

TheLife

Summer 2024

by NuTech Seed

The PRODUCT Issue

2025 SEED GUIDE INSIDE

Exciting new products for next year

TECHNOLOGY & AGRONOMY

Summer watchlist and how it may impact purchasing decisions

NUTECH GETAWAY RECAP

Monkeying around in Costa Rica

A MILLENNIAL FARMER

How Clint Luellen is reshaping the family farm

NuTech
Seed®

Yield, Protection and Flexibility.



- ✔ 3 modes of action against above-ground lepidopteran pests, including fall armyworm and European and southwestern corn borers, plus black cutworm control.
- ✔ 4 herbicide tolerances: 2,4-D choline in Enlist® herbicides, glyphosate, glufosinate and FOP herbicides.*
- ✔ Advanced agronomics, including root and stalk strength, disease tolerance and standability.

PowerCore® Enlist® Refuge Advanced® corn. Available in a full range of corn hybrids, from 96- to 114-day maturities.

See the *Tech & Ag* section to learn more about this game-changing new corn technology and check out the *Seed Guide* to see the products available for the 2025 season.

*Not all FOP herbicides are labeled for use in Bt corn products with the Enlist® trait. Before use, review the product label to ensure the product is labeled for use on Bt corn with the Enlist trait.



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TO OUR READERS



We are blessed to have another planting season in our rearview mirrors. The NuTech Seed team is proud to have been able to get you the products you needed in a timely manner. And while we're proud to have planting behind us, we're keenly aware there may be hurdles ahead this season.

It's hard to believe I'm discussing product launches for the 34th time in my career! I'm certain many of our customers have had the same feeling.

The planning cycles seem to get shorter and closer together, and whether you're one of our many new dealers or a seed veteran, your success begins with the right products. I'm honored to help you create the foundation for your 2025 planting.

NuTech is fortunate to be a part of a global company committed to farmers and their success. Hundreds of people work diligently to create the thousands of test plots we get to walk each year. Our visual observations of these plots provide insights that go beyond the data. We'll transition to our data collection phase after harvest, which is daunting, to say the least, with millions of data points being captured to help us select a dozen or so new products each year. This should give you confidence that NuTech Seed® brand products have been rigorously tested and narrowed down to only the best products for your farm.

When you review our 2025 offerings, you'll see our robust portfolio includes the newest Vorceed® Enlist® corn and PowerCore® Enlist® corn traits, as well as the most elite products for our marketing area. Our performance in third-party trials over the past few years has been impressive, but we're not content to just rest on our laurels. We always strive to improve our customers' performance potential. Better product performance is our responsibility, and it's one we take very seriously.

With such great product performance, it's hard to be humble. But I keep in mind the saying "It's not what you've done, but what you've got to do." So, we celebrate our successes, while keeping in mind that there's always work to do to provide the highest potential for our customers.

We're starting the 2025 selling season with a new Sales Manager: Greg Boeke. He has decades of experience and is a great asset to our leadership team. A team with the experience and tools to help you drive your sales and performance.

Looking forward to a great 2025,

Scott Davis
NuTech General Manager



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HAPPY ANNIVERSARY TO US!

On this 5th anniversary of *The Life Magazine by NuTech Seed*, we take a look back

REVISITING OUR COSTA RICA GETAWAY

Attendees reflect on our week in paradise



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THE MILLENNIAL FARMER

Clint Luellen works to improve his family's farm



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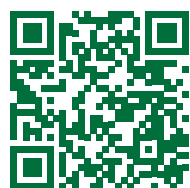
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Check out the products you'll want in your fields next year

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Meet this year's future ag stars

What's happening at NuTech this season?

We always want to make sure you're well informed about what's going on with our people, products and fields throughout NuTech territory. Here's a little info on ways that we're staying connected with customers. Plus, a shout out to our new Sales Manager, Greg Boeke.

Our Blog is Back!



We've brought back the NuTech Blog to take some deeper dives into issues that are important

to our customers and to share the things we love about the NuTech Lifestyle. Farm management tips, product information, lifestyle suggestions and more, you'll find it in our blog at <https://nutechseed.com/our-story/blog/>.

Have ideas you'd like to see covered in the blog?

Contact Katie Allen at katie.allen@nutechseed.com.



Grab-and-Go Field Meals for Busy Spring Planting

by NuTech Team | Apr 26, 2024 | 0 Comments

Spring planting on Midwestern farms means long days, often stretching from the early dawn to the stroke of midnight. It's a busy time when anyone in charge of meals might wish for a food truck to magically appear in the fields, delivering fresh subs to the hardworking...



