman for details.

	DISCOUNT SCHEDULE	
Finance Plan	**John Deere Financial**	**RABO**
Purchase & Approval Date	Fixed 0%	Fixed 0%
August 2024	7.0%	7.0%
September 2024	4.5%	4.5%
October 2024	3.5%	3.5%
November 2024	2.5%	2.5%
December - January 10, 2025	1.0%	1.0%
January 2025	0.0%	0.0%
February 2025	0.0%	0.0%
March 2025	0.0%	0.0%
April 2025	0.0%	0.0%
May 2025	0.0%	0.0%
In Season	0.0%	0.0%

St. Maarten

SEED CONSULTANTS
2025 CUSTOMER TRIP

JANUARY 19-25

ST. MAARTEN TRIP PACKAGE

- 7 Days, 6 nights accommodation in Junior Suites at the Sonesta Ocean Point Resort
- Breakfast, lunch, dinner & snacks at your choice of restaurants on property
- Alcoholic and non-alcoholic drinks, bottled water, specialty coffees and teas at all the food and beverage outlets
- Private Welcome Party for SCI
- Private Farewell Party for SCI
- Round-Trip transportation to Orient Beach for a day
- Round-Trip Airport Transfers
- Complimentary Wi-Fi in the public areas and guest rooms
- Mini-bar refreshments: bottled water, soft drinks and beer
- 24-Hour Room Service
- Fitness Center and Daily Activities
- All Taxes, Fees and Gratuities at the Resort

SONESTA OCEAN POINT

Sonesta Resorts St. Maarten is a duo of stunning ocean-front, all-inclusive properties.

Each of the 130 luxurious suites at the Sonesta Ocean Point Resort face the ocean and feature a chic contemporary design.

With a white sandy beach, beach cabanas, and snorkeling, this property is the perfect place to soak up some sun. Indulge in a hot stone massage, body wrap, and a facial at the Serenity Spa. Be sure to enjoy a meal at any of the restaurants which feature a wide variety of cuisines and ocean views. Several bars, multiple pools, state-of-the-art fitness center, and nightly entertainment are available for guests to enjoy.

This award-winning resort is just minutes from beaches, nightlife, shopping, golf and Casino Royale – the largest gaming emporium and theater on the island.

Trip Cost (Excluding Air) at Sonesta Ocean Point Resort:

- Single Occupancy: $3,621.00 (1 Adult in a Room)
- Double Occupancy: $4,852.00 (2 Adults sharing a Room)
- Maximum capacity in a guest room is two regardless of age.

SIGN UP ONLINE NOW VIA THE LINK ON WWW.SEEDCONSULTANTS.COM

Air Costs:

- Air is not included with the above trip costs, but must be booked through MTI Events in to order to attend the trip.
- If attendee wishes to check current airfare rates before registering and submitting the non-refundable deposit, they may call MTI Events at 913-438-2600 x 118. Hours are Monday – Friday, 9:00 AM – 5:00 PM EST. Airfare rates are subject to change until ticketed.
- After registration has been submitted and non-refundable deposit received, MTI Events will email the attendee with flight options and costs. There are no restrictions on fares or departure city.
- Attendee is responsible for any costs associated with flight changes.
- Airline points may be used to book airfare. Tickets must be booked directly with the airline. MTI has no control over frequent flier seat availability.

Payments:

- $500 (per person) non-refundable deposit due after online registration and before air is booked.
- Full trip payment is due by Friday, November 22, 2024 and is non-refundable.

All checks should be for trip expenses only and made payable to
MTI Events • ATTN: Alyssa Hunter
10400 W. 103rd Street, Suite 10
Overland Park, KS 66214

MEETING PLANNER CONTACT INFORMATION:
Phone: 913-438-2600
Hours: Monday – Friday 9A – 5P EST
alyssa@mtievents.com


CORN
SEED CONSULTANTS | SIMPLY BETTER

CORN

	RM	EMERGENCE/ VIGOR	ROOTS	STALKS	PLANT HEIGHT	EAR HEIGHT	DROUGHT TOLERANCE	STAYGREEN
SC 833™ brand	83	5	6	6	M-T	M	6	5
SC 841™ brand	84	5	6	6	M	M	8	5
SC 851™ brand	85	4	6	7	M	M-H	6	7
SC 864™ brand	86	5	6	5	M	M	7	5
SC 893™ brand	89	5	6	5	M	M	6	6
SC 901™ brand	90	4	7	4	M	M	5	7
SC 931™ brand	93	6	6	5	M	M	6	4
SC 951™ brand	95	5	6	5	M-S	M-L	6	7
SC 952™ brand	95	7	5	6	T	H	5	4
SC 964™ brand	96	6	6	6	M	M-L	7	5
SC 965™ brand	96	5	7	8	M-T	M-H	7	7
SC 973™ brand	97	5	8	5	M	M	6	6
SC 981™ brand	98	6	5	8	T	H	5	3
SC 1003™ brand	100	6	5	5	M-T	M	7	6
SC 1018™ brand	101	6	7	6	M	M	9	5
SC 1042™ brand	104	6	5	6	M	M	9	5
SC 1043™ brand	104	5	7	7	M-T	M-H	8	8
SC 1053™ brand	105	7	5	5	M	M	9	6
SC 1054™ brand	105	7	5	7	M	M	7	6
SC 1055™ brand	105	5	7	6	M	M	6	6
SC 1069™ brand	106	5	8	3	M	M	9	5
SC 1071™ brand	107	7	6	5	M-S	M	6	5
SC 1084™ brand	108	7	7	6	M	M	6	7
SC 1087™ brand	108	6	6	8	M	M	7	6
SC 1093™ brand	109	6	6	6	M-T	M	6	7
SC 1094™ brand	109	6	5	5	M	M	7	7
SC 1105™ brand	110	5	6	6	M-T	M	6	7
SC 1112™ brand	111	6	4	6	M	M	6	7
SC 1122™ brand	112	6	5	6	M-T	M	7	8
SC 1135™ brand	113	6	6	6	M	M	8	7
SC 1136™ brand	113	4	8	7	M-T	M-H	6	7
SC 1139™ brand	113	6	6	5	M-S	M	7	8
SC 1154™ brand	115	5	6	6	M	M	7	7
SC 1158™ brand	115	6	7	8	M-T	M-H	7	8
SC 1170™ brand	117	5	4	4	M-T	M-H	7	5
SC 1183™ brand	118	5	6	8	M-T	M	7	6
SC 1185™ brand	118	6	6	7	M	M	7	7

AGRONOMIC RATINGS KEY:

9 = Best
1 = Worst

S = Short
M = Medium
T = Tall

H = High
NR = Not Rated

EAR TYPE:
Flex = Flex Ear
Det = Determinant
Semi = Semi-flex

SOIL TYPE:
R = Recommended
HR = Highly Recommended

Agronomic Ratings 1 to 9 with 9 being the best

Roundup Ready® Corn 2 (RR2), Herculex® I (HX), Herculex® XTRA (HXX), a Bt trait (YGCB), LibertyLink® (LL), Rootworm (RW)

TEST WEIGHT	EAR FLEX	HUSK COVER	KERNEL ROWS	SEEDING RATE	NITROGEN APPLICATION	CORN AFTER CORN	LESS PRODUCTIVE SOIL	MODERATELY PRODUCTIVE SOIL	HIGHLY PRODUCTIVE SOIL
4	FLEX	3	14-16	M-L	2	6	R	R	R
4	SEMI	6	16-18	M	1	6	HR	HR	HR
6	SEMI	5	14-16	M	1	7	HR	HR	HR
5	SEMI	6	14-16	M	2	7	HR	HR	HR
7	SEMI	3	14-16	M-H	1	6	R	HR	HR
5	SEMI	5	14-16	M	1	6	R	HR	HR
6	SEMI	6	14-16	M	2	8	HR	HR	HR
4	SEMI	7	14-16	M	2	6	HR	HR	HR
4	SEMI	5	14-16	M	3	8	R	R	R
5	SEMI	5	16-18	M	2	8	HR	HR	HR
4	SEMI	4	14-16	M	2	7	HR	HR	HR
6	SEMI	6	16-18	M	2	5	HR	HR	R
4	SEMI	5	14-16	M	1	6	R	HR	HR
6	FLEX	5	14-16	M-L	2	7	R	HR	HR
6	SEMI	5	16-18	M-H	2	7	HR	HR	HR
5	SEMI	6	16-18	M-H	3	7	HR	HR	HR
6	SEMI	5	16-18	M-H	2	7	R	R	R
6	SEMI	6	16-18	M-H	2	7	HR	R	R
5	SEMI	6	16-18	M	3	7	R	HR	HR
5	FLEX	6	16-18	M-L	2	7	R	HR	HR
6	SEMI	4	16-18	H	2	5	R	R	R
6	FLEX	6	16-18	M-L	2	6	R	HR	HR
6	SEMI	6	18-20	M-H	3	7	R	HR	HR
6	SEMI	5	16-18	M	3	6	HR	HR	HR
6	SEMI	7	14-16	M	3	7	HR	HR	HR
6	SEMI	6	16-18	M	2	8	HR	HR	HR
6	SEMI	7	18-20	M	3	6	R	HR	HR
6	FLEX	7	16-18	M	3	8	R	HR	HR
6	SEMI	6	16-18	M-H	3	7	HR	HR	HR
6	SEMI	7	16-18	M	2	6	HR	HR	HR
6	FLEX	3	18-20	M-L	3	6	R	R	R
7	SEMI	7	16-18	M-H	2	7	HR	HR	R
6	SEMI	7	16-18	M-H	2	8	HR	HR	HR
6	SEMI	7	14-16	M-H	3	6	HR	R	R
5	FLEX	7	16-18	M-L	3	6	HR	HR	R
5	SEMI	7	16-18	M	3	6	HR	HR	HR
6	SEMI	6	16-18	M-L	3	9	HR	HR	HR

NITROGEN CLASSIFICATION

Category 1 Hybrids--flower early for maturity; take up N early; flourish in a weed and feed program; derive less benefit from side dress applications of N; do relatively well at moderate N rates.
Category 3 Hybrids--flower somewhat later; longer grain fill; take up N over a longer period; and derive the most benefit from side dress applications of N as well as higher N rates.
Category 2 Hybrids--Work well in management programs that include either preplant or side dress N applications.

IMPORTANT: Trait rating scores provide key information useful in selecting and managing products in your area. Information and ratings are based on comparisons with other products sold by SCI. Information and scores are assigned by SCI and are based on period-of-years testing through 2023 harvest and were the latest available at time of printing. Some scores may change after 2024 harvest. Scores represent an average of performance data across areas of adaptation, multiple growing conditions and a wide range of both climate and soil types and may not predict future results. Individual product responses are variable and subject to a variety of environmental, disease and pest pressures. Please use this information as only one component of your product positioning decision.

2025 Corn Seed Treatment Portfolio

The 2025 LumiGEN® seed treatments corn portfolio maximizes yield potential by protecting elite corn genetics. With a unique, industry-leading combination of ingredients, the portfolio offers early-season corn protection from diseases, insects and harmful nematodes.

FUNGICIDE SEED TREATMENT

Lumiscend™ Pro fungicide treatment

- Most robust fungicide seed treatment available in the industry with a 1-3 bu/A advantage[1]
- Provides enhanced disease protection with multiple modes of action, including metalaxyl-resistant *Pythium* species
- Unique active ingredient, inpyrfluxam, against *Rhizoctonia* and *Fusarium*

Lumiflex™ fungicide seed treatment

- Provides proven early season protection against seed- and soil-borne diseases, including *Rhizoctonia* and *Fusarium*
- Also provides unparalleled protection against head smut

INSECTICIDE SEED TREATMENTS

Premium Package

Lumisure® 250 insecticide seed treatment

- Proven insecticide with broad-spectrum activity

+

Lumivia® 250 insecticide seed treatment

- Enhances control and pest spectrum, including fall armyworm, black cutworm, seed corn maggot, wireworm and white grub

Enhanced CRW Package

Lumisure® 1250 insecticide seed treatment

- Added protection against corn rootworm for improved stand establishment and lodging

NEMATICIDE SEED TREATMENT

Lumialza® nematicide seed treatment

- Expanding bio-barrier shields roots
- 80+ days of root growth protection
- Activity against all harmful corn nematode species

Lumialza Advantage over FST/IST

9.0 bu/a YIELD ADVANTAGE[2] in high nematode pressure

3.7 bu/a YIELD ADVANTAGE[2] in low nematode pressure

BIOLOGICAL

L-2012 R bio-fungicide (Exclusive to Corteva Agriscience)

- Bio-fungicide protection
- Provides an enhanced root environment, allowing increased root mass and healthier roots
- Improved nutrient uptake

	PREMIUM PACKAGE	ENHANCED CORN ROOTWORM PACKAGE
Fungicide seed treatment		
Lumiscend™ Pro (inpyrfluxam, ethaboxam, metalaxyl)	●	●
Lumiflex™	●	●
L-2012 R biofungicide	●	●
Insecticide/Nematicide seed treatments		
Lumivia® 250	●	
Lumisure® 250	●	
Lumisure® 1250		●
Lumialza® nematicide	●	●

CORTEVA™ agriscience

LUMIALZA® NEMATICIDE SEED TREATMENT

Early-season key nematode protection

Lumialza®
NEMATICIDE SEED TREATMENT

Shields roots from all key nematode species, including **sting, root-knot, needle, dagger, lance, lesion** and **stubby-root**

- 80+ days of root protection in all root zones
- Yield advantage in low- and high-pressure environments
  - Up to **9 bu/A** yield advantage under heavier nematode pressure[3]
  - **3.7 bu/A** average yield advantage under low nematode pressure[3]

Lumialza® Bio-barrier

Non-nematicide **Lumialza®**

Insecticide Seed Treatments Characterization

Pest	Premium Package Lumialza® bio-nematicide Lumivia® 250 Lumisure® 250	Enhanced CRW Package Lumialza® bio-nematicide Lumisure® 1250	Bayer Option Poncho® Votivo® 500	Cruiser® 500
Corn Nematodes	+++	+++	++	–
Wireworm	+++	++++	+++	+++
Cutworm	++++	++	+*	+*
Fall Armyworm	++++	–	–	–
Seed Corn Maggot	+++	+++	+++	+++
White Grub	+++	++++	+++	+++
Grape Colaspis	+++	+++	++	++
Billbug	++	+++	–	–
Flea Beetle	++	+++	+++	+++
Corn Rootworm	–	++	–	–

LumiGEN Seed Treatments

- No control
+ Feeding reduction ++ Average protection +++ Above average protection ++++ Excellent protection
* labeled for control

Lumialza® NEMATICIDE SEED TREATMENT | Lumisure® INSECTICIDE SEED TREATMENT | Lumivia™ INSECTICIDE SEED TREATMENT | Lumiscend™ Pro FUNGICIDE SEED TREATMENT | Lumiflex™ SEED TREATMENT FUNGICIDE

Components of LumiGEN® seed treatments are applied at a Corteva Agriscience production facility, or by an independent sales representative of Corteva Agriscience or its affiliates. Not all sales representatives offer treatment services, and costs and other charges may vary. See your sales representative for details. Seed applied technologies exclusive to Corteva Agriscience and its affiliates.

[1] 2020-2022 Corteva research trials in 80 locations.

[2] Lumialza® nematicide seed treatment vs. non-nematicide seed treatment utilizing the same insecticide and fungicide recipe in seed applied technology replicated and strip trial data. Yields ranged from 3 to 9 bu/a depending on nematode species and population, in 184 low stress and 54 moderate to high stress locations.

The information descried in the characterization chart is based on a review of product labels. These comparisons include one rate. Additional seed treatment options are available with all brands compared.

One or more of these products may not be registered for sale or use in all states. Contact your local Corteva Agriscience® retailer or representative for details and availability in your state. The information presented here is not an offer for sale. This presentation is not intended as a substitute for the product label for the product(s) referenced herein.

The information contained in this technical presentation is based on the latest to-date technical information available to Corteva Agriscience, and Corteva reserves the right to update the information at any time.

Cruiser® is a registered trademark of Syngenta.

Poncho® is a registered trademark of BASF.

