

TheLife

Summer 2023

by NuTech Seed

A man wearing a dark blue NuTech t-shirt and a baseball cap is smiling and talking to a woman and a young girl. The woman is leaning on a metal railing, and the girl is in the foreground with her back to the camera. They are in a grassy field with a fence in the background.

THE PRODUCT ISSUE

2024 SEED GUIDE INSIDE

Start planning for
next year with our
recommended products

NUTECH GETAWAY RECAP

It was fun in the sun in
festive Puerto Vallarta

TECHNOLOGY & AGRONOMY

Featured products and
our summer watchlist

NEW FACES AT NUTECH

Meet a new team member,
new dealers and our
summer interns

NuTech
Seed®



Coming Soon

Next-gen protection for fields under high rootworm pressure

- ✓ 3 modes of action against below-ground insect pressure
- ✓ Solid defense against above-ground pests
- ✓ Outstanding weed control with Enlist® trait technology
- ✓ Enhanced yield potential and agronomics

We're preparing to bring you the latest in corn trait technology from Corteva Agriscience

Learn more:



Turn to the Technology & Agronomy section to find out about our plans for Vorceed™ Enlist® corn in the NuTech Seed® brand corn lineup (page 70).



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The Vorceed™ Enlist® corn product is not yet available for sale in Canada. Corteva Agriscience is a member of Excellence Through Stewardship® (ETS). 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. Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship.



TO OUR READERS



Once again, the dust has settled and another crop is in the ground. After months prepping equipment, selecting inputs, planting, scouting, spraying and side dressing, now it's time to watch mother nature bring the crop along. To an outsider, it might look like the "hard work" is over, but waiting can be tough. Farming isn't like other industries where a product is cranked out with every shift. You spend months building up to a very short planting window, and then you have to wait many months more to see if you've been successful.

For the team here at NuTech, getting ready to present next year's lineup is a similar exercise. We start more than a year out, walking fields, analyzing mountains of data and making selections to deliver you seed with the most performance potential. Then we invest time in training—getting our district sales managers and dealers up to speed on the nuances of our new hybrids

and varieties so they can assist you with ideal placement on your farm. Now, just as you turn your seed over to mother nature at planting, we turn our product selection over to you—and wait to see the performance it delivers. We know the seed you plant impacts the outcome of your season more than any other input you choose. We take that responsibility seriously, because we know your success depends on it. As you're reviewing the enclosed 2024 Seed Guide, don't hesitate to reach out to one of our team members with any questions you may have. There are a lot of great choices in this year's guide, and we can help make your decisions a little easier.

To our returning customers, thank you for the trust you've shown in us to select the best-fitting lineup for your farm. For those looking at us for the first time, we can't wait to work together and introduce you to the NuTech Lifestyle! You'll soon experience how different it can be when success, enjoyment and family are at the heart of all we do.

Best wishes for a safe and successful summer,

Jim Reifenrath
NuTech General Manager

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Enlist E3 soybeans provide ease, flexibility and yield.

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Lots of new dealers have become part of the NuTech family.

What's happening at NuTech this season?

Meet Kelsey, the newest member of the NuTech team



Kelsey Hill started late last year as a NuTech Sales Support Specialist. She wanted to join NuTech because her values aligned with ours and she wanted to be a part of the NuTech Lifestyle. She says it's exciting to be around people who are so passionate about agriculture.

Kelsey wanted to join an ag company after buying her grandparents' house on her family's farm, which is also close to the NuTech office. She brings with her not just marketing expertise, but also experience working in soybean, corn and wheat fields as a plant pathology intern at the University of Illinois and for Bayer in seed research. She likes combining her ag and marketing skills at NuTech, and says she's always learning something new.

When she's not at work, Kelsey spends time with her husband, five-year-old daughter, two dogs, one cat and nine chickens. She's an avid runner who did cross country and track at Eastern Illinois University and then coached at Monticello High School. Kelsey also likes cooking, gardening, traveling and photography.



Having fun with Farm Fact Friday

In March, NuTech introduced the Farm Fact Friday on our social media channels. In case you've missed any of our posts, here's a fun fact about each state in NuTech territory.

- **Illinois** is the #1 soybean-producing state in the world, with 15% of all U.S. beans being produced there.
- **Indiana** is the 5th largest state producer of corn, soybeans and watermelon.
- **Iowa** has ranked #1 in producing soybeans, corn, pork and eggs.
- **Kentucky** ranks #1 in producing non-alfalfa hay. Plus, it's first in thoroughbred horse breeding.
- **Missouri** is the 2nd leading state in the number of farms in the U.S.; 5% of farms are in Missouri.



Farm Fact Friday series on social media



Follow our social media to catch more fun facts each week. We're on Facebook, Instagram and Twitter. Just search for NuTech Seed.



Agronomy Info & Insights

This spring, NuTech resumed the Agronomy Info & Insights series on our Facebook page for the 2023 growing season. Each Thursday, our agronomists share helpful tips on various topics. Most recently this season, Ryan Booton discussed post spraying tips for corn. Brad Johnson addressed misconceptions of nitrogen applications. Chris Adams shared examples of early season drought stress in corn, what it means for yield and resources to check out in our agronomy library. And Keith Niemeier talked about soybean injury after post spraying. Check it out each week for extra tips and techniques for your farm.



Agronomy Info & Insights series on social media

Visit NuTech's social media channels to view the Agronomy Info & Insights topics covered by our knowledgeable agronomists.



In this video, NuTech Sales Agronomist Ryan Booton shares tips to identify the right program approach to target winter weeds.

MEET OUR INTERNS

Our 2023 NuTech interns are here to learn and grow!

This summer, we're fortunate to have four talented interns join NuTech to share their skills and gain some new ones. We hope they'll have a great season of learning the ins and outs of the seed business, making contacts to help them in the future and creating great memories.



Carson Adams

Agronomy and Sales Intern, Central/Eastern Iowa

Iowa State University, Agricultural Business

Carson grew up on a farm with cattle and row crops just east of Belle Plaine, Iowa, and his dad is an agronomist, so he was exposed to agronomy from a very young age. And he's learning even more in his program at Iowa State. He has interned before, but chose to work for NuTech this summer because he liked our focus on family, plus he believes the experience will help him reach his full potential in the ag business. Carson is looking forward to a summer of learning new agronomy and business skills, building his network and gaining long-lasting memories. What he likes best about interning so far is that he gets to see lots of new parts of Iowa on a daily basis while he's transporting seed and signing fields.

Carson is holding his Australian shepherd, Pepper.



Lacey Frieden

Marketing & Sales Support Intern/Assistant, central Illinois

Parkland College, Marketing

Lacey grew up in Champaign and started at NuTech in late May. She just finished her first year at Parkland College as a marketing major and is excited to have the opportunity to gain some experience. Eventually, Lacey hopes to transfer to the University of Illinois. She is interested in learning about NuTech's social media and assisting with various projects around the office. Lacey is not sure what path she will take following graduation, but she hopes this internship will give her some ideas for future career opportunities.



Eric Lane

Agronomy and Sales Intern, North Central Illinois

Associate of Science, Illinois Valley Community College, May 2023

Illinois State University, Agronomy and Agribusiness, beginning fall 2023

We have DSM Ryan Gilbert to thank for bringing Eric into the NuTech family. While Ryan was helping Eric's family scout a NuTech test plot on their farm, Eric was impressed with Ryan's knowledge and enthusiasm, and that led him to this, his first internship. That's why it's no surprise that Eric's favorite part of his internship is working with and learning from individuals who share his passion for agriculture.

Eric was definitely born to work in ag. He grew up working alongside his grandfather on the family farm. "I spent long days riding in the farm machinery and soaking in all the life lessons that my grandfather provided just so I could be a part of the farming experience." He grew up doing farm chores and eventually was hired as a farmhand. Even while in school, he helps with planting, harvesting and more often chooses farming over leisure activities, though he does enjoy fishing and golfing. He hopes his internship will deepen his knowledge of agronomy and help him hone his communication skills as he meets with farmers and works with others on the NuTech team.



Carson Foley

Agronomy and Sales Intern, southern Illinois and parts of Kentucky, Indiana and Missouri

Associate Degree, Agriculture, Lake Land College, May 2023

Murray State University, Agriculture Education with a minor in Agriculture Business, beginning fall 2023

Carson's father works at a soybean conditioning plant and used to tell her about his day when he returned from work, but that was all she knew about agronomy. Still, she grew up involved in a small show pig operation, with a barn full of pigs that she shows at the national level. Being involved with livestock, she says she's "been able to network with some pretty cool people in different parts of the industry," including someone who encouraged her to apply for her internship, which she says forced her to step a little outside her comfort zone.

Just a few weeks in, Carson already has a greater appreciation for agronomy. Her favorite thing so far is seeing what she learned about in her college classes in real life—from the V stages of a corn plant, to plant parts, to different soils in farmers' fields.

Carson has become a great ambassador for the ag industry, through her work with Lake Land's Collegiate Farm Bureau and Ag Transfer Club and as the 2022 Miss Clark County Fair Queen.



Have you seen the kids today?

Cuteness abounds around NuTech country! We asked you to send us snaps of your little farmhand helping in the field this spring. We don't know how much they helped, but they sure looked adorable doing it!



Aiden Sprout

Planting NuTech Seed with grandpa in Stronghurst, IL.



Blaire Remmert

Planting the seeds of knowledge in Carlyle, IL.



Jones (front) & Kade (back)

Helping on the family farm near Paris, IL.



Annie Allen

Enjoying the sunset in Ogden, IL.



Kaylee and Emarie Mohr

Riding tractors this spring on their farm in Ogden, IL.



Olivia Cler

Checking out their cows in Sidney, IL.

Flower coloring page



Summer Heat

Sips & Sweets

The heat is on, so we have summer desserts and drinks—and one recipe that’s both!—to cool you down. They’re perfect for taking to a weekend picnic or rewarding yourself after a hot day in the fields.



WATERMELON GRANITA

Is it an icy dessert? Is it a slushy drink? That depends on how quickly you devour it!

- 2 Tbsp sugar
- ¼ tsp salt
- ¼ cup water
- 2 large lemons
- 9-10 cups watermelon, cubed

In a small saucepan, combine sugar, salt and water and simmer, stirring frequently, until sugar dissolves. Remove from heat. Zest lemons and squeeze ½ cup juice. Stir zest and juice into sugar syrup.

Use blender to puree watermelon with lemon syrup. This may have to be done in two batches. Pour into metal baking pan and freeze overnight.

To serve, scrape surface of frozen watermelon mixture into large flakes and serve in a small glass or dish. Garnish with fresh fruit or mint leaf if desired.

AGUA FRESCA

Relive the NuTech Getaway to Puerto Vallarta with a refreshing Mexican aqua fresca! Try this peach-mango version, or use any of your favorite summer fruits.

- 2 ½ cups chopped ripe mango
- 2 ½ cups chopped peeled peaches
- ½ cup sugar (or more to taste)
- 2 Tbsp lime juice (or more to taste)
- 3 cups water

Blend all ingredients until smooth. Serve over ice.



STRAWBERRY MIMOSAS

Make these bright and bubbly drinks with seltzer or sparkling cider for the kids, or use sparkling wine for an adults-only refresher.

- 8-10 fresh strawberries
- 2 cups plain seltzer
- 2 cups orange juice
- Additional strawberries to garnish

Remove strawberry stems and puree until smooth.

In champagne flute or wineglass, pour 1 Tbsp strawberry puree. Tilt glass and slowly add seltzer until glass is half full, keeping strawberry layer on the bottom. Straighten glass and top with orange juice. Garnish with whole strawberries or slices if desired.



LEMON BARS

These bright, tangy lemon bars are nearly as easy and much tastier than any box version—and they can be made in advance—just give them a dusting of powdered sugar before serving.

Crust:	Filling:
1 cup butter, softened	4 eggs
½ cup sugar	1 ½ cups sugar
2 cups flour	4 Tbsp flour
Pinch of salt	2 lemons, zested and juiced
	1 tsp lemon extract (if desired for extra flavor)

Preheat oven to 350°. Line a 13x9-inch pan with parchment paper to make bars easier to lift out.

Crust: In a medium bowl, blend softened butter, sugar, flour and salt with a pastry blender until the mixture resembles small crumbs. Press into the bottom of the paper-lined pan. Bake 15-20 minutes until firm and golden.

Filing: In another bowl, whisk together sugar and flour, then add eggs, lemon zest, lemon juice and lemon extract (if using), whisking until completely combined and foamy. Pour over the baked crust. Bake an additional 20 minutes.

Allow to cool completely or refrigerate. Lift bars from pan using the parchment paper. Dust with powdered sugar and cut into 2-inch squares to serve.

CHOCOLATE CREAM PIE

This cold, creamy, decadent dessert is no-bake, so it’s easy to make, and it’s always a crowd pleaser! It’s also easy to make gluten free by using gluten-free cookies.

- Crust:**
- 24 chocolate sandwich cookies (like Oreos)
 - 3-4 Tbsp butter, melted
- Filling:**
- ⅔ cup sugar
 - ⅓ cup corn starch
 - ¼ tsp salt
 - 3 cups milk
 - 4 egg yolks
 - 2 Tbsp butter
 - 1 Tbsp vanilla extract
 - 2 cups dark chocolate chips

Crust: Process cookies to crumbs in a food processor or blender. Stir in butter. Press into pie pan and chill.

Filling: Mix together sugar, cornstarch and salt in a saucepan. In a bowl, mix together milk and egg yolks. Slowly add milk-egg mixture to the sugar mixture and stir to blend. Cook over medium heat, stirring constantly, until mixture boils and thickens. Stir in butter, vanilla and chocolate chips. Pour filling into prepared crust and allow to cool for 30 minutes, then refrigerate until firm (several hours or overnight).

Garnish pie with whipped cream and chocolate chips or cookie crumbs.



NuTech by the Numbers

We shared these “fun facts” with attendees of the latest NuTech Getaway to Puerto Vallarta and we thought everyone would enjoy these nuggets of NuTech knowledge.

NuTech customers are feeding the world



In 2022, NuTech customers harvested enough bushels of corn to feed enough cattle to make over **4 billion ¼-pound burgers.**



In 2022, NuTech customers harvested enough soybeans to feed almost **14 million hogs.**



NuTech is on the road again



Our trucking partners will bring in

350 full semi loads of empty boxes

after planting season is completed.

NuTech gets off to a good start every season



In a 100-acre corn field, you're doing everything possible to get over **3 million seeds planted** and all emerging at the same 24-48 hour window.



In 100 acres of soybeans, you're trying to get **over 14 million plants** emerging in that same 24-48 hour window.

NuTech sales are **GROWING**



Since 2011, we've grown our corn unit sales **484%** and our soybean unit sales a whopping **2,181%**.



If each sales unit from this time period was a paper bag, the bags laid end to end would be **over 2,716 miles long.** That's enough to get someone from our home base in Champaign to our latest Getaway in Puerto Vallarta—and a third of the way back.

NuTech fields would stretch from **coast to coast**



We expect to sell enough NuTech corn seed in 2023 to plant 24 rows of corn spanning over **388,000 miles of land.** That's 70 round trips from NYC to LA!

We love the NuTech Lifestyle



Since 2012, we've had more than **5,000 people travel** to our NuTech Getaways.

We've been to

12 different locations in 9 countries.



Our attendees have accumulated **over 24 million airline miles** on our trips.



VIVA LA MEXICO!

A fiesta of fun in the sun on our NuTech Getaway to Puerto Vallarta

It was another fantastic NuTech Getaway—this time to the sunny sands of Puerto Vallarta. Our NuTech family came together for a spectacular Getaway, to share information, make new friends and create memories to last a lifetime.



This year's NuTech Getaway was another one for the scrapbook, with the stunning views and accommodations of the Marriott Puerto Vallarta Resort & Spa. Attendee Tammy Kroll was a big fan: "It was a beautiful location, with a view of the ocean and the mountains. I enjoyed watching for whales and seeing all the boat traffic every day. Plus, the sunsets every evening were beautiful!"

First-time Getaway travelers Chris and Shelby Curtis liked that the trip felt like a mix between a private vacation and a trip with friends. Plus, Chris says, "It was nice to get away from the Midwest in the winter!" Chris has been on trips with other seed companies, but noticed that there was something special about a NuTech trip, with its mix of business and recreational activities, and a balance between group events and free time to relax. It made the time go by too quickly, he said. "That last day, we woke up and said, 'Man, we just got here.' We had a lot of fun down there and the time flew by."

Adam Kroll and his wife Tammy have been on at least nine trips with Pfister and NuTech. He loves relaxing on the trips, drinking beer, eating and socializing with other farmers who have the same interests.

Our Puerto Vallarta Getaway included numerous sessions for learning more about NuTech and the products we offer, including morning Corn & Coffee and our ag symposium, which went high-tech this year with attendees answering poll questions on their smart phones. The learning continued for those who did the tour to see where farmers grow agave for making tequila, an expedition that included lunch at a hacienda and time to explore the charming town of San Sebastian.

There were plenty of fun activities, from a bicycle tour to tequila tastings. NuTech karaoke was a hit: Chris said it was fun to watch and a good icebreaker for people who hadn't yet met. And the NuTech pool rodeo tradition continued, something that was a surprise to newcomer Chris. "I couldn't believe they had an inflatable bull in the pool, but I did it! I got on the damn thing!" he said. "I didn't stay on very well, though." The resort also offered volley ballom, a game where you try to catch water balloons in a towel. Should we make that a new NuTech Getaway tradition?

"I've made friends out of state that I never would have known if not for the trips. The NuTech folks make you feel welcome, they take care of you."

Adam Kroll



“That last day, we woke up and said, ‘Man, we just got here.’ We had a lot of fun down there and the time flew by.”

Chris Curtis

Some attendees who ventured off the resort toured old town Puerto Vallarta, while others took a whale-watching cruise. Others chose to spend their whole trip at the resort, making the most of the food, drinks and chance to relax. “My wife loves the trips—she says it’s the only perk of farming!” Adam said of Tammy, who relaxed during the Getaway with a trip to the spa and time spent lounging by the pool with a drink.

But despite all the fun and interesting activities, what this year’s attendees liked most about the Getaway was the chance to connect with the other farmers, whether it was their first trip or the most recent of many. Chris and Shelby said the NuTech team made them feel at home right away. “There was a group from our part of Missouri that had all been on trips before and we made

friends very quickly,” Chris said. Adam and Tammy like to connect with the same people on the Getaway every year. “I’ve made friends out of state that I never would have known if not for the trips. The NuTech folks make you feel welcome, they take care of you,” Adam said. He liked talking about farming with people on the trip. “We talk about business while we’re visiting around the pool drinking beer. I’d do that every day!” And Tammy summed up how most Getaway attendees feel: “My favorite part of the trip is getting to visit and network with others who do what we do while in a laid-back and beautiful atmosphere. We’ve made lifelong friends and wonderful memories thanks to these trips.”

Chris recommends the Getaway to other customers as a way to get to know their seed partner.

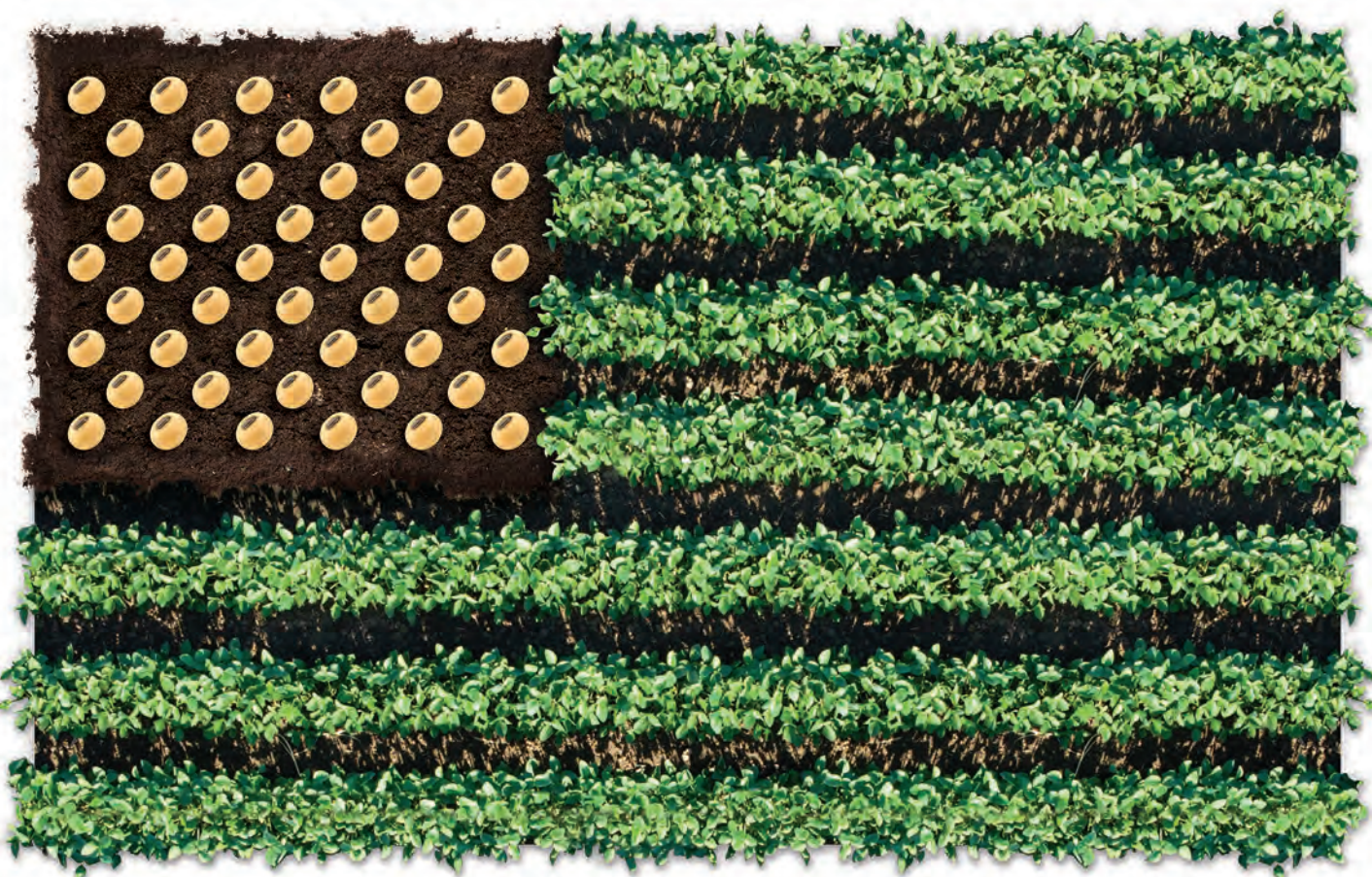
“Everybody’s got good seed, it just depends on who you want to work with and who you feel comfortable with. I can tell with NuTech, you’re going to be treated pretty good. They take time and ask you what you want to do. At the end of the day, they have to have good products. This is our first year planting NuTech corn, and hopefully it’ll produce for us and we can look forward to keeping the relationship going.