Don't Rush It – Wait for the Right Soil Conditions

by Chris Adams | Apr 23, 2024 | 0 Comments

As of late-April, here in Benton County, Iowa, we are in a rainy pattern that may push planting closer to May 1. I understand the eagerness to get in the fields, but rest assured, planting by mid-May is still within an optimal window for good stands and yields....



Jim Reifenrath



Scott Davis



Mike Schaefer



Greg Boeke

LEADERSHIP CHANGES AT NUTECH

When General Manager Jim Reifenrath retired in April, he left some pretty big shoes to fill. Good thing we had Warehouse and Supply Lead Scott Davis ready and willing to assume the mantle! We can't wait to watch NuTech continue to grow under his leadership.

Mike Schaefer also retired in the spring to embrace a little more of the enjoyment part of the NuTech Lifestyle, and we've been lucky to have Greg Boeke step into the Sales Manager role. Greg brings the experience of more than 11 years as a NuTech Regional Sales Manager to his new position. He'll be an excellent leader for our sales team.

Congrats, Scott and Greg!






Stay up to date with Tip Tuesday

Throughout each season, our Tip Tuesday posts on Facebook and Instagram offer timely agronomy guidance. Our expert agronomists will share their advice on planting, managing weeds and pests, harvest timing and so much more. Be sure to follow NuTech on social media so you don't miss a tip.



Follow NuTech on these social media channels for timely agronomy information and tips, product info and photos of NuTech folks living the Lifestyle. And be sure to share your photos as well!

-  facebook.com/NuTechSeed
-  x.com/NuTechSeed
-  instagram.com/NuTechSeed

Happy 5th Anniversary to TheLife by NuTech Seed

Just over five years ago, we had an idea: Create a magazine that celebrates the things we love about farm life. And so, *The Life by NuTech Seed* was created. In every issue, we share information about our business, but, just as importantly, we feature the stories and photos of those who make up NuTech, sharing the success, enjoyment and family that shape the NuTech Lifestyle.

Farmers are special people, and we love celebrating you and sharing your stories. From profiles to Getaway recaps to our annual intern roundup, the love that you have for farming and your families shines through. Thank you for being part of *The Life*, and for sharing your stories, recipes, harvest results, family traditions and photos with all of us. Here's to the next five years!

Our first issue!

TheLife
by NuTech Seed
Summer 2019

The Product Issue

Q&A with agronomist Ryan Borton
Answers to your Enlist E3 soybean questions

Fresh fare
Recipes ripe for a summer garden

One Beautiful Week
Living the life at our St. Kitts getaway

- Complete 2020 seed guide
- Top hybrid and variety picks for Central Corn Belt

NuTech Seed

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SUMMER 2020

THE PRODUCT ISSUE

- COMPLETE 2021 SEED GUIDE INSIDE
- EXPANDED LINEUP OF ENLIST E3[®] SOYBEANS
- NEW HIGH-PERFORMANCE CORN HYBRIDS

LIFE IS DELICIOUS
Pack a perfect picnic

SUMMER WATCHLIST
Keep an eye out for these threats to your yield

4-H: A SUMMER TRADITION
Meet some dedicated kids and the animals they love to show

PLANTING THE OLD-FASHIONED WAY
One NuTech grower keeps the tried-and-true going on his farm

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TheLife
by NuTech Seed

THE HARVEST ISSUE

2021 Calendar

2020 PERFORMANCE ANALYSIS
How things like the data and weather played a role

CELEBRATING THE SEASON
NUTECH STYLE: How you grow, follow, harvest and get the most out of your harvest

HAVE YOU SEEN THE CORN TODAY?
National Corn Growers Assn. shares its perspective

ENLIST E3[®] SOYBEANS
2020 performance and prep for 2021

THE LIFE IN PICTURES
Celebrating new journeys

PULLING TOGETHER FOR A GETAWAY!
NuTech partners celebrate travel and outdoor fun

DEARING UP FOR A GETAWAY!
Plan an outdoor fun for your family

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THE LIFE IN PICTURES
The whole family celebrates on the farm

THE NEXT GENERATION OF AG
Meet the future of the industry

GIVING BACK
Community service is at the heart of NuTech's mission

PIPELINE PREVIEW
New products and what's next for your field

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New choices, great performance

INPUTS THAT ENHANCE YIELD
Our agronomists weigh in

UNIQUE RETREATS
Places to unwind with the fam

GIVING BACK
Livestock auction benefits a local family

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Fall 2020

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BEST COLUMNS
Uptown Girl
Blogger and farm wife/ mom Lisa Lambert redefines success

WHAT'S HAPPENING IN THE COMBINE?
Combine Confessions
Keep your eyes on those yield monitors