CORTEVA™ agriscience

NUMBERING NOMENCLATURE

SC CORN NUMBERING NOMENCLATURE

IF 4 DIGITS – 1st 3 digits designate maturity and last digit the year of release
Example: SC 1105PCE™ brand 110 day maturity and 2025 release
IF 3 DIGITS 1st 2 digits designate maturity and last digit the year of release
Example: SC 864Q™ brand 86 day maturity and 2024 release

SC SOYBEAN NUMBERING NOMENCLATURE

All traited varieties
1st digit – herbicide tolerance
2nd & 3rd digits – maturity
4th digit – year of release
Example: SC 7485™ brand - 7-Enlist variety; 4.8 (late group 4); and 2025 release

CORN KEY

CONV	Conventional (Non-GMO, Organic)
AMXT	Optimum® AcreMax® XTreme (AMXT) insect protection
AM	Optimum® AcreMax® (AM) insect protection
HR	Herculex® I insect protection, LibertyLink® trait, Roundup Ready® Corn 2 technology
R	Roundup Ready® Corn 2 technology
AQUA	Optimum® AQUAmax® hybrids
Q	Qrome® products
SSE	SmartStax® Enlist® technology
PCE	Powercore® Enlist® Refuged Advanced corn products
V	Vorceed® Enlist® corn products

Agrisure® *is a registered trademark of, and used under license from, a Syngenta Group Company. Agrisure® technology incorporated into these seeds is commercialized under a license from Syngenta Crop Protection AG.*

Q (Qrome®) *Contains a single-bag integrated refuge solution for above- and below-ground insects. The major component contains the Agrisure® RW trait, the Bt trait, and the Herculex® XTRA genes. In EPA-designated cotton growing counties, a 20% separate corn borer refuge must be planted with Qrome products. Qrome® products are approved for cultivation in the U.S. and Canada. They have also received approval in a number of importing countries, most recently China. For additional information about the status of regulatory authorizations, visit http://www.biotradestatus.com/.*

Liberty®, LibertyLink® *and the* ***Water Droplet logo*** *are trademarks of BASF Corporation. 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.*

Roundup Ready® *is a registered trademark used under license from Monsanto Company.*

AM - Optimum® AcreMax® Insect Protection system with YGCB, HX1, LL, RR2*. Contains a single-bag integrated refuge solution for above-ground insects.*

AMXT (Optimum® AcreMax® XTreme) *Contains a single-bag integrated refuge solution for above- and below-ground insects. The major component contains the Agrisure® RW trait, a Bt trait, and the Herculex® XTRA genes.*

In EPA-designated cotton growing counties, a 20% separate corn borer refuge must be planted with Optimum AcreMax and Optimum AcreMax XTreme products.

HX1 *Contains the Herculex® I Insect Protection gene which provides protection against European corn borer, southwestern corn borer, black cutworm, fall armyworm, lesser corn stalk borer, southern corn stalk borer, and sugarcane borer; and suppresses corn earworm.*
ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Roundup Ready® crops contain genes that confer tolerance to glyphosate, the active ingredient in Roundup® brand agricultural herbicides. Roundup® brand agricultural herbicides will kill crops that are not tolerant to glyphosate.

RR2 *Contains the Roundup Ready® Corn 2 trait that provides crop safety for over-the-top applications of labeled glyphosate herbicides when applied according to label directions.*

AQ Optimum® AQUAmax® product*. Product performance in water-limited environments is variable and depends on many factors, such as the severity and timing of moisture deficiency, heat stress, soil type, management practices and environmental stress, as well as disease and pest pressures. All products may exhibit reduced yield under water and heat stress. Individual results may vary.*

SmartStax® *multi-event technology developed by Corteva Agriscience and Monsanto. ®SmartStax and the SmartStax Logo are registered trademarks of Monsanto Technology LLC. Always follow IRM, grain marketing and all other stewardship practices and pesticide label directions. B.t. products may not yet be registered in all states. Check with your seed representative for the registration status in your state. Always read and follow label directions.*

POWERCORE® *is a registered trademark of Bayer Group. POWERCORE® multi-event technology developed by Corteva Agriscience and Bayer Group. Liberty®, LibertyLink® and the Water Droplet Design are registered trademarks of BASF. ®Roundup and Roundup Ready are registered trademarks of Bayer Group. Always follow IRM, grain marketing and all other stewardship practices and pesticide label directions. B.t. products may not yet be registered in all states. Check with your seed representative for the registration status in your state.*

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.

Vorceed® Enlist® *products with V, LL, RR, ENL. Contains a single-bag integrated refuge solution with multiple modes of action for above- and below-ground insects. The major component contains the Herculex® XTRA genes, the RW3 trait and the VTP trait. In EPA-designated cotton growing counties, a 20% separate corn borer refuge must be planted for Vorceed Enlist products.*

All products are trademarks of their respective manufacturers.

SC 833AM™ brand

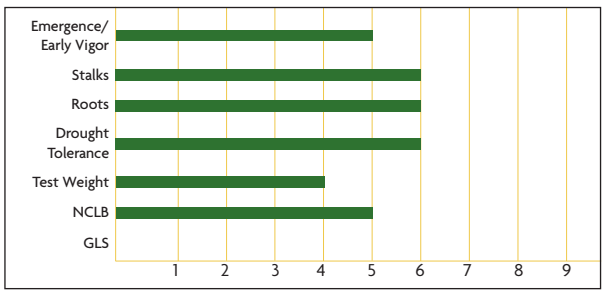
RELATIVE MATURITY: 83 days

KEY FEATURES:
- Yield leader with solid agronomics
- Exceptional stalk and root strength
- Good northern corn leaf blight (NCLB) tolerance
- Taller stature hybrid with dual purpose potential
- Very good drought tolerance

AVAILABLE TRAITS:
SC 833AM™ ..... RR2, HX, LL, YGCB

OPTIMUM PLANTING RATES:

Less Productive Soils:	26,000-28,000
Moderately Productive Soils:	28,000-30,000
Highly Productive Soils:	30,000-32,000



SC 864Q™ brand

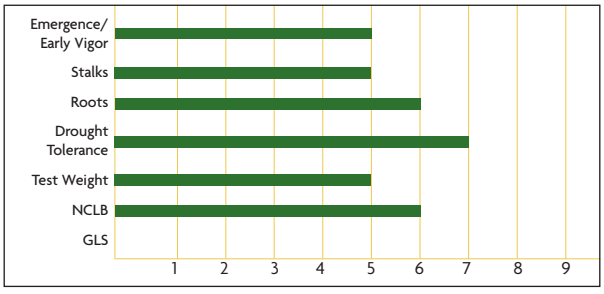
RELATIVE MATURITY: 86 days

KEY FEATURES:
- Impressive yield potential with good agronomic package
- Moderate plant stature with dependable stress emergence
- Good roots and strong drought tolerance
- Very good tolerance to NCLB
- Competitive late season stalk strength but recommend timely harvest
- Dual-purpose hybrid

AVAILABLE TRAITS:
SC 864Q™ ..... Q, LL, RR2

OPTIMUM PLANTING RATES:

Less Productive Soils:	28,000-30,000
Moderately Productive Soils:	30,000-32,000
Highly Productive Soils:	32,000-34,000



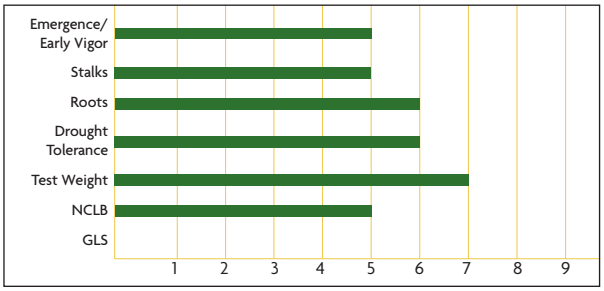
Agronomic Ratings 1 to 9 with 9 being the best

Roundup Ready® Corn 2 (RR2), Herculex® I (HX), Herculex® XTRA (HXX), a Bt trait (YGCB), LibertyLink® (LL), Rootworm (RW), Qrome® (Q)

SC 893AM™ brand

RELATIVE MATURITY: 89 days

KEY FEATURES:
- Above average stress emergence for tough soils
- Strong roots paired with good stalks
- High test weight and grain quality
- Good NCLB tolerance
- Watch late season stalks and recommend timely harvest



AVAILABLE TRAITS:
SC 893AM™ . . . . . RR2, HX, LL, YGCB

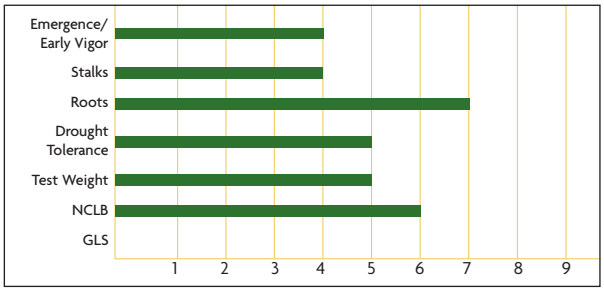
OPTIMUM PLANTING RATES:

Less Productive Soils:	29,000-31,000
Moderately Productive Soils:	31,000-33,000
Highly Productive Soils:	33,000-35,000

SC 901Q™ brand

RELATIVE MATURITY: 90 days

KEY FEATURES:
- Top-end yield potential
- Consistent performer with solid defensive traits
- Exceptional NCLB tolerance
- Moderate plant and ear height
- Very good dual purpose silage and grain hybrid



AVAILABLE TRAITS:
SC 901Q™ . . . . . Q, LL, RR2

OPTIMUM PLANTING RATES:

Less Productive Soils:	28,000-30,000
Moderately Productive Soils:	30,000-32,000
Highly Productive Soils:	32,000-34,000

Agronomic Ratings 1 to 9 with 9 being the best

Roundup Ready® Corn 2 (RR2), Herculex® I (HX), Herculex® XTRA (HXX), a Bt trait (YGCB), LibertyLink® (LL), Rootworm (RW), Qrome® (Q)

SC 931™ brand (Non-GMO)
SC 931AM™ brand • SC 931Q™ brand

RELATIVE MATURITY: 93 days

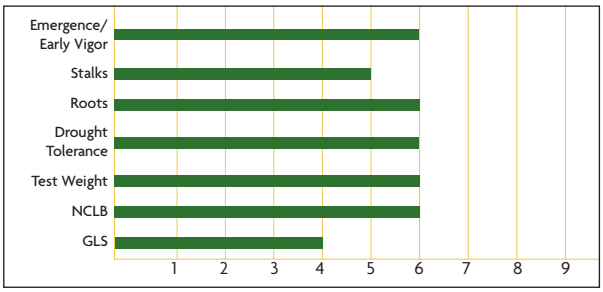
KEY FEATURES:
- Exceptional emergence--plant first
- Elite yielding genetics for the eastern Corn Belt
- Impressive girthy ear with flex
- Strong foliar resistance to NCLB
- Exceptional grain quality and test weight

AVAILABLE TRAITS:
SC 931AM™ ..... RR2, HX, LL, YGCB
SC 931Q™ ..... Q, LL, RR2

OPTIMUM PLANTING RATES:

Less Productive Soils:	28,000-30,000
Moderately Productive Soils:	30,000-32,000
Highly Productive Soils:	32,000-34,000

PROVEN CONSISTENCY IN THE EASTERN CORN BELT



SC 964PCE™ brand
SC 964V™ brand

NEW

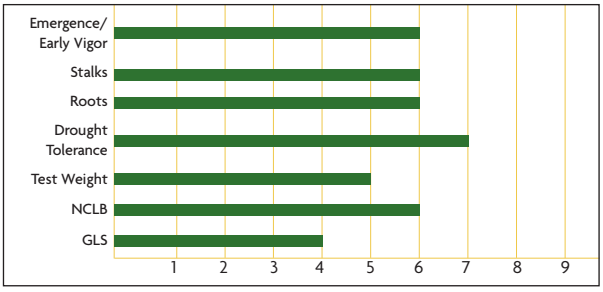
RELATIVE MATURITY: 96 days

KEY FEATURES:
- New yield leader for 96 RM
- Very moderate plant stature
- Very good drought tolerance
- Good stalk and root strength
- Very strong NCLB tolerance
- Outstanding stress emergence, plant first

AVAILABLE TRAITS:
SC 964PCE™ ..... HX1, VTP, ENL, LL, RR2
SC 964V™ ..... V, LL, RR, ENL

OPTIMUM PLANTING RATES:

Less Productive Soils:	28,000-30,000
Moderately Productive Soils:	30,000-32,000
Highly Productive Soils:	32,000-34,000



Agronomic Ratings 1 to 9 with 9 being the best

Roundup Ready® Corn 2 (RR2), Herculex® I (HX), Herculex® XTRA (HXX), a Bt trait (YGCB), LibertyLink® (LL), Rootworm (RW) , Enlist® (ENL), Vorceed® (V) , Roundup Ready® (RR), Qrome® (Q)

SC 973™ brand (Non-GMO)
SC 973AM™ brand • SC 973Q™ brand

RELATIVE MATURITY: 97 days

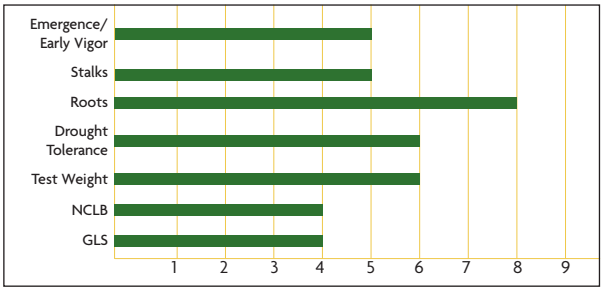
KEY FEATURES:
- Dependable yield potential
- Very good test weight
- Widely adapted
- Good stalks, outstanding roots
- Very good drought tolerance
- Very good husk coverage

AVAILABLE TRAITS:
SC 973AM™ . . . . . RR2, HX, LL, YGCB
SC 973Q™. . . . . Q, LL, RR2

OPTIMUM PLANTING RATES:

Less Productive Soils:	29,000-31,000
Moderately Productive Soils:	31,000-33,000
Highly Productive Soils:	33,000-35,000

WIDELY ADAPTED YIELD LEADER



SC 981SSE™ brand

RELATIVE MATURITY: 98 days

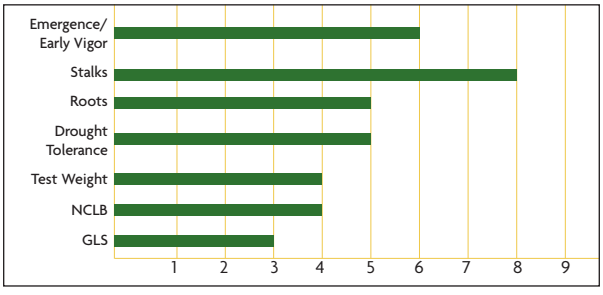
KEY FEATURES:
- 98 RM hybrid for **silage only**
- Taller stature plant with top tonnage potential
- Very good digestibility
- May require a fungicide for NCLB and gray leaf spot (GLS)

AVAILABLE TRAITS:
SC 981SSE™ . . . . . SSTX, LL, RR2, ENL

OPTIMUM PLANTING RATES:

Less Productive Soils:	28,000-30,000
Moderately Productive Soils:	30,000-32,000
Highly Productive Soils:	32,000-34,000

SILAGE ONLY HYBRID WITH TOP TONNAGE AND EXCEPTIONAL DIGESTIBILITY



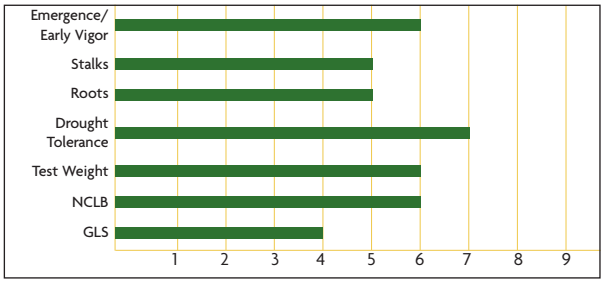
Agronomic Ratings 1 to 9 with 9 being the best

Roundup Ready® Corn 2 (RR2), Herculex® I (HX), Herculex® XTRA (HXX), a Bt trait (YGCB), LibertyLink® (LL), Rootworm (RW), SmartStax® Enlist® (SSE), Qrome® (Q)

SC 1003™ (Non-GMO)
SC 1003AM™ brand • SC 1003Q™ brand

RELATIVE MATURITY: 100 days

KEY FEATURES:
- Exceptional yield potential
- Great companion hybrid for SC 1018AM™ brand
- Proven eastern adaptation
- Performs across a wide range of yield environments
- Excellent NCLB tolerance
- Exceptional drought tolerance



AVAILABLE TRAITS:
SC 1003AM™ ..... RR2, HX, LL, YGCB
SC 1003Q™..... Q, LL, RR2

OPTIMUM PLANTING RATES:

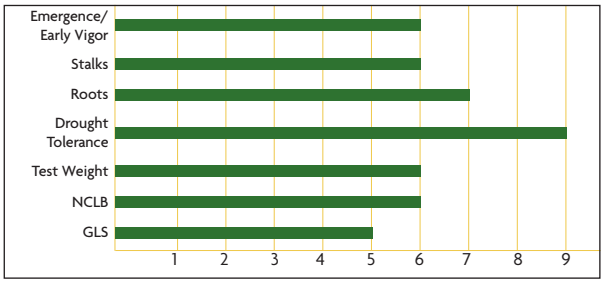
Less Productive Soils:	26,000-28,000
Moderately Productive Soils:	28,000-30,000
Highly Productive Soils:	30,000-32,000