We’re sure Chris will see success this season and he and Shelby will be ready to join us on the next Getaway. Mark your calendars now for next year’s trip to Costa Rica. See the details about travel dates on page 67.”



SEED GUIDE

AMERICA'S FASTEST-GROWING SOYBEAN HERBICIDE SYSTEM



Easy to use safely and effectively.



Near-zero volatility and reduced potential for physical drift.



Exceptional control of resistant and hard-to-control weeds.



No time-of-day or calendar date restrictions.



Over one thousand approved tank-mix partners, including AMS products and glufosinate.

VISIT ENLIST.COM TO LEARN MORE

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The Right Seed for Your Field

Look for our product categories to make sure you're getting the most out of your fields

High-yield fields

Rich, productive soils

Field focus: Plant early, harvest timely and reap the benefits of fungicide application

Primary strength seed brands:

56A8, 57A4, 57B5, 59A1, 59C1, 60A2, 60A4, 601, 62A8, 63A5, 64B5, 64D1, 65D3, 66C2, 66D1, 308, 68A7, 68A9, 68B3, 68C1, 69A6, 69B9, 70A8, 70B4, 70F2, 70F6, 71A2, 72A5, 72A8, 72B7, 72D4, 72F1, 73A4, 73A6, 74A9, 74C4, 75C1, 75G1, 77A5



Corn-on-corn fields

Continuous corn environments

Field focus: Emphasis on stalk and root strength

Primary strength seed brands:

57A4, 59A1, 60A2, 60A4, 601, 62A8, 64B5, 64D1, 65D3, 66C2, 308, 68B3, 68C1, 69A6, 69B9, 70F2, 70F6, 71A2, 72A5, 72A8, 72B7, 72D4, 72F1, 73A4, 73A6, 74A9, 75C1, 75G1, 77A5



Heat/drought-stressed fields

Low organic matter soils at risk of moisture stress

Field focus: Built-in stress tolerance to handle periods of heat and low rainfall

Primary strength seed brands:

56A8, 57A4, 57B5, 59A1, 59C1, 60A2, 60A4, 601, 64B5, 64D1, 65D3, 66C2, 308, 68B3, 70F6, 71A2, 72A5, 72A8, 72B7, 72F1, 75C1, 77A5



Poorly drained fields

Fields with wet feet problems

Field focus: Exceptional plant health coupled with a solid agronomic package

Primary strength seed brands:

56A8, 57A4, 59C1, 601, 62A8, 63A5, 64D1, 65D3, 308, 68A7, 68A9, 68B3, 68C1, 69A6, 69B9, 70A8, 70B4, 70F2, 71A2, 72A8, 72D4, 72F1, 73A4, 74A9, 74C4, 75C1, 77A5



PRODUCT IDENTIFICATION



V: Vorceed™ Enlist® corn combines three modes of action for above-ground insect protection and three modes of action for below-ground insect protection, including RNAi technology. It also includes tolerance to four herbicides—glyphosate, glufosinate, 2,4-D choline and FOP—to help improve resistant weed management.



Q: Qrome® products feature dual modes of action to defend against above- and below-ground pests. Qrome products include a unique molecular stack of the proven *Bt* proteins from the Herculex® I and Herculex® RW traits and allow for a 5% refuge product. The refuge hybrid component is treated with a high rate of seed-applied insecticide and is blended in the bag with the *Bt* hybrid component stack to create a fully integrated refuge for both above- and below-ground pests. The non-blended version would be denoted as CYFR.



RASS/SSR: SmartStax® trait technology uses multiple modes of action for control of above- and below-ground insects to cover a broad spectrum of insect threats and defend your yield. Conveniently packaged as a single-bag solution with no separate structured refuge required for planting in the Corn Belt.



SXE/SE: SmartStax® trait technology uses multiple modes of action for control of above- and below-ground insects to cover a broad spectrum of insect threats and defend your yield. The Enlist® corn trait adds advanced herbicide-tolerant technology, with tolerances to 2,4-D choline, glyphosate and FOP herbicides such as quizalofop.



SX/SS: SmartStax® trait technology uses multiple modes of action for control of above- and below-ground insects to cover a broad spectrum of insect threats and defend your yield.



AMXT:** With proven above- and below-ground insect control, which allows growers to simplify and reduce refuge in one bag. Two different modes of action against corn borers (MON810 & TC1507) pyramided with two different modes of action against corn rootworm (MIR604 & DAS59122-7) allow for a 5% refuge product. The refuge hybrid component is treated with a high rate of seed-applied insecticide and is blended in the bag with the *Bt* hybrid component stack to create a fully integrated refuge for both above- and below-ground pests. The non-blended version would be denoted as CYXR.



PCR/PWRA: PowerCore® trait technology is a combination of three modes of action to provide superior control of above-ground insects. This focused insect control is specialized for areas with minimal rootworm pressure, conveniently packaged as a single-bag solution with no separate structured refuge required for planting in the Corn Belt.



PWE/PE: PowerCore® trait technology is a combination of three modes of action to provide superior control of above-ground insects. This focused insect control is specialized for areas with minimal rootworm pressure. The Enlist® corn trait adds advanced herbicide-tolerant technology, with tolerances to 2,4-D choline, glyphosate and FOP herbicides such as quizalofop.



AML:** The new pyramid of traits for superior control of above-ground pests which allows Corn Belt growers to simplify and reduce refuge in one bag. Three different modes of action against corn borers (MON810, TC1507 & MIR162) allow for a reduced refuge of only 5%. The refuge hybrid is blended in the bag with the *Bt* hybrid component to create an integrated refuge for above-ground pests. The non-blended version would be denoted as VYHR.



AM:** The above-ground insect control solution which allows Corn Belt growers to simplify and reduce refuge in one bag. Two different modes of action against corn borers (MON810 & TC1507) allow for a reduced refuge of only 5%. The refuge hybrid is blended in the bag with the *Bt* hybrid component to create an integrated refuge for above-ground pests. The non-blended version would be denoted as YHR.

CYFR

CYFR: This product contains a unique molecular stack of the proven *Bt* proteins from the Herculex® I and Herculex® RW traits, Agrisure® RW, YGCB, LL and RR2 traits.

** In EPA-designated cotton counties, 20% separate corn borer refuge is required.

CORN NAMING CONVENTIONS

First Character:

Denotes the presence or absence of a transgenic herbicide tolerance event.

- 0 Conventional
(Absence of any transgenic event)
- 3 Glyphosate Tolerant
(NK603 or GA21 event)
- 5 Glyphosate Tolerant/LibertyLink®
Herbicide Stack
(NK603 or GA21/Bt11, T-25 or TC1507 event stack)

Last Three Characters:

Denotes a specific hybrid family or series (i.e., 5F-601AM™). Hybrid family or series may be available in several different technology versions.

Last Two Characters:

Denotes relative maturity. “01” indicates a relative maturity of 101 days, while a “97” would indicate 97 days.

Brand
5F-601AM™

Second and/or Third Character(s):

Denotes the presence or absence of a transgenic insect resistance event.

A	Absence (No transgenic insect resistance event)
Q	Qrome® (DP4114/MON810/MIR604 event stack plus 5% blend of similar hybrid that serves as refuge component)
D/DB	Optimum® AcreMax® Xtra (MON810/TC1507/DAS59122-7 event stack plus 10% blend of similar hybrid that serves as refuge component)
F/FB	Optimum® AcreMax® (MON810/TC1507 event stack plus 5% blend of similar hybrid that serves as refuge component)
L/LB	Optimum® AcreMax® XTreme (MIR604/MON810/TC1507/DAS59122-7 event stack plus 5% blend of similar hybrid that serves as refuge component)
T/TB	Optimum® AcreMax® Leptra® (TC1507/MON810/MIR162 event stack plus 5% blend of similar hybrid that serves as refuge component)
DN	Optimum® Intrasect® Xtra (MON810/TC1507/DAS59122-7 event stack without refuge component blend)
FN	Optimum® Intrasect® (MON810/TC1507 event stack without refuge component blend)
TN	Optimum® Leptra® (TC1507/MON810/MIR162 event stack without refuge component blend)

Suffix:

The suffix behind the hybrid name may be required by some technology providers and summarizes the information described by the first two characters of the product name.

Base Variety
72 A5 Q™

Relative Maturity:

Add 40 to this number to get RM days.
Ex: 72 = 112 RM

Random Code:

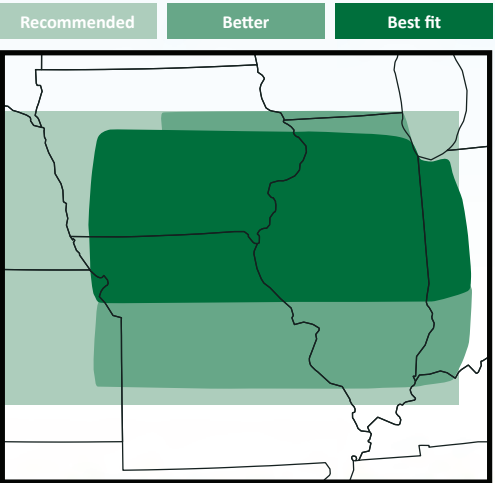
One random letter followed by one random number.

Trait Code:

V	Vorceed™ Enlist®
Q	Qrome®
RASS/SSR	SmartStax® Refuge Advanced®
SXE/SE	SmartStax® Enlist™
SX/SS	SmartStax®
AMXT	Optimum® AcreMax® XTreme
PCR/PWRA	PowerCore® Refuge Advanced®
PWE/PE	PowerCore® Enlist®
AML	Optimum® AcreMax® Leptra®
AM	Optimum® AcreMax®
RR	Roundup Ready® Corn 2
CV	Conventional
CYFR	CYFR
CYXR	Optimum® Intrasect® Xtreme
CYHR	Optimum® Intrasect®
CVYHR	Optimum® Leptra®

Area of Adaptation Maps:

Consult with a NuTech Seed representative for planting outside of AOA recommendation. NuTech AOA maps provide a guide for corn product placement based upon a recommended area, an area of better fit and an area defined as best fit for optimized performance potential. These recommendations are based on multi-year research testing, disease ratings and overall agronomic fit.







Note: All existing products will continue using the existing product name.

CORN BRANDS




56A8™

NEW!



96 RM



56A8AM™



56A8V™



Semi-Flex

Ear type

Medium-High

Population range

5

Emergence

7

Drought Tolerance

6

Stalk Lodging

7

Root Lodging

6

Staygreen

6

Test Weight

4

Plant Height

- Very good drought tolerance
- Reliable roots all season long
- Shorter-stature plant with wide area of adaptation
- Good tar spot tolerance for eastern movement
- Good NCLB tolerance
- Utilize fungicide where GLS is a concern

Recommended




Better

Best fit






59A1™

99 RM



59A1Q™



Flex

Ear type

Medium-Medium High

Population range

5

Emergence

7

Drought Tolerance

5

Stalk Lodging

5

Root Lodging

6

Staygreen

6

Test Weight

7

Plant Height

- Strong Goss's wilt tolerance makes it a good fit for northern Iowa
- Very good drought tolerance
- Yield leader type product across northern Iowa
- Fungicide candidate where GLS is a concern
- Consistent high yields east to west
- Dual-purpose hybrid for grain and silage

Recommended





Better

Best fit




57A4™

97 RM






57A4CV™



CV

57A4Q™



Semi-Flex

Ear type

Medium-High

Population range

5

Emergence

6

Drought Tolerance

5

Stalk Lodging

8

Root Lodging

6

Staygreen

6

Test Weight

5

Plant Height

- Excellent roots all season long
- Strong Goss's wilt score allows western movement
- Good southern movement for an early hybrid
- Favorable drought tolerance for western adaptation
- Large area of adaptation
- Utilize a fungicide where GLS and NCLB are a concern

Recommended

Better




Best fit






59C1™

NEW!

99 RM



59C1AM™



Semi-Flex

Ear type

Medium-Medium High

Population range

6

Emergence

7

Drought Tolerance

7

Stalk Lodging

7

Root Lodging

6

Staygreen

5

Test Weight

5

Plant Height

- Elite hybrid with good southern movement
- Strong roots, stalks and brittle snap
- Very good drought tolerance for western adaptation
- Above-average ear flex and deep kernel depth
- Very competitive emergence for no-till soils
- Strong Goss's wilt score and above average NCLB

Recommended

Better



Best fit






57B5™

NEW!

97 RM



57B5AM™



Semi-Flex

Ear type

Medium-High

Population range

6

Emergence

7

Drought Tolerance

6

Stalk Lodging

6

Root Lodging

5

Staygreen

5

Test Weight

4

Plant Height

- Yield leader with a wide area of adaptation
- Very good brittle snap for western movement
- Medium-stature plant and ear height
- Strong Goss's wilt score for western movement
- Above-average NCLB
- Utilize a fungicide where GLS and tar spot are a concern

Recommended




Better

Best fit






60A2™

100 RM



60A2Q™



Semi-Flex

Ear type

Medium-High

Population range

5

Emergence

7

Drought Tolerance

5

Stalk Lodging

6

Root Lodging

5

Staygreen

5

Test Weight

6

Plant Height

- Leader type hybrid for NuTech marketing area
- Solid drought tolerance and brittle snap score
- Strong Goss's wilt tolerance for corn-on-corn acres
- Dual-purpose hybrid for grain and silage
- Medium-stature plant with medium ear placement
- Utilize fungicide where GLS and NCLB are a concern

Recommended

Better




Best fit







CORN BRANDS

60A4™

100 RM



60A4AM™



- Optimum® AQUAmax® hybrid
- Strong Goss's wilt score makes it a good fit for northern Iowa
- Good brittle snap score for western movement
- Impressive stalks and attractive fall appearance
- Moderate-stature plant with moderate earline
- Fungicide candidate where GLS is a concern

Semi-Flex

Medium-High

Ear type

Population range

5

9

8

5

8

4

5

Emergence

Drought Tolerance

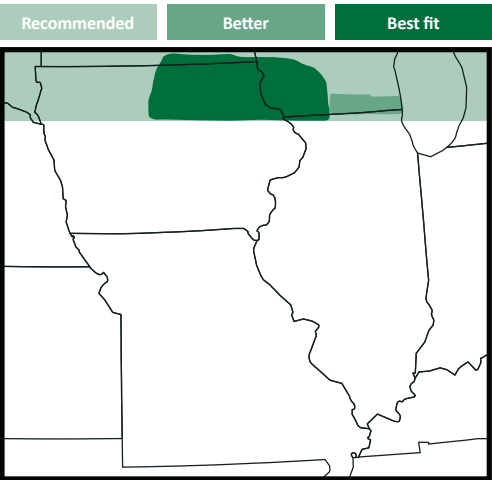
Stalk Lodging

Root Lodging

Staygreen





Test Weight

Plant Height






63A5™



103 RM



63A5AM™



63A5V™



- High grain quality and test weight
- Large area of adaptation
- Good emergence for no-till soils
- Well-rounded agronomics
- Leader type product in zone and north
- Utilize a fungicide where GLS is a concern

Semi-Flex

Medium

Ear type

Population range

6

6

6

6

6

7

5

Emergence

Drought Tolerance

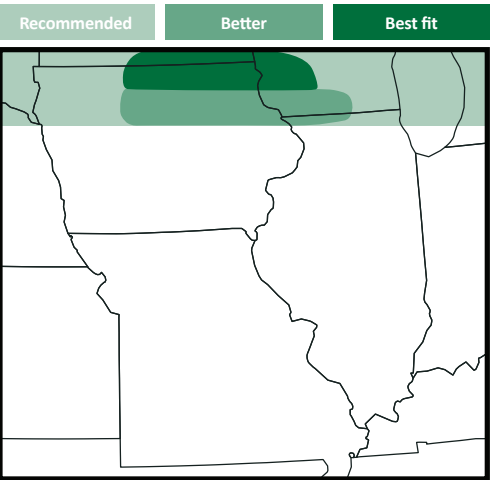
Stalk Lodging

Root Lodging

Staygreen





Test Weight

Plant Height





601™





101 RM



0A601™



5F601AM™



- Optimum® AQUAmax® hybrid
- Medium plant stature
- Girthy, semi-flex ear
- Good Goss's wilt tolerance
- Adapts to variable soil types
- Best performance in zone

Semi-Flex

Medium-Medium High

Ear type

Population range

5

9

5

7

4

6

5

Emergence

Drought Tolerance

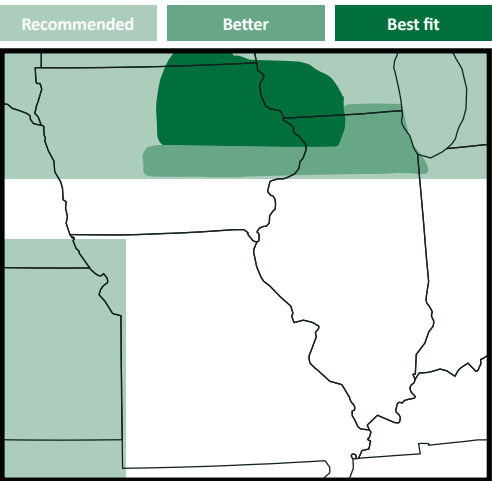
Stalk Lodging

Root Lodging

Staygreen





Test Weight

Plant Height





64B5™





104 RM



64B5CV™



64B5Q™



- Optimum® AQUAmax® hybrid
- Large area of adaptation with strong southern movement
- Medium-stature plant with medium ear height
- Good stress emergence for cooler soils
- Strong Goss's wilt score for corn-on-corn acres
- Utilize fungicide where GLS is a concern

Semi-Flex

Medium-High

Ear type

Population range

6

9

6

5

5

5

6

Emergence

Drought Tolerance

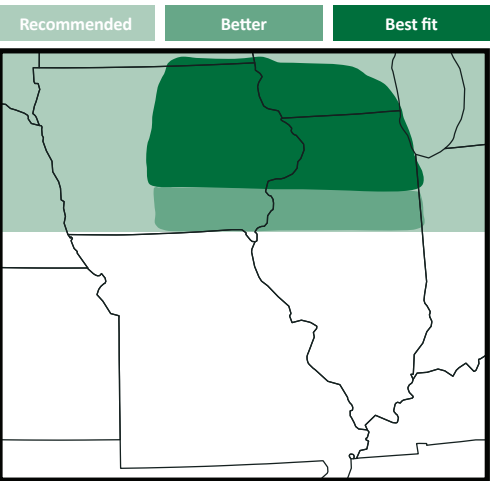
Stalk Lodging

Root Lodging

Staygreen





Test Weight

Plant Height






62A8™

102 RM



62A8Q™



- Early silking product
- Good east to west movement
- Shorter stature with nice earline
- Respectable disease protection
- Very consistent ears with adequate husk coverage
- Best performance in zone and north

Semi-Flex

Medium-High

Ear type

Population range

6

6

6

7

5

5

3

Emergence

Drought Tolerance

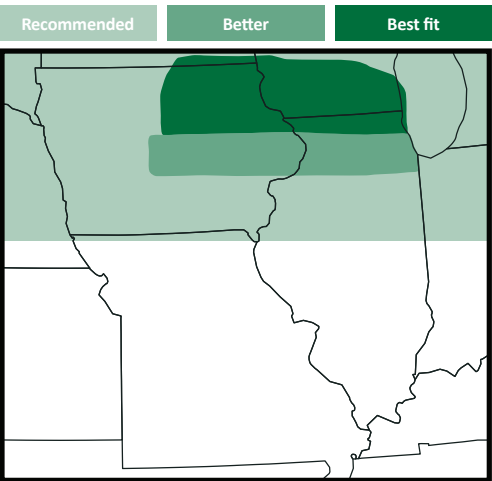
Stalk Lodging

Root Lodging

Staygreen





Test Weight

Plant Height





64D1™





104 RM



64D1CV™



64D1AM™



- Optimum® AQUAmax® hybrid
- Large area of adaptation
- Consistent tip fill
- Solid plant integrity
- Dependable yield potential, works on tougher soils
- Utilize fungicides where GLS is present

Semi-Flex

Medium-Medium High

Ear type

Population range

4

9

6

6

5

6

5

Emergence

Drought Tolerance

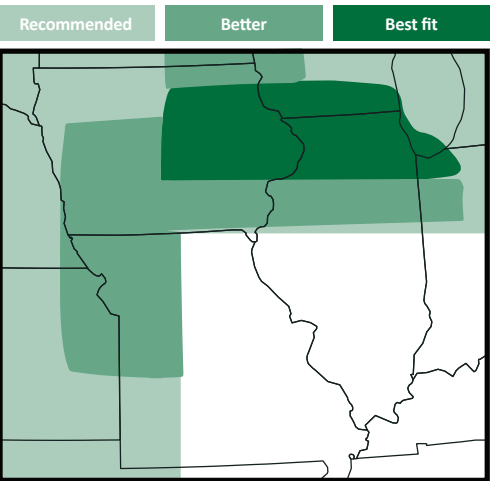
Stalk Lodging

Root Lodging

Staygreen

Test Weight

Plant Height



CORN BRANDS

65D3™

NEW!