HARVEST FARM
Fantastic FALL RECIPES!
How to make the best harvest recipes

► Early harvest results
► Notes from the field
► Harvest photos

2020 GETAWAY PREVIEW
GET READY FOR PANAMA!

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Winter 2020

The Holiday Issue

Christmas Blessings
One season's mission to spread Christmas cheer

Making the most of the off-season
Enjoy a break from the field

The gift list
Ideas for the farmer who has everything

Holiday recipes
Easy to make, perfect to share

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More HARVEST RESULTS
TAKE A DEEPER DIVE INTO THE DATA

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by NuTech Seed
Spring 2020

THE PLANTING ISSUE

SPRING AGRONOMY INSIGHTS
Get your season off to the right start with expert tips

REVISITING PANAMA
We hit the high points of our unique getaway

ENLIST E3[®] SOYBEANS REVIEW
Observations from the first commercial season

HAVE YOU SEEN THE CORN TODAY?
One family shares their special perspective

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Winter 2021

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"HAVE YOU SEEN THE CORN TODAY?"
Congrats to our photo contest winners

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Cooking and eating: you have to try

BUILDING A BETTER PRODUCT PORTFOLIO
Keeping our lineup strong

2021 HARVEST RESULTS
Check out our wins across NuTech Country

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Panel: Get away, get away, and we're getting ready for the next one

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New products and good advice for your season

2021 SEED GUIDE INSIDE
New products and good advice to start planning for next year

WOMEN IN AGRICULTURE
Reflections on changing roles and breaking the mold

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Fall 2021

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2022 HARVEST RESULTS
Check out the yields across NuTech country

WHAT'S THE BIG DEAL ABOUT BIOLOGICALS?
Have you heard about the new crop protection products?

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LIFE IS DELICIOUS
Recipes for a cozy night in

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New products and good advice for your season

NEW FACES AT NUTECH
Meet a new team member, and how they're making a difference

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Winter 2023

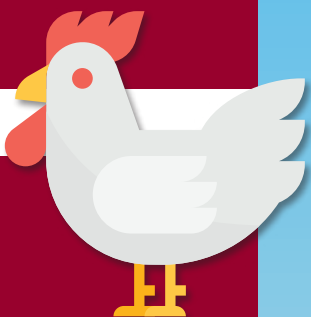
THE HARVEST ISSUE

2023 HARVEST RESULTS
• Impressive Yields From Across NuTech Country
• F.I.R.S.T. Trials
• Agronomist Takeaways

NUTECH SUCCESS STORY
Catch Up With Former Intern Jado Miles

TECHNOLOGY & AGRONOMY
What to Watch For in 2024

NuTech Seed



Summertime on the Farm

Summer is a fun time to be outside helping around the farm. See if you can spot the five differences between these two pictures of a kid like you helping grandpa with the animals.

Spot the Difference



CAN'T MISS SUMMER FESTIVALS

Summer is festival season, and we're spoiled for choices across NuTech country! Sadly, we can't list them all, so we narrowed in on a few that looked especially enjoyable. Did we miss one of your favorites? Reach out to us on social media or email info@NuTechSeed.com and we'll include more ideas in future issues!

FOOD

Walker Pickle Days

Walker, Iowa | July 26-27

With a pickle parade, pickle-eating contest and lots of other fun, it's no wonder this event advertises itself as "Kind of a big dill!"

Find info on Facebook:
[Walker Pickle Days Iowa](https://www.facebook.com/WalkerPickleDaysIowa)

Lisbon Sauerkraut Days

Lisbon, Iowa | August 15-17

Get your brats and free Frank's kraut while enjoying the parade and carnival rides. Be sure to stay until the end for a fun street dance.

[sauerkrautdays.com](https://www.sauerkrautdays.com)

World Food & Music Festival

Des Moines, Iowa | August 23-25

Voted the No. 6 best city food festival across the nation — explore diverse cuisine from around the globe!

dspmpartnership.com/worldfoodandmusicfestival



Sweet Corn Circus

Normal, Illinois | August 24-25

Did you know Illinois State University is home to the oldest collegiate circus in the U.S.? (Only one other still exists.) This festival combines the area's circus and farming history into a truly unique event.

uptownnormal.com/1644/Sweet-Corn-Circus



Praise the Lard Barbecue Cook-Off

Murphysboro, Illinois | September 19-21

This officially sanctioned BBQ event is a qualifier for the World Food Championships. In addition to pork, competitors cook fish, wings and chicken, too.

<https://17bbq.com/cook-off/>

FARMING

Waterman Lions Summerfest

Waterman, Illinois | July 20

This all-day event starts with a country breakfast and ends with fireworks. In between, there's a huge display of antique trucks and tractors and tons of family-friendly activities.