SC 1018™ brand (Non-GMO)
SC 10RR18™ brand • SC 1018AM™ brand
SC 1018AMXT™ brand

RELATIVE MATURITY: 101 days

OPTIMUM® AQUAMAX® BRAND

KEY FEATURES:
- Consistent outstanding performance in SC replicated testing
- 101 RM hybrid that moves south of zone well
- Outstanding drought tolerance: Designated Optimum® AQUAmax® brand
- Dual purpose hybrid for silage and grain
- Exceptional plant health and staygreen
- Excellent grain quality: food grade potential



AVAILABLE TRAITS:
SC 10RR18™ RR2
SC 1018AM™..... RR2, HX, LL, YGCB
SC 1018AMXT™..... RR2, HXX, Agrisure® RW, LL, YGCB

OPTIMUM PLANTING RATES:

Less Productive Soils:	29,000-31,000
Moderately Productive Soils:	31,000-33,000
Highly Productive Soils:	33,000-35,000

Agronomic Ratings 1 to 9 with 9 being the best

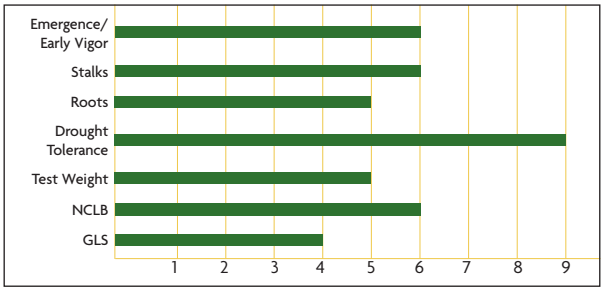
Roundup Ready® Corn 2 (RR2), Herculex® I (HX), Herculex® XTRA (HXX), a Bt trait (YGCB), LibertyLink® (LL), Rootworm (RW), Qrome® (Q)

SC 1042™ brand (Non-GMO)
SC 1042Q™ brand

OPTIMUM® AQUAMAX® BRAND

RELATIVE MATURITY: 104 days

KEY FEATURES:
- Proven performance with yield punch for the east
- Solid agronomic package
- Very good emergence
- Very good NCLB tolerance
- Outstanding drought tolerance: Designated Optimum® AQUAmax® brand
- Food grade candidate



AVAILABLE TRAITS:
SC 1042Q™ ..... Q, LL, RR2

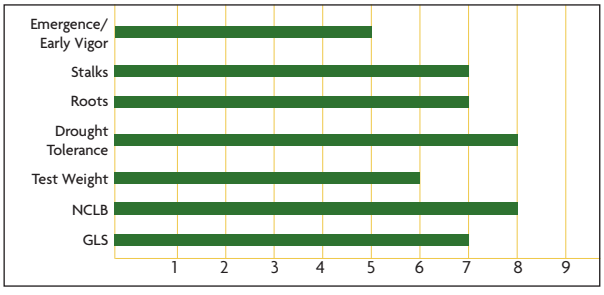
OPTIMUM PLANTING RATES:

Less Productive Soils:	29,000-31,000
Moderately Productive Soils:	31,000-33,000
Highly Productive Soils:	33,000-35,000

SC 10HR43™ brand

RELATIVE MATURITY: 104 days

KEY FEATURES:
- Widely adapted yield leader for maturity
- Proven, consistent performance in the eastern Corn Belt
- Outstanding agronomics and disease tolerance
- Impressive top-end yield potential



AVAILABLE TRAITS:
SC 10HR43™ ..... RR2, HX, LL

OPTIMUM PLANTING RATES:

Less Productive Soils:	29,000-31,000
Moderately Productive Soils:	31,000-33,000
Highly Productive Soils:	33,000-35,000

Agronomic Ratings 1 to 9 with 9 being the best

Roundup Ready® Corn 2 (RR2), Herculex® I (HX), Herculex® XTRA (HXX), a Bt trait (YGCB), LibertyLink® (LL), Rootworm (RW), Qrome® (Q)

SC 1053AM™ brand

RELATIVE MATURITY: 105 days

KEY FEATURES:
- Proven yield improvement over established hybrids
- Great companion hybrid for SC 10HR43™ brand
- Excellent stress emergence
- Very good GLS tolerance, exceptional NCLB tolerance
- Outstanding drought tolerance: Designated Optimum® AQUAmax® brand

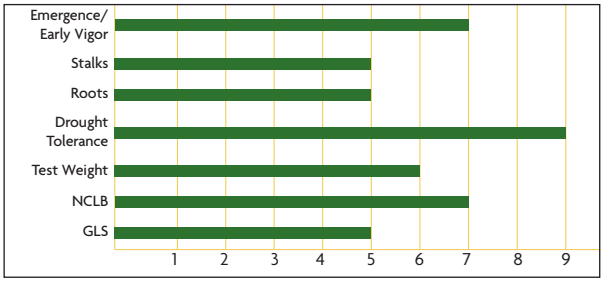
AVAILABLE TRAITS:

SC 1053AM™ ..... RR2, HX, LL, YGCB

OPTIMUM PLANTING RATES:

Less Productive Soils:	29,000-31,000
Moderately Productive Soils:	31,000-33,000
Highly Productive Soils:	33,000-35,000

OPTIMUM® AQUAMAX® BRAND PERFORMS BEST ON TOUGH SOILS



SC 1055PCE™ brand
SC 1055V™ brand

NEW

RELATIVE MATURITY: 105 days

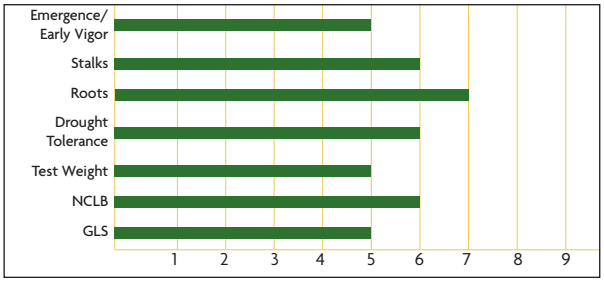
KEY FEATURES:
- High yield potential product with attractive look throughout growing season
- High late season intactness through harvest
- Good combination of health and agronomics
- Plant first due to strong emergence
- Broad adaptability allows movement north and south of zone
- Strong tolerance to tar spot

AVAILABLE TRAITS:

SC 1055PCE™ .....HX1, VTP, ENL, LL, RR2
SC 1055V™ .....V, LL, RR, ENL

OPTIMUM PLANTING RATES:

Less Productive Soils:	26,000-28,000
Moderately Productive Soils:	28,000-30,000
Highly Productive Soils:	30,000-32,000



Agronomic Ratings 1 to 9 with 9 being the best

Roundup Ready® Corn 2 (RR2), Herculex® I (HX), Herculex® XTRA (HXX), a Bt trait (YGCB), LibertyLink® (LL), Rootworm (RW), Enlist® (ENL), Vorceed® (V) , Roundup Ready® (RR), Qrome® (Q)

SC 1071AM™ brand
SC 1071Q™ brand

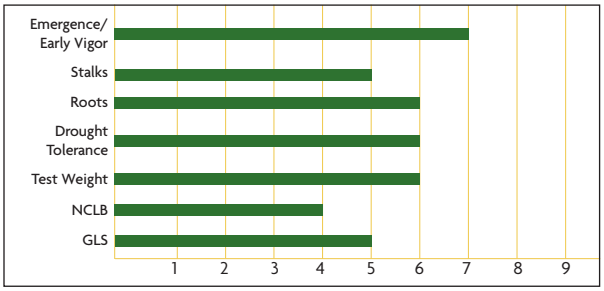
RELATIVE MATURITY: 107 days

KEY FEATURES:
- 107-day hybrid with impressive yield potential
- Outstanding emergence--plant first
- Outstanding ear flex
- Very good grain quality and test weight
- Outstanding 3rd party performance across SC footprint

AVAILABLE TRAITS:
SC 1071AM™ . . . . . RR2, HX, LL, YGCB
SC 1071Q™ . . . . . Q, LL, RR2

OPTIMUM PLANTING RATES:

Less Productive Soils:	26,000-28,000
Moderately Productive Soils:	28,000-30,000
Highly Productive Soils:	30,000-32,000



SC 1084AM™ brand

RELATIVE MATURITY: 108 days

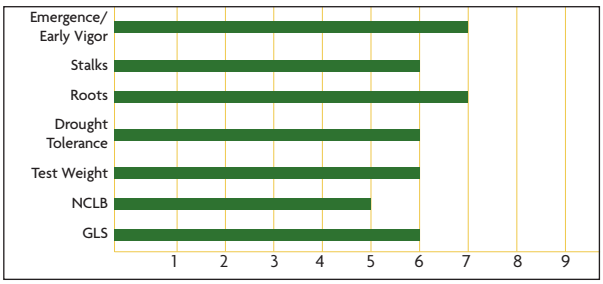
OUTSTANDING YIELD POTENTIAL

KEY FEATURES:
- Strong GLS tolerance
- Improved NCLB resistance compared to SC 1087AM™ brand
- Medium plant stature
- Dependable root strength and good stalks
- Strong early vigor
- Strong hybrid with bias to the eastern Corn Belt

AVAILABLE TRAITS:
SC 1084AM™ . . . . . RR2, HX, LL, YGCB

OPTIMUM PLANTING RATES:

Less Productive Soils:	28,000-30,000
Moderately Productive Soils:	30,000-32,000
Highly Productive Soils:	32,000-34,000



Agronomic Ratings 1 to 9 with 9 being the best

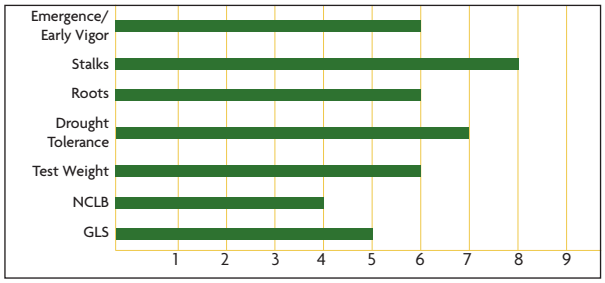
Roundup Ready® Corn 2 (RR2), Herculex® I (HX), Herculex® XTRA (HXX), a Bt trait (YGCB), LibertyLink® (LL), Rootworm (RW), Qrome® (Q)

SC 1087™ brand (Non-GMO)
SC 1087AM™ brand

RELATIVE MATURITY: 108 days

CONSISTENT EASTERN CORN BELT YIELD LEADER

KEY FEATURES:
- Multi-year dominant yield performance
- Outstanding hybrid targeted for eastern Corn Belt soils
- Elite genetics with strong drought tolerance
- Impressive 3rd party and SC testing performance
- Girthy ear with nice flex
- May require a fungicide for NCLB



AVAILABLE TRAITS:
SC 1087AM™ . . . . . RR2, HX, LL, YGCB

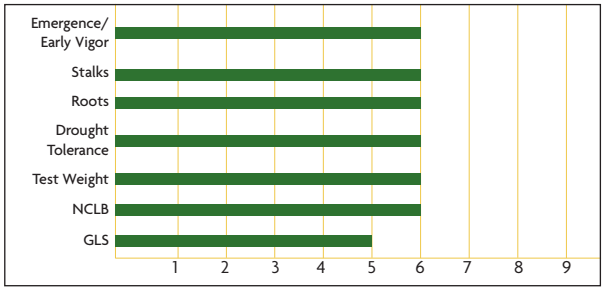
OPTIMUM PLANTING RATES:

Less Productive Soils:	26,000-28,000
Moderately Productive Soils:	28,000-30,000
Highly Productive Soils:	30,000-32,000

SC 1093AM™ brand

RELATIVE MATURITY: 109 days

KEY FEATURES:
- Outstanding eastern yield leader
- Proven performance over elite hybrids
- Very good NCLB and GLS tolerance
- Medium-tall plant stature
- Exceptional stalks and roots
- Food grade candidate



AVAILABLE TRAITS:
SC 1093AM™ . . . . . RR2, HX, LL, YGCB

OPTIMUM PLANTING RATES:

Less Productive Soils:	28,000-30,000
Moderately Productive Soils:	30,000-32,000
Highly Productive Soils:	32,000-34,000

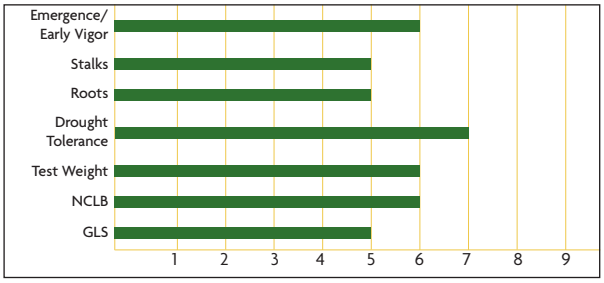
Agronomic Ratings 1 to 9 with 9 being the best

Roundup Ready® Corn 2 (RR2), Herculex® I (HX), Herculex® XTRA (HXX), a Bt trait (YGCB), LibertyLink® (LL), Rootworm (RW)

SC 1094™ brand (Non-GMO)
SC 1094PCE™ brand • SC 1094Q™ brand

RELATIVE MATURITY: 109 days

KEY FEATURES:
- Outstanding eastern yield leader
- Proven performance over elite hybrids
- Very good NCLB and GLS tolerance
- Moderate plant stature
- Good stalks and roots



AVAILABLE TRAITS:
SC 1094PCE™ . . . . . HX1, VTP, ENL, LL, RR2
SC 1094Q™ . . . . . Q, LL, RR2

OPTIMUM PLANTING RATES:

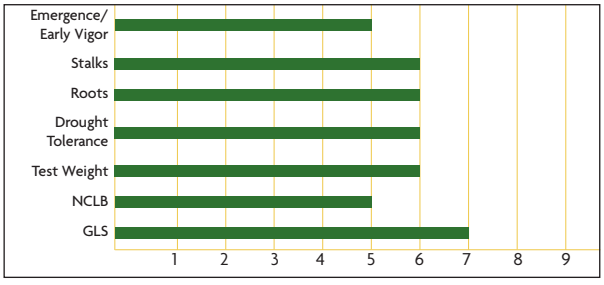
Less Productive Soils:	28,000-30,000
Moderately Productive Soils:	30,000-32,000
Highly Productive Soils:	32,000-34,000

SC 1105PCE™ brand

NEW

RELATIVE MATURITY: 110 days

KEY FEATURES:
- Medium-tall plant stature with lower ear placement
- Above average roots and stalks
- High tolerance to GLS
- Good NCLB tolerance
- Broad adaptability
- Good staygreen with attractive appearance in fall



AVAILABLE TRAITS:
SC 1105PCE™ . . . . . HX1, VTP, ENL, LL, RR2

OPTIMUM PLANTING RATES:

Less Productive Soils:	28,000-30,000
Moderately Productive Soils:	30,000-32,000
Highly Productive Soils:	32,000-34,000

Agronomic Ratings 1 to 9 with 9 being the best

Roundup Ready® Corn 2 (RR2), Herculex® I (HX), Herculex® XTRA (HXX), a Bt trait (YGCB), LibertyLink® (LL), Rootworm (RW), Enlist® (ENL), Qrome® (Q)

SC 1112AM™ brand
SC 1112Q™ brand

RELATIVE MATURITY: 111 days

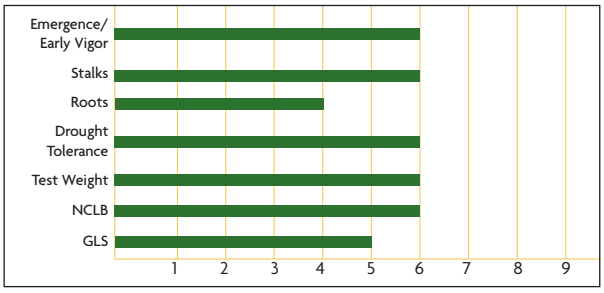
KEY FEATURES:
- Impressive eastern performance
- Very good NCLB and good GLS tolerance
- Bred to work across all soil types
- Very good plant health and late-season intactness
- Very good drought tolerance

AVAILABLE TRAITS:
SC 1112AM™ ..... RR2, HX, LL, YGCB
SC 1112Q™ ..... Q, LL, RR2

OPTIMUM PLANTING RATES:

Less Productive Soils:	27,000-29,000
Moderately Productive Soils:	29,000-31,000
Highly Productive Soils:	31,000-33,000