105 RM

65D3Q™

- Wide area of adaptation
- Strong overall agronomics
- Moderate plant stature
- Good tar spot tolerance
- Very good drought tolerance
- Utilize a fungicide where GLS and NCLB are a concern

Semi-Flex

Ear type

Medium-High

Population range

5

Emergence

7

Drought Tolerance

5

Stalk Lodging

7

Root Lodging

6

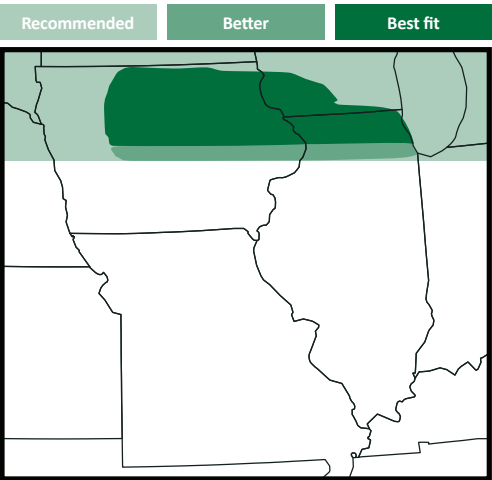
Staygreen

5

Test Weight

5

Plant Height



308™

108 RM

5F308AM™

- Widely adapted
- Chart-topping performance
- Very good overall disease tolerance
- Medium-stature plant
- Good stalks with good roots
- Highly productive soils maximize yield potential

Flex

Ear type

Medium-Medium High

Population range

4

Emergence

7

Drought Tolerance

6

Stalk Lodging

6

Root Lodging

6

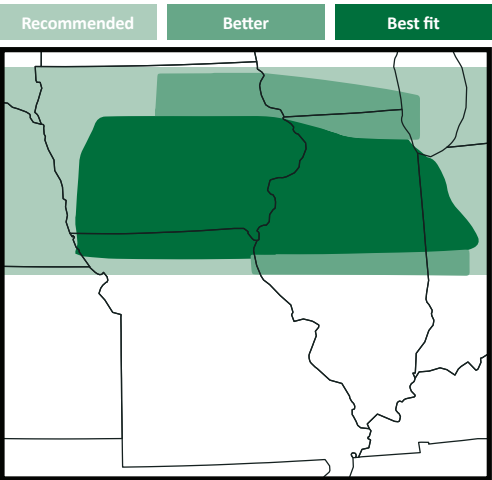
Staygreen

6

Test Weight

4

Plant Height



66C2™

106 RM

66C2Q™

- Very good drought tolerance for yield stability
- High yield potential with strong agronomics
- Medium-stature plant with medium ear height
- Good roots and brittle snap score
- Good stalks and late-season staygreen
- Best performance when fungicide is used

Semi-Flex

Ear type

Medium-High

Population range

6

Emergence

7

Drought Tolerance

6

Stalk Lodging

6

Root Lodging

6

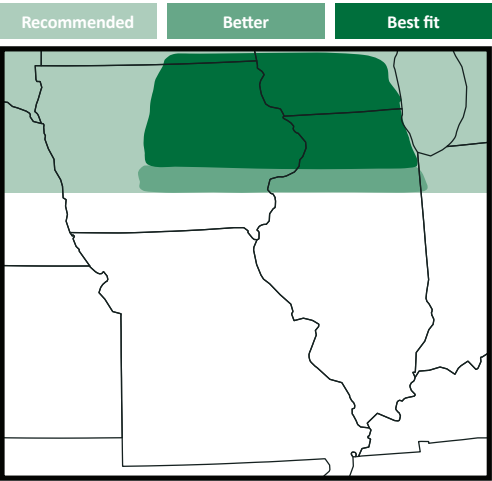
Staygreen

7

Test Weight

6

Plant Height



68A7™

108 RM

68A7AM™

- Strong emergence for cold, wet soils
- Very competitive roots for variable soils
- Excellent yield potential
- Strong southern movement
- Excellent ear flex
- Excellent choice for fungicide

Flex

Ear type

Low-Medium High

Population range

7

Emergence

6

Drought Tolerance

5

Stalk Lodging

6

Root Lodging

5

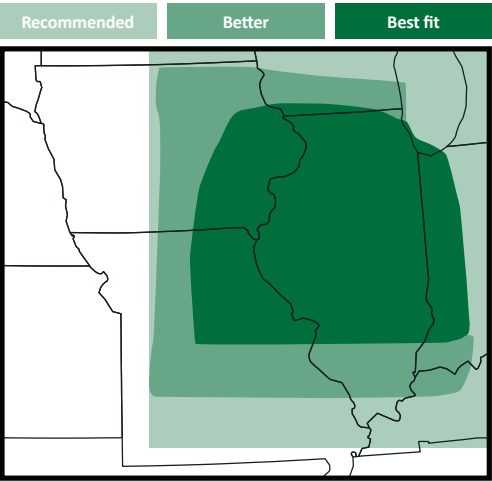
Staygreen

6

Test Weight

4

Plant Height



66D1™

NEW!

106 RM

66D1AM™

- Excellent yield potential
- Wide area of adaptation
- Strong southern movement
- Above-average roots and stalks
- Very good brittle snap rating for western movement
- Best performance on moderate to highly productive soils

Semi-Flex

Ear type

Medium-High

Population range

5

Emergence

5

Drought Tolerance

6

Stalk Lodging

6

Root Lodging

6

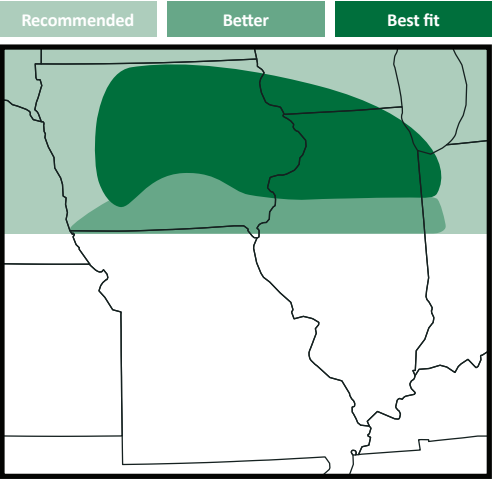
Staygreen

6

Test Weight

6

Plant Height



68A9™

108 RM

68A9AM™

- High yield potential in 108-day zone
- Above-average brittle snap allows western movement
- Very competitive roots for prairie soils
- Companion with 68A7AM with similar yield potential
- Good stalks and staygreen for an attractive fall appearance
- Dual purpose hybrid for grain and silage

Semi-Flex

Ear type

Medium-Medium High

Population range

5

Emergence

5

Drought Tolerance

6

Stalk Lodging

6

Root Lodging

7

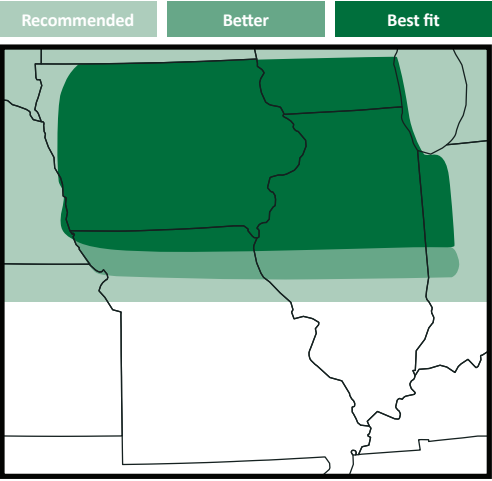
Staygreen

5

Test Weight

6

Plant Height



CORN BRANDS

68B3™

108 RM

68B3AML™

- Optimum® AcreMax® Leptra® product offering superior control of above-ground pests
- Very solid agronomics
- Excellent potential on highly productive soils
- Strong companion with 68A7AM and 68A9AM
- Strong roots and good staygreen
- Semi-flex ear; responds to higher populations

Semi-Flex

Ear type

Medium-High

Population range

5

Emergence

7

Drought Tolerance

6

Stalk Lodging

7

Root Lodging

6

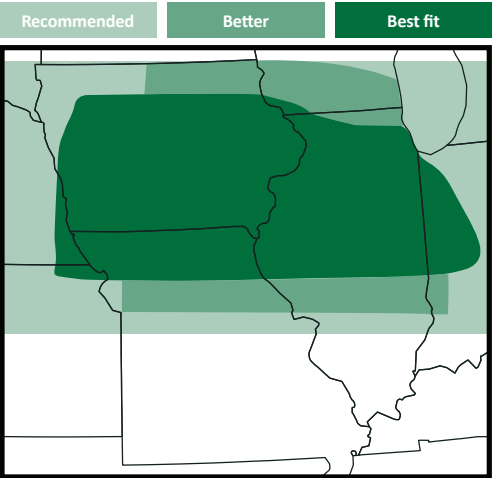
Staygreen

7

Test Weight

5

Plant Height



69B9™

109 RM

69B9Q™

- Very good roots and stalks
- Strong staygreen and excellent late-season eye appeal
- Later flowering hybrid for its maturity
- Strong Goss's wilt tolerance for corn-on-corn acres
- Good stress emergence for cooler soils
- Above average GLS tolerance

Flex

Ear type

Medium-High

Population range

6

Emergence

6

Drought Tolerance

6

Stalk Lodging

7

Root Lodging

7

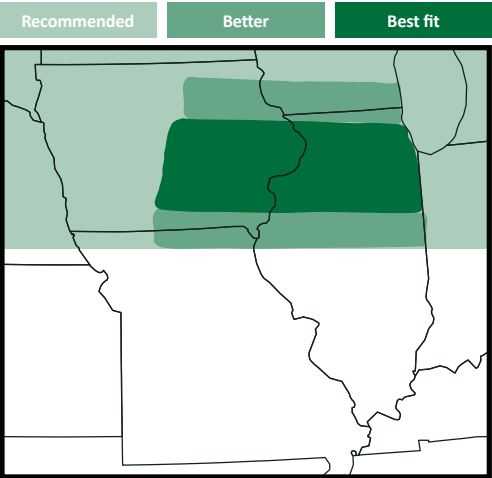
Staygreen

7

Test Weight

6

Plant Height



68C1™

108 RM

68C1Q™

- Medium-stature plant
- Strong roots and good stalks
- Elite hybrid for the Central and Eastern Corn Belt
- Very good staygreen for a nice fall appearance
- Strong emergence for no-till soils
- Good GLS tolerance with average NCLB score

Semi-Flex

Ear type

Medium-Medium High

Population range

7

Emergence

6

Drought Tolerance

6

Stalk Lodging

7

Root Lodging

7

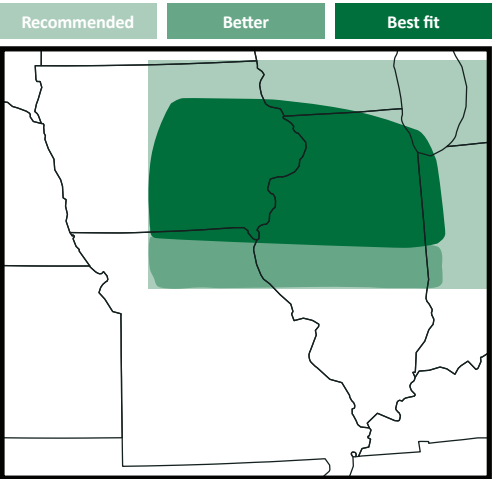
Staygreen

6

Test Weight

6

Plant Height



70A8™

110 RM

70A8CV™

- Very consistent performance across NuTech marketing area
- High yield potential on highly productive soils
- Medium-short stature plant with medium ear line
- Semi-flex ear responds to a wide range of populations
- Responds well to fungicide application
- Performs well on variable soil types

Semi-Flex

Ear type

Medium-High

Population range

5

Emergence

6

Drought Tolerance

6

Stalk Lodging

7

Root Lodging

5

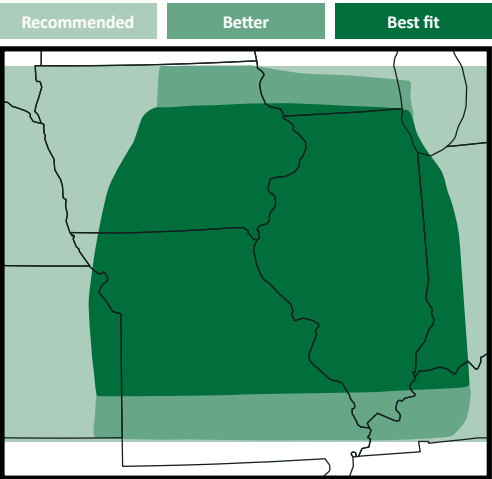
Staygreen

7

Test Weight

4

Plant Height



69A6™

109 RM

69A6Q™

- Qrome® technology with RW protection and high yield potential
- Good corn-on-corn option
- Best placement is on highly productive soils
- Good ear rot rating
- Medium-stature plant with attractive earline
- Strong staygreen

Semi-Flex

Ear type

Medium-High

Population range

6

Emergence

6

Drought Tolerance

6

Stalk Lodging

7

Root Lodging

7

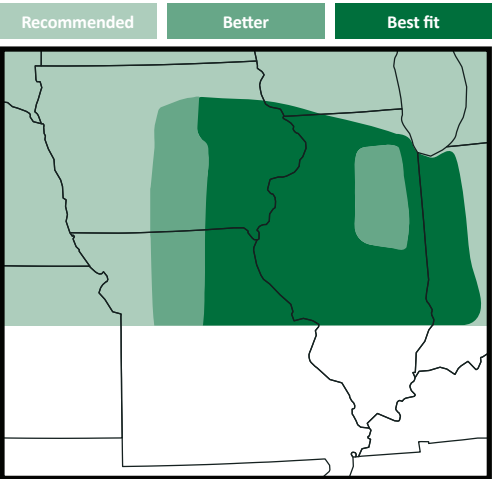
Staygreen

6

Test Weight

5

Plant Height



70B4™

110 RM

70B4AM™

- Yield leader in 110-day maturity
- Very competitive stalks, roots and brittle snap score
- Attractive fall appearance with well-balanced agronomics
- Above-average NCLB and Goss's wilt tolerance
- Best fit in Central Corn Belt and east with strong southern movement
- Dual purpose hybrid for grain or silage

Flex

Ear type

Medium-Medium High

Population range

5

Emergence

6

Drought Tolerance

6

Stalk Lodging

6

Root Lodging

7

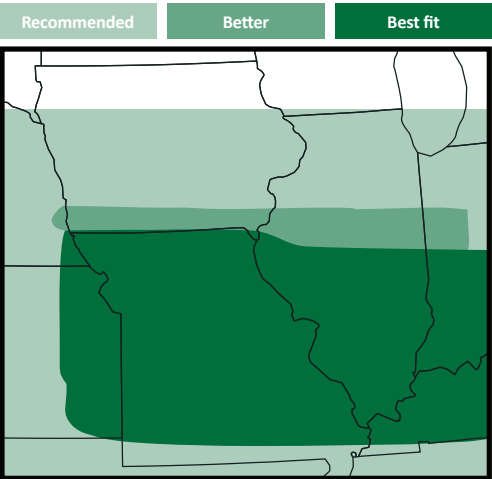
Staygreen

6

Test Weight

7

Plant Height



CORN BRANDS

70F2™

110 RM



70F2Q™



- Good stress emergence
- Fast drydown allows for early harvest
- Strong stalks and staygreen
- Very good test weight
- Wide AoA with strong brittle snap and Goss's wilt protection
- Companion with 70F6Q and 72B7Q

Flex

Medium-High

Ear type

Population range

6

Emergence

6

Drought Tolerance

7

Stalk Lodging

5

Root Lodging

7

Staygreen

7

Test Weight

6

Plant Height

Recommended




Better

Best fit






70F6™

110 RM



70F6Q™



- Tremendous top-end yield potential with very good stability
- Medium plant stature and ear height
- Flowers early for maturity
- Wide area of adaptation across the Corn Belt
- Well-balanced agronomics
- Dual purpose for grain and silage

Semi-Flex

Medium-Medium High

Ear type

Population range

6

Emergence

7

Drought Tolerance

5

Stalk Lodging

5

Root Lodging

7

Staygreen

6

Test Weight

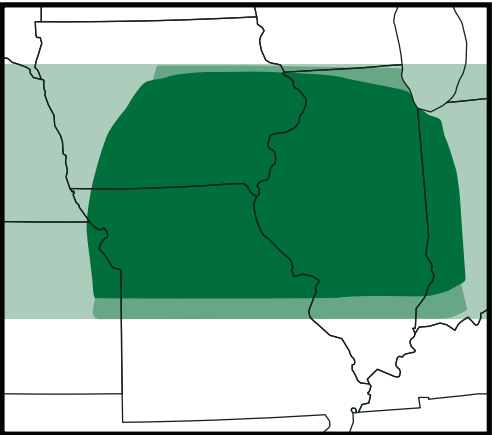
6

Plant Height

Recommended

Better





Best fit






71A2™

NEW!