[watermanlionssummerfest.com](https://www.watermanlionssummerfest.com)



Farm Heritage Days

Greenville, Illinois | July 26-28

Check out the antique tractor pulls and field demonstrations and enjoy live music and food.

americanfarmheritagemuseum.com/farm-heritage-days.html

Norborne Soybean Festival

Norborne, Missouri | August 1-3

Norborne calls itself the Soybean Capital of the World, claiming more square feet of soybeans planted than anywhere else in the world. The festival was recently a top-three finalist in a contest for best hometown festival in the U.S. Must be the soy donuts!

facebook.com/NorborneSoybeanFestival



J40 Farm Crawl

Keosauqua, Iowa | August 10

Wander this state road to visit participating farms while enjoying food, wagon rides, wine tasting and hand crafts like furniture making and glass blowing.

facebook.com/J40FarmCrawl

Farm and Barn Fest

Mokena, Illinois | August 12

With a petting zoo, flea market and free country concert, there's something for everyone in the family.

mokena.com/event/farm-barn-fest

FUN



2024 National Balloon Classic

Indianola, Iowa | July 26-August 3

Enjoy the magic of mass flights, Kids' Land activities, live music nightly and fireworks.

nationalballoonclassic.com

Fiesta en el Rio

Peoria, Illinois | July 27

A little slice of Latin America meets the Midwest on the Peoria Riverfront for an evening of food, dancing and entertainment.

Hinterland Music Festival

St. Charles, Iowa | August 2-4

Enjoy concerts in a naturally formed amphitheater in the Iowa countryside.

hinterlandiowa.com



Gladiolus Fest

Momence, Illinois | August 7-11

It's the 86th year for this celebration of the flower that was once grown on about 80 farms in the area. Between the multiple parades, music and food, don't miss the beer and Bloody Mary garden!

Hoover's Hometown Days

West Branch, Iowa | August 9-10

Celebrate the sesquicentennial (that's 150 years) of Herbert Hoover's birth in his hometown with a variety of events, music and a Quaker-inspired picnic.

hooverdays.org

READY FOR A ROAD TRIP!

Summer is a great time to load up the family for a one-tank getaway to see some nearby sights or attend a festival – refer back to page 11 for some great options! Try one of these make-ahead recipes that are ready to travel with you, or load up on grab-and-go options from our list of road trip-worthy snacks.



OVERNIGHT OATS

It can sometimes be tough to get a healthy breakfast on the road, so take along these overnight oats and you'll be ready to rise and shine no matter where your adventure takes you. Make them in a mason jar and add the almond milk (which stays fresh longer than dairy milk) either before you leave home or the night before. Keep the jars in a cooler until ready to eat.

For each jar:

- ½ cup old-fashioned rolled oats
- 1 Tbsp chia seeds
- 2 Tbsp slivered almonds
- 2 Tbsp blueberries
- 2 Tbsp dried shredded coconut
- 1 cup unsweetened regular almond milk

Layer dried ingredients in mason jars. Add almond milk until the ingredients are completely covered. Secure the lid and shake to combine ingredients.

Leave jar in refrigerator or cooler overnight – at least 2 hours – to give chia seeds and oatmeal time to absorb the milk. Eat your oats straight from the jar!

COLD-BREW COFFEE

Good coffee can sometimes be hard to come by on the open road. Make your own cold brew at home to take with you for the pick-me-up you need. Cold-brewing coffee removes some of the bitterness and makes it sweeter than plain hot coffee.

- 1 cup coarsely-ground coffee beans
- 4 cups cold water

Add ground coffee and cold water to a large glass bowl. Stir to combine. Cover and refrigerate for 12 to 24 hours. If you have a French press, you can use it in place of this bowl and strainer method.

Pour coffee cold brew through a strainer covered with cheesecloth into a second bowl. Dilute the coffee according to your taste, probably around 2 parts cold brew to 1 part water. Keep it cold in a thermos or insulated cup, or in a glass bottle in your cooler.



NO-BAKE ENERGY BALLS

These make a great snack to tide everyone over between meals, since they're packed with carbs, protein and healthy fats. They're an easy-to-make alternative to packaged energy bars. Consider dried fruit instead of chocolate chips if you don't want to keep these in the cooler. This makes about a dozen balls, but is easy to double.

- 1 cup rolled oats
- ⅔ cup creamy peanut butter
- 2 Tbsp maple syrup
- ¼ cup chia seeds or flax seeds
- ¼ tsp cinnamon
- ½ cup mix-ins: chocolate chips, raisins, cranberries or other chopped dried fruit, etc.

Optional: shredded coconut, carob or protein powder, finely chopped nuts, etc. if you want to roll your balls in a coating so they don't stick together.

Add all ingredients to a large bowl, mix, then chill for at least one hour. Roll into 1-inch balls and spread on waxed paper or parchment to set.