CONSISTENT GENETICS WITH PROVEN EASTERN CORN BELT PERFORMANCE



SC 1122™ brand (Non-GMO)
SC 1122Q™ brand

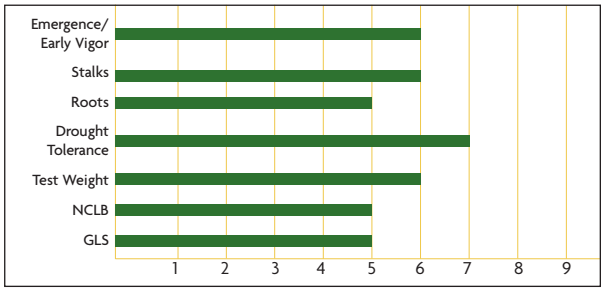
RELATIVE MATURITY: 112 days

KEY FEATURES:
- Top-end yield potential
- Strong GLS tolerance, good NCLB tolerance
- Taller plant stature with strong stalks
- Good stress emergence
- Outstanding drought tolerance

AVAILABLE TRAITS:
SC 1122Q™ ..... Q, LL, RR2

OPTIMUM PLANTING RATES:

Less Productive Soils:	29,000-31,000
Moderately Productive Soils:	31,000-33,000
Highly Productive Soils:	33,000-35,000



Agronomic Ratings 1 to 9 with 9 being the best

Roundup Ready® Corn 2 (RR2), Herculex® I (HX), Herculex® XTRA (HXX), a Bt trait (YGCB), LibertyLink® (LL), Rootworm (RW), Qrome® (Q)

SC 1135PCE™ brand

NEW

RELATIVE MATURITY: 113 days

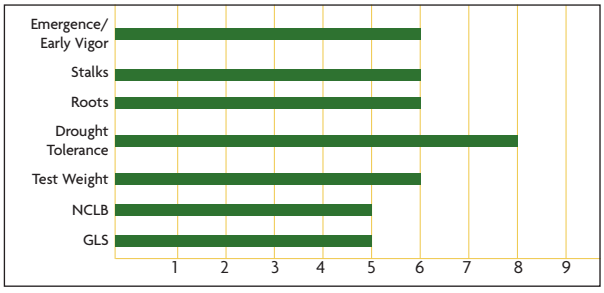
KEY FEATURES:
- New 113 RM hybrid with outstanding yield performance
- Brings strong agronomic package and broad adaptability
- Average plant and ear height for relative maturity
- Strong drought tolerance brings stable performance
- Improvement in NCLB resistance compared to SC 1134AM™ brand
- Average GLS tolerance

AVAILABLE TRAITS:
SC 1135PCE™.....HX1, VTP, ENL, LL, RR2

OPTIMUM PLANTING RATES:

Less Productive Soils:	28,000-30,000
Moderately Productive Soils:	30,000-32,000
Highly Productive Soils:	32,000-34,000

GREAT DROUGHT TOLERANCE



SC 1154™ brand (Non-GMO)
SC 1154AM™ brand • SC 1154Q™ brand

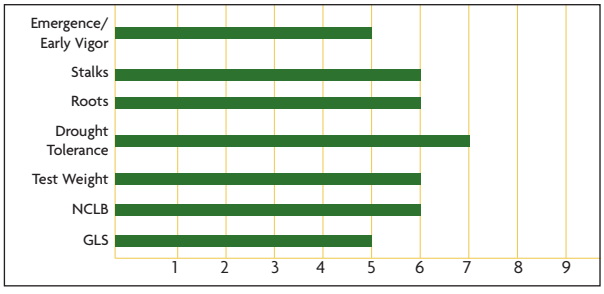
RELATIVE MATURITY: 115 days

KEY FEATURES:
- Consistent high yield potential paired with good agronomics
- Good performance across varying growing conditions
- Earlier silk than others in 115 RM zone
- Strong drought tolerance
- Above average stalks and roots
- Very good NCLB tolerance
- High test weight
- Food grade candidate

AVAILABLE TRAITS:
SC 1154AM™..... RR2, HX, LL, YGCB
SC 1154Q™ .....Q, LL, RR2

OPTIMUM PLANTING RATES:

Less Productive Soils:	29,000-31,000
Moderately Productive Soils:	31,000-33,000
Highly Productive Soils:	33,000-35,000



Agronomic Ratings 1 to 9 with 9 being the best

Roundup Ready® Corn 2 (RR2), Herculex® I (HX), Herculex® XTRA (HXX), a Bt trait (YGCB), LibertyLink® (LL), Rootworm (RW), Enlist® (ENL), Qrome® (Q)

SC 1170AM™ brand

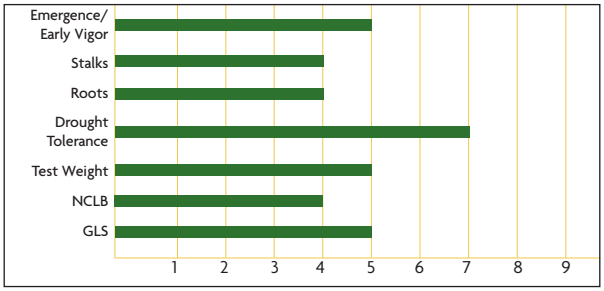
RELATIVE MATURITY: 117 days

KEY FEATURES:
- Widely adapted hybrid with high yield potential
- Exceptional dual purpose hybrid
- Very good drought tolerance

AVAILABLE TRAITS:
SC 1170AM™ . . . . . RR2, HX, LL, YGCB

OPTIMUM PLANTING RATES:

Less Productive Soils:	26,000-28,000
Moderately Productive Soils:	28,000-30,000
Highly Productive Soils:	30,000-32,000



SC 1183AM™ brand

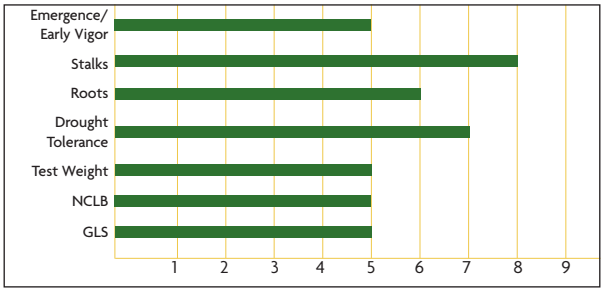
RELATIVE MATURITY: 118 days

KEY FEATURES:
- Good plant health
- Dual purpose with proven silage potential
- Outstanding stalks with great roots
- Superior drought tolerance

AVAILABLE TRAITS:
SC 1183AM™ . . . . . RR2, HX, LL, YGCB

OPTIMUM PLANTING RATES:

Less Productive Soils:	26,000-28,000
Moderately Productive Soils:	28,000-30,000
Highly Productive Soils:	30,000-32,000



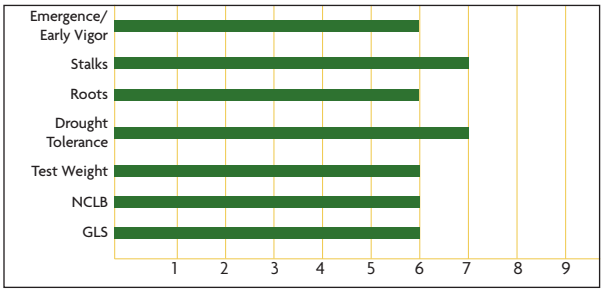
Agronomic Ratings 1 to 9 with 9 being the best

Roundup Ready® Corn 2 (RR2), Herculex® I (HX), Herculex® XTRA (HXX), a Bt trait (YGCB), LibertyLink® (LL), Rootworm (RW)

SC 1185V™ brand

RELATIVE MATURITY: 118 days

KEY FEATURES:
- New 118 RM leader hybrid with dual-purpose potential
- Offers strong agronomic package
- Above average stalks with strong roots and nice staygreen through maturity
- Brings optimal traits for corn-on-corn acres
- Good overall disease package brings above average tolerance to NCLB and GLS



AVAILABLE TRAITS:
SC 1185V™. . . . . V, LL, RR, ENL

OPTIMUM PLANTING RATES:

Less Productive Soils:	26,000-28,000
Moderately Productive Soils:	28,000-30,000
Highly Productive Soils:	30,000-32,000

Agronomic Ratings 1 to 9 with 9 being the best

Roundup Ready® Corn 2 (RR2), Herculex® I (HX), Herculex® XTRA (HXX), a Bt trait (YGCB), LibertyLink® (LL), Rootworm (RW), Enlist® (ENL), Vorceed® (V) , Roundup Ready® (RR)

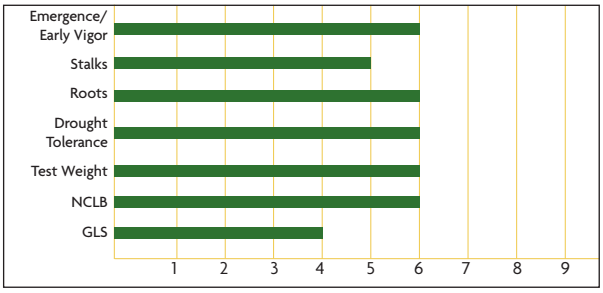
SC 931N™ brand (Organic)

RELATIVE MATURITY: 93 days

KEY FEATURES:
- Exceptional emergence--plant first
- Elite yielding genetics for the eastern Corn Belt
- Impressive girthy ear with flex
- Strong foliar resistance to northern corn leaf blight (NCLB)
- Exceptional grain quality and test weight

OPTIMUM PLANTING RATES:

Less Productive Soils:	28,000-30,000
Moderately Productive Soils:	30,000-32,000
Highly Productive Soils:	32,000-34,000



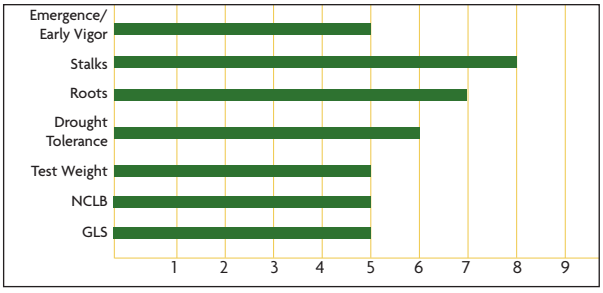
SC 965N™ brand (Organic)

RELATIVE MATURITY: 96 days

KEY FEATURES:
- 96 RM hybrid that moves south of zone
- Excellent stalks and roots
- Dependable foliar disease tolerance
- Very good drought tolerance

OPTIMUM PLANTING RATES:

Less Productive Soils:	28,000-30,000
Moderately Productive Soils:	30,000-32,000
Highly Productive Soils:	32,000-34,000



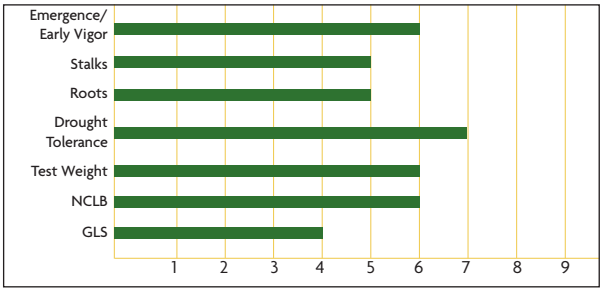
SC 1003N™ brand (Organic)

RELATIVE MATURITY: 100 days

KEY FEATURES:
- Exceptional yield potential
- Great companion hybrid for SC 1018AM™ brand
- Proven eastern adaptation
- Performs across a wide range of yield environments
- Excellent NCLB tolerance
- Exceptional drought tolerance

OPTIMUM PLANTING RATES:

Less Productive Soils:	26,000-28,000
Moderately Productive Soils:	28,000-30,000
Highly Productive Soils:	30,000-32,000



Agronomic Ratings 1 to 9 with 9 being the best

Roundup Ready® Corn 2 (RR2), Herculex® I (HX), Herculex® XTRA (HXX), a Bt trait (YGCB), LibertyLink® (LL), Rootworm (RW)

SC 1042N™ brand (Organic)

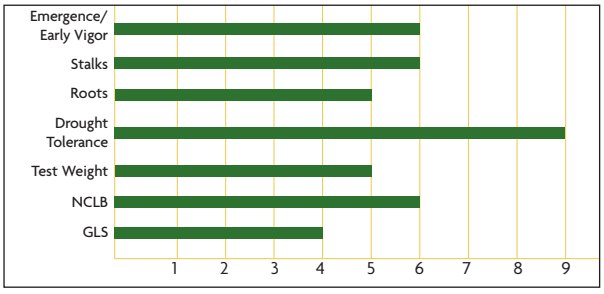
RELATIVE MATURITY: 104 days

OPTIMUM® AQUAMAX® BRAND

KEY FEATURES:
- Proven performance with yield punch for the east
- Solid agronomic package
- Very good emergence
- Very good NCLB tolerance
- Outstanding drought tolerance: Designated Optimum® AQUAmax® brand

OPTIMUM PLANTING RATES:

Less Productive Soils:	29,000-31,000
Moderately Productive Soils:	31,000-33,000
Highly Productive Soils:	33,000-35,000



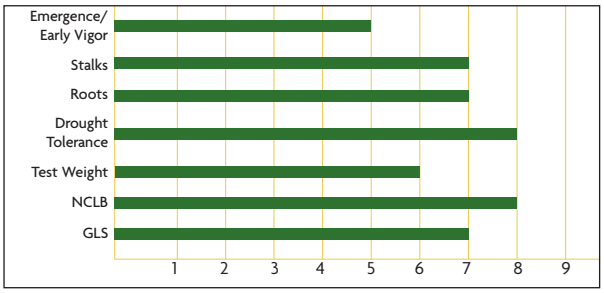
SC 1043N™ brand (Organic)

RELATIVE MATURITY: 104 days

KEY FEATURES:
- Widely adapted yield leader for maturity
- Proven consistent performance in the eastern Corn Belt
- Outstanding agronomics and disease tolerance
- Impressive top-end yield potential

OPTIMUM PLANTING RATES:

Less Productive Soils:	29,000-31,000
Moderately Productive Soils:	31,000-33,000
Highly Productive Soils:	33,000-35,000



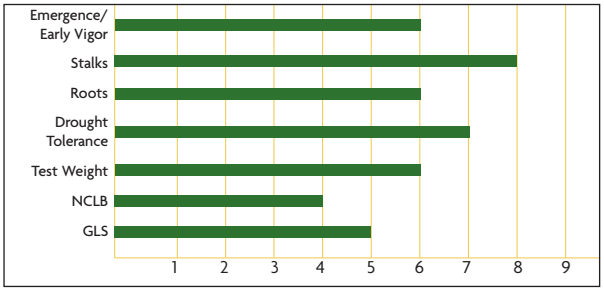
SC 1087N™ brand (Organic)

RELATIVE MATURITY: 108 days

KEY FEATURES:
- Multi-year dominant yield performance
- Outstanding hybrid targeted for eastern Corn Belt soils
- Elite genetics with excellent drought tolerance
- Impressive 3rd party and SC testing performance
- Girthy ear with nice flex

OPTIMUM PLANTING RATES:

Less Productive Soils:	26,000-28,000
Moderately Productive Soils:	28,000-30,000
Highly Productive Soils:	30,000-32,000



Agronomic Ratings 1 to 9 with 9 being the best

Roundup Ready® Corn 2 (RR2), Herculex® I (HX), Herculex® XTRA (HXX), a Bt trait (YGCB), LibertyLink® (LL), Rootworm (RW)

ADDITIONAL HYBRIDS

SC 841RR™ brand

RELATIVE MATURITY: 84 days

KEY FEATURES:
- High yield potential 84-day hybrid with eastern Corn Belt bias
- Exceptional agronomics
- Very good dual purpose hybrid
- Moderate stature hybrid with strong stalks and roots
- Excellent drought tolerance

SC 851AM™ brand

RELATIVE MATURITY: 85 days

KEY FEATURES:
- Top-end yield potential and solid agronomics
- Exceptional northern corn leaf blight tolerance (NCLB)
- Very good drought tolerance
- Very good test weight
- Solid performer across varying soil types and growing conditions

SC 951Q™ brand

RELATIVE MATURITY: 95 days

KEY FEATURES:
- Impressive top-end yield potential
- Exceptional agronomics: good roots
- Very good drought tolerance
- Very good late-season intactness

SC 952™ brand (Non-GMO)

RELATIVE MATURITY: 95 days

KEY FEATURES:
- Excellent emergence and early vigor
- Excellent earfill and husk coverage
- High tonnage and excellent forage quality
- Performs best at moderate to high plant populations
- High nitrogen response

SC 1054™ brand (Non-GMO) • SC 1054AM™ brand

RELATIVE MATURITY: 105 days

KEY FEATURES:
- True eastern adapted hybrid with leading genetics
- Very good emergence
- Strong NCLB tolerance
- Competitive gray leaf spot resistance
- Excellent agronomic package brings added yield potential
- Good southern movement for 105 RM product

Agronomic Ratings 1 to 9 with 9 being the best

Roundup Ready® Corn 2 (RR2), Herculex® I (HX), Herculex® XTRA (HXX), a Bt trait (YGCB), LibertyLink® (LL), Rootworm (RW)

ADDITIONAL HYBRIDS

SC 1069AM™ brand

RELATIVE MATURITY: 106 days

KEY FEATURES:
- Eastern Corn Belt genetics with consistency across varying soil types
- Outstanding drought tolerance: Designated Optimum® AQUAmax® brand
- Exceptional ear flex
- Very good roots

SC 11RR36™ brand

RELATIVE MATURITY: 113 days

KEY FEATURES:
- Impressive agronomics: stalks, roots and staygreen
- Good tolerance to GLS and NCLB
- Very good drought tolerance
- Excellent grain quality; food grade potential
- Impressive girthy ear with nice flex

SC 1139™ brand (Non-GMO) • SC 1139AM™ brand SC 1139Q™ brand

RELATIVE MATURITY: 113 days

KEY FEATURES:
- Consistent eastern Corn Belt yield leader
- Excellent drought tolerance
- Responds to higher plant populations
- Exceptional test weight and grain quality
- Very good staygreen
- Food grade candidate

SC 1158™ brand (Non-GMO) • SC 1158Q™ brand

RELATIVE MATURITY: 115 days

KEY FEATURES:
- 115-day hybrid with excellent drydown
- Very good plant health and drought tolerance for eastern growing environments
- Taller stature, upright leaves, outstanding stalks and roots
- Exceptional agronomics
- Excellent grain quality; food grade potential

Agronomic Ratings 1 to 9 with 9 being the best

Roundup Ready® Corn 2 (RR2), Herculex® I (HX), Herculex® XTRA (HXX), a Bt trait (YGCB), LibertyLink® (LL), Rootworm (RW)

Super Silage Products

IF YOU RAISE CORN SILAGE, THEN PLANTING ONE OF SCI SUPER SILAGE PRODUCTS ON YOUR FARM IS A MUST!