111 RM



71A2AM™



- Large area of adaptation
- Well-balanced agronomics
- Very good staygreen for a nice fall appearance
- Strong stalks and good roots
- Silks early for a long grain fill period
- Very high drought tolerance

Semi-Flex

Medium-High

Ear type

Population range

6

Emergence

8

Drought Tolerance

7

Stalk Lodging

6

Root Lodging

7

Staygreen

7

Test Weight

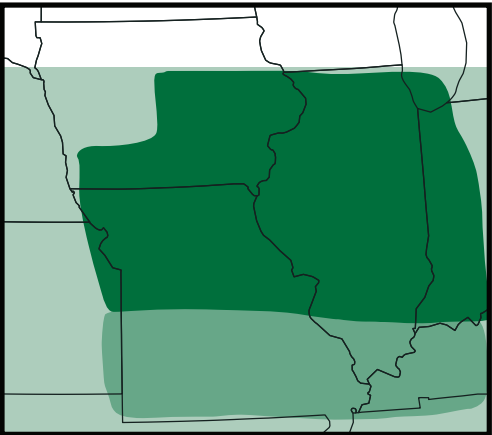
6

Plant Height

Recommended




Better

Best fit






72A5™

112 RM



72A5Q™



- Medium-stature plant with high yield potential
- Strong well-balanced agronomics
- High test weight
- Very high drought tolerance
- Large area of adaptation and strong stability
- Dual-purpose hybrid for grain and silage

Semi-Flex

Medium-High

Ear type

Population range

5

Emergence

8

Drought Tolerance

6

Stalk Lodging

6

Root Lodging

6

Staygreen

7

Test Weight

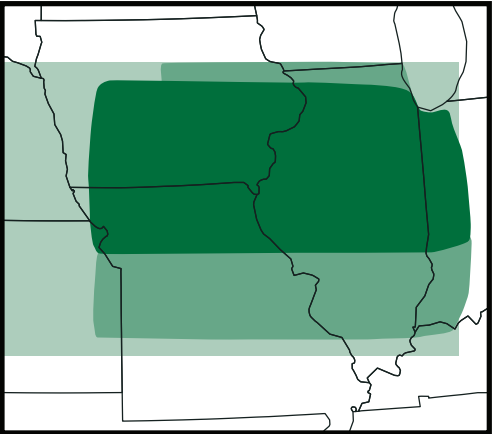
6

Plant Height

Recommended





Better

Best fit






72A8™

112 RM



72A8AM™



- Western and central adapted hybrid with very high drought tolerance
- Superior late-season plant health with above-average stalks
- Taller plant type that will allow for rolling variable soils
- Best fit in Missouri and southern Iowa
- Utilize a fungicide where NCLB is a concern
- Dual-purpose hybrid for grain and silage

Semi-Flex

Medium-Medium High

Ear type

Population range

5

Emergence

8

Drought Tolerance

6

Stalk Lodging

6

Root Lodging

8

Staygreen

6

Test Weight

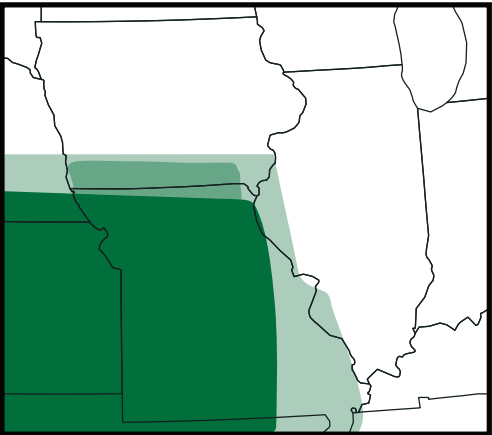
7

Plant Height

Recommended




Better

Best fit






72B7™

112 RM



72B7CV™



- Optimum® AQUAmax® hybrid
- Frito-Lay approved, Sidney, IL
- Very competitive root strength
- Strong test weight and grain quality
- Widely adapted across most soils
- Responds to fungicide in GLS environments

Flex

Medium-Medium High

Ear type

Population range

5

Emergence

9

Drought Tolerance

7

Stalk Lodging

6

Root Lodging

6

Staygreen

7

Test Weight

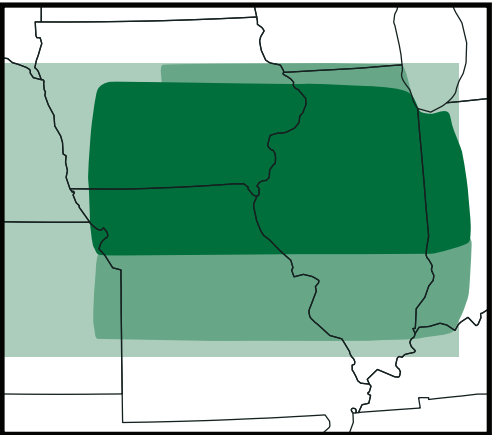
5

Plant Height

Recommended

Better




Best fit






CORN BRANDS

72D4™

112 RM



72D4AM™



- Very high yield potential
- Adapted for prairie soils
- Good emergence for high-residue fields
- Above-average stalks and dependable staygreen
- Good NCLB and Goss's wilt score
- Responds well to fungicide application

Flex

Medium Low-Medium

Ear type

Population range

6

6

6

4

7

6

6

Emergence

Drought Tolerance

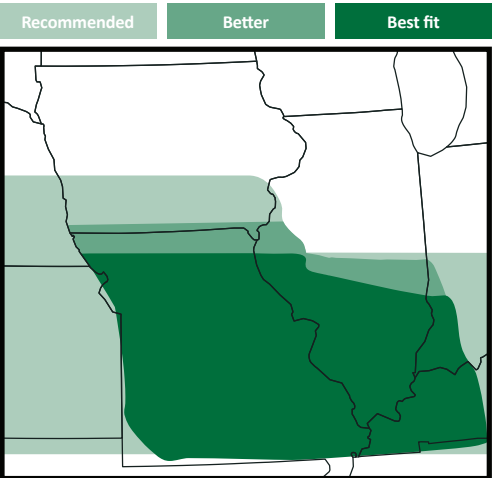
Stalk Lodging

Root Lodging

Staygreen




Test Weight

Plant Height






73A4™




113 RM



73A4AM™



73A4Q™



- High-performing hybrid
- Large area of adaptation
- Good stalk strength and brittle snap score
- Silks early for its maturity
- Moderate scores on GLS and NCLB
- Above-average Goss's wilt and head smut scores

Semi-Flex

Medium-Medium High

Ear type

Population range

5

6

6

6

6

6

5

Emergence

Drought Tolerance

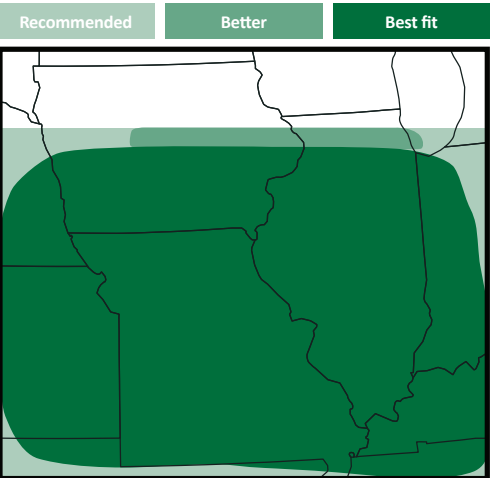
Stalk Lodging

Root Lodging

Staygreen




Test Weight

Plant Height






72D4™

112 RM



72D4Q™



- Very high yield potential
- Strong stability for the NuTech marketing area
- Good emergence for high-residue fields
- Above-average stalks and dependable staygreen
- Good NCLB and Goss's wilt score
- Responds well to fungicide application

Flex

Medium Low-Medium

Ear type

Population range

6

6

6

4

7

6

6

Emergence

Drought Tolerance

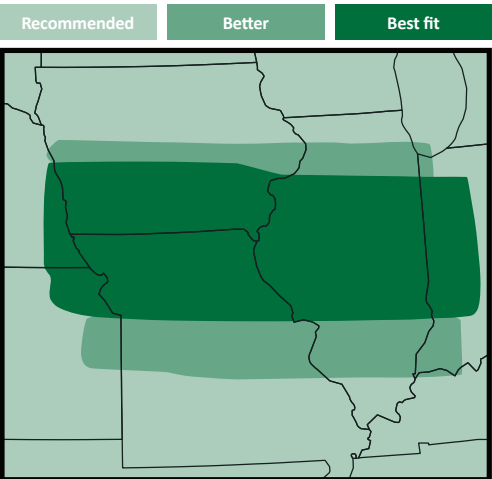
Stalk Lodging

Root Lodging

Staygreen



Test Weight

Plant Height






73A6™




113 RM



73A6AML™



73A6Q™



- High test weight hybrid
- High yield potential with good yield stability
- Very good roots suited best for prairie soils
- Medium-stature plant
- Beneficial drought tolerance for western movement
- Best performance with fungicide application

Semi-Flex

Medium-High

Ear type

Population range

4

6

5

7

5

7

6

Emergence

Drought Tolerance

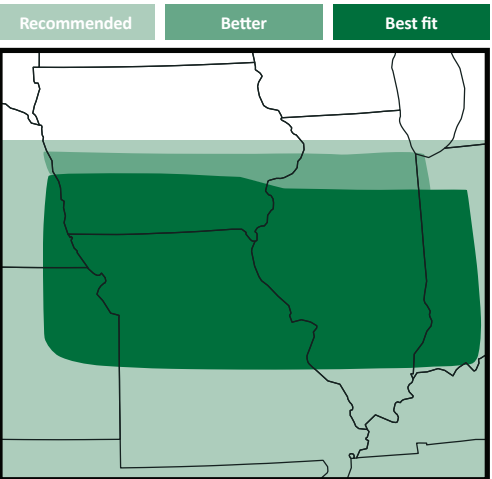
Stalk Lodging

Root Lodging

Staygreen





Test Weight

Plant Height



72F1™

112 RM



72F1CV™

CV

- High yield potential hybrid
- Very good drought tolerance
- Good emergence for no-till soils
- Excellent staygreen for a nice fall appearance
- Fungicide recommended where GLS or NCLB is present
- Good dual-purpose hybrid

Semi-Flex

Medium-Medium High

Ear type

Population range

6

7

6

5

8

6

7

Emergence

Drought Tolerance

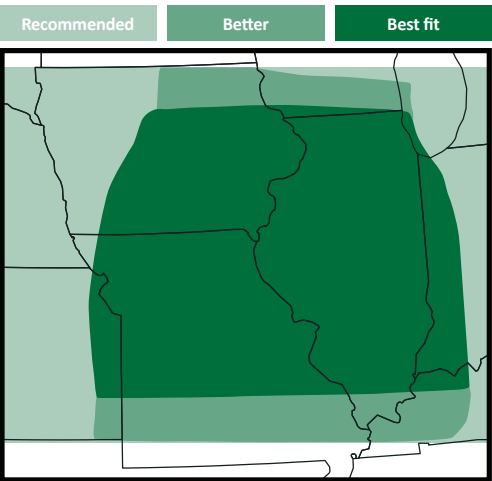
Stalk Lodging

Root Lodging

Staygreen




Test Weight

Plant Height





74A9™

114 RM



74A9AM™



- Performs well on variable soil types
- Good emergence for no-till soils
- Medium-stature plant with medium ear height
- Wide area of adaptation
- Very good Goss's wilt score and good head smut scores
- Best performance with fungicide application

Semi-Flex

Medium-Medium High

Ear type

Population range

6

6

5

6

6

5

5

Emergence

Drought Tolerance

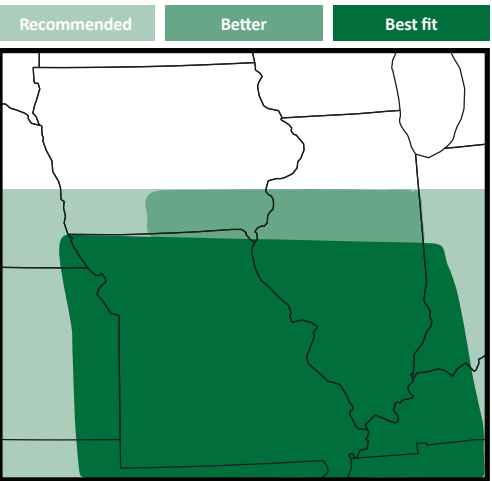
Stalk Lodging

Root Lodging

Staygreen

Test Weight

Plant Height



	Family	Product Version	Maturity Central Corn Belt (RM)	Category	Population Range	Response to Fungicide	Stalk Lodging	Root Lodging	Emergence	Heat & Drought Tolerance	Brittle Snap	Staygreen	Test Weight	Plant Height	Ear Height	Ear Type	Kernel Rows	Cob Color		Gray Leaf Spot	Northern Corn Leaf Blight	Southern Corn Leaf Blight	Goss's Wilt	Tar Spot	Diplodia Ear Rot	Southern Rust	GDUs to Pollen	GDUs to Black Layer	Silage Yield	Starch	Crude Protein	Fiber Digestibility	Corn-on-Corn	No-Till	Timber Soil	Poorly Drained	Sandy	Early Planting Date	Late Planting Date	Delayed Harvest	Family
NEW!	56A8	AM/V	96		M-H	HR	6	7	5	7	6	6	6	4	4	SF	14-16	P		4	6	NA	6	6**	NA	NA	1200	2320	7	9	7	7	NR	R	R	HR	R	R	HR	R	56A8
	57A4	CV/Q	97		M-H	HR	5	8	5	6	5	6	6	5	6	SF	14-16	R		4	4	NA	7	6**	NA	NA	1200	2370	8	7	7	7	R	R	NR	R	R	R	R	R	57A4
NEW!	57B5	AM	97		M-H	HR	6	6	6	7	7	5	5	4	4	SF	16-18	P		4	6	NA	7	4**	NA	NA	1200	2350	7	8	6	6	NR	HR	R	R	NR	HR	HR	NR	57B5
	59A1	Q	99		M-MH	HR	5	5	5	7	5	6	6	7	6	F	14-16	P		4	6	NA	7	5	NA	NA	1250	2350	9	7	6	6	HR	R	R	R	NR	R	R	R	59A1
NEW!	59C1	AM	99		M-MH	R	7	7	6	7	7	6	5	5	4	SF	18-20	P		5	6	NA	7	4**	NA	NA	1220	2420	7	8	8	8	R	HR	HR	HR	HR	HR	HR	HR	59C1
	60A2	Q	100		M-H	R	5	6	5	7	7	5	5	6	6	SF	14-16	P		4	5	NA	7	6**	NA	NA	1210	2450	7	8	8	7	HR	R	R	HR	R	R	R	R	60A2
	60A4	AM	100		M-H	HR	8	5	5	9	6	8	4	5	5	SF	14-16	R		5	5	NA	7	7**	NA	NA	1250	2450	8	7	6	7	HR	R	R	R	R	NR	HR	HR	60A4
	601	CV/AM	101		M-MH	R	5	7	5	9	5	4	6	5	5	SF	16-18	P		4	5	NA	6	5**	4	NA	1280	2470	8	6	7	8	R	R	HR	R	HR	R	R	NR	601
	62A8	Q	102		M-H	R	6	7	6	6	6	5	5	3	4	SF	16-18	R		5	5	NA	5	6	4	NA	1220	2450	8	9	6	7	HR	R	NR	HR	R	HR	HR	R	62A8
NEW!	63A5	AM/V	103		M	HR	6	6	6	6	6	6	7	5	6	SF	16-18	R		4	5	NA	5	5**	NA	NA	1270	2450	7	8	7	7	R	R	R	HR	R	HR	HR	R	63A5
	64B5	CV/Q	104		M-H	HR	6	5	6	9	4	5	5	6	5	SF	16-18	R		4	5	NA	7	5	5	NA	1260	2470	9	8	6	8	HR	R	HR	NR	HR	R	R	HR	64B5
	64D1	CV/AM	104		M-MH	HR	6	6	4	9	6	5	6	5	6	SF	16-18	P		4	5	NA	7	6**	5	NA	1280	2530	8	8	7	8	R	R	R	R	R	NR	R	R	64D1
NEW!	65D3	Q	105		M-H	HR	5	7	5	7	7	6	5	5	5	SF	16-18	P		4	5	NA	7	6**	4	NA	1310	2450	8	8	7	8	HR	R	HR	HR	HR	R	HR	R	65D3
	66C2	Q	106		M-H	HR	6	6	6	7	6	6	7	6	6	SF	16-18	R		5	5	NA	5	6**	5	NA	1310	2600	8	8	7	8	HR	R	R	R	R	HR	R	R	66C2
NEW!	66D1	AM	106		M-H	HR	6	6	5	5	7	6	6	6	6	SF	16-18	R		5	5	4	7	6**	5	4	1340	2600	8	8	7	6	NR	R	R	R	NR	R	HR	R	66D1
	308	AM	108		M-MH	HR	6	6	4	7	7	6	6	4	5	F	18-20	W		4	5	NA	5	NA	NA	NA	1330	2600	8	NA	9	NA	R	R	R	HR	NR	R	R	R	308
	68A7	AM	108		L-MH	HR	5	6	7	6	4	5	6	4	5	F	14-16	R		5	4	4	6	5	5	4	1320	2600	8	8	8	8	R	HR	HR	R	NR	HR	R	R	68A7
	68A9	AM	108		M-MH	HR	6	6	5	5	6	7	5	6	6	SF	16-18	P		5	5	4	6	5**	5	4	1400	2760	9	7	7	6	NR	R	R	HR	NR	NR	HR	HR	68A9
	68B3	AML	108		M-H	R	6	7	5	7	7	6	7	5	5	SF	16-18	P		5	6	4	7	6**	5	4	1360	2600	7	8	7	8	R	R	R	R	R	R	R	R	68B3
NEW!	68C1	Q	108		M-MH	R	6	7	7	6	5	7	6	6	6	SF	16-18	W		6	5	5	6	6**	5	3	1360	2600	8	8	7	6	HR	HR	HR	HR	R	HR	R	HR	68C1
	69A6	Q	109		M-H	HR	6	7	6	6	6	7	6	5	5	SF	12-14	R		5	4	4	4	6	6	5	1380	2700	8	7	7	8	R	R	NR	HR	NR	R	R	HR	69A6
	69B9	Q	109		M-H	R	6	7	6	6	6	7	7	6	6	F	16-18	R		6	5	4	7	6**	6	5	1420	2700	8	8	7	8	HR	R	R	HR	NR	R	R	HR	69B9
	70A8	CV/AM	110		M-H	HR	6	7	5	6	6	5	7	4	5	SF	16-18	W		4	5	5	5	5	4	4	1310	2630	8	9	7	8	R	R	R	R	R	R	R	R	70A8
	70B4	AM	110		M-MH	HR	6	6	5	6	6	7	6	7	6	F	14-16	P		5	6	5	6	6**	4	3	1400	2780	8	7	7	6	R	R	R	HR	R	NR	HR	HR	70B4
	70F2	Q	110		M-H	R	7	5	6	6	7	7	7	6	6	F	14-16	P		5	5	5	7	6**	5	4	1390	2730	8	8	8	8	HR	R	R	HR	NR	HR	R	HR	70F2
	70F6	Q	110		M-MH	HR	5	5	6	7	6	7	6	6	5	SF	16-18	R		5	6	5	6	6**	5	4	1380	2630	8	8	8	6	HR	R	R	R	HR	HR	R	HR	70F6
NEW!	71A2	AM	111		M-H	R	7	6	6	8	6	7	7	6	5	SF	16-18	P		5	6	5	6	NA	5	5	1340	2760	8	8	6	6	R	R	HR	HR	R	HR	R	HR	71A2
	72A5	Q	112		M-H	HR	6	6	5	8	6	6	7	6	5	SF	16-18	W		5	5	5	6	5	6	5	1400	2700	8	7	6	6	HR	R	NR	R	NR	R	R	HR	72A5
	72A8	AM	112		M-MH	HR	6	6	5	8	6	8	6	7	7	SF	14-16	R		6	4	5	7	5**	6	5	1400	2680	8	8	6	8	R	R	R	R	HR	R	HR	HR	72A8
	72B7	CV/AM/Q	112		M-MH	HR	7	6	5	9	7	6	7	5	6	F	16-18	R		4	5	3	6	5**	4	4	1340	2630	8	8	8	8	HR	R	HR	HR	R	R	R	R	72B7
	72D4	AM/Q	112		ML-M	R	6	4	6	6	5	7	6	6	6	F	16-18	R		5	6	5	6	5**	6	5	1400	2780	8	7	7	8	R	R	HR	R	NR	HR	R	HR	72D4
NEW!	72F1	CV	112		M-MH	R	6	5	6	7	6	8	6	7	6	SF	16-18	R		5	5	5	7	5**	5	5	1370	2650	8	8	7	8	NR	R	R	R	NR	HR	R	HR	72F1
NEW!	73A4	AM/Q	113		M-MH	HR	6	6	5	6	6	6	6	5	6	SF	16-18	R		5	5	5	6	NA	5	4	1390	2860	8	8	7	6	R	R	R	R	R	R	NR	R	73A4
	73A6	AML/Q	113		M-H	HR	5	7	4	6	5	5	7	6	6	SF	14-16	P		5	5	5	6	NA	5	4	1420	2810	8	7	8	6	R	R	R	R	R	R	R	NR	73A6
	74A9	AM	114		M-MH	HR	5	6	6	6	6	6	5	5	5	SF	16-18	R		5	5	5	7	5**	5	4	1400	2730	7	7	7	8	R	R	HR	R	R	HR	R	HR	74A9
	74C4	AM	114		ML-M	HR	6	6	6	6	5	6	7	6	6	F	16-18	R		5	6	4	6	6**	5	4	1390	2730	8	7	7	5	NA	R	R	HR	NR	HR	R	HR	74C4
NEW!	75C1	AM/Q	115		M-H	R	6	6	5	7	6	7	6	6	6	SF	16-18	W		5	6	6	7	NA	4	5	1420	2810	8	7	8	7	R	R	HR	HR	HR	R	NR	HR	75C1
	75G1	CV/AM	115		M-H	HR	6	5	5	6	5	6	7	7	6	SF	16-18	R		5	4	5	4	5**	5	5	1370	2680	9	8	7	7	R	R	R	NR	NR	R	NR	R	75G1
	77A5	AM	117		M-MH	HR	8	6	4	7	6	6	5	7	6	SF	16-18	R		5	5	6	7	6**	5	4	1450	2830	9	7	6	8	R	R	R	HR	R	NR	NR	R	77A5

Product Versions

AM = Optimum® AcreMax®
AML = Optimum® AcreMax® Leptra®
CV = Conventional
Q = Qrome®
V = Vorceed™ Enlist®
Versions in **red** are **NEW!**

Plant and Ear Height

9 = Very tall plant type
1 = Very short plant type

9 = Very high ear placement
1 = Very low ear placement

Ear Type

F = Flex
SF = Semi-Flex

Cob Color

R = Red
P = Pink
W = White

Ratings

9 = Best 1 = Worst NA = Not Available HR = Highly Recommended R = Recommended NR = Not Recommended

See page 59 for refuge requirements.

All hybrids are treated with a fungicide seed treatment and a base rate of a seed-applied insecticide, including either LumiGEN® technologies, Poncho® or CruiserMaxx®. Products may be available with the high rate (1250 rate) seed-applied insecticide as well. Consult package labels for complete treatment details.

Characteristic scores provide key information useful in selecting and managing products in your area. Information and scores are assigned by NuTech Seed and are based on period-of-years testing through 2022 harvest and were the latest available at time of printing. Some scores may change after 2023 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.