Grab-and-go GOODIES FOR THE RIDE

You can skip the roadside fast food when you take along these foods that hold up well on a journey.



Rolled sandwiches won't get squashed in the cooler. Mix and match fillings to suit your family's tastes. Just be sure to keep anything containing meat, cheese, hummus, mayonnaise or other spreads – pretty much anything other than good old PB&J – cold in the cooler with an ice pack.



Cheese sticks or Babybel® cheese are a great option if you keep them in a cooler with an ice pack.



Individual serving-size containers of hummus, guacamole, peanut butter, etc. pair well with veggies or pretzels for a satisfying, crunchy snack.



Whole fruits like bananas, apples and clementines come in their own wrapper and don't have to be refrigerated for a short trip.



Beef or turkey jerky can give you a protein hit while traveling.



Granola bars or energy bars travel well, though we prefer our energy balls recipe on the opposite page!



Salty snacks like Chex Mix™ or Goldfish® travel better than chips.



Dried fruit and nuts or a trail mix are good choices for something sweet on the road. Just skip the chocolate or yogurt-covered pieces that could melt in a warm car. If you want something more sugary to snack on, opt for gummies or wrapped candies that won't melt in the car.

Keep food safe when you're on the road

A little preparation goes a long way toward keeping food fresh and safe on your trip. Be sure to follow these tips:

- Keep hot foods hot and cold foods cold. Use a thermos for hot drinks, and keep everything that needs to be cold in a cooler with ice blocks or frozen bottles of water. If possible, keep the cooler in the air-conditioned interior of your car, not in the trunk.
- A fully packed cooler keeps food colder longer than a partially filled one. If you can, pack cold food in one cooler and drinks in another, since you'll likely open the drinks cooler more frequently.
- Don't let food sit out unrefrigerated for more than two hours, and no more than one hour if the temperature is 90°F or above.
- Wash your hands or use hand sanitizer before handling food.

Don't forget the drinks!

It can be easy to get dehydrated while you're on the road, no matter how you're traveling. Make sure to keep water bottles full and take along some extra drinks. It's best to steer clear of anything too sweet – that will only make you more thirsty – and instead choose juice, seltzer or something with electrolytes. And don't risk anything with dairy – it's too easy for it to spoil out on the road.





Sun, Fun... and Monkeys!

It was another fabulous week in paradise on the NuTech Getaway to Costa Rica

The 2024 NuTech Getaway to Dreams Las Mareas Costa Rica was everything we wanted our annual trip to be — fun, relaxing and entertaining. With great food and drinks, beautiful rooms and pools, business-related and leisure activities, the trip had something for everyone. But what our attendees loved most was the chance to enjoy the company of other NuTech farmers and dealers. That ... and the monkeys!

First-time Getaway attendees Jared and Mary Kelly say they had “a blast” on the trip. They were nervous that they’d be among the only younger travelers, but enjoyed the blend of people on the trip. “Everybody was very welcoming and we could tell that NuTech fosters a sense of community among their customers and employees,” Jared said. The Kellys liked that you didn’t have to follow a set schedule of activities, because they came primarily to relax. “We just wanted to sit by the water and have a drink,” Jared added.

NuTech Marketing Communications Specialist Katie Allen thinks the annual trip is one of the best ways to truly enjoy the NuTech Lifestyle. “What farmer wouldn’t like to sit by a pool, drink a beer and talk about farming with 500 other farmers?” she asked. Steve Martens and his wife Angie, from Iowa, agreed that getting away and enjoying yourself is important. “You just can’t work all your life. You need to have time off. Some farmers think that’s taboo, but I think it’s very important,” Steve said.

Jay Wilburn and his wife Tracy took the enjoyment to another level with lots of activities. They did some off-resort excursions, including a volcano mud bath and hot springs, zip lining and Costa Rica’s largest water slide. “That was a lot of fun,” Tracy said. “We enjoy that part of the trips, getting out and seeing some of the countryside.”

Other attendees liked getting down to business, with meetings like Corn & Coffee and the Ag Symposium. Jay said the Symposium is always a good opportunity for relationship building, even though he usually knows most of the product



Jay and Tracy Wilburn

information before he goes. But Tracy says that’s just because he’s a NuTech territory rep! “I know that our customers really enjoy going because it’s a reminder for them of things to look for in their fields. They come back more informed and have better conversations with their salesperson about what they think they might want,” she said.

Trip attendees couldn't stop talking about the monkeys that made themselves at home around the resort. “That was really fun!” Angie exclaimed. “They would come right on your balcony. They were our entertainment! Our friends said, ‘You’d better lock your sliding door.’ They hadn’t locked theirs and a monkey opened the door and got in and ate all their food!” Jay said it was common to see a monkey or two on the balcony in the morning.