Seed Consultants' Super Silage Products are heavily tested throughout the eastern Corn Belt and are bred to produce more tons per acre with higher digestibility, feed value, starch, and protein levels.

Seed Consultants' Super Silage Products have gone through an exhaustive testing process and are checked against leading industry standards for corn silage.

Only products with superior silage characteristics (tons, digestibility, feed value, starch, and protein), qualify as Super Silage Products.

All of these products have excellent yield potential. Based on Seed Consultants' methodical silage testing procedures only these 20 products qualify as Super Silage Products out of the more than 60 elite corn lines Seed Consultants has on the market today.

Seed Consultants' Super Silage Products are quickly becoming the industry leader for corn silage!

	RM	Tons/ Acre	NDF%	NEL	Digestibility	Yield	Milk/ Ton	Milk/ Acre
SC 841™ brand	84	9	7	9	7	7	8	9
SC 851™ brand	85	8	6	9	7	7	7	7
SC 864™ brand	86	8	7	7	8	7	7	7
SC 901™ brand	90	9	6	8	7	9	7	9
SC 951™ brand	95	7	8	7	9	7	8	9
SC 964™ brand	96	7	7	8	6	7	7	7
SC 981™ brand	98	9	7	7	7	9	7	9
SC 1003™ brand	100	9	6	7	6	9	7	8
SC 1018™ brand	101	8	7	6	8	8	8	9
SC 1042™ brand	104	8	7	8	8	8	7	8
SC 1055™ brand	105	9	8	7	8	9	7	9
SC 1084™ brand	108	8	8	9	8	8	8	8
SC 1093™ brand	109	8	7	7	6	8	7	8
SC 1094™ brand	109	8	6	8	6	7	7	8
SC 1112™ brand	111	8	6	7	8	8	7	8
SC 1105™ brand	110	8	8	7	8	8	7	8
SC 1135™ brand	113	8	8	7	8	8	7	7
SC 1154™ brand	115	8	8	7	7	7	7	7
SC 1183™ brand	118	9	7	7	8	9	7	9
SC 1185™ brand	118	8	7	7	7	8	6	8

Ratings 1 to 9 with 9 being the best

RM - Relative Maturity
Tons/Acre - Amount of forage per acre
NDF - Neutral Detergent Fiber
NEL - Net Energy Lactation
Digestibility - Based on In Vitro Dry Matter Digestion
Yield - Dry Matter yield per acre
Milk/ Ton - Potential to produce milk per ton of silage
Milk/ Acre - Potential milk production per acre of silage and combines milk/ ton with dry matter yield

Corn Disease Resistance Evaluation

	RM	TAR SPOT	GLS	NCLB	ANTHR	GW	RUST
SC 833™ brand	83			5		6	
SC 841™ brand	84			5		6	
SC 851™ brand	85			6		6	
SC 864™ brand	86			6		6	
SC 893™ brand	89			5		6	
SC 901™ brand	90			6		6	
SC 931™ brand	93	5	4	6		7	
SC 951™ brand	95	6	5	5		6	
SC 952™ brand	95		3	7		6	
SC 964™ brand	96	4	4	6		7	
SC 965™ brand	96	5	5	5		6	
SC 973™ brand	97	6	4	4		7	
SC 981™ brand	98		3	4		7	
SC 1003™ brand	100	5	4	6		7	
SC 1018™ brand	101	5	5	6	3	6	
SC 1042™ brand	104	5	4	6	4	7	
SC 1043™ brand	104	6	7	8	4	7	4
SC 1053™ brand	105	6	5	7	5	6	4
SC 1054™ brand	105	6	5	6	5	6	
SC 1055™ brand	105	5	5	6	6	7	
SC 1069™ brand	106		4	5	4	6	3
SC 1071™ brand	107	5	5	4	4	6	4
SC 1084™ brand	108	6	6	5	4	6	3
SC 1087™ brand	108	5	5	4	5	5	4
SC 1093™ brand	109	6	5	6	5	6	3
SC 1094™ brand	109	6	5	6	4	6	4
SC 1105™ brand	110		7	5	5	6	5
SC 1112™ brand	111	5	5	6	5	6	5
SC 1122™ brand	112	5	5	5	5	7	5
SC 1135™ brand	113		5	5	4	6	4
SC 1136™ brand	113		5	5	5	6	5
SC 1139™ brand	113	5	5	5	4	4	4
SC 1154™ brand	115		5	6	5	7	5
SC 1158™ brand	115	5	5	5	4	6	3
SC 1170™ brand	117	5	5	4	4	6	3
SC 1183™ brand	118	6	5	5	5	7	4
SC 1185™ brand	118		6	6	5	7	5

GLS = GLS
NCLB = Northern Corn Leaf Blight
ANTHR = Anthracnose Stalk Rot
GW = Goss's Wilt
RUST = Common Rust
Blank cell = Not Rated

9.0 = Excellent Resistance
7.5 = Good Resistance
5.0 = Intermediate
2.5 = Below Average Resistance
1.0 = Poor Resistance Level

Roundup Ready® Corn 2 (RR2), Herculex® I (HX), Herculex® XTRA (HXX), YieldGard® Corn Borer (YGCB), LibertyLink® (LL), Rootworm (RW)

Ratings are based on replications of data generated by Seed Consultants Inc. and Corteva Agriscience. These ratings serve as a guide for selection and management of products. Individual product responses may vary depending on growing environment.

Due to uncontrollable variables, in no way does Seed Consultants Inc., make any guarantee, implied or otherwise as to the validity of this data.

ABOVE, BELOW AND EVERY PEST IN BETWEEN

Vorceed™ Enlist® corn hybrids from Seed Consultants are highly effective against western corn rootworm, northern corn rootworm and Mexican corn rootworm. With six modes of action against aboveground and belowground pests, we help farmers get to the bottom of insect control to take their yield potential higher than ever. Add in herbicide tolerance from the flexible Enlist® weed control system for management of the toughest weeds, and you have hybrids that are simply better.

Seed Consultants
Simply Better
seedconsultants.com

VORCEED® Enlist®

SCAN TO LEARN MORE

CORTEVA™ agriscience

Corn Replant Decision

Seed Consultants promises to only sell the best quality seed corn backed with the Grower Profit Protection Replant Program, but often times this seed faces insects, flooding, unfavorable seedbeds, etc. You are then faced with the question, **SHOULD I REPLANT?**

STEP 1:	Determine the number of plants per 1/1000 acre at several sites in field
STEP 2:	Determine original planting date
STEP 3:	Determine likely replanting date
STEP 4:	Determine normal replant costs...fuel, herbicide, insecticide, equipment, etc.
STEP 5:	Estimate normal yield and expected market price
STEP 6:	Estimate yield of existing corn (from chart)
STEP 7:	Deduct additional 5% for common gap size greater than 3 feet; if less than 3 feet, deduct 2% for uneven stand
STEP 8:	Calculate expected yield from existing corn
STEP 9:	Calculate expected yield if replanted (from chart)
FINAL STEP:	Evaluate the net gain from replanting against expenses incurred.

Expected Grain Yield Due to Various Planting Dates and Final Plant Populations

Planting Date	10	12	14	16	18	20	22	24	26	28	30	32	34	36
	Percent of Optimum Yield													
April 10	62	68	73	78	82	85	88	91	92	93	94	94	93	91
April 15	65	71	76	81	85	88	91	94	95	96	97	96	96	94
April 20	67	73	78	83	87	90	93	96	97	98	99	98	98	96
April 25	68	74	79	84	88	92	94	97	98	99	100	100	99	97
April 30	68	74	79	84	88	92	95	97	99	100	100	100	99	97
May 5	67	73	79	83	87	91	94	96	98	99	99	99	98	97
May 10	65	71	77	82	86	89	92	94	96	97	97	97	96	95
May 15	63	69	74	79	83	87	89	92	93	94	95	95	94	92
May 20	59	65	71	75	80	83	86	88	90	91	91	91	90	89
May 25	55	61	66	71	75	79	81	84	85	86	87	87	86	84
May 30	49	55	61	65	70	73	76	78	80	81	81	81	80	70
June 4	43	49	54	59	63	67	70	72	74	75	75	75	74	73
June 9	36	42	47	52	56	60	62	65	66	67	68	68	67	65

Source: E.D. Nafziger, Journal of Production Agriculture 7 (1994): 59-62

Agronomic Ratings 1 to 9 with 9 being the best

Roundup Ready® Corn 2 (RR2), Herculex® I (HX), Herculex® XTRA (HXX), a Bt trait (YGCB), LibertyLink® (LL), Rootworm (RW)

WHAT'S IN THE BAG?

CORTEVA agriscience

	PRODUCT NAME	INSECT PROTECTION	INTEGRATED COMPONENTS	REFUGE REQUIREMENTS
INTEGRATED REFUGE SOLUTIONS	Optimum AcreMax ABOVE	ABOVE	**INTEGRATED** **95%** (YGCB,HX1,LL,RR2) **5%** (LL,RR2)	Additional 20% corn borer refuge is required in EPA-designated cotton counties.
	POWERCORE Enlist REFUGE ADVANCED	ABOVE	**INTEGRATED** **95%** (HX1,VTP,ENL,LL,RR2) **5%** (ENL,LL,RR2)	Additional 20% corn borer refuge is required in EPA-designated cotton counties.
	QROME	ABOVE BELOW	**INTEGRATED** **95%** (RW,YGCB,HXX,LL,RR2) **5%** (LL,RR2)	Additional 20% corn borer refuge is required in EPA-designated cotton counties.
	VORCEED Enlist	ABOVE BELOW	**INTEGRATED** **95%** (HXX,RW3,VTP,ENL,LL,RR2) **5%** (ENL,LL,RR2)	Additional 20% corn borer refuge is required in EPA-designated cotton counties.
	Optimum AcreMax ABOVE BELOW XTreme	ABOVE BELOW	**INTEGRATED** **95%** (RW,YGCB,HXX,LL,RR2) **5%** (LL,RR2)	Additional 20% corn borer refuge is required in EPA-designated cotton counties.

Structured corn products are treated 100% .

Exception: Structured products treated with the CRW package noted below are treated 100% .

STRUCTURED REFUGE SOLUTIONS	SmartStax REFUGE ADVANCED, Enlist CORN	ABOVE BELOW	**STRUCTURED** **100%** (VTP,HX1,VTRW,HXRW,LL.RR2,ENL)	Structured refuge, 5% Corn Belt, 20% in EPA-designated cotton counties.

LUMIGEN™ SEED TREATMENT PORTFOLIO

- Enhanced disease protection with multiple modes of action fungicide recipe
- Unique combination with multiple modes of action insecticide recipe
- Lumialza® nematicide seed treatment protects roots for more than 80+ days
- Lumisure® 1250 seed treatment for added protection against corn rootworm

AM – Optimum® AcreMax® product
AMXT – Optimum® AcreMax® XTreme product
HX1 – Herculex® I insect trait
HXX – Herculex® XTRA insect trait
LL – LibertyLink® (glufosinate) herbicide resistance
LR – LibertyLink® and Roundup Ready® Corn 2 herbicide resistance (NOTE: all seed color will be purple)
PCE – Powercore® Enlist® Refuge Advanced® corn product
Q – Qrome® product
RR2 – Roundup Ready® Corn 2 (glyphosate) herbicide resistance
RW – Agrisure® RW insect trait
V – Vorceed® Enlist® product

AM - Optimum® AcreMax® insect protection system with YGCB, HX1, 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 Optimum AcreMax products.

AMX - Optimum® AcreMax® Xtra insect protection system with YGCB, HXX, LL, RR2. Contains a single-bag integrated refuge solution for above- and below-ground insects. In EPA-designated cotton-growing counties, a 20% separate corn borer refuge must be planted with Optimum AcreMax Xtra products.

AMXT (Optimum® AcreMax® XTreme) - Contains a single-bag integrated refuge solution for above- and below-ground insects. The major component contains the Agrisure® RW trait, the YieldGard® Corn Borer gene, and the Herculex® XTRA genes. In EPA-designated cotton-growing counties, a 20% separate corn borer refuge must be planted with Optimum AcreMax XTreme products.

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.

Q (Qrome®) - Contains a single-bag integrated refuge solution for above- and below-ground insects. The major component contains the Agrisure® RW trait, the YieldGard® Corn Borer gene, and the Herculex® XTRA genes. In EPA-designated cotton-growing counties, a 20% separate corn borer refuge must be planted with Qrome products. Qrome® products are approved for cultivation in the U.S. and Canada. They have also received approval in a number of importing countries, most recently China. For additional information about the status of regulatory authorizations, visit www.biotradestatus.com/.

V (Vorceed™º Enlist®) - Contains a single-bag integrated refuge solution with multiple modes of action for above- and below-ground insects. The major component contains the Herculex® XTRA genes, the RW3 trait and the VTP trait. In EPA-designated cotton growing counties, a 20% separate corn borer refuge must be planted Vorceed Enlist products.

YGCB,HX1,LL,RR2 (Optimum® Intrasect®) - Contains the YieldGard® Corn Borer gene and Herculex® I gene for resistance to corn borer.

AVBL,YGCB,HX1,LL,RR2 (Optimum® Leptra®) - Contains the Agrisure Viptera® trait, the YieldGard Corn Borer gene, the Herculex® I gene, the LibertyLink® gene and the Roundup Ready® Corn 2 trait.

HX1 - Contains the Herculex® I insect protection gene which provides protection against European corn borer, southwestern corn borer, black cutworm, fall armyworm, lesser corn stalk borer, southern corn stalk borer, and sugarcane borer; and suppresses corn earworm.

HXX - Herculex® XTRA contains the Herculex I and Herculex RW genes. YGCB - The YieldGard® Corn Borer gene offers a high level of resistance to European corn borer, southwestern corn borer and southern cornstalk borer; moderate resistance to corn earworm and common stalk borer; and above average resistance to fall armyworm.

LL - Contains the LibertyLink® gene for resistance to Liberty® herbicide.

LR - Contains the LibertyLink® gene and the Roundup Ready® Corn 2 trait.

RR2 - Contains the Roundup Ready® Corn 2 trait that provides crop safety for over-the-top applications of labeled glyphosate herbicides when applied according to label directions.

State registrations for Lumialza™ is pending. This product may not be registered for sale or use in all states. Contact your local retailer or representative for details and availability in your state. Lumialza™ has not yet received regulatory approvals in any country outside the United States; approvals are pending.

Herculex® insect protection technology by Dow AgroSciences and Pioneer Hi-Bred. ® Trademark of Dow AgroSciences, DuPont or Pioneer, and their affiliated companies or their respective owners.

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AgrisureRW AgrisureViptera LumiGEN Lumialza

Insect Resistance Management
Planting Refuges, Preserving Technology

To protect the usefulness and availability of these technologies for the future, growers must implement an Insect Resistance Management (IRM) program as specified in product use guides. For detailed IRM requirements for products with in-plant insect resistance, refer to the appropriate product use guide, available from your Pioneer sales professional or on the web at: www.traitstewardship.com.