** Preliminary score



2024 Corn Seed Treatment Portfolio

The 2024 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

NEW Lumiscend™ Pro fungicide treatment

- Most robust fungicide seed treatment available in the industry with a 1–3 bu/A advantage¹
- Provides enhanced disease protection with multiple modes of action, including resistant *Pythium* species
- New active ingredient against *Rhizoctonia* (inpyrfluxam) and *Fusarium*²

Lumiflex™ fungicide seed treatment

- Provides proven early season protection against systemic fungal diseases, such as *Rhizoctonia* and *Fusarium*
- Also provides unparalleled protection against head smut

L-2012 R bio-fungicide

- *Rhizoctonia* and *Fusarium*

INSECTICIDE SEED TREATMENTS

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

Lumisure® 1250 insecticide seed treatment

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

NEMATOCIDE SEED TREATMENT

Lumialza® nematocide seed treatment

- Yield improvement of 3.7 bu/A under low nematode pressure and 9.0 bu/A when under heavy nematode pressure³
- Expanding bio-barrier shields roots
- 80+ days of root growth protection
- Activity against all key nematode species

BIOLOGICAL

L-2012 R (Exclusive to Corteva Agriscience)

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

LumiGEN®

SEED TREATMENT

LUMIALZA® NEMATOCIDE SEED TREATMENT

Early-season key nematode protection

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 pressure³
 - **3.7 bu/A** average yield advantage under low nematode pressure³

Insecticide Seed Treatments Characterization

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

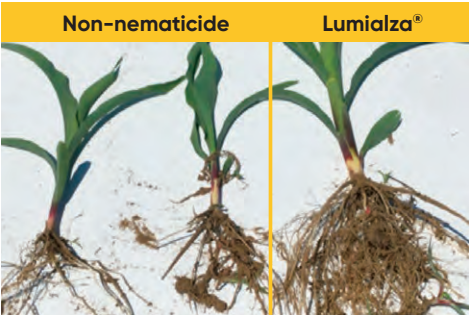


– No control
+ Feeding reduction ++ Average protection +++ Above average protection ++++ Excellent protection
* labeled for control

Lumialza®

NEMATOCIDE SEED TREATMENT

Lumialza® bio-barrier



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 Pending state registration on Lumiscend™ Pro label

³ Lumialza® nematocide seed treatment vs. non-nematocide 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.

The information described 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.

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SOYBEAN NAMING CONVENTION

34N02E™

Relative Maturity:

Add a period between the numbers for relative maturity.

Example: 34 = 3.4 relative maturity

Random Code:

Two random numbers

Trait Code:

E Enlist E3® soybeans
CV Conventional

Soybean Diseases Key

BSR	Brown Stem Rot	IDC	Iron Deficiency Chlorosis	PRR	Phytophthora Root Rot
SCN	Soybean Cyst Nematode	SDS	Sudden Death Syndrome		

SOYBEAN BRANDS

16N04E™

1.6 RM



- Medium plant width on medium short plant
- Strong emergence
- Rps1k gene for PRR
- Good charcoal rot protection
- Acceptable IDC tolerance for high-pH soils
- Metribuzin tolerant, saflufenacil & sulfentrazone tolerant

Medium-Short

Plant height

Medium

Canopy width

Purple

Flower color

Light Tawny

Pubescence color

Brown

Pod color

Brown

Hilum color

7

Emergence

7

Harvest Standability

6

Sudden Death Syndrome

5

Iron Deficiency Chlorosis

HT

Brown Stem Rot

6

White Mold

Rps1k

Phytophthora Root Rot Resistance

PI88788

Soybean Cyst Nematode Resistance

18N03E™

NEW!

1.8 RM



- Stacked Rps1k,3a genes
- Good IDC rating for high-pH soils
- High tolerance to BSR
- Excellent emergence for no-till soils
- Light tawny bean with a good fall appearance
- Metribuzin tolerant, saflufenacil & sulfentrazone tolerant

Medium

Plant height

Medium

Canopy width

White

Flower color

Light Tawny

Pubescence color

Tan

Pod color

Brown

Hilum color

8

Emergence

7

Harvest Standability

5

Sudden Death Syndrome

6

Iron Deficiency Chlorosis

HT

Brown Stem Rot

4

White Mold

Rps 1k,3a

Phytophthora Root Rot Resistance

PI88788

Soybean Cyst Nematode Resistance

20N05E™

NEW!

2.0 RM



- Stacked Rps1k,3a genes
- Excellent emergence for no-till soils
- Highly tolerant to BSR
- Acceptable IDC tolerance for high-pH soils
- Tawny bean for a nice fall appearance
- Metribuzin tolerant, saflufenacil & sulfentrazone tolerant

Medium

Plant height

Medium

Canopy width

White

Flower color

Light Tawny

Pubescence color

Tan

Pod color

Brown

Hilum color

8

Emergence

6

Harvest Standability

5

Sudden Death Syndrome

5

Iron Deficiency Chlorosis

HT

Brown Stem Rot

4

White Mold

Rps 1k,3a

Phytophthora Root Rot Resistance

PI88788


Soybean Cyst Nematode Resistance

SOYBEAN BRANDS

22N03E™

NEW!

2.2 RM



- Rps1k gene for PRR
- Very good tolerance to charcoal rot
- Good southern movement for early Group II
- Good SDS rating
- Strong emergence for no-till soils
- Metribuzin tolerant, saflufenacil & sulfentrazone tolerant

Medium

Plant height

Medium

Canopy width

Purple

Flower color

Light Tawny

Pubescence color

Brown

Pod color

Brown

Hilum color

7

Emergence

7

Harvest Standability

6

Sudden Death Syndrome

3

Iron Deficiency Chlorosis

MT

Brown Stem Rot

4

White Mold

Rps1k

Phytophthora Root Rot Resistance

PI88788


Soybean Cyst Nematode Resistance

26N02CV™

NEW!

2.6 RM

CONV



- Rps1k gene for PRR
- Excellent emergence for cold soils
- Good SDS tolerance
- Above-average charcoal rot tolerance
- Moderate tolerance to BSR
- Metribuzin tolerant, saflufenacil & sulfentrazone tolerant

Medium

Plant height

Medium

Canopy width

Purple

Flower color

Light Tawny

Pubescence color

Brown

Pod color

Tan

Hilum color

8

Emergence

7

Harvest Standability

6

Sudden Death Syndrome

5

Iron Deficiency Chlorosis

MT

Brown Stem Rot

6

White Mold

Rps1k

Phytophthora Root Rot Resistance


NR

Soybean Cyst Nematode Resistance

24N05E™

NEW!

2.4 RM



- Good white mold tolerance
- Peking SCN source
- Rps1k gene for PRR
- Excellent standability
- Above-average SDS score
- Metribuzin tolerant, saflufenacil & sulfentrazone tolerant

Medium

Plant height

Medium

Canopy width

Purple

Flower color

Light Tawny

Pubescence color

Brown

Pod color

Brown

Hilum color

7

Emergence

8

Harvest Standability

6

Sudden Death Syndrome

5

Iron Deficiency Chlorosis

MT

Brown Stem Rot

6

White Mold

Rps1k

Phytophthora Root Rot Resistance


Peking

Soybean Cyst Nematode Resistance

27N03E™

NEW!

2.7 RM



- Peking SCN resistance
- Good emergence and standability
- Rps1k gene for PRR
- Moderate tolerance to BSR
- Very good frogeye leaf spot tolerance
- Metribuzin tolerant, saflufenacil & sulfentrazone tolerant

Medium

Plant height

Medium

Canopy width

Purple

Flower color

Light Tawny

Pubescence color

Tan

Pod color

Black

Hilum color

6

Emergence

6

Harvest Standability

5

Sudden Death Syndrome

5

Iron Deficiency Chlorosis

MT

Brown Stem Rot

3

White Mold

Rps1k

Phytophthora Root Rot Resistance


Peking

Soybean Cyst Nematode Resistance

25N04E™

NEW!

2.5 RM



- Excellent standability
- Very good SDS score
- Rps1k gene for PRR
- Good charcoal rot protection
- High tolerance to BSR
- Metribuzin tolerant, saflufenacil & sulfentrazone tolerant

Medium

Plant height

Medium

Canopy width

Purple

Flower color

Light Tawny

Pubescence color

Brown

Pod color

Black

Hilum color

7

Emergence

8

Harvest Standability

7

Sudden Death Syndrome

3

Iron Deficiency Chlorosis

HT

Brown Stem Rot

4

White Mold

Rps1k

Phytophthora Root Rot Resistance


PI88788

Soybean Cyst Nematode Resistance

27N06E™

NEW!

2.7 RM



- Stacked Rps1k,3a PRR protection
- Good SDS tolerance
- Strong emergence for cold soils
- Acceptable IDC score for high-pH soils
- Moderate-stature plant with strong standability
- Metribuzin tolerant, saflufenacil & sulfentrazone tolerant

Medium

Plant height

Medium

Canopy width

White

Flower color

Light Tawny

Pubescence color

Tan

Pod color

Black

Hilum color

7

Emergence

7

Harvest Standability

6

Sudden Death Syndrome

5

Iron Deficiency Chlorosis

MT

Brown Stem Rot

4

White Mold

Rps 1k,3a

Phytophthora Root Rot Resistance


PI88788

Soybean Cyst Nematode Resistance

SOYBEAN BRANDS

29N02E™

2.9 RM



- Best performance in highly productive soils
- Very good emergence
- Excellent frogeye leaf spot tolerance
- Rps1a gene for PRR
- Acceptable SDS score
- Metribuzin tolerant, saflufenacil & sulfentrazone tolerant

Medium-Tall

Medium

White

Plant height

Canopy width

Flower color

Gray

Brown

Buff

Pubescence color

Pod color

Hilum color

MS

2

Rps1a

PI88788

Brown Stem Rot


White Mold

Phytophthora Root Rot Resistance

Soybean Cyst Nematode Resistance

29N04E™

2.9 RM



NEW!

- Rps1k gene for PRR
- Good tolerance to SDS
- Good frogeye leaf spot tolerance
- Very good emergence for no-till soils
- Highly tolerant to BSR
- Metribuzin tolerant, saflufenacil & sulfentrazone tolerant

Medium

Medium

Purple

Plant height

Canopy width

Flower color

Light Tawny

Tan

Black

Pubescence color

Pod color

Hilum color

HT

4

Rps1k

PI88788

Brown Stem Rot


White Mold

Phytophthora Root Rot Resistance

Soybean Cyst Nematode Resistance

31N07E™

3.1 RM



NEW!

- Strong emergence for no-till soils
- High tolerance to BSR
- Good tolerance to charcoal rot
- Light tawny variety with excellent yield potential
- Best performance when used with Lumisena® fungicide seed treatment
- Metribuzin tolerant, saflufenacil & sulfentrazone tolerant

Medium

Medium

Purple

Plant height

Canopy width

Flower color

Light Tawny

Brown

Black

Pubescence color

Pod color

Hilum color

HT

4

NR

PI88788

Brown Stem Rot


White Mold

Phytophthora Root Rot Resistance

Soybean Cyst Nematode Resistance

33N04E™

3.3 RM



NEW!

- High yield potential variety
- Rps1k for PRR
- Best fit on tighter-textured soils
- Good frogeye leaf spot tolerance
- Strong emergence for no-till soils
- Metribuzin tolerant, saflufenacil & sulfentrazone tolerant

Medium

Medium

Purple

Plant height

Canopy width

Flower color

Light Tawny

Brown

Black

Pubescence color

Pod color

Hilum color

MS

3

Rps1k

PI88788

Brown Stem Rot


White Mold

Phytophthora Root Rot Resistance

Soybean Cyst Nematode Resistance

34N02E™

3.4 RM



- Excellent frogeye leaf spot tolerance
- Very good charcoal rot protection
- Rps1k gene for PRR
- Very good emergence and good standability
- Peking SCN resistance
- Metribuzin tolerant, saflufenacil & sulfentrazone tolerant

Medium

Medium

Purple

Plant height

Canopy width

Flower color

Light Tawny

Brown

Brown

Pubescence color

Pod color

Hilum color

MT

2

Rps1k

Peking

Brown Stem Rot


White Mold

Phytophthora Root Rot Resistance

Soybean Cyst Nematode Resistance

36N04E™

3.6 RM



NEW!

- Excellent harvest standability
- Strong SDS tolerance
- Good charcoal rot tolerance
- Rps1a gene for PRR
- Moderate tolerance to Metribuzin
- Saflufenacil & sulfentrazone tolerant

Medium

Medium

Purple

Plant height

Canopy width

Flower color

Light Tawny

Brown

Black

Pubescence color

Pod color

Hilum color

HT

NR

Rps1a

PI88788

Brown Stem Rot

White Mold

Phytophthora Root Rot Resistance

Soybean Cyst Nematode Resistance

SOYBEAN BRANDS

37N02CV™

3.7 RM

CONV

- Conventional genetics
- Rps1k gene with moderate field tolerance
- Highly tolerant to BSR
- Good stem canker tolerance
- Good frogeye leaf spot tolerance
- Metribuzin tolerant, saflufenacil & sulfentrazone tolerant

7	7	6	4	Medium	Medium	White	
Emergence	Harvest Standability	Sudden Death Syndrome	Iron Deficiency Chlorosis	Plant height	Canopy width	Flower color	
				Light Tawny	Brown	Black	
				Pubescence color	Pod color	Hilum color	
				HT	4	Rps1k	PI88788
				Brown Stem Rot	White Mold	Phytophthora Root Rot Resistance	Soybean Cyst Nematode Resistance

37N03E™

3.7 RM

NEW!

Enlist E3 SOYBEANS

- Rps1k gene for PRR
- Good standability
- Good charcoal rot tolerance
- Best performance in zone and south
- Best performance on tighter-textured soils
- Metribuzin tolerant, saflufenacil & sulfentrazone tolerant

7	6	5	4	Medium	Medium	White	
Emergence	Harvest Standability	Sudden Death Syndrome	Iron Deficiency Chlorosis	Plant height	Canopy width	Flower color	
				Light Tawny	Brown	Black	
				Pubescence color	Pod color	Hilum color	
				HT	NR	Rps1k	PI88788
				Brown Stem Rot	White Mold	Phytophthora Root Rot Resistance	Soybean Cyst Nematode Resistance

39N07E™

3.9 RM

Enlist E3 SOYBEANS

- Excellent stem canker protection
- Very good emergence and standability
- Rps1k gene for PRR
- Attractive light tawny plant
- Highly tolerant to BSR
- Metribuzin tolerant, saflufenacil & sulfentrazone tolerant

7	7	5	5	Medium	Medium-Thin	White	
Emergence	Harvest Standability	Sudden Death Syndrome	Iron Deficiency Chlorosis	Plant height	Canopy width	Flower color	
				Light Tawny	Brown	Black	
				Pubescence color	Pod color	Hilum color	
				HT	NR	Rps1k	PI88788
				Brown Stem Rot	White Mold	Phytophthora Root Rot Resistance	Soybean Cyst Nematode Resistance

42N05E™

4.2 RM

NEW!

Enlist E3 SOYBEANS

- Strong standability
- Rps1c gene for PRR
- Very good charcoal rot tolerance
- Light tawny/tan variety
- Medium plant height and medium thin canopy width
- Metribuzin tolerant

6	7	5	4	Medium	Medium-Thin	Purple	
Emergence	Harvest Standability	Sudden Death Syndrome	Iron Deficiency Chlorosis	Plant height	Canopy width	Flower color	
				Light Tawny	Tan	Black	
				Pubescence color	Pod color	Hilum color	
				MS	NR	Rps1c	PI88788
				Brown Stem Rot	White Mold	Phytophthora Root Rot Resistance	Soybean Cyst Nematode Resistance

45N04E™

4.5 RM

Enlist E3 SOYBEANS

- Very good frogeye leaf spot tolerance
- E3/STS stacked variety
- Very good emergence and standability
- Outstanding stem canker score
- Best performance when used with Lumisena® fungicide seed treatment
- Metribuzin tolerant

7	7	5	5	Medium	Medium	White	
Emergence	Harvest Standability	Sudden Death Syndrome	Iron Deficiency Chlorosis	Plant height	Canopy width	Flower color	
				Light Tawny	Brown	Black	
				Pubescence color	Pod color	Hilum color	
				MS	NR	NR	PI88788
				Brown Stem Rot	White Mold	Phytophthora Root Rot Resistance	Soybean Cyst Nematode Resistance

45N09E™

4.5 RM

Enlist E3 SOYBEANS


- Excellent stem canker protection
- Wide adaptability
- Acceptable SDS protection
- Good emergence and standability
- Best performance when used with Lumisena® fungicide seed treatment
- Metribuzin tolerant, saflufenacil & sulfentrazone tolerant

6	6	5	4	Medium	Medium	White	
Emergence	Harvest Standability	Sudden Death Syndrome	Iron Deficiency Chlorosis	Plant height	Canopy width	Flower color	
				Light Tawny	Brown	Black	
				Pubescence color	Pod color	Hilum color	
				MS	NR	NR	PI88788
				Brown Stem Rot	White Mold	Phytophthora Root Rot Resistance	Soybean Cyst Nematode Resistance

SOYBEAN BRANDS

47N04E™

4.7 RM



- Excellent frogeye leaf spot and stem canker protection
- Excellent yield potential
- Wide area of adaptability
- Good charcoal rot protection
- Very good standability
- Best performance when used with Lumisena® fungicide seed treatment

6

Emergence

7

Harvest Standability

6

Sudden Death Syndrome

3

Iron Deficiency Chlorosis

MS

Brown Stem Rot

NR

White Mold

NR

Phytophthora Root Rot Resistance


PI88788

Soybean Cyst Nematode Resistance

49N04E™

NEW!

4.9 RM



- Stacked E3/STS variety
- Suited for double crop acres
- Very good emergence for high-residue situations
- Good charcoal rot tolerance
- Avoid fields with a history of southern root knot nematode
- Best performance when used with Lumisena® fungicide seed treatment

7

Emergence

5

Harvest Standability

4

Sudden Death Syndrome

2

Iron Deficiency Chlorosis

MS

Brown Stem Rot

NR

White Mold

NR

Phytophthora Root Rot Resistance

PI88788

Soybean Cyst Nematode Resistance

Notes:

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SOYBEAN CHARACTERISTICS

	Brand Name	Technology	Relative Maturity	Plant Height	Canopy Width	Flower Color	Pubescence Color	Pod Color	Hilum Color	Emergence	Harvest & Standability	Soybean Cyst Nematode Resistance		Phytophthora Root Rot Resistance	Phytophthora Field Tolerance	Iron Deficiency Chlorosis	Charcoal Rot	Brown Stem Rot	White Mold	Sudden Death Syndrome	Frogeye Leaf Spot	Stem Canker	Herbicide Resistance	Average Seed Size (seeds per pound)	Brand Name
	16N04E™	E3	1.6	MS	M	P	LT	BR	BR	7	7	PI88788		Rps1k	4	5	6	HT	6	6	3	NR	E3	3300-3500	16N04E™
NEW!	18N03E™	E3	1.8	M	M	W	LT	TN	BR	8	7	PI88788		Rps 1k,3a	NR	6	3	HT	4	55	6	NR	E3	2300-2500	18N03E™
NEW!	20N05E™	E3	2	M	M	W	LT	TN	BR	8	6	PI88788		Rps 1k,3a	NR	5	4	HT	4	55	6	NR	E3	2500-2700	20N05E™
NEW!	22N03E™	E3	2.2	M	M	P	LT	BR	BR	7	7	PI88788		Rps1k	4	3	7	MT	4	66	3	NR	E3	2500-2700	22N03E™
NEW!	24N05E™	E3	2.4	M	M	P	LT	BR	BR	77	8	Peking		Rps1k	44	5	5	MT	6	66	8	NR	E3	3100-3300	24N05E™
	25N04E™	E3	2.5	M	M	P	LT	BR	BL	7	8	PI88788		Rps1k	5	3	6	HT	4	7	3	NR	E3	2100-2300	25N04E™
NEW!	26N02CV™	CNV	2.6	M	M	P	LT	BR	TN	8	7	NR		Rps1k	4	5	6	MT	6	6	6	NR	CNV	2500-2700	26N02CV™
	27N03E™	E3	2.7	M	M	P	LT	TN	BL	6	6	Peking		Rps1k	3	5	4	MT	3	5	7	NR	E3	3300-3500	27N03E™
NEW!	27N06E™	E3	2.7	M	M	W	LT	TN	BL	7	7	PI88788		Rps 1k,3a	NR	5	5	MT	4	66	8	NR	E3	2700-2900	27N06E™
	29N02E™	E3	2.9	MT	M	W	G	BR	BU	7	6	PI88788		Rps1a	5	3	4	MS	2	5	9	NR	E3	2500-2700	29N02E™
NEW!	29N04E™	E3	2.9	M	M	P	LT	TN	BL	7	6	PI88788		Rps1k	33	3	6	HT	4	66	6	NR	E3	3300-3500	29N04E™
NEW!	31N07E™	E3	3.1	M	M	P	LT	BR	BL	7	6	PI88788		NR	44	4	6	HT	44	55	3	NR	E3	2100-2300	31N07E™
NEW!	33N04E™	E3	3.3	M	M	P	LT	BR	BL	7	5	PI88788		Rps1k	44	3	5	MS	33	44	6	NR	E3	3100-3300	33N04E™
	34N02E™	E3	3.4	M	M	P	LT	BR	BR	7	6	Peking		Rps1k	2	4	7	MT	2	5	8	NR	E3	3100-3300	34N02E™
NEW!	36N04E™	E3	3.6	M	M	P	LT	BR	BL	77	9	PI88788		Rps1a	44	3	6	HT	NR	77	3	NR	E3	2900-3100	36N04E™
	37N02CV™	CNV	3.7	M	M	W	LT	BR	BL	7	7	PI88788		Rps1k	5	4	2	HT	4	6	6	6	CNV	2500-2700	37N02CV™
NEW!	37N03E™	E3	3.7	M	M	W	LT	BR	BL	7	6	PI88788		Rps1k	44	4	6	HT	NR	55	3	NR	E3	2500-2700	37N03E™
	39N07E™	E3	3.9	M	MT	W	LT	BR	BL	7	7	PI88788		Rps1k	4	5	5	HT	NR	5	3	9	E3	2700-2900	39N07E™
NEW!	42N05E™	E3	4.2	M	MT	P	LT	TN	BL	6	7	PI88788		Rps1c	44	4	7	MS	NR	55	6	NR	E3	2900-3100	42N05E™
NEW!	45N04E™	E3	4.5	M	M	W	LT	BR	BL	7	7	PI88788		NR	5	5	6	MS	NR	5	7	8	E3	3100-3300	45N04E™
	45N09E™	E3	4.5	M	M	W	LT	BR	BL	6	6	PI88788		NR	5	4	6	MS	NR	5	5	8	E3	2900-3100	45N09E™
	47N04E™	E3	4.7	M	M	W	LT	BR	BR	6	7	PI88788		NR	5	3	6	MS	NR	6	8	8	E3	2500-2700	47N04E™
NEW!	49N04E™	E3	4.9	M	M	P	G	BR	IB	7	5	PI88788		NR	44	22	6	MS	NR	44	5	NR	E3	2900-3100	49N04E™

Technology

Conv = Conventional
E3 = Enlist E3® soybeans

Plant Height

T = Tall
M = Medium
MT = Medium-Tall
MS = Medium-Short

Canopy Width

B = Bush
MB = Medium-Bush
MF = Medium-Full
M = Medium
MT = Medium-Thin
T = Thin

Flower Color

W = White
P = Purple

Pubescence Color

G = Gray
T = Tawny
LT = Light Tawny

Hilum Color

BU = Buff
BR = Brown
BL = Black
IB = Imperfect Black

Ratings

9 = Outstanding or Resistant
8 = Excellent
7 = Very Good
6 = Good
5 = Average
4 or less = Poor
Double digits = Preliminary scores

NR = Not Rated
HT = Highly Tolerant
MS = Moderately Susceptible
MT = Moderately Tolerant

IMPORTANT: Characteristic scores provide key information useful in selecting and managing products in your area. Information and scores are assigned by NuTech Seed and are based on period-of-years testing through 2022 harvest and were the latest available at time of printing. Some scores may change after 2023 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.