But ask any Getaway attendee and they’ll tell you their favorite part of this and other NuTech trips is the relationships they develop with the other attendees. “The best part is always the people,” Tracy said. “We get to meet up with people that we’ve seen year after year.” Jay agreed. “It’s the relationships that you build on these trips. It’s good to see everybody and enjoy a good cold drink and have a good time.” The Wilburns spend

time every trip with a group from their area. “Those are my favorite times, when we get to have the big group sit around and eat together and chat and just kind of hang out,” Tracy said.

Steve and Angie have been attending Getaways for nearly 20 years and agreed that the best part about the trips is getting to develop relationships with farmers from across the Corn Belt. “It’s almost like a family reunion every year,” Steve said. “You’re with people who have the same victories and failures as you do in farming. And it’s just fun learning different ideas and aspects of agriculture away from home. You really get to bond with people — that’s priceless.”



Steve and Angie Martens



Jared and Mary Kelly





Another thing every Getaway attendee we spoke with agrees on is that they can't wait for next year's trip: a southern Caribbean cruise aboard the Norwegian Viva. Jay says, "We'd sign up right now if we could!" and so would the people they brought with them this year. "We brought two couples with us. As soon as we left, they said sign them up for the next one. We hadn't even gotten back to the airport and they wanted to be signed up for next year!"

Steve and Angie are from near Des Moines, but they've developed such a strong relationship with a farmer from near St. Louis that they're going to go help him harvest his wheat crop later this summer. "That's something that we don't do in Iowa, and that I've always wanted to do. He said 'Well, why don't you come down and help me?' And I said, "Okay, we'll do that!" Steve said. "So we'll go visit him and his wife and do a little wheat farming. You don't get to do things like that if you just stay home."



The Wilburns think everyone who's part of NuTech should go on the Getaways. Tracy said, "I want my customers to feel like they're family. I think these trips show that. They already like the products, they already like their salesperson, so these trips are the cherry on the top. We've had some customers who are nervous to travel. But if you are somebody that hasn't been on one, this is the way to go. Everything is planned for you. So it's the perfect time to get out and travel."



Look for more information about how to attend the 2025 Getaway cruise soon.

Seed Guide 2025



NuTech
Seed®

VORCEED[®]

Enlist[®]

The Numbers Speak for Themselves

4 herbicide tolerances: 2,4-D choline in Enlist[®] herbicides, glyphosate, glufosinate, FOP herbicides.*

6 insect protection modes of action (3 against CRW).

99% reduction in emergence of western and northern corn rootworms.¹

All that, plus new genetics, add up to a **7.3 bu/A²** yield advantage vs. our current Qrome[®] corn lineup (67% win rate)

Vorceed[®] Enlist[®] corn. Available in a full range of corn hybrids, from 96- to 114-day maturities.



LIBERTY LINK[™]



*Not all FOP herbicides are labeled for use in Bt corn products with the Enlist[®] trait. Before use, review the product label to ensure the product is labeled for use on Bt corn with the Enlist trait.

¹ 2020 Corteva Agriscience Tent Emergence trials. 6 locations.

² The foregoing is provided for informational use only. Please contact your NuTech Seed representative 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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See page 70 to learn more.

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:

57A4, 57B5, 59C1, 60A2, 60A4, 601, 61A5, 63A7, 64B5, 65B8, 65D3, 66C2, 66D1, 68A7, 68A9, 68B3, 68C1, 69A6, 69B5, 69B9, 69C7, 70A8, 70B4, 70F6, 71A2, 72A5, 72A8, 72B7, 72D4, 72F1, 73A4, 73A6, 74A5, 74A9, 74C4, 75C1, 77A5



Corn-on-corn fields

Continuous corn environments

Field focus: Emphasis on stalk and root strength

Primary strength seed brands:

57A4, 60A2, 60A4, 601, 61A5, 63A7, 64B5, 65B8, 65D3, 66C2, 68B3, 68C1, 69A6, 69B5, 69B9, 70F6, 71A2, 71A7, 72A5, 72A8, 72B7, 72C1, 72D4, 72F1, 73A4, 73A6, 74A5, 74A9, 75C1, 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:

57A4, 57B5, 59C1, 60A2, 60A4, 601, 63A7, 64B5, 65B8, 65D3, 66C2, 68B3, 69B5, 70F6, 71A2, 71A7, 72A5, 72A8, 72B7, 72C1, 72F1, 74A5, 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:

57A4, 59C1, 601, 65B8, 65D3, 68A7, 68A9, 68B3, 68C1, 69A6, 69B5, 69B9, 69C7, 70A8, 70B4, 71A2, 71A7, 72A8, 72C1, 72D4, 72F1, 73A4, 74A5, 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 herbicides* — 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.