RAISE YOUR ABOVEGROUND STANDARDS
PowerCore® Enlist® corn hybrids from Seed Consultants contain elite genetics, above-ground pest control and herbicide-tolerant trait technologies made for the eastern Corn Belt. We help farmers better defend their fields from corn borer, black cutworm and fall armyworm while managing tough weeds with the flexible Enlist® weed control system. Most of all, we're committed to raising expectations — and yield potential — for the eastern Corn Belt.
SC
Seed Consultants
Simply Better
seedconsultants.com
POWERCORE
Enlist
SCAN TO LEARN MORE
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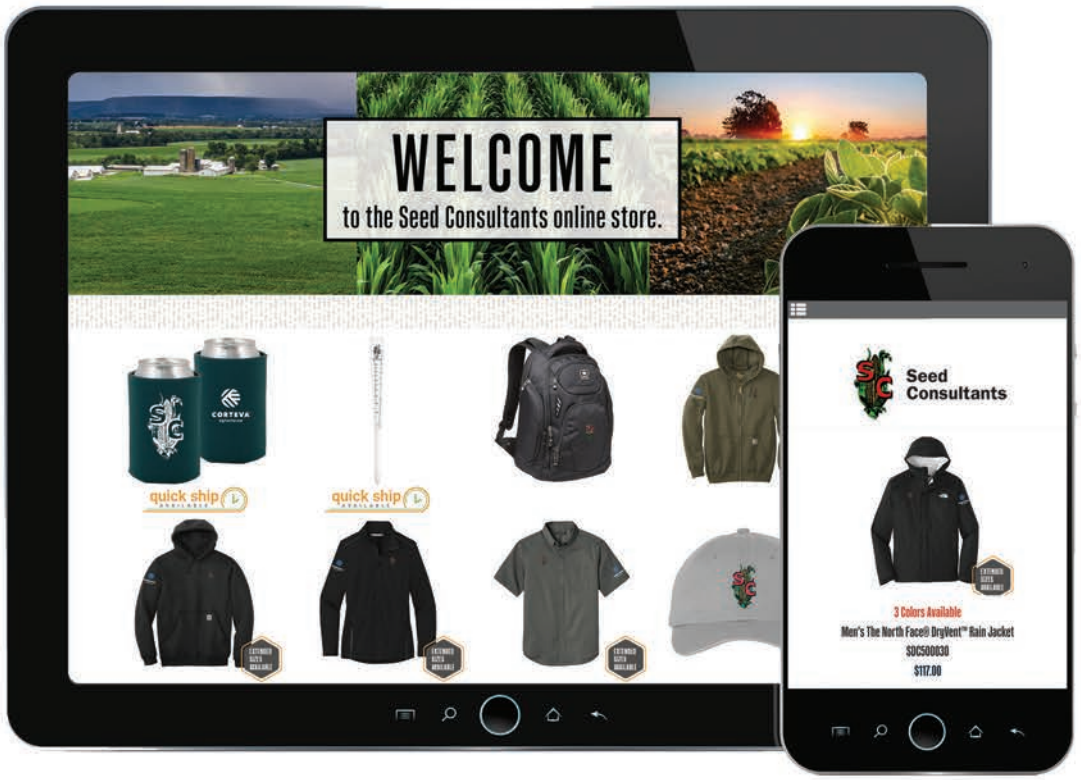
POWERCORE® is a registered trademark of Bayer Group. POWERCORE® multi-event technology developed by Corteva Agriscience and Bayer Group. Liberty®, LibertyLink and the Water Droplet Design are registered trademarks of BASF. ®Roundup and Roundup Ready are registered trademarks of Bayer Group. Always follow IRM, grain marketing and all other stewardship practices and pesticide label directions. R.T. products may not yet be registered in all states. Check with your seed representative for the registration status in your state.
CORTEVA agriscience
Enlist COIN
LIBERTY LINK
Roundup Ready CORN 2

ENJOY WEARING SEED CONSULTANTS GEAR?



BE SURE TO CHECK OUT THE SEED CONSULTANTS ONLINE STORE.

VISIT SEEDCONSULTANTS.COM TODAY TO SEE WHAT'S AVAILABLE!

SOYBEANS

SEED CONSULTANTS | SIMPLY BETTER

SOYBEANS

Enlist E3™	MATURITY	FLOWER COLOR	POD COLOR	HILUM COLOR	HARVEST STANDABILITY	PHYTOPHTHORA FIELD TOLERANCE	PRR GENE RESISTANCE	PUBESCENCE
SC 7104E™ BRAND	1.0	W	TN	TN	7	5	1K	LTW
SC 7152E™ BRAND	1.5	PU	BR	BR	7	4	1K	LTW
SC 7182E™ BRAND	1.8	PU	BR	BL	7	4	1K	LTW
SC 7215E™ BRAND	2.1	W	TN	BR	6	6	1C	LTW
SC 7234E™ BRAND	2.3	PU	BR	BR	8	4	1K	LTW
SC 7255E™ BRAND	2.5	PU	BR	BL	8	NR	1K, 3A	LTW
SC 7285E™ BRAND	2.8	PU	BR	BL	8	NR	1K, 3A	LTW
SC 7293E™ BRAND	2.9	PU	TN	BL	6	4	1K	LTW
SC 7315E™ BRAND	3.1	PU	TN	BR	6	5	1K	LTW
SC 7332E™ BRAND	3.3	PU	BR	BR	6	3	1K	LTW
SC 7355E™ BRAND	3.5	PU	BR	BL	6	NR	1K, 3A	LTW
SC 7364E™ BRAND	3.6	W	BR	BL	6	4	1K	LTW
SC 7375E™ BRAND	3.7	PU	BR	BL	6	5	1K	LTW
SC 7385E™ BRAND	3.8	W	BR	BR	6	4	1K	LTW
SC 7412E™ BRAND	4.1	PU	BR	BL	6	4	NG	LTW
SC 7444E™ BRAND	4.4	W	BR	BL	6	4	NG	LTW
SC 7465E™ BRAND	4.6	PU	BR	BL	6	5	NG	LTW
SC 7485E™ BRAND	4.8	W	BR	BL	6	5	1C	LTW
SC 7514E™ brand	5.1	W	BR	BL	8	4	1K	TW
SC 7562E™ BRAND	5.6	PU	BR	IB	6	5	1K	G

Ratings 1 to 9 with 9 being the best
Aphid Antibiosis: predicted feeding and colony establishment tolerance levels • AA: above average • A: average • BA: below average
Scouting and spraying are still required; but predicted population growth may be slower at AA ratings

Agronomic Ratings 1 to 9 with 9 being the best

EMERGENCE RATING	PLANT HEIGHT	PLANT HABIT	SCN RESISTANCE	BSR	SWM	SDS	FROGEYE	CHARCOAL ROT	STEM CANKER TOLERANCE
7	M	MB	R3, R14	8	6	3	3	6	RES
7	M	MB	R3, R14	8	6	6	3	6	RES
8	M	MB	R1, R3. R5	6	5	6	8	5	RES
7	M	MB	R3, R14	7	4	6	5	7	RES
7	M	MB	R1, R3, R5	6	6	6	8	5	RES
9	M	MB	R3, R14	7	4	6	6	6	RES
8	M	MB	R1, R3, R5	6	5	8	8	4	RES
7	M	MB	R3, R14	7	4	6	6	6	RES
7	M	MB	R3, R14	8	4	7	6	7	RES
7	M	MB	R1, R3, R5	7	3	5	8	7	RES
7	M	MB	R3, R14	4	4	5	7	5	RES
7	M	MB	R3, R14	8	NR	5	3	6	RES
7	MS	MB	R3, R14	8	5	6	6	7	RES
7	M	MB	R1, R3, R5	6	4	7	8	7	RES
6	M	MB	R3, R14	8	NR	6	5	6	RES
7	M	MB	R3, R14	4	NR	5	3	6	RES
7	M	MB	R3, R14	8	NR	6	6	6	RES
6	M	MB	R3, R14	4	NR	6	5	7	RES
6	M	MB	R3, R14	4	NR	6	3	6	RES
7	M	B	R3, R14	6	NR	4	4	7	RES

IMPORTANT: Trait rating scores provide key information useful in selecting and managing products in your area. Information and ratings are based on comparisons with other products sold by SCI. Information and scores are assigned by SCI and are based on period-of-years testing through 2023 harvest and were the latest available at time of printing. Some scores may change after 2024 harvest. Scores represent an average of performance data across areas of adaptation, multiple growing conditions and a wide range of both climate and soil types and may not predict future results. Individual product responses are variable and subject to a variety of environmental, disease and pest pressures. Please use this information as only one component of your product positioning decision.

Agronomic Ratings 1 to 9 with 9 being the best

LumiGEN Seed Treatments

2025 Soybean Seed Treatment Portfolio

PREMIUM PACKAGE

Our powerful combination of 6 different modes of action enhanced by LumiTreo™ fungicide seed treatment leads the industry in yield protection against early-season diseases.

- LumiTreo™ offers best in class protection against the number one early-season disease in soybeans, *Phytophthora*.
- Multiple modes of action against *Pythium*, *Rhizoctonia*, *Fusarium* and *Phomopsis* with Sebring® metalaxyl and L-2030R bio-fungicide helps maximize yield with healthy uniform stand establishment.

Fungicide Seed Treatment Package
LumiTreo™
Lumiante™
Sebring® metalaxyl
L-2030 R bio-fungicide
Insecticide Seed Treatment
Phalanx™

Lumiante™

FUNGICIDE SEED TREATMENT

Lumiante™ fungicide seed treatment protects seed investments from early season disease pressure, providing control against metalaxyl-resistant Pythium species, Phytophthora and other water molds (oomycetes)

PROTECTION

Diseases:

- Phytophthora
- Pythium
- Fusarium
- Rhizoctonia
- Phomopsis

LumiTreo™

FUNGICIDE SEED TREATMENT

LumiTreo™ backed by Lumisena®

Best-in-class protection against *Phytophthora*

4.0 bu/A YIELD ADVANTAGE[1] in high stress environments vs. high rate metalaxyl

1.0 bu/A YIELD ADVANTAGE[1] benefit across the farm vs. high rate metalaxyl

Protection Against Key Diseases With LumiGEN® Seed Treatments for Soybeans

Brand Name	Active Ingredients	Phytophthora	Pythium	Rhizoctonia	Fusarium	Phomopsis
LumiTreo™	Oxathiapiprolin	x				
	Ipconazole			x	x	x
	Picoxystrobin		x	x	x	
Lumiante™	Ethaboxam	x	x			
Sebring®	Metalaxyl		x			
L-2030 R Bio-fungicide				x*	x*	
Number of Modes of Action		**2**	**3**	**3**	**3**	**1**

* Labeled suppression

CORTEVA™ agriscience

INSECTICIDE PACKAGE

Invest in a healthy, uniform stand with protection from early-season insects.

- For growers who are investing in tools and practices to drive higher yields on their soybean acres
- New for 2025, Phalanx™, a neonicotinoid insecticide, provides broad-spectrum control of key early season pests

EARLY SEASON PROTECTION

Insects:

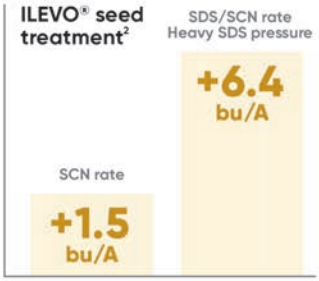
- Bean leaf beetle
- Early season aphids
- Seedcorn maggot
- White grub
- Wireworm
- Thrips

OPTION TO ADD TO ANY PACKAGE

ADD ILEVO® FUNGICIDE/ NEMATICIDE SEED TREATMENT

A rate of extra protection for fields at risk to soybean cyst nematode (SCN) and sudden death syndrome (SDS)

- At higher rate – protection against SCN and SDS



ADD L-120+ RHIZOBIAL INOCULANT

- Improves nitrogen fixation
- Helps prolong rhizobia up to 120 days after application

Phalanx™ INSECTICIDE SEED TREATMENT / ILEVO® Seed Treatment / LumiTreo™ FUNGICIDE SEED TREATMENT / Lumiante™ FUNGICIDE SEED TREATMENT / L-120+ RHIZOBIAL INOCULANT PLUS

[1] Data is based on 638 head-to-head comparisons between Lumisena® fungicide seed treatment (0.568 fl oz/cwt) and metataxyl (0.75 fl oz/cwt) in the top 10 soybean-producing states through Dec. 12, 2017, and subsequent replicated trials in 2018, 2019 and 2020. Comparisons were made utilizing the same soybean variety. DO NOT USE THIS OR ANY OTHER DATA FROM A LIMITED NUMBER OF TRIALS AS A SIGNIFICANT FACTOR IN PRODUCT SELECTION.

[2] Data is based on average of comparisons in Corteva Agriscience Science trials from 2012-2015 at 165 locations.

[3] Statistically significant improvement in plant stands (gaps) and vigor based on Corteva Agriscience research data from 2019 – 2022, 153 locations.

[4] Statistically significant improvement in yield resulting in a 1 – 3 bu/a advantage base on Corteva Agriscience research data from 2019 – 2022, 145 locations.

The foregoing is provided for informational use only. Please contact your Corteva sales professional for information and suggestions specific to your operation. Product performance is variable and depends on many factors such as moisture and heat stress, soil type, management practices and environmental stress as well as disease and pest pressures. Individual results may vary.

Lumiderm® insecticide seed treatment, LumiTreo™ fungicide seed treatment, Lumiante™ fungicide seed treatment and Phalanx™ may not be registered for sale in all states. Contact your state pesticide regulatory agency to determine if a product is registered for sale or use in all states. Always read and follow label directions.

The information presented here is not an offer for sale. This is not intended as a substitute for the product label for the product(s) referenced herein. The information contained in this technical document is based on the latest to-date technical information available to Corteva Agriscience, and Corteva reserves the right to update the information at any time.

Components of LumiGEN® seed treatments for soybeans are applied at a Corteva Agriscience production facility, or by an independent sales representative of Corteva Agriscience or its affiliates. Not all sales representatives offer treatment services, and costs and other charges may vary. See your sales representative for details. Seed applied technologies exclusive to Corteva Agriscience and its affiliates.

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020120_soybean MCS (03/24)

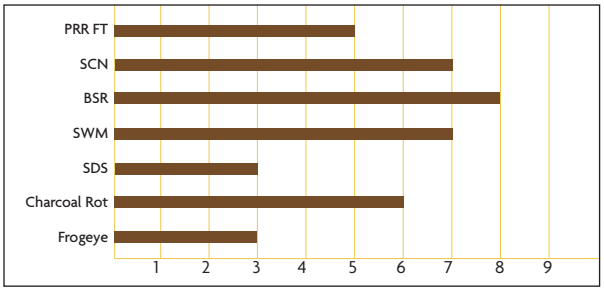
CORTEVA™ agriscience

SC 7104E™ brand

ENLIST E3® • 140,000/UNIT

MATURITY: 1.0 • Early Group I

KEY FEATURES:
- Replaces SC 7100E™ brand with improved yield potential
- Solid disease package
- Very good emergence
- Improved white mold tolerance
- 1K for PRR

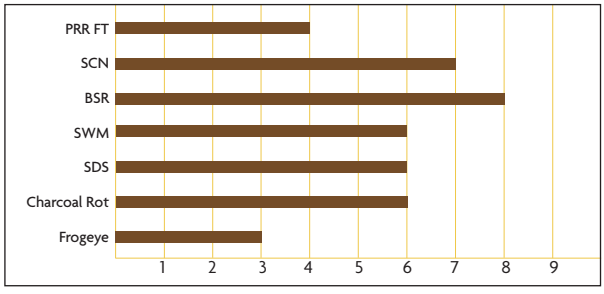


SC 7152E™ brand

ENLIST E3® • 140,000/UNIT

MATURITY: 1.5 • Mid Group I

KEY FEATURES:
- Proven eastern genetics
- Strong agronomic traits
- Very good SWM tolerance
- 1K gene for PRR and solid field tolerance
- Outstanding SDS tolerance

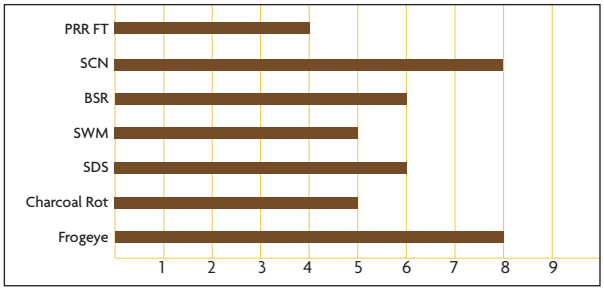


SC 7182E™ brand

ENLIST E3® • 140,000/UNIT

MATURITY: 1.8 • Late Group I

KEY FEATURES:
- Outstanding emergence
- Strong agronomic package
- 1K gene for PRR protection
- Strong eastern testing performance
- Very good SWM tolerance
- Peking SCN resistance