2024 Soybean Seed Treatment Portfolio

PREMIUM PACKAGE

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

- Lumisena offers best-in-class protection against the number one early-season disease in soybeans, Phytophthora.
- Multiple modes of action against key diseases helps maximize yield potential with healthy, uniform stand establishment.

Fungicide Seed Treatment Package
Lumisena® fungicide seed treatment
EverGol® Energy
L-2030 R biofungicide
Insecticide Seed Treatments
Gaucho®
FUNGICIDE/NEMATICIDE SEED TREATMENT
ILEVO® (high rate)

Lumisena®

FUNGICIDE SEED TREATMENT

Advantage Over Industry Standard
Best-in-class protection against Phytophthora

4.0 bu/A
YIELD
ADVANTAGE¹

IN HIGH STRESS
ENVIRONMENTS VS.
HIGH RATE METALAXYL

1.0 bu/A
YIELD
ADVANTAGE¹

BENEFIT ACROSS
THE FARM VS. HIGH RATE
METALAXYL

Protection Against Key Diseases With LumiGEN® Seed Treatments for Soybeans

	Trade Name	Phytophthora	Pythium	Rhizoctonia	Fusarium	Phomopsis
	Lumisena® fungicide (Oxathiapiprolin)	•				
	EverGol® Energy fungicide (Metalaxyl)		•			
	EverGol® Energy fungicide (Penflufen)			•		•
	EverGol® Energy fungicide (Prothioconazole)			•	•	
	L-2030 R biofungicide			••	••	
	Modes of Action	1	1	3	2	1



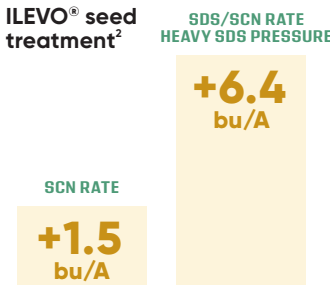
LumiGEN®

SEED TREATMENT

ILEVO® FUNGICIDE/NEMATICIDE SEED TREATMENT

Two rates of extra protection for fields at risk of soybean cyst nematode (SCN) and sudden death syndrome (SDS)

- At lower rate – protection against SCN (third party option)
- At higher rate – protection against SCN and SDS (NuTech premium package)



ADD L-120+ PLUS EXTENDER (THIRD-PARTY OPTION)

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

OPTIONAL THIRD PARTY INSECT PACKAGE

Broader than “FST alone” for pest protection, including early season insects.

- Lumiderm® insecticide seed treatment reduces plant stand gaps and controls more than twice as many insects compared to Gaucho® alone. Enhancing protection against insects such as seedcorn maggots, cutworms*, grubs, thrips, wireworms, aphids and bean leaf beetles is key to early-planting and cover-crop practices.³
- Two modes of action option available combining Lumiderm with Gaucho®.
- Multi-year research data shows a 1-3 bushel yield improvement by adding Lumiderm.⁴

PROTECTION



Insects:

- Bean leaf beetles
- Early season aphids
- Seedcorn maggots
- Cutworms*
- White grubs
- Wireworms
- Thrips

Lumiderm®

INSECTICIDE SEED TREATMENT

Protection Against Seedcorn Maggot



Only fungicide seed treatment: injured cotyledon



Lumiderm® insecticide seed treatment 0.57 fl oz/140k: well-protected cotyledons

Lumiderm®
INSECTICIDE SEED TREATMENT

Lumisena®
FUNGICIDE SEED TREATMENT

ILEVO®
Seed Treatment

¹Data is based on 638 head-to-head comparisons between Lumisena® fungicide seed treatment (0.568 fl oz/cwt) and metalaxyl (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.

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

³Significant yield improvement and reduction in plant stand gaps based on Corteva Agriscience research data 2018-2019, 73 locations.

⁴Data based on Corteva Agriscience research data 2019-2021, 82 locations.

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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 and Lumisena® fungicide seed treatment may not be registered for sale or use in all states. Contact your state pesticide regulatory agency to determine if a product is registered for sale or use in your state.

*Cutworm research complete with label addition pending EPA approval.

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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ILEVO® fungicide/nematicide seed treatment is a registered trademark of BASF.

Always read and follow label directions.

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REFUGE REQUIREMENTS

				Product Refuge Requirements			Herbicide Resistance				Corn Belt–Separate Refuge	
ID	Product Name	Technology Description		Description	Integrated Components	Structured	Glyphosate	Liberty®	Enlist®	Insect Protection	Refuge Size Requirement	Refuge Distance Requirement
V		Vorceed™ Enlist® corn combines three modes of action for above-ground insect protection and three modes of action for below-ground insect protection, including RNAi technology. It also includes tolerance to four herbicides—glyphosate, glufosinate, 2,4-D choline and FOP—to help improve resistant weed management.		Additional 20% corn borer refuge is required in EPA-designated cotton counties.	<div><div></div>95% HXX, RW3, VTP, ENL, LL, RR2</div> <div><div></div>5% ENL, LL, RR2</div>		✓	✓	✓		<div><div>0%</div>CORN BELT REFUGE</div>	None
Q		Qrome® technology is the most advanced technology for above- and below-ground insect protection. It is a single-bag integrated product with a 95/5 blend of two hybrids. The first contains a unique molecular stack of the proven <i>Bt</i> proteins from the Herculex® I and Herculex® RW traits, Agrisure® RW, YGCB, LL and RR2 traits. The second contains the LL and RR2 traits.		Single-bag product with integrated corn borer and corn rootworm refuge. In EPA-designated cotton counties, additional 20% corn borer refuge is required.	<div><div></div>95% RW, YGCB, HXX, LL, RR2</div> <div><div></div>5% LL, RR2</div>		✓	✓			<div><div>0%</div>CORN BELT REFUGE</div>	None
SXRA/SSR		SmartStax® trait technology uses multiple modes of action for control of above- and below-ground insects to cover a broad spectrum of insect threats and defend your yield. Conveniently packaged as a single-bag solution with no separate structured refuge required for planting in the Corn Belt.		Single-bag product with integrated corn borer and corn rootworm refuge. In EPA-designated cotton counties, additional 20% corn borer refuge is required.	<div><div></div>95% VT2, HX1, VT3, HXRW, LL, RR2</div> <div><div></div>5% RR2, LL</div>		✓	✓			<div><div>0%</div>CORN BELT REFUGE</div>	None
SXE/SE		SmartStax® trait technology uses multiple modes of action for control of above- and below-ground insects to cover a broad spectrum of insect threats and defend your yield. The Enlist® corn trait adds advanced herbicide-tolerant technology, with tolerances to 2,4-D choline, glyphosate and FOP herbicides such as quizalofop.		Trusted traits, 5% Corn Belt, 20% corn borer in cotton counties.	100% VT2, HX1, VT3, HXRW, LL, RR2, Enlist	✓	✓	✓	✓		<div><div>5%</div>CORN BELT REFUGE</div>	Within or adjacent
SX/SS		SmartStax® trait technology uses multiple modes of action for control of above- and below-ground insects to cover a broad spectrum of insect threats and defend your yield.		Trusted traits, 5% Corn Belt, 20% corn borer in cotton counties.	100% VT2, HX1, VT3, HXRW, LL, RR2	✓	✓	✓			<div><div>5%</div>CORN BELT REFUGE</div>	Within or adjacent
AMXT		Optimum® AcreMax® Xtrema insect protection is a single-bag, integrated corn borer and corn rootworm product featuring multiple modes of insect protection through a 95/5 blend of two hybrids. The first contains the Agrisure® RW, YGCB, HXX, LL and RR2 traits. The second contains the RR2 and LL traits.		Single-bag product with integrated corn borer and corn rootworm refuge. In EPA-designated cotton counties, additional 20% corn borer refuge is required.	<div><div></div>95% RW, YGCB, HXX, LL, RR2</div> <div><div></div>5% RR2, LL</div>		✓	✓			<div><div>0%</div>CORN BELT REFUGE</div>	None
PWRA/PCR		PowerCore® trait technology is a combination of three modes of action to provide superior control of above-ground insects. This focused insect control is specialized for areas with minimal rootworm pressure, conveniently packaged as a single-bag solution with no separate structured refuge required for planting in the Corn Belt.		Single-bag product with integrated corn borer refuge. In EPA-designated cotton counties, additional 20% corn borer refuge is required.	<div><div></div>95% VT2, HX1, LL, RR2</div> <div><div></div>5% RR2, LL</div>		✓	✓			<div><div>0%</div>CORN BELT REFUGE</div>	None
PWE/PE		PowerCore® trait technology is a combination of three modes of action to provide superior control of above-ground insects. This focused insect control is specialized for areas with minimal rootworm pressure. The Enlist® corn trait adds advanced herbicide-tolerant technology, with tolerances to 2,4-D choline, glyphosate and FOP herbicides such as quizalofop.		Trusted traits, 5% Corn Belt, 20% corn borer in cotton counties.	100% VT2, HX1, LL, RR2, Enlist	✓	✓	✓	✓		<div><div>5%</div>CORN BELT REFUGE</div>	Within, adjacent or up to a half mile
AML		Optimum® AcreMax® Leptra® insect protection is a single-bag, integrated corn borer refuge product. It features a 95/5 blend of two hybrids: one containing the AVBL, YGCB, HX1, LL and RR2 traits and the other containing the RR2 and LL traits.		Single-bag product with integrated corn borer refuge. In EPA-designated cotton counties, additional 20% corn borer refuge is required.	<div><div></div>95% AVBL, YGCB, HX1, LL, RR2</div> <div><div></div>5% RR2, LL</div>		✓	✓			<div><div>0%</div>CORN BELT REFUGE</div>	None
AM		Optimum® AcreMax® insect protection is a single-bag, integrated corn borer refuge product. It features a 95/5 blend of two hybrids: one containing the YGCB, HX1, LL and RR2 traits and the other containing the RR2 and LL traits.		5% LL, RR2	<div><div></div>95% YGCB, HX1, LL, RR2</div> <div><div></div>5% RR2, LL</div>		✓	✓			<div><div>0%</div>CORN BELT REFUGE</div>	None
VYHR		Optimum® Leptra® hybrids offer superior control of above-ground pests. These hybrids contain HX1, YGCB, AVBL, LL and RR2 traits.		Trusted traits, 20% Corn Belt, 20% corn borer in cotton counties.	100% AVBL, YGCB, HX1, LL, RR2	✓	✓	✓			<div><div>20%</div>CORN BELT REFUGE</div>	Within or adjacent
5FN/YHR		Optimum® Intrasect® insect protection is a reduced-refuge product with multiple modes of above-ground insect protection. These hybrids contain the YGCB, HX1, LL and RR2 traits. This product has both glyphosate and glufosinate tolerance.		Trusted traits, 20% Corn Belt, 20% corn borer in cotton counties.	100% YGCB, HX1, LL, RR2	✓	✓	✓			<div><div>20%</div>CORN BELT REFUGE</div>	Within or adjacent
5KN/CYXR		Optimum® Intrasect® Xtrema insect protection is a single-bag, integrated corn borer and corn rootworm product featuring multiple modes of insect protection. These hybrids contain the Agrisure® RW, YGCB, HXX, LL and RR2 traits.		Trusted traits, 5% Corn Belt, 20% corn borer in cotton counties.	100% RW, YGCB, HXX, LL, RR2	✓	✓	✓			<div><div>5%</div>CORN BELT REFUGE</div>	Within or adjacent
5DN/YXR		Optimum® Intrasect® Xtra insect protection offers multiple modes of insect protection including above- and below-ground traits. These hybrids contain the YGCB, HXX, LL and RR2 traits. This product has both glyphosate and glufosinate tolerance.		Trusted traits, 20% Corn Belt, 20% corn borer in cotton counties.	100% YGCB, HXX, LL, RR2	✓	✓	✓			<div><div>20%</div>CORN BELT REFUGE</div>	Within or adjacent
5R		Optimum® TRIsect® hybrids contain a unique mode of action against corn rootworm pests, along with providing protection against above-ground insects. These hybrids contain the Agrisure® RW, HX1, LL and RR2 traits.		An additional high-performance choice for above- and below-ground insect protection, 20% Corn Belt, 50% corn borer in cotton counties.	100% RW, HX1, LL, RR2	✓	✓	✓			<div><div>20%</div>CORN BELT REFUGE</div>	Within or adjacent
CYFR	CYFR	This product contains a unique molecular stack of the proven <i>Bt</i> proteins from the Herculex® I and Herculex® RW traits, Agrisure® RW, YGCB, LL and RR2 traits.		Trusted traits, 5% Corn Belt, 20% corn borer in cotton counties.	100% RW, YGCB, HXX, LL, RR2 (matches the 95% portion of Qrome)	✓	✓	✓			<div><div>5%</div>CORN BELT REFUGE</div>	Within or adjacent

5% refuge equals 5 acres of non-*Bt* corn for every 95 acres of *Bt* corn planted. 20% refuge equals 20 acres of non-*Bt* corn for every 80 acres of *Bt* corn planted. 50% refuge equals 50 acres of non-*Bt* corn for every 50 acres of *Bt* corn planted. Agrisure Viptera® 3220 requires a 5% refuge in the Corn Belt and a 20% refuge in the Cotton Belt. Refuge requirements refer to the Corn Belt only. For Cotton Belt refuge requirements, consult Corn Product Use Guide.

INTEGRATED CORN REFUGE PRODUCTS: = MAJOR COMPONENT = MINOR COMPONENT

STEWARDSHIP THROUGH INSECT RESISTANCE MANAGEMENT

Insect Resistance Management (IRM) for *Bt* Corn

Following an insect resistance management (IRM) program is an essential part of good stewardship. The aim of an IRM program is to reduce the probability of target insects developing increased tolerance to the insecticidal *Bt* proteins, thus maximizing the longevity and effectiveness of these valuable traits in an environmentally conscious way. Sustainable preservation of this technology places individual responsibility on everyone in the seed distribution system, from the seed supplier to the grower planting the seed. Additionally, IRM is a legal obligation, as requirements have been incorporated into the registrations granted by the EPA for all *Bt* corn products.



A decrease in susceptibility or field-evolved resistance of some insect populations to certain technology traits in corn has been observed in different geographies and may result in lower-than-expected efficacy. To help extend durability of this technology, we recommend you implement Integrated Pest Management (IPM) practices such as crop rotation, cultural and biological control tactics (including rotating sources of *Bt*-protected corn traits), pest scouting and appropriate use of pest thresholds when employing management practices such as insecticide application. You must also plant the required refuge when using this technology. Please contact your sales professional or consult with your local university extension for more information regarding insect resistance management guidelines, best management practices and to understand whether there has been a shift in susceptibility or insect resistance documented in your area.

If you have questions after reviewing this document, or if you wish to register a tip or complaint about a grower who may not be following the IRM refuge requirements, please contact your sales professional or call toll free at 1-800-323-6103.

IRM Requirements

IRM programs address: (1) the amount of refuge, (2) the required proximity of hybrids with the *Bt* traits to the refuge, (3) the use of insecticides in the refuge and (4) the design and management of the refuge.

What is a Refuge?

A refuge is a block or strip of corn that does not contain a *Bt* trait for controlling corn pests. The purpose of this refuge is to maintain a population of corn pests that is susceptible to *Bt* proteins. Potentially resistant insects emerging from *Bt* fields

can mate with susceptible insects from the refuge, resulting in *Bt*-susceptible offspring.

There are two types of refuge for products with the *Bt* trait: integrated and structured. Some *Bt* products have an integrated refuge with refuge seed blended in the bag, while other *Bt* products require a structured refuge. A structured refuge requires a grower to plant a portion of a field with another product that does not contain the insect-control traits of the *Bt* product. Grower-blended seed mixtures are not approved for use with any *Bt* hybrids to satisfy grower refuge requirements. Refuge requirements vary by product type and EPA-designated non-cotton and southern corn/cotton growing regions.

IRM Compliance Assurance Program (CAP)

We require all growers purchasing hybrids with a *Bt* trait to sign a *Technology Use Agreement*. By signing, the grower agrees to implement an IRM program—including planting a corn refuge and following EPA-mandated use requirements—as outlined in the Product Use Guide. Failure to follow these IRM requirements can result in the grower losing access to structured refuge products.

The EPA requires *Bt* corn seed providers to conduct on-farm visits as part of a comprehensive Compliance Assurance Program (CAP) to assess whether growers are following the IRM requirements. These on-farm assessments are conducted by an independent third party and directed toward areas at high risk of insect resistance based on pest pressure, *Bt* corn market penetration or insufficient refuge seed purchase.

The CAP also outlines consistent standards developed by the EPA and *Bt* corn registrants for responding to growers who have not followed the IRM requirements to bring them into full compliance. These responses include:

- Notifying the grower by letter of IRM compliance deviations.
- Conducting a [compliance assistance](#) visit with the grower prior to planting to assist the grower in planning and implementing a proper IRM program.
- Conducting a [compliance assessment](#) visit with the grower the following growing season to assess IRM compliance.
- Providing the grower with additional IRM educational materials.
- A grower found with a second incident of non-compliance with refuge requirements within a five-year period will be denied access the next year to the registrant's structured refuge *Bt* corn products.

Structured Refuge Requirements

In **non-cotton** growing areas, the structured refuge requirements are 5% or 20% of corn acres planted for corn borer-protected products and 20% for corn rootworm-protected products. In **cotton** growing areas, the structured refuge requirements are

20% or 50% of corn acres planted for corn borer-protected products and 20% for corn rootworm-protected products.

Structured Refuge Planting Options for Above-Ground, Below-Ground and Above- + Below-Ground Products

A **single-trait refuge** is one that can be used for corn rootworms or corn borers, but not both. A **common refuge** is a single field that serves as a refuge for both corn borers and corn rootworms simultaneously. A **separate refuge** is a refuge designed exclusively for corn borers or exclusively for corn rootworms—i.e., a stacked *Bt* product can require two separate refuges.

Select Similar Hybrid for Structured Refuge

One key to establishing an effective refuge is selecting an appropriate hybrid—one that is agronomically similar to the *Bt* hybrid. This helps ensure that the refuge hybrid has the same likelihood of attracting adult insects as the *Bt* field. The refuge hybrid should match the *Bt* hybrid in maturity, early vigor and plant height.

Refuge Management

Management practices in the refuge acres and *Bt* corn acres must be as similar as possible to promote parallel hybrid development.