PCE: 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: 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, glufosinate and FOP herbicides such as quizalofop.



PWUE: PowerCore® trait technology brings long-lasting insect control against key above-ground susceptible insects. PowerCore® Ultra Enlist® corn brings an additional mode of action for geographies that need additional protection against fall armyworm and western bean cutworm.



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.

* Not all FOP herbicides are labeled for use in *Bt* corn products with the Enlist® trait. Before use, review the product label to ensure the product is labeled for use on *Bt* corn with the Enlist trait.

** 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™ BRAND). 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.

5F-601AM™ BRAND

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)
- 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.

72 A5 Q™ BRAND

Relative Maturity:

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

Random Code:

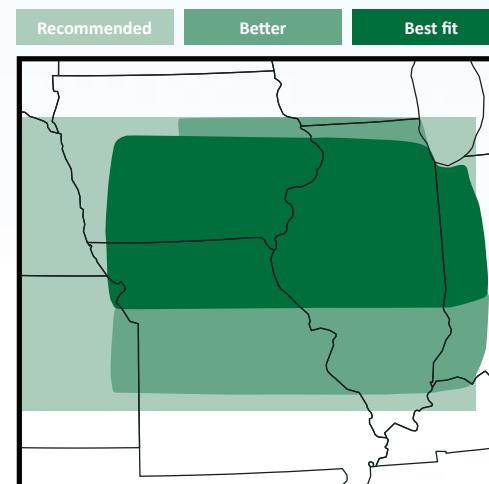
One random letter followed by one random number.

Trait Code:

- V** Vorceed® Enlist®
- Q** Qrome®
- RASS/SSR** SmartStax® Refuge Advanced®
- SXE/SE** SmartStax® Enlist®
- SX/SS** SmartStax®
- AMXT** Optimum® AcreMax® XTreme
- PCE** PowerCore® Enlist® Refuge Advanced®
- PWE** PowerCore® Enlist®
- PWUE** PowerCore® Ultra Enlist®
- AML** Optimum® AcreMax® Leptra®
- AM** Optimum® AcreMax®
- RR** Roundup Ready® Corn 2
- CV** Conventional
- CYFR** CYFR
- 5FN/YHR** Optimum® Intrasect®
- VYHR** 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.

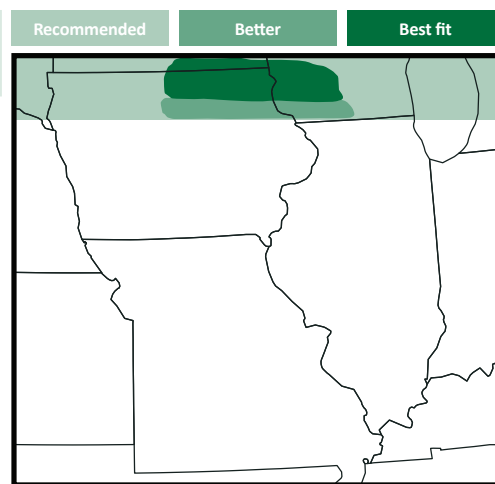
57A4™ 97 RM

57A4CV™

- 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

Semi-Flex Ear type | **Medium-High** Population range

Emergence: 5 | Drought Tolerance: 6 | Stalk Lodging: 5 | Root Lodging: 8 | Staygreen: 6 | Test Weight: 6 | Plant Height: 5



60A2™ 100 RM

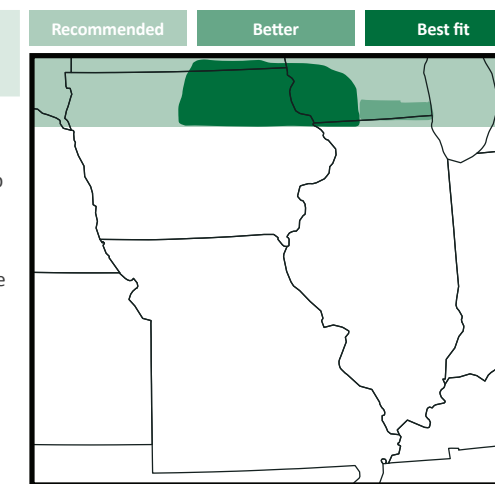
60A2Q™

QROME | LIBERTY LINK | AcreMax

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

Semi-Flex Ear type | **Medium-High** Population range

Emergence: 5 | Drought Tolerance: 7 | Stalk Lodging: 5 | Root Lodging: 6 | Staygreen: 5 | Test Weight: 5 | Plant Height: 6