Agronomic Ratings 1 to 9 with 9 being the best

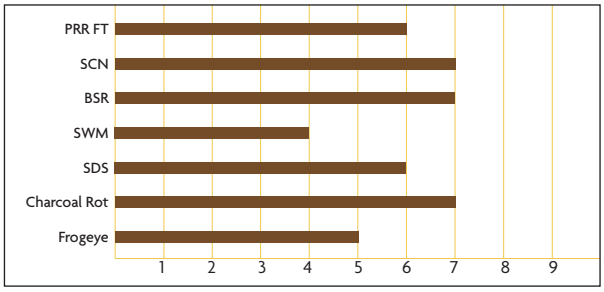
SC 7215E™ brand

NEW

ENLIST E3® • 140,000/UNIT

MATURITY: 2.1 • Early Group II

KEY FEATURES:
- Replaces SC 7212E™ brand with improved performance and disease tolerance
- Good emergence
- Improved BSR, SDS, and CHR
- 1C gene and good PRR field tolerance
- Good harvest standability



Enlist E3 SOYBEANS

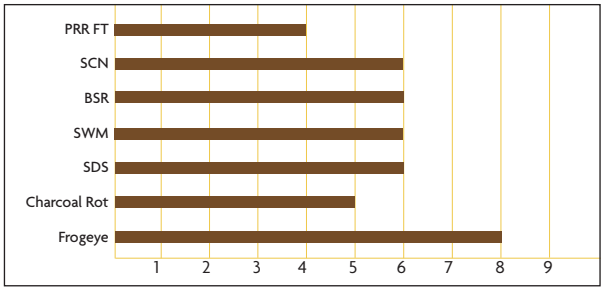
SC 7234E™ brand

EASTERN ADAPTATION WITH STRONG DISEASE PACKAGE

ENLIST E3® • 140,000/UNIT

MATURITY: 2.3 • MID GROUP II

KEY FEATURES:
- Impressive eastern yield potential
- Excellent emergence
- Good tolerance to the eastern disease complex
- Peking SCN resistance
- Excellent harvest standability



Enlist E3 SOYBEANS

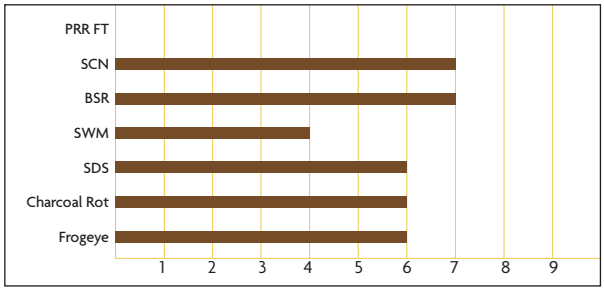
SC 7255E™ brand

NEW

ENLIST E3® • 140,000/UNIT

MATURITY: 2.5 • Mid Group II

KEY FEATURES:
- Replaces SC 7252E™ brand with improved performance and defensive traits
- Outstanding emergence
- Stacked 1K and 3A PRR genes
- Good frogeye leaf spot tolerance
- Very good harvest standability
- Nice plant height and canopy width



Enlist E3 SOYBEANS

Agronomic Ratings 1 to 9 with 9 being the best

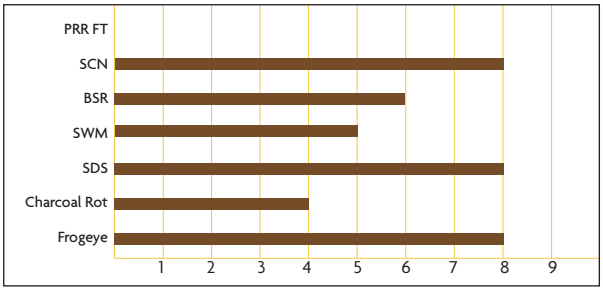
SC 7285E™ brand

NEW

ENLIST E3® • 140,000/UNIT

MATURITY: 2.8 • Late Group II

KEY FEATURES:
- Replacement for SC 7282E™ brand with improved offense and defense
- Very good emergence and standability
- Peking SCN resistance
- Improved SWM, SDS, and FE
- Stacked 1K and 3A genes for PRR



Enlist E3 SOYBEANS

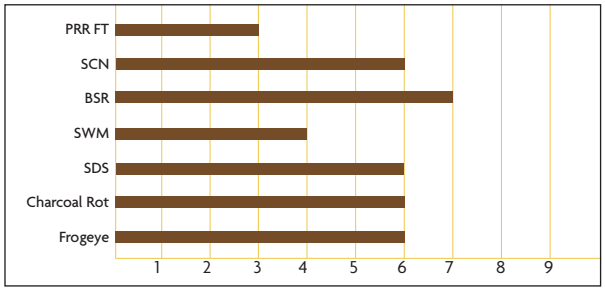
SC 7293E™ brand

EASTERN LEADER WITH PROVEN PERFORMANCE

ENLIST E3® • 140,000/UNIT

MATURITY: 2.9 • Late Group II

KEY FEATURES:
- Impressive eastern yield potential
- Strong disease package: FE, SDS, BSR
- Replaces SC 7302E™ brand with improved performance and defensive traits
- Very good emergence



Enlist E3 SOYBEANS

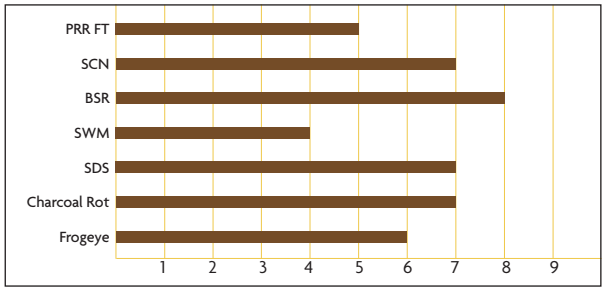
SC 7315E™ brand

NEW

ENLIST E3® • 140,000/UNIT

MATURITY: 3.1 • Early Group III

KEY FEATURES:
- Replacement for SC 7311E™ brand and SC 7322E™ brand
- Strong testing performance in the eastern Corn Belt
- Good emergence
- Improved BSR, SWM, SDS, and CHR
- 1K gene and good PRR field tolerance



Enlist E3 SOYBEANS

Agronomic Ratings 1 to 9 with 9 being the best

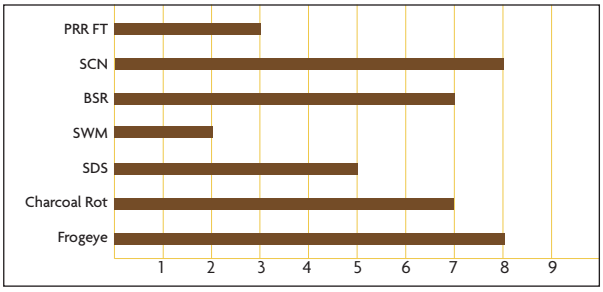
SC 7332E™ brand

WIDELY ADAPTED LINE WITH STRONG PERFORMANCE IN THE EASTERN CORN BELT

ENLIST E3® • 140,000/UNIT

MATURITY: 3.3 • Mid Group III

KEY FEATURES:
- Widely adapted yield leader
- Exceptional emergence
- 1K gene for PRR
- Outstanding frogeye leaf spot
- Peking SCN tolerance
- Proven performance against established varieties



Enlist E3 SOYBEANS

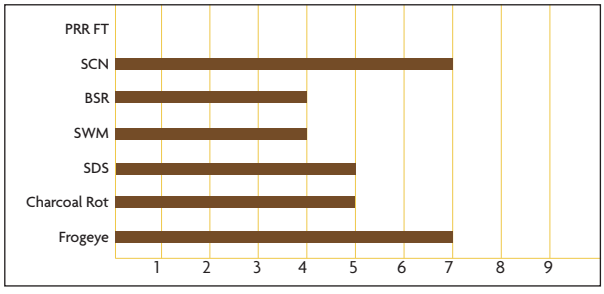
SC 7355E™ brand

NEW

ENLIST E3® • 140,000/UNIT

MATURITY: 3.5 • Mid Group III

KEY FEATURES:
- Replaces SC 7341E™ brand with improved yield potential
- Stacked 1K and 3A genes for PRR
- Improved SWM and FE compared to SC 7341E™ brand
- Good emergence and harvest standability



Enlist E3 SOYBEANS

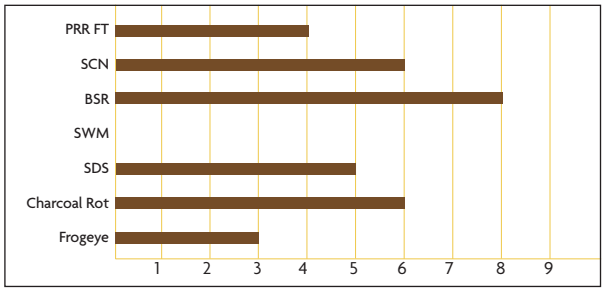
SC 7364E™ brand

STRONG EASTERN CORN BELT PERFORMANCE

ENLIST E3® • 140,000/UNIT

MATURITY: 3.6 • Mid Group III

KEY FEATURES:
- Performance improvement over established lines
- Strong eastern Corn Belt adaptation
- Very good emergence
- Attractive line with nice branching and standability



Enlist E3 SOYBEANS

Agronomic Ratings 1 to 9 with 9 being the best

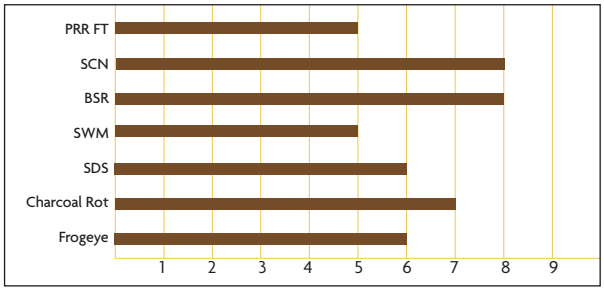
SC 7375E™ brand

NEW

ENLIST E3® • 140,000/UNIT

MATURITY: 3.7 • Late Group III

KEY FEATURES:
- Replaces SC 7372E™ brand with improvement in yield potential
- 1K gene for PRR and good field tolerance
- Improved BSR, SWM, and SDS
- Good emergence
- Very good CHR
- Nice canopy width



Enlist E3 SOYBEANS

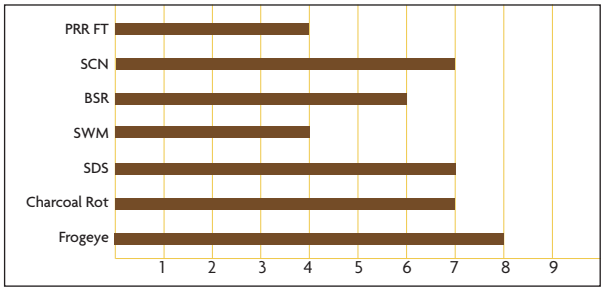
SC 7385E™ brand

NEW

ENLIST E3® • 140,000/UNIT

MATURITY: 3.8 • Late Group III

KEY FEATURES:
- Replaces SC 7381E™ brand and SC 7390E™ brand with improved offense and defense
- 1K for PRR
- Peking SCN resistance
- Exceptional frogeye leaf spot tolerance
- Good emergence



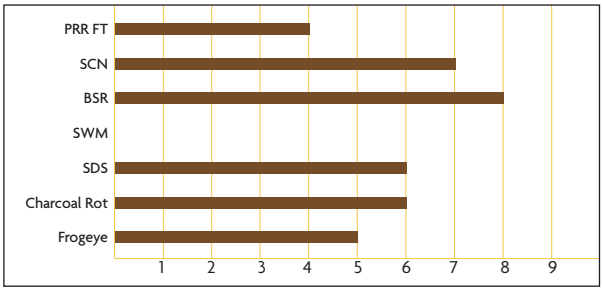
Enlist E3 SOYBEANS

SC 7412E™ brand

ENLIST E3® • 140,000/UNIT

MATURITY: 4.1 • Early Group IV

KEY FEATURES:
- Exceptional yield potential
- Very good emergence
- Excellent stem canker gene tolerance
- Solid defensive traits
- Good CHR and frogeye leaf spot tolerance



Enlist E3 SOYBEANS

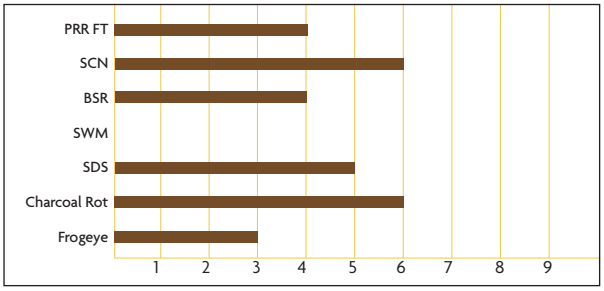
Agronomic Ratings 1 to 9 with 9 being the best

SC 7444E™ brand

ENLIST E3® • 140,000/UNIT

MATURITY: 4.4 • Mid Group IV

KEY FEATURES:
- Exceptional yield potential for mid-south and Delmarva
- Replacement for SC 7421™ brand
- Strong eastern testing performance
- Very good emergence



Enlist E3 SOYBEANS

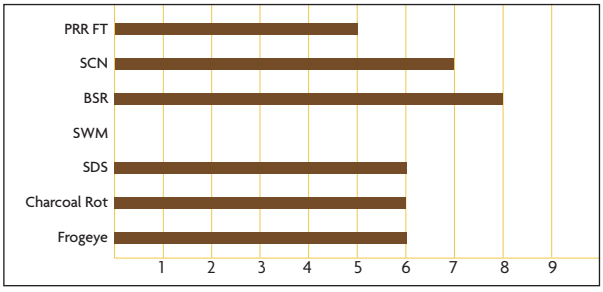
SC 7465E™ brand

NEW

ENLIST E3® • 140,000/UNIT

MATURITY: 4.6 • Mid Group IV

KEY FEATURES:
- Replaces SC 7462E™ brand with improved yield potential
- Very good emergence
- Improved BSR, SDS, root-knot peanut nematode, and FE
- Good PRR field tolerance
- Good harvest standability



Enlist E3 SOYBEANS

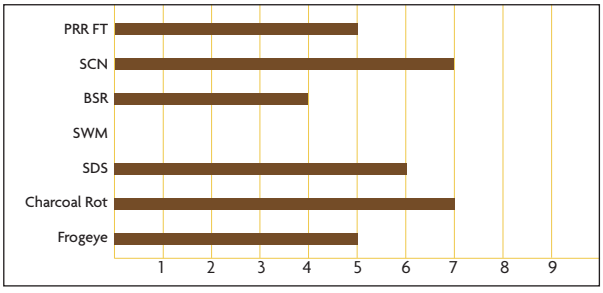
SC 7485E™ brand

NEW

ENLIST E3® • 140,000/UNIT

MATURITY: 4.8 • Late Group IV

KEY FEATURES:
- Replacement for SC 7481E™ brand with yield advantage
- Improved frogeye leaf spot tolerance
- Good emergence and standability
- 1C for PRR and good field tolerance



Enlist E3 SOYBEANS

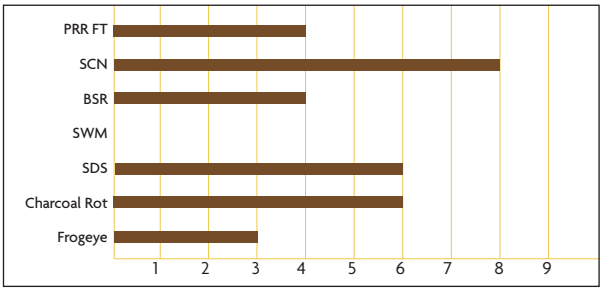
Agronomic Ratings 1 to 9 with 9 being the best

SC 7514E™ brand

ENLIST E3® • 140,000/UNIT

MATURITY: 5.1 • Early Group V

KEY FEATURES:
- Good performance in the mid and deep south
- Attractive tawny line
- Solid disease package
- Good agronomics
- Exceptional harvest standability

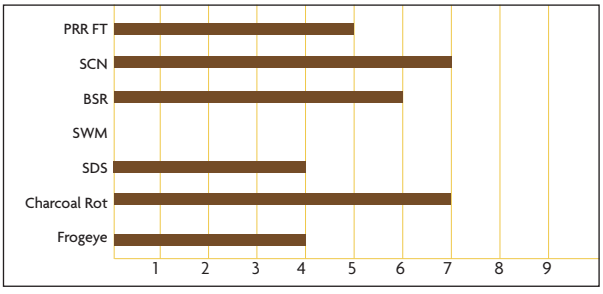


SC 7562E™ brand

ENLIST E3® • 140,000/UNIT

MATURITY: 5.6 • Mid Group V

KEY FEATURES:
- 5.6 determinate variety
- Excellent choice for varying soils and tough growing environments
- Excellent emergence
- 1K gene for PRR and very good tolerance
- Nice plant height and canopy width
- Outstanding root-knot nematode resistance



Agronomic Ratings 1 to 9 with 9 being the best

Guide for Soybean Replant Decision

Yield effects from reduced plant populations,
uniform stands and weed-free conditions.