- To be effective, the refuge must be the correct size and distance from the *Bt* field, and be planted with a similar hybrid under similar management practices.
- Plant the refuge at the same time as the *Bt* hybrid.
- Fertility programs, including starter and sidedress, should be similar.
- Use the same tillage system in the *Bt* field and the refuge. Different tillage operations may result in dissimilar residue levels on the soil surface. Soil temperature differences could then lead to dramatic early development differences between the *Bt* field and the refuge.
- Reducing inputs on the refuge or planting it on marginal land also decreases the effectiveness of the refuge.
- If the refuge is planted on rotated ground, the trait corn must also be planted on rotated ground. If the refuge is planted on continuous corn ground, the trait corn may be planted on either continuous corn ground or rotated ground. It is also recommended that growers planting continuous corn plant the refuge in the same location each year.
- Practice Integrated Pest Management (IPM) to preserve the natural enemies of corn borers, corn rootworms and other insect pests. Natural predators such as ground beetles and ants can help reduce corn rootworm larvae populations. *Bt* corn insect protection aids IPM, because it affects only target insects and allows beneficial insects to thrive.
- Popcorn can be used as a refuge option, but sweet corn and/or silage corn cannot.

Crop and Grain Marketing Stewardship

Corteva Agriscience is a member of Excellence Through Stewardship® (ETS). Corteva products are commercialized in accordance with ETS Product Launch Stewardship Guidance and in compliance with the Corteva policies regarding stewardship of those products. Crops and materials containing biotech traits may only be exported to or used, processed or sold in jurisdictions where all necessary regulatory approvals have been granted for those crops and materials. It is a violation of national and international laws to move materials containing biotech traits across borders into jurisdictions where their import is not permitted. Growers should discuss these issues with their purchaser or grain handler to confirm the purchaser or handler's position on products being purchased. Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship.

Refuge Calculator

The National Corn Growers Association (NCGA), in collaboration with the industry, has developed a web-based calculator to help growers calculate the minimum refuge requirements for each of the *Bt* products on their farm. This calculator can be accessed at refuge.irmcalculator.com.

Field Monitoring

Monitoring *Bt* fields for insect resistance development is an integral part of an IRM plan. If resistant populations are detected early, alternative control measures can be quickly implemented to reduce the population and halt the spread of resistance. Because of its importance in maintaining the effectiveness of *Bt* technology, the EPA mandates activity monitoring as a condition of registration of *Bt* products. We require customers to monitor *Bt* fields for unexpected levels of insect damage and report any high level of suspected insect damage to a sales professional for further investigation. Acres planted with *Bt* hybrids should be correctly marked at planting to prevent confusion when monitoring.

Structured Refuge Configuration

Because *Bt* corn growers use different management practices, considerable flexibility is allowed in laying out the refuge. Several of these refuge patterns are described below.

Surveys indicate that most farmers plant the refuge within the *Bt* field. This closer proximity increases refuge effectiveness and maximizes *Bt* acreage in the field.

Refuge Within the *Bt* Field:

- Block
- Perimeter or Border
- Split Planter

FOR MORE INFORMATION, VISIT WWW.NUTECHSEED.COM.

NuTech Seed reserves the right to substitute product at its discretion in the event of crop or allocation shortages. The Buyer may accept or reject the substitute product at the point of offer. NuTech Seed shall not be liable for any breach of warranty or breach of contract claims in connection with unavailable product.

NuTech Seed warrants that seed sold by it conforms to the label description on the seed packaging within tolerances established or permitted by law. NUTECH SEED MAKES NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. It is expressly agreed that NuTech Seed's liability for any loss or damage arising out of or relating to the purchase or use of its products, including, but not limited to, liability arising out of breach of contract, breach of warranty or negligence, shall be limited, at the sole discretion of NuTech Seed, to comparable product or to refund of the amount of the purchase price for the seed. This remedy is exclusive. In no event shall NuTech Seed be liable for any incidental or consequential damages, including loss of profits.

NuTech Seed utilizes isolation and purity measures in the production of its seed products. Because of factors beyond its control, NuTech Seed does not represent or warrant that any NuTech Seed products are free of any genetically modified materials or organisms.

These terms and conditions of sale are in addition to those contained in NuTech Seed sale documents (e.g., order forms) and on NuTech Seed product packaging and labeling.

PRODUCT NOTES:

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/> or visit <https://seedinnovation.ca/hybrid/> to review the EU approval status for specific hybrids marketed in Canada.

Optimum® AQUAmax®: 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.

Lumialza® nematocide seed treatment, Lumiderm® insecticide seed treatment, Lumiflex™ fungicide seed treatment, Lumiscend™ Pro fungicide seed treatment, Lumisena® fungicide seed treatment, Lumisure® insecticide seed treatment and Lumivia® insecticide seed treatment may not be registered for sale or use in all states. Contact your state pesticide regulatory agency to determine if a product is registered for sale or use in your state.

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.

AM — Optimum® AcreMax® Insect Protection system with YGCB, HX1, LL, RR2. Contains a single-bag integrated refuge solution for above-ground insects. AML — Optimum® AcreMax® Leptra® products with AVBL, YGCB, HX1, LL, RR2. Contains a single-bag integrated refuge solution for above-ground insects. 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. 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 B.t. trait, and the Herculex® XTRA genes. YGCB, HXX, LL, RR2 (Optimum® Intrasect® Xtra) — Contains a B.t. trait and the Herculex XTRA genes for resistance to corn borer and corn rootworm. YGCB, HX1, LL, RR2 (Optimum® Intrasect®) — Contains a B.t. trait and Herculex® I gene for resistance to corn borer. RW, HX1, LL, RR2 (Optimum® TRIsect®) — Contains the Herculex I gene for above-ground pests and the Agrisure® RW trait for resistance to corn rootworm. RW, YGCB, HXX, LL, RR2 (Optimum® Intrasect® XTreme) — Contains the Agrisure® RW trait, a B.t. trait, and the Herculex® XTRA genes for resistance to corn borer and corn rootworm. Optimum Intrasect XTreme

will be the major component of Optimum AcreMax XTreme. Q (Qrome®) — Contains a single-bag integrated refuge solution for above- and below-ground insects. The major component contains the Agrisure® RW trait, the B.t. trait, and the Herculex® XTRA genes. In EPA-designated cotton growing counties, a 20% separate corn borer refuge must be planted with Qrome. products. V – 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.

Agrisure® technology incorporated into these seeds is commercialized under a license from Syngenta Crop Protection AG.

SmartStax® and PowerCore® multi-event technology developed by Corteva Agriscience and Monsanto.

The transgenic soybean event in Enlist E3® soybeans is jointly developed and owned by Corteva Agriscience and M.S. Technologies L.L.C. Enlist Duo® and Enlist One® herbicides are not registered for sale or use in all states or counties. Contact your state pesticide regulatory agency to determine if a product is registered for sale or use in your area. Enlist Duo and Enlist One are the only 2,4-D products authorized for use with Enlist crops. Consult Enlist herbicide labels for weed species controlled.

Always 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.

The Vorceed™ Enlist® corn product is not yet available for sale in Canada.

Corteva Agriscience is a member of Excellence Through Stewardship® (ETS). 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. Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship.

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.

Always read and follow label directions.

TRADEMARK OWNERSHIP:

™ ® Trademarks of Corteva Agriscience and its affiliated companies.

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

ILEVO®, Liberty®, LibertyLink® and the Water Droplet Design are registered trademarks of BASF.

® PowerCore is a registered trademark of Monsanto Technology LLC. Always follow IRM, grain marketing and all other stewardship practices and pesticide label directions. SmartStax® multi-event technology developed by Corteva Agriscience and Monsanto Company. ®SmartStax and the SmartStax Logo are registered trademarks of Bayer Group.

Agrisure® and Agrisure Viptera® are registered trademarks of, and used under license from, a Syngenta Group Company.

EverGol®, Gaucho®, SmartStax and the SmartStax logo are registered trademarks of Bayer Group.

®Respect the Refuge Logo is a trademark of the National Corn Growers Association.

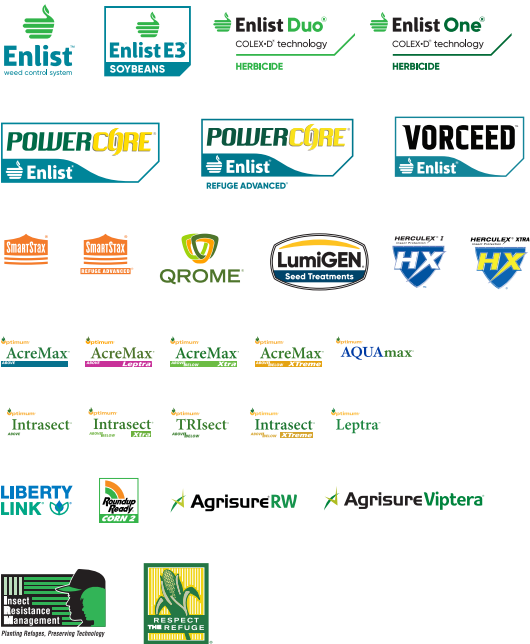
SOYBEANS PIRACY STATEMENT

Not only can it be illegal to save and replant patented seed, but, as a grower, you need to consider the yield results and profitability. NuTech Seed offers no quality guarantee for bin-run seed. Growers also incur extra costs like cleaning, storage, handling and germination testing for such endeavors.

BENEFITS OF NEW SEED:

- Meets quality standards of seed company
 - Professionally handled and rigorously tested
 - › Dramatically reduces splits and foreign matter
 - › Ensures varietal purity
 - Germination tests for peace of mind
 - Weed free
- Access to the most elite germplasm
- Average loss of approximately 10% to 15% cleanout at harvest for bin-run seed
- New seed yields an average of 1.8 bushels per acre more than bin-run seed (university yield trials range from 1.2 to 5.9 bushels per acre)
- Dealer agronomic support before and after the sale
- Royalties provide research and development of new traits and higher-yielding germplasm
- New trait introductions
 - Seven to nine years for commercialization
 - \$50 million to \$100 million in total costs for a new biotech trait

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2024 NuTech Getaway | February 19-24 or 20-25, 2024*

Join us in Costa Rica!

Our next NuTech Getaway will take travelers to the lush, tropical “rich coast” of Costa Rica. Spend six days and five nights at the all-inclusive Dreams Las Mareas Costa Rica, a jewel of a resort on Playa El Jobo, surrounded by a glorious landscape and views of the region’s natural wonders.

Catch up with old friends, meet new ones and make plenty of memories. Whether you’re hanging by the pools, enjoying one of the resort’s many restaurants or taking in the local vistas and wildlife, there’s no lovelier setting to connect with your fellow farmers from across NuTech country.



Amenities and attractions:**

- Luxury rooms with ocean, pool or tropical views
- 8 restaurants and 8 bars and lounges, including a nightclub
- Three pools and beach access
- Spa by Pevonia, providing massages, facials, aromatherapy and more
- A variety of outdoor activities such as water sports, hiking or white water rafting

* We have so many friends interested in our Getaway that we need to stagger the travel dates so there are enough flights for all of us! All travelers will spend six days and five nights at Dreams Las Mareas Costa Rica, either February 19-24 or February 20-25. Travel groups will be determined closer to the departure date.

**Additional costs may apply.

Set your sights on our 2024 NuTech Getaway to stunning Costa Rica!

Contact your NuTech Seed representative or email info@nutechseed.com to learn more about next year’s Getaway and find out how you can qualify.



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News & Notes

We’re covering some things to know this season, preparing you for next year and looking even farther ahead to great technology additions to our lineup.

In this section, check out:

Summer watchlist: Our agronomy team provides a few things to keep an eye on in both corn and soybeans.

Gearing up for Vorceed™ Enlist® corn: We’re preparing for a full launch of this technology in 2025. Until then, read up on what our Vorceed™ Enlist® corn lineup will bring to your fields, including advanced trait technology and elite, high-performing germplasm.

Product features: It’s Seed Guide time! We’ve called out a few special products for 2024 that are worth a closer look.

Enlist® E3® soybeans just keep growing: Our enthusiasm for Enlist E3® soybeans isn’t waning. With ease of use, flexibility and plenty of yield potential, this technology continues to gain momentum with farmers across the U.S.

Meet other herbicides in the Enlist® weed control system program approach: We talk a lot about Enlist® herbicides and preferred tank-mix partner Liberty® herbicide, but those are just some of the many options you have in this flexible system for corn and soybeans. We put together a brief introduction to the range of recommended products for your Enlist weed control system program approach.

Summer Watchlist

Now that crops are in the ground, our agronomy team advises keeping an eye out for these potential issues.

Corn

Tar spot

Tar spot continues to be high on our watchlist. As with all fungal diseases, it thrives in cool, wet weather, so be sure to scout often if the conditions are right in your area. We’re learning more about this disease every season and screening hybrids for tolerance. The hybrids in our lineup all have better-than-average scores against tar spot. Our 2024 Seed Guide includes those ratings, so be sure to check those scores if you’re concerned about tar spot where you farm.

Insect pressures

The mild winter in many areas calls for extra vigilance against insects this year. If you’re practicing no till or cover cropping, these can leave residues and shelter for insects, so make sure you’re watching for fall armyworm, corn rootworm and black cutworm damage in particular. Traits in NuTech Seed® brand hybrids, such as Herculex® insect protection technology, will certainly help offset those risks.



If conditions in your area are cold and damp this summer, scout for tar spot, which could appear if the weather is right.

Soybeans

Damping off diseases

Whether you opted for early planting or got your soybeans in the ground in May or June, damping off diseases can be a threat. NuTech Seed® brand soybeans treated with the LumiGEN® seed treatment package should be off to a great start with solid insect and disease protection. However, don’t neglect scouting for damping off diseases after plants come up. These diseases often strike in just one part of a field. Scout thoroughly to spot issues early, while replanting could still be an option.



Whether you planted Enlist E3 soybeans early or later in the season, you can use Enlist herbicides to control weeds postemergence without worrying about calendar cut-off dates.

Postemergence weeds

With Enlist E3® soybeans, you can plan your postemergence Enlist® herbicide application based on your schedule and weed pressures, rather than the calendar. Be sure to follow all label directions and nozzle recommendations for best performance, and make sure you’re catching those weeds before they get bigger than a pop can.

New pest in western areas: soybean gall midge

Those of you in the western part of NuTech territory may see soybean gall midge this year. These weak flyers will move about 6-10 rows into the field, and their larvae will girdle plants. There aren’t any rescue treatments for this right now, but your NuTech team, as well as researchers at Corteva Agriscience and universities, are looking at this closely to develop best management practices and, hopefully, identify some tolerant varieties.

In both corn and soybeans, keep an eye out for great performance!

Our corn portfolio continues to deliver, and our latest soybean genetics represent a real step change in yield and disease tolerance. We look forward to hearing your yield numbers later this season.



Get Ready for Vorceed™ Enlist® Corn

You've heard us talk some about Vorceed™ Enlist® corn over the past year. This new trait technology with robust below-ground insect control is going to be a great option for our growers with increasingly troublesome corn rootworm (CRW) pressure.

Corteva Agriscience recently announced the official commercial launch of this technology, so you might be wondering: Why are there only a few Vorceed Enlist corn varieties listed in this year's Seed Guide? While we're very enthusiastic about this new technology, we made the strategic decision to wait one more season before bringing it in full force to our customers. Waiting allows us to launch this part of our lineup with plenty of choice and confidence.

By next season, options in Vorceed Enlist corn will be expanded and the technology will be incorporated into some of our top-of-the-line genetics. We're also going to use this year to do additional evaluations. (Our Lead Agronomist Brad Johnson will tell you he was "highly impressed" by what he saw in the Corteva plots last fall.) As they say, patience is a virtue, and we know it will pay off in what we can bring you for 2025. In the meantime, here's what you should know about this technology as we look ahead to adding more of it to our lineup for 2025 planting.

It's going to be a game-changer against CRW

Vorceed Enlist corn represents the next generation of traited CRW protection. In some parts of NuTech country, CRW isn't just a persistent problem, there's concern these pests are starting to show some resistance to the standard protections out there. Vorceed Enlist corn is going to be a big advantage against potential resistance issues because it offers six modes of action against insects, including CRW and above-ground pests. In Corteva trials, they saw a 99% reduction in adult emergence of western and northern CRW. Corteva researchers are finding that level of reduction can help reduce future populations, giving you more insect management options the following season.¹

This high level of CRW control won't be necessary in every part of NuTech territory. Based on today's CRW pressures, we're seeing Vorceed Enlist corn as an ideal fit in northern Illinois and eastern to central Iowa. Your NuTech representative and agronomist will be able to advise you if this technology makes sense for your ground.



Ryan Booton,
NuTech Sales Agronomist,
Certified Crop Advisor

It's part of the Enlist® weed control system

Like other Enlist® corn hybrids, Vorceed Enlist corn is tolerant to four herbicides: 2,4-D choline in Enlist® herbicides, glyphosate, glufosinate and FOP herbicides. This gives your weed control program the ultimate in flexibility and resistance management. You know you can rely on Enlist herbicides to land and stay on target and deliver outstanding weed control. Since Enlist herbicides contain 2,4-D choline—different from traditional 2,4-D formulations—you can use it on corn up to 30" (48" with drop nozzles), letting you leverage this weed control tool when you need it most in corn.

It utilizes RNAi technology

You may have heard some buzz around this. The "i" in RNAi stands for interference. It's complicated science, but the gist is that RNAi is able to suppress expression of certain genes. In this case, when corn rootworm feeds on Vorceed Enlist corn, the RNAi interferes with a critical protein CRW needs to survive, eliminating this threat to your yield. And that's just one of the three distinct modes of action at work against CRW in Vorceed Enlist corn.

This video from Corteva does a great job explaining how RNAi works:



It will be available in our top-performing germplasm

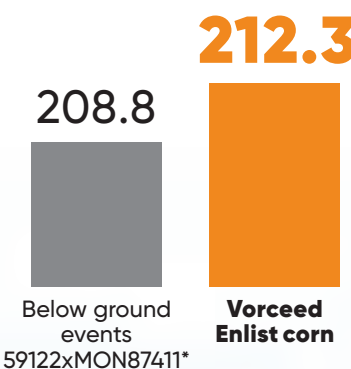
Vorceed Enlist trait technology uses the same molecular stack technology as Qrome® technology, which enables greater germplasm compatibility. That means we can bring you this trait advance in more hybrids. We've already got our eye on some stand-out germplasm that will be a great fit for Vorceed Enlist technology, including 70F6™ and 72A5™. Both of these top performers will continue to be available in Qrome technology, too.

You'll like how it yields

With effective control of both insects and weeds, Vorceed Enlist corn can really thrive in the field. We're seeing a yield bump of 6-8 bu/A over even Qrome products, which is impressive. Under moderate to heavy CRW pressure, Corteva studies showed a 3.5 bu/A yield advantage versus standard industry below-ground traits.²

GRAIN YIELD² (Bu/A)

Under moderate/heavy CRW pressure



In areas of moderate to heavy CRW pressure, studies show Vorceed Enlist corn yields better than hybrids with industry-standard CRW traited production.

We'll be talking about it more!

If you can join us for our field days this summer (details coming soon!), you can learn more about Vorceed Enlist corn in preparation for planting next year.

*Events 59122 x MON87411 are the below-ground insect protection events in SmartStax PRO technology. Tested in Corteva Agriscience germplasm.

¹ 2020 Corteva Agriscience Tent Emergence trials. 6 locations.

² 2020-2021 Corteva Research trials. Moderate and high-pressure locations. Product responses are variable and subject to any number of environmental, disease and pest pressures. Individual results may vary. Multi-year and multi-location data are a better predictor of future performance. DO NOT USE THIS OR ANY OTHER DATA FROM A LIMITED NUMBER OF TRIALS AS A SIGNIFICANT FACTOR IN PRODUCT SELECTION.

At a glance:

6 modes of action against insects

- ✓ 3 vs. below-ground pests (CRW)
- ✓ 3 vs. above-ground pests (lepidopteran species)

4 herbicide tolerances

- ✓ 2,4-D choline in Enlist herbicides
- ✓ Glyphosate
- ✓ Glufosinate
- ✓ FOP herbicides

Utilizes advanced RNAi technology

- ✓ 99% reduction in adult emergence (western and northern CRW)¹

Proven to boost yield

- ✓ 3.5 bu/A yield advantage under moderate to high pressure CRW vs. industry standard protection

Ideal for areas under high CRW pressure

- ✓ And for areas facing emerging CRW resistance

Will be available in elite germplasm from NuTech for 2025 planting

Product Features

Seed Guide season is always exciting for your NuTech agronomy team. We like to see all those great products we've been evaluating put down in print, so you can find plenty of choices to make the best picks for your farm next season. This year, we've got several products in our lineup that deserve an extra shout out.

Featured corn products

(limited supply)

66D1™

We introduced this product last spring in limited quantities, and this season it's ready for primetime. This 106-day hybrid really pops with performance, competing with even 108/109-day hybrids. 66D1 is a strong fit across Iowa, but will also work in some parts of Illinois and has good southern movement. This one's available with Optimum® AcreMax® above-ground insect protection.

Find it in the seed guide: page 30. 🔍

75C1™

If you've been looking for a fuller season option in the Central Corn Belt, this is your hybrid. Available in both Optimum AcreMax or Qrome® options, 75C1 delivers great yield and agronomics, with a good profile for roots and disease tolerance that will enable it to move north into the central area. It also has great drought tolerance, so it's still an excellent choice for the southern parts of NuTech territory.

Find it in the seed guide: page 38. 🔍

71A2™

We really like how diverse this hybrid is. We expect this to be a leader in the 111-day maturity across Iowa, but with its solid performance and stability, it can also fit in areas of southern Illinois and parts of Missouri. If you've got tough ground, 71A2 works well at low populations. But you can also plant it in high-fertility, high-population areas and watch it really perform. This hybrid is available with Optimum AcreMax above-ground insect protection.

Find it in the seed guide: page 34. 🔍

A short note on short corn

We've been looking at adding more short corn options to our portfolio. At our tours this summer, we'll be showcasing some up-and-coming offerings in PowerCore® Enlist® and Vorceed™ Enlist® trait packages and talking about the advantages of shorter-stature hybrids.



Featured soybean products

34N02E™

We introduced this variety last year and were pleasantly surprised to find it yielding 1-3 bu/A better than our previous top performer in the mid-three maturity (35N03E). Not only do you get more yield with 34N02E, it's a prettier plant—a little taller and with a nice fall appearance. This one also stands out because of its Peking SCN protection. It's not always obvious, but soybean cyst nematodes are stealing some of your yield in this maturity. This protection lets you keep more of what's yours come harvest.

Find it in the seed guide: page 49. 🔍
Check out a full resume for this product on page 83.

42N05E™

Last year, 43N04E variety delivered outstanding yield. But if we had any complaints, it would be that it could get a little lazy late in the season in highly productive soils—podding a little too heavy. So, we're excited we've got 42N05E to offer this year. It does everything that 4.3 hybrid did, just a little better, with higher yield and great standability. This variety is bulletproof wherever you put it. On rolling hills, bottom ground or tabletop fields, it stands up and performs.

Find it in the seed guide: page 51. 🔍

BRAD JOHNSON

LEAD AGRONOMIST, CERTIFIED
CROP ADVISOR



Get ready for even more spectacular soybeans

The NuTech Seed® brand soybean portfolio is now built entirely on our own elite genetics. That means what you find at NuTech is really something special. It also means a step-change in soybean performance. Buckle up, because you're in for a thrill ride. We're looking at a ton of great germplasm over these next few seasons with particular improvements in protection against SDS, white mold and phytophthora that will translate into significant performance boosts. We know you'll find plenty to like in this year's seed guide, but don't get too comfortable with any one variety—we'll probably have something that bests it right around the corner!

Enlist E3[®] Soybeans: Ease, Flexibility and Yield



Farmers have choices when it comes to soybean genetics and weed control. But year after year, more and more growers are choosing Enlist E3[®] soybeans for their fields. Some of the biggest reasons why include how easy they are to use, planting and herbicide application flexibility and outstanding yield potential.

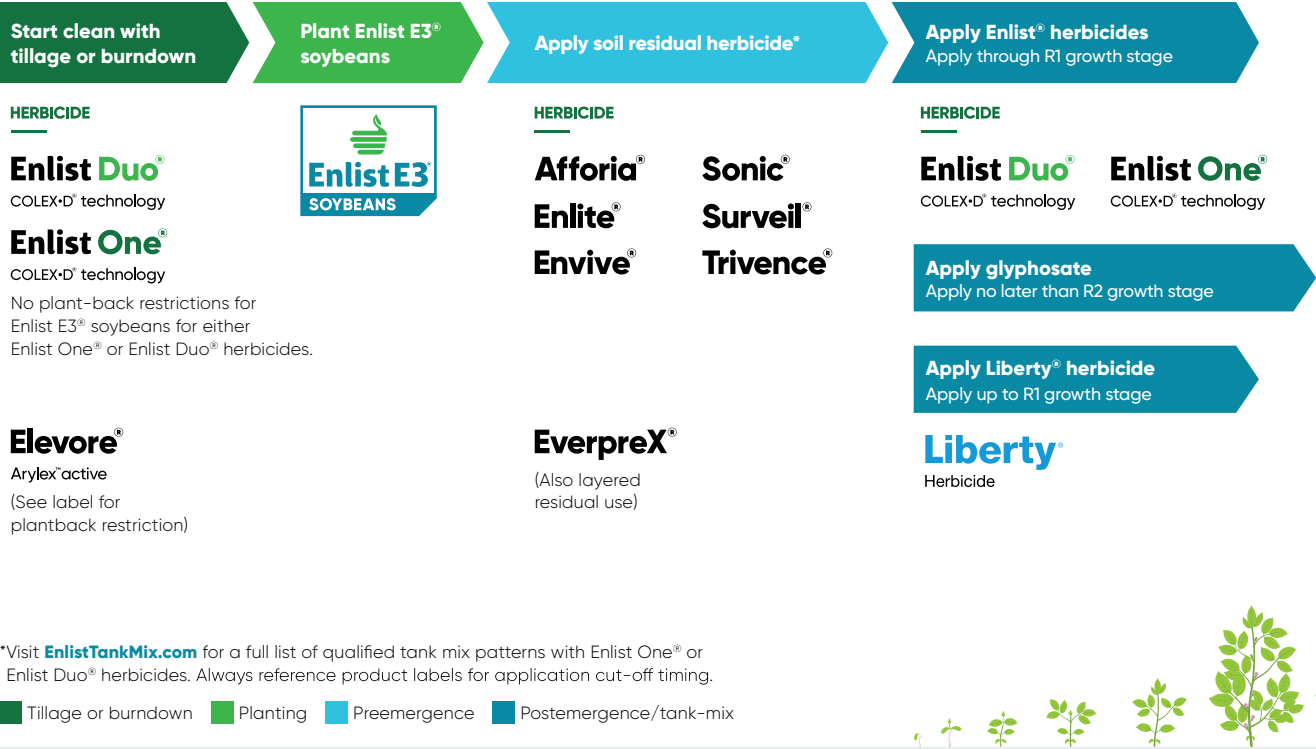
When Corteva Agriscience introduced Enlist E3 soybeans in 2019, we knew it could be a game-changer for soybean growers. And it has been. Every year, the market share for Enlist E3 soybeans has grown. Last year, U.S. market penetration was 45%—a gain of 25 percentage points since 2020. All major soybean seed companies include Enlist E3 soybeans in their lineups, and a few, like us at NuTech, have gone to offering exclusively Enlist E3 soybeans. It’s a reflection of just how strongly we believe in these products and their potential.

One of the main reasons we like Enlist E3 soybeans is that they’re part of the Enlist[®] weed control system, which is so easy to use. Its program approach provides control of resistant and hard-to-control weeds—while limiting resistant weed development—with three herbicide tolerances (2,4-D choline, glyphosate and glufosinate) and

three distinct postemergence sites of action. You get the convenience of Enlist Duo[®] herbicide, a “pour and go” 2,4-D choline plus glyphosate, or the flexibility of Enlist One[®] herbicide, straight-goods 2,4-D choline that can be tank-mixed with residual herbicides and over one thousand approved tank-mix partners, including AMS products and glufosinate. With either herbicide, you can plant near non-Enlist soybeans or other compatible crops and apply Enlist[®] herbicides without fear of damaging your neighbor’s fields. And in areas with waterhemp, Palmer amaranth or kochia pressure, you can tank-mix Enlist One with Liberty[®] herbicide for additional protection.

One advantage Enlist E3 soybeans and the Enlist weed control system have over competitor products is application flexibility. There are fewer restrictions, so you have the ability to spray from

Soybean program approach



burndown through the R1 stage, with no time-of-day restrictions or calendar cutoff dates. Because Enlist E3 soybeans are tolerant to 2,4-D choline, you won’t have plant-back restrictions after applying an Enlist herbicide as a burndown. Plus, both Enlist herbicides feature near-zero volatility and reduced potential for physical drift. And Enlist E3 soybeans are compatible with crops such as corn and soybeans without the Enlist trait, as well as peanuts, alfalfa, rice and wheat. You can apply Enlist herbicides on Enlist E3 soybeans planted right next to these crops without a buffer.

In addition to their ease of use and flexibility, Enlist E3 soybeans offer outstanding yield potential. Each generation of Enlist E3 soybean genetics offers new and better agronomics, and the Enlist trait allows Corteva to quickly convert their most elite genetics into Enlist E3 soybean varieties. Combining those traits with the advanced technology of the Enlist weed control system makes it easy to improve

yields. Any NuTech farmer who has planted Enlist E3 soybeans in past seasons can attest to the strength of these crops. And it’s not just soybeans. The Enlist weed control system also includes corn and cotton, so it really is a whole-farm solution.

We know supply-chain worries have plagued us all the last few years. So, it’s good to know that all components of the Enlist weed control system are based in America, so there’s a reliable domestic supply.

At NuTech, we like the proven track record of growth and the weed control benefits we’re seeing from Enlist E3 soybeans. We like the ability of the Enlist weed control system to help manage tough weeds. And with more soybean variety options each season, with more maturities, agronomic characteristics and defensive traits, we think you’ll have more reasons than ever to grow your success with Enlist E3 soybeans next season.

Meet the Other Herbicides in the Enlist® Weed Control System Program Approach

With their great profiles for weed control, on-target application and tank-mix flexibility, Enlist One® and Enlist Duo® herbicides often get all the attention when we talk about the Enlist® weed control system for soybeans and corn. But it's important to remember that these herbicides only work—and will only continue to be effective on the farm in the future—if they're used as part of a program approach. One of the really exciting things about the Enlist weed control system is how simple it is to execute a program approach and incorporate many sites of action into your weed control strategy.

Let's take a look at some of the other herbicides recommended in an Enlist weed control system program approach. If you have questions about which options may fit best with your management practices, talk to your NuTech agronomist. We have lots of technical resources from our Corteva Agriscience herbicide experts to help guide you. You can also find more detailed information about each of these herbicides at Corteva.com.

When planting Enlist E3® soybeans:



Pre-plant/burndown options:



Elevore®

Can be tank-mixed with many commonly used burndown and residual partners to control many ALS- and glyphosate-resistant species. With a low use rate of 1 oz/A, makes an excellent fit for burndown in reduced-till and no-till production systems.

Soil residual herbicide options:

Afforia®

Provides two sites of action (Groups 2 and 14) to support herbicide resistance management and residual control.

Enlite®

Delivers excellent weed control in a variety of soil types and growing conditions with no soil pH restrictions.

Envive®

Delivers two sites of action for consistent control of tough, resistant weeds, including Palmer amaranth, waterhemp and lambsquarters.

Sonic®

Combines two sites of action for preemergence control of yield-robbing broadleaf weeds.

Surveil®

A convenient, easy-to-use premix with strong residual control against resistant and hard-to-control weeds.

Trivence®

Works against tough weeds even in challenging conditions, like cool, wet spring weather. With three sites of action (Groups 2, 5 and 14), it also helps in resistance management.

EverpreX®

Inhibits growth of shoots and root tissue in emerging weeds. Particularly effective for early-season control of ALS-, PPO- and glyphosate-resistant species.

Post emergence herbicide options:

Through R1 growth stage:

- Enlist Duo
- Enlist One

No later than R2 growth stage:

- Glyphosate

Up to R1 growth stage:

- Liberty® herbicide

When planting Vorceed™ Enlist® corn:



Pre-plant/burndown options:



Basis® Blend

Fall-applied herbicide with long-lasting control for clean spring fields. Advanced formulation is easy to mix and is more readily absorbed by weeds.

*Restricted Use Pesticide

Preemergence soil residual herbicide options:

FulTime® NXT*

Controls grasses and broadleaf weeds in no-till, reduced tillage and heavy residue soils. Works quickly and needs only ¼" of rain to activate.

Keystone® LA*

Provides consistent control of large- and small-seeded broadleaf weeds in areas where atrazine use is restricted or where lower atrazine rates are desired. Also activates with just ¼" of rain and works in conventional, reduced-till and no-till systems.

Keystone® NXT*

Flexible option for many kinds of production systems to control annual grasses and small-seeded broadleaf weeds. Good tank-mix partner with many other pre- and postemergence corn herbicides.

Resicore® XL

Three sites of action for increased crop safety and application flexibility. Controls more than 75 broadleaf and grass weeds.

SureStart® II

Uses three non-glyphosate sites of action (Groups 2, 4 and 15) to control more than 60 broadleaf weeds and grasses. Allows for application timing flexibility.

Surpass® NXT

A good fit for conventional, reduced-till and no-till systems. Controls grasses and small-seeded broadleaf weeds.

Postemergence soil residual herbicide: Tank-mix options with Enlist® herbicides:

FulTime® NXT*

Keystone® NXT*

Kyro™

A novel herbicide with excellent crop safety. Premix of three sites of action (Groups 4, 15 and 27) for contact and residual weed control.

Realm® Q

Long residual activity, including against glyphosate-tolerant species. Includes a built-in safener for application flexibility under diverse weather conditions, across more hybrids and with a range of adjuvants.

Post emergence options:

No larger than V8 growth stage or 30"

Can be applied with drop nozzles from 30-48" high:

- Enlist Duo
- Enlist One
- Can be applied with an approved glyphosate herbicide no larger than V8 or 30"

No larger than V6 growth stage or 24"

- Liberty Herbicide

From V2-V6 growth stage:

- Assure® II

Welcome New NUTECH DEALERS!



Our NuTech family continues to grow as more and more people learn about our excellent product offerings and our commitment to the NuTech Lifestyle. These are just a handful of the dealers who have joined NuTech over the last couple of seasons. We've asked one person from each state to tell us a bit about why they decided to become part of NuTech Seed. We're so glad to have them and all of our other new dealers aboard!



Mark Sturgeon
Frontline Genetics, LLC

Stronghurst, Illinois 

Mark joined NuTech in 2002 covering territory in Illinois and Iowa. He likes the personal relationships with NuTech management and the desire to partner with dealers. He says NuTech is a “no-nonsense company that makes business easy and treats you like family.” Mark’s favorite thing about NuTech is the way individuals inside the company demonstrate they want his business to succeed as much he does. “The NuTech family goes above and beyond to give us all the tools we need to facilitate a customer experience that we have always strived to deliver,” he said.





Chris Cochenour
Innovative Ag LLC

Lamar, Indiana

Chris joined NuTech in 2022 covering southwest Indiana and western Kentucky. He joined NuTech because he had worked with Jim Jackson for years, plus he liked NuTech's product mix. Chris likes getting great products at a fair price, while having lots of creative options to tailor his offering to customers. Chris says, "My favorite thing about working with NuTech is you have the backing of the largest genetic supplier in the world, but the business agility and flexibility of a smaller regional company."



Drew Thomas
Northwest Ag Services Inc.

Kingston and Mound City, Missouri

Drew joined NuTech in September 2022 covering territory in Missouri. He says it's been a great experience because everyone has been good to work with and the transition has been relatively easy. He has liked meeting and working with everyone at NuTech, plus traveling to Puerto Vallarta on the NuTech Getaway in February. Just look at Drew and his wife enjoying the trip! Drew says what he really likes about NuTech is the products and services. He said, "This was the main driving factor in us joining the NuTech team."



Carson Wobeter
Wobeter Seed

Marshalltown, Iowa

Carson joined NuTech in 2022 covering territory in central Iowa. The thing he likes best is being part of a company with proven success in the seed industry. He says it was great working with NuTech even before he became a dealer, thanks to NuTech's farmer resources and great customer service. He decided to join NuTech because they'd been planting NuTech Seed products on his family farm for a few years. He was graduating college, looking to sell seed on the side, and thought, "Why sell a competitor brand when I have the opportunity to sell what works on our farm?"



Scott Hurt
H&H Agri Business LLC

Elkton, Kentucky

Scott joined NuTech in the fall of 2022 serving Todd and Logan counties in Kentucky and the surrounding area. He came aboard after noticing independent research where NuTech products were showing well in trials. Scott says that the experience has been great and that one of the best things about being with NuTech is learning about product placement. "Our growing region is split in two halves here, the south end where very high yielding corn can be grown and the north end where corn production is challenging to say the least," he said. "The 'tough acre' is forgotten by a lot of companies, but we hope to find hybrids from NuTech that will meet our needs."





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

Enlist Duo® and Enlist One® herbicides are not registered for sale or use in all states or counties. Contact your state pesticide regulatory agency to determine if a product is registered for sale or use in your area. Enlist Duo and Enlist One are the only 2,4-D products authorized for use with Enlist crops. Consult Enlist herbicide labels for weed species controlled.

PowerCore® multi-event technology developed by Corteva Agriscience and Monsanto. PowerCore is a registered trademark 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.

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/> or visit <https://seedinnovation.ca/hybrid/> to review the EU approval status for specific hybrids marketed in Canada.

The Vorceed™ Enlist® corn product is not yet available for sale in Canada.

Assure® II herbicide is currently the only FOP herbicide for in-crop use with Enlist® corn. Assure II herbicide (quizalofop) is a Group 1 herbicide for grass control.

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.

FulTime® NXT, Keystone® LA and Keystone® NXT are Restricted Use Pesticides. Elevore®, Enlite®, Envive®, EverpreX®, FulTime NXT, Kyro™, Realm® Q, Resicore® XL, Sonic®, SureStart® II, Surpass® NXT, Surveil® and Trivence® are not registered for sale or use in all states. Keystone NXT is not available for sale, distribution or use in all states. FulTime NXT, Keystone NXT, Kyro, Resicore, Resicore XL, SureStart II and Surpass NXT are not available for sale, distribution or use in Nassau and Suffolk counties in the state of New York. Contact your state pesticide regulatory agency to determine if a product is registered for sale or use in your state. Consult the label before purchase or use for full details.

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.

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.

Q (Qrome®) - Contains a single-bag integrated refuge solution for above- and below-ground insects. The major component contains the Agrisure® RW trait, the B.t. trait, and the Herculex® XTRA genes. In EPA-designated cotton growing counties, a 20% separate corn borer refuge must be planted with Qrome. products.

V – 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.

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

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

Liberty®, LibertyLink® and the Water Droplet Design are registered trademarks of BASF.

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

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.

Always read and follow label directions.

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BRAND 34N02E™

NuTech
Seed®



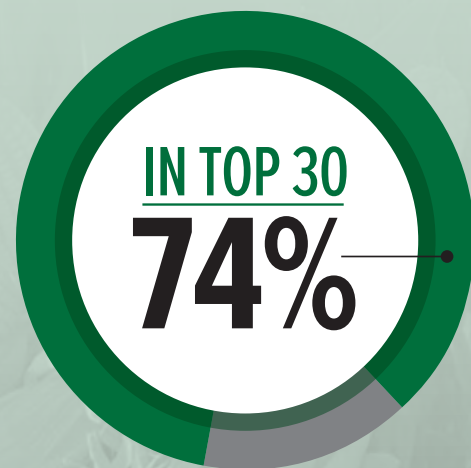
“A high yielding variety with Peking for soybean cyst nematode.”

- Brad Johnson,
Lead Agronomist,
Certified Crop Advisor

- 2022: 1st of 23 F.I.R.S.T. results in Effingham, IL, All-season test at 81.4 bu/A
- 2022: 1st of 33 in the University of IL trials, Monmouth location Full-season at 85.8 bu/A
- 2022: 3rd Iowa South Regional Summary test at 72.2 bu/A
- 2022: 7th of 15 Iowa Crop Improvement Southern Iowa district test at 61.1 bu/A

F.I.R.S.T. DATA

RECORDS:
23
2022
AVERAGE YIELD:
65.4 bu/A



STATE AND MANAGEMENT PLOT DATA:

1ST PLACE
F.I.R.S.T. Washington, IA
98.6 bu/A
1ST PLACE
F.I.R.S.T. Macomb, IL
83.9 bu/A

F.I.R.S.T. DATA

Site	Year	Region	Moisture	Lodging	Stand	Test ID	Yield	Gross Income Rank	Yield Advantage
Washington, IA	2022	IASO	11.5	1	137	full-season test	98.6	1	10.9
Macomb, IL	2022	ILNC	13.2	1	144.3	all-season test	83.9	1	9.8
Effingham, IL	2022	ILSO	13.1	5	91.3	all-season test	81.4	1	14
Tuscola, IL	2022	ILSC	6.4	8	134.3	all-season test	72.3	2	11
Greentop, MO	2022	MONO	8.5	1	120	early-season test	38.5	2	7.7
Greencastle, IN	2022	INCE	10.8	1	65	all-season test	72.6	5	6.7
Cambria, IA	2022	IASO	8.1	1	137	full-season test	58.5	6	5.3
Sweet Springs, MO	2022	MOCE	9.7	1	125.7	early-season test	45.9	7	1.7
Cairo, MO	2022	MONO	8.5	1	133.7	early-season test	62.7	8	0.9
Oakland, IA	2022	IASO	8.5	1	137	full-season test	72.9	12	3

The foregoing is provided for informational use only. Please contact your NuTech Seed 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.

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SOAK IN THE SUMMER SUN

There's no such thing as a lazy summer day on the farm. But the hard work is worth it when you see the corn reaching for the sky or beans blanketing your fields. So take a minute to enjoy the sunshine, take a deep breath and look at what you've accomplished.

And thanks from all of us at NuTech for letting us be a part of your success this season.



Success. Enjoyment. Family.