Population Plants/Acre	Yield as % of Normal	
	Solid Seed	30 in. Row
160,000	100	100
120,000	100	100
80,000	96	100
60,000	92	94
40,000	87	88
20,000	77	81
10,000	58	72

Yield effects of reduced stands

Plant Spacings	Yield as % of Normal
2 ft. skips--50% of row	94
3 ft. skips--50% of row	87
4 ft. skips--50% of row	85

Yield effects from delayed planting (uniform stands)

Planting Date	Yield as % of Normal	
	Mid-Season Variety	Full-Season Variety
May 20th	100	100
May 30th	96	94
June 10th	92	90
June 20th	82	78
June 30th	70	NR*
July 10th	60**	NR*

**NR--not recommended*
*** In Indiana and Ohio--south of I-70 only*
****According to Ohio State University Extension*

Soybean Planting Rate Recommendation

Soybean planting rates are directly related to several factors:
TREATED VS. UNTREATED SEED: add 10% to seeding rate for untreated seed.
PLANTING DATE: add 10% to seeding rate for seed planted prior to April 25th, and 10% to seeding rate for seed planted after May 20th.
CONVENTIONAL VS. NO-TILL: add 10% to seeding rate for no-till.
SOIL TYPE: add 10% to seeding rate for lower organic matter soils and tighter clay soils.

	Ideal Conditions		Less Favorable Conditions
7.5" Row	160,000	to	200,000
15" Row	140,000	to	180,000
30" Row	120,000	to	160,000

SOYBEAN RECOMMENDED PLANTING RATE
Pounds of Seed Per Acre

Seeds Per Pound	DESIRED SEEDS PER ACRE					
	125,000	140,000	150,000	175,000	200,000	225,000
2,000	63	70	75	88	100	113
2,100	60	67	71	84	95	107
2,200	57	64	68	80	91	102
2,300	54	61	65	76	87	98
2,400	52	58	63	73	83	94
2,500	50	56	60	70	80	90
2,600	48	54	58	67	77	87
2,700	46	52	56	65	74	83
2,800	45	50	54	63	71	80
2,900	43	48	52	60	69	78
3,000	42	47	50	58	67	75
3,100	40	45	48	56	65	73
3,200	39	44	46	54	63	70
3,300	38	42	45	52	61	68
3,400	37	41	44	51	59	66
3,500	36	40	43	50	57	64
3,600	34	38	41	47	54	63
3,700	35	39	42	49	56	61
3,800	33	37	40	46	53	59
3,900	32	36	39	45	51	58

Row Spacing	SEEDS PER FOOT ROW					
	125,000	140,000	150,000	175,000	200,000	225,000
7"	1.67	1.87	2.00	2.34	2.68	3.00
10"	2.39	2.68	2.87	3.34	3.82	4.30
15"	3.59	4.02	4.30	5.02	5.74	6.45
30"	7.17	8.03	8.60	10.00	11.40	12.91
36"	8.60	9.64	10.30	12.00	13.80	15.45
38"	9.00	10.21	10.90	12.70	14.50	16.40

**According to Ohio State University Extension*

WHAT'S IN THE BAG

PRODUCT NAME	HERBICIDE TOLERANCE	FEATURES
Enlist E3 SOYBEANS	• 2,4-D choline in Enlist® herbicides • Glyphosate • Glufosinate	• Tolerance to 3 herbicides • Enlist herbicides feature up to 90% reduction in drift compared with traditional 2,4-D and 96% reduction in volatility compared with 2,4-D ester • Compatible with nearby nonsusceptible crops: soybeans, corn, peanuts, alfalfa, wheat and sorghum • Wide application window—apply Enlist herbicides up to R2 or full-flowering stage

The transgenic soybean event in Enlist E3® soybeans is jointly developed and owned by Corteva Agriscience and M.S. Technologies L.L.C.

Corteva Agriscience products are commercialized in accordance with ETS Product Launch Stewardship Guidance and in compliance with the Corteva Agriscience policies regarding stewardship of those products. In line with these guidelines, our product launch process for responsible launches of new products includes a longstanding process to evaluate export market information, value chain consultations, and regulatory functionality. Growers and end-users must take all steps within their control to follow appropriate stewardship requirements and confirm their buyer's acceptance of the grain or other material being purchased. For more detailed information on the status of a trait or stack, please visit www.biotradestatus.com.

Following burndown, 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 with Enlist® crops. Consult Enlist® herbicide labels for weed species controlled. Enlist Duo and Enlist One herbicides are not registered for use or sale in all states and counties; are not registered in AK, CA, CT, HI, ID, MA, ME, MT, NH, NV, OR, RI, UT, VT, WA and WY; and have additional subcounty restrictions in AL, GA, TN and TX, while existing county restrictions still remain in FL. All users must check "Bulletins Live! Two" no earlier than six months before using Enlist One or Enlist Duo. To obtain "Bulletins," consult epa.gov/espp/, call 1-844-447-3813, or email ESPP@epa.gov. You must use the "Bulletin" valid for the month and state and county in which Enlist One or Enlist Duo are being applied. Contact your state pesticide regulatory agency if you have questions about the registration status of Enlist® herbicides in your area. 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. ONLY USE FORMULATIONS THAT ARE SPECIFICALLY LABELED FOR SUCH USE IN THE STATE OF APPLICATION. USE OF PESTICIDE PRODUCTS, INCLUDING, WITHOUT LIMITATION, 2,4-D-CONTAINING PRODUCTS NOT AUTHORIZED FOR USE WITH ENLIST CROPS, MAY RESULT IN OFF-TARGET DAMAGE TO SENSITIVE CROPS/AREAS AND/OR SUSCEPTIBLE PLANTS, IN ADDITION TO CIVIL AND/OR CRIMINAL PENALTIES. Additional product-specific stewardship requirements for Enlist crops, including the Enlist Product Use Guide, can be found at HYPERLINK "https://www.traitstewardship.com./"www.traitstewardship.com.

Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship.

Always follow grain marketing, stewardship practices and pesticide label directions.

CORTEVA™ agriscience

According to Ohio State extension..

Plant Food Removed in Harvested Crop

Crop	Unit	N	P_2O_5	K_2O
Corn	lb/bu	.75	.44	.29
Soybeans	lb/bu	4.00	.80	1.40
Grain Sorghum	lb/cwt	1.50	.75	.38
Wheat	lb/bu	1.15	.55	.34
Oats	lb/bu	.80	.25	.20
Barley	lb/bu	1.10	.40	.35
Sunflower	lb/cwt	3.60	1.70	1.10
Alfalfa	lb/ton	56.00	15.00	60.00
Corn Silage	lb/ton	8.30	3.60	8.30
Tall Fescue	lb/ton	38.00	18.00	52.00
Clover/Grass	lb/ton	50.00	15.00	60.00
Sorghum/Sudan	lb/ton	40.00	15.00	58.00
Potatoes	lb/cwt	.35	.15	.56
Tomatoes	lb/ton	3.60	.170	7.20
Sugar Beets	lb/ton	4.20	.50	8.30
Tobacco (Flue)	lb/cwt	2.80	.50	5.20
Tobacco (Burley)	lb/cwt	4.30	.43	4.70

Plant Food Uptake (PFU) for Midwest Crops

		Nutrient Uptake, lb/A**				
Crop	Yield/Acre	N	P_2O_5	K_20	Mg	S
Corn	120 bu.	160	68	160	39	20
	160 bu.	213	91	213	52	26
	200 bu.	266	114	266	65	33
Soybeans*	40 bu.	224	38	144	16	14
	60 bu.	315	58	205	24	20
	80 bu.	416	78	250	32	26
Alfalfa*	4 tons	225	60	240	20	20
	6 tons	338	90	360	30	30
	8 tons	450	120	480	40	40
Wheat	50 bu.	94	34	102	15	13
	75 bu.	141	51	152	23	19
	100 bu.	188	68	203	30	25
Grain	4,500 lb.	133	47	135	22	21
Sorghum	7,500 lbs.	222	79	225	38	35
Fescue	3 tons	114	56	158	11	12
	6 tons	228	112	316	22	24

* Legumes get most of their nitrogen from the air.

** Figures given are total amounts taken up by the crop in both the harvested and the above ground unharvested portions. These numbers are estimates for indicated yield levels, taken from research studies, and should be used only as general guidelines.

Seed Consultants

Forage Field Seed Rates

Crop	Seeding Rate lbs/acre	Depth To Sow inches	Planting Date
Alfalfa	12 to 20	1/2"	Mar 1-May 1 Aug 1-Sept 15
Birdsfoot Trefoil	8 to 12	1/2"	Mar 1-May 1
Bluegrass, Ky. (pasture)	20 to 30	1/2"	Early Spring or Aug-Sept
Bromegrass, Smooth	10 to 12	1/2"	Mar-Apr or Aug 1-Sept 15
Buckwheat	40 to 50	1/2" to 1"	June-July 15
Clover, Alsike	6 to 8	1/2"	Mar-Apr or Aug
Crimson	12 to 20	1/2"	July-Aug
Ladino (or White)	4 to 6	1/2"	Mar-Apr or Aug
Red (Med. or Mamm)	10 to 15	1/2"	Mar-Apr or Aug
Sweet	10 to15	1/2"	Mar 15-Apr 30
Crownvetch	20 to 25	1/2"	Feb-Sept
Fescue, Tall	12 to 20	1/2"	Mar-Apr or Aug
Lespedeza, Korean (H)	10 to 15	1/2"	Feb 15-Mar 31
Millet, Hybrid Pearl	8 to 12 rows	1/2"	After frost danger
Millet, Hybrid Pearl	35 to 40 brdcst	1/2"	Through June 30
Oats, Spring	64 to 80	1" to 1-1/2"	Mar-Apr
Orchardgrass	10 to 15	1/2"	Mar-Apr or Aug-Sept
Rape, Dwarf Essex	6 to 10	1/2"	April-Aug
Reed Canarygrass	8 to 10	1/2"	Mar-Apr or Aug-Sept
Rye Gain	84 to 112	1" to 1-1/2"	Aug-Sept
Ryegrass, Tetraploid Per.	20 to 25	1/2"	Mar-Apr or Aug-Sept
Sorghum, Grain	8 to 12	1/2" to 1"	May
Sorghum, Sudangrass	20 to 30 rows	1/2" to 1"	May-June 15
Sorghum, Sudangrass	20 to 30 brdcst	1/2" to 1"	May-June 15
Spelt	60 to 80	1" to 1-1/2"	Sept-Oct 5
Sudangrass	25	1/2" to 1"	May-June 15
Sunflower	3 to 5	1 to 1-1/2"	May-June
Switchgrass	6 to 8 pls	1/2"	May-June
Timothy	10 to 15	1/2"	Mar-Apr or Aug-Sept
Triticale,Fall	90 to 100	1" to 1-1/2"	Aug-Sept 15

Stand Counts*

No. of Plants		Plants (Thousands)/Acre								
	One	Loop (inside diameter)								
	Sq. Yard	30"	31"	32"	33"	34"	35"	36"	37"	38"
1	4.8	8.9	8.3	7.8	7.3	6.9	6.5	6.2	5.8	5.5
10		89	83							
11		98	91	86						
12		107	100	94	88	83				
13		116	108	101	95	90	85			
14		124	116	109	103	97	91	86		
15		133	125	117	110	104	98	92	88	
16		142	133	125	117	110	104	99	93	89
17		151	141	133	125	117	111	105	99	94
18	87	160	150	140	132	124	117	111	105	100
19	92	169	158	148	139	131	124	117	111	105
20	97	178	166	156	147	138	130	123	117	111
21	102	187	175	164	154	145	137	129	123	116
22	106	196	183	172	161	152	143	136	128	122
23	111	204	191	179	167	159	150	142	134	127
24*	116	213	200	187	176	166	157	148	140	133
25	121	222	208	195	183	173	163	154	146	138
26	126		216	203	191	179	170	160	152	144
27	131		224	211	198	186	176	166	158	149
28	136			218	205	193	183	173	163	155
29	140			226	213	200	189	179	169	161
30	145				220	207	196	185	175	166
31*	150					214	202	191	181	172
32	155					221	209	197	187	177
33	160						215	203	193	183
34	165						222	209	199	188
35	169							216	204	194
36	174							222	210	199
37	179								216	205
38	184								222	210
39	189									216
40	193									221
41	198									
42	203									
RCL		94"	97"	100.5"	104"	107"	110"	113"	116"	119"

* Examples: 1) If you count 31 plants per square yard, your plant population is 150,000 per acre. 2) If you count 24 plants inside a 34" (inside diameter) "Rope Circumference Loop" your plant population is 166,000 per acres. In either case make at least 10 random counts per field. To determine stand populations in solid seeded and drilled beans, use the Rope Circumference Loop (RCL) method.

Farm Formulas

Area

Area of a circle = radius squared x 3.1416 or diameter squared x .07854

Area of rectangle or square = length x width

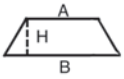
Area of triangle = base x height/2

Area of parallelogram = length x width

Area of pentagon (5 equal sides) = length of one side squared x 1.720

Area of a hexagon (6 equal sides) = length of one side squared x 2.598

Area of an octagon (8 equal sides) = length of one side squared x 4.838



Area of a trapezoid = $\frac{A + B}{2}$ x H

Surface of a globe = diameter squared x 3.1416

Farm Formulas

Volume

To find the bushel capacity of bins, cribs, piles:
Divide volume in cubic feet by 1.25 (2.25 for ear corn).

To find the volume of a square or rectangular bin or crib:

Multiply width x length x height

To find the volume of a round bin or crib:

Multiply radius of base x radius x 3.1416 x height

To find the volume of a pile or round hopper bottom (cone):

Multiply radius of base x radius x 1.0472 x height

To find the volume of a square tank hoper bottom (pyramid):

Multiply area of base x 1/3 x height

To find the volume of a pile against a straight wall (1/2 cone):

Divide volume of a full cone by 2

To find the volume of a sphere or globe:

Cube its radius, then multiply by 4.1888.

Weights and Measures

	Distance
1 Foot	= 12 Inches
1Yard	= 36 Inches
	= 3 Feet
1 Mile	= 5,280 Feet
	= 1,760 Yards
1 Rod	= 16.5 Feet
	= 5.5 Yards
	Volume
1 Cubic Foot	= 1,728 Cubic Inches
1 Cubic Yard	= 27 Cubic Feet
1 Cubic Foot	= 7.48 Gallons
	= 62.4 Lbs. Water
1 Gallon	= 8.345 Lbs. Water
Cubic Foot/27	= Cubic Yards
	Weight
1 Pound	= 16 Ounces
1 Ton	= 2,000 Pounds
1 Metric Ton	= 2,205 Pounds
	Area
1 Sq. Ft.	= 144 Sq. Inches
1 Sq. Yard	= 9 Sq. Feet
	= 1,296 Sq. Inches
1 Acre	= 43,560 Sq. Feet
1 Sq. Mile	= 640 Acres
	Capacity
1 Cup	= 8 Fluid Ounces
1 Pint	= 16 Fluid Ounces
	= 2 Cups
1 Quart	= 32 Fluid Ounces
	= 4 Cups
	= 2 Pints
1 Gallon	= 128 Fluid Ounces
	= 16 Cups
	= 8 Pints
	= 4 Quarts
1 Liter	= 1.06 Quarts

Checking Corn Populations

Length of row equal to 1/1000 acre at different row widths.

Row	Length Equal to 1/1000 Acre
7"	74' 8"
10"	52' 3"
15"	34'10"
20"	26' 2"
30"	17' 5"
36"	14' 6"
38"	13' 9"
40"	13' 1"

Corn Yield Estimate Formula

EARS per 1/1000 of an acre X no. of rows (width) X no. of kernals per row (length) X .01116 = ESTIMATED BUSHELS per ACRE at 15.5%.

Soybean Yield Estimate Formula

Average number of PODS per plant X plants per acre = PODS per ACRE.
PODS per ACRE X 2.5 BEANS per POD = BEANS per ACRE.
BEANS per ACRE divided by 2,500 BEANS per Pound = POUNDS per ACRE.
POUNDS per ACRE divided by 60 POUNDS = ESTIMATED BUSHELS PER ACRE.

SEED CONSULTANTS, INC.
648 Miami Trace Road SW / PO Box 370
Washington Court House, Ohio 43160

740-333-8644 (Office) / 800-708-2676 / 740-333-8544 (Fax)

Email: info@seedconsultants.com / **SEEDCONSULTANTS.com**