57B5™ 97 RM

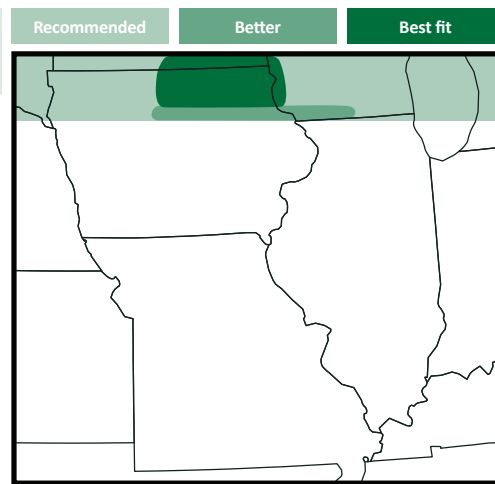
57B5PCE™ NEW! POWERCORE | Enlist | LIBERTY LINK | AcreMax

57B5V™ NEW! VORCEED | Enlist | LIBERTY LINK | AcreMax

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

Semi-Flex Ear type | **Medium-High** Population range

Emergence: 6 | Drought Tolerance: 7 | Stalk Lodging: 6 | Root Lodging: 6 | Staygreen: 6 | Test Weight: 5 | Plant Height: 4



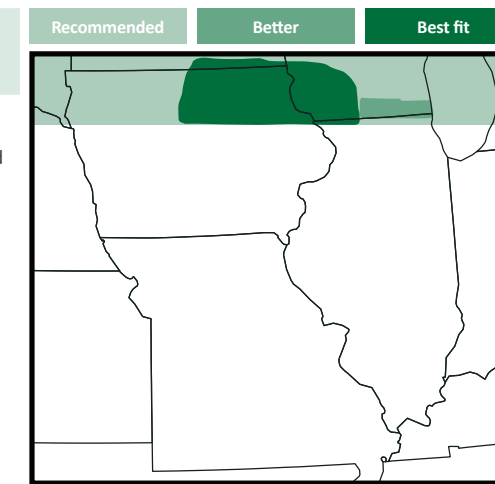
60A4™ 100 RM

60A4AM™ AQUAmax | AcreMax | LIBERTY LINK | AcreMax

- 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-statured plant with moderate earline
- Fungicide candidate where GLS is a concern

Semi-Flex Ear type | **Medium-High** Population range

Emergence: 5 | Drought Tolerance: 9 | Stalk Lodging: 8 | Root Lodging: 5 | Staygreen: 8 | Test Weight: 4 | Plant Height: 5



59C1™ 99 RM

59C1AM™ AcreMax | LIBERTY LINK | AcreMax

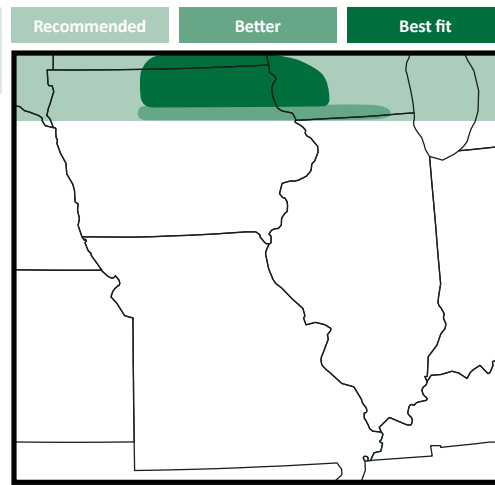
59C1PCE™ NEW! POWERCORE | Enlist | LIBERTY LINK | AcreMax

59C1V™ NEW! VORCEED | Enlist | LIBERTY LINK | AcreMax

- Elite hybrid with good southern movement
- Strong stalks and brittle snap score
- 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 and above-average NCLB scores

Semi-Flex Ear type | **Medium-Medium High** Population range

Emergence: 6 | Drought Tolerance: 7 | Stalk Lodging: 7 | Root Lodging: 6 | Staygreen: 6 | Test Weight: 5 | Plant Height: 5



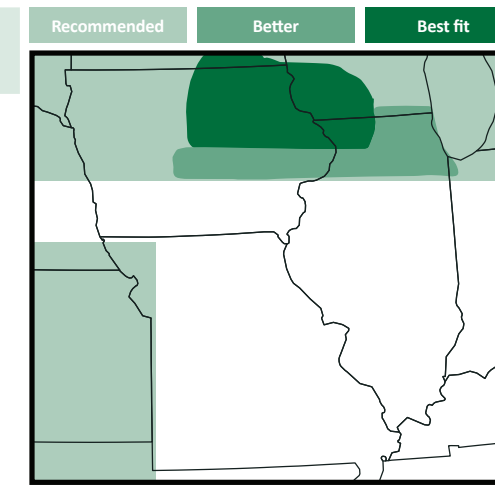
601™ 101 RM

0A601™ AQUAmax CV

- 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 Ear type | **Medium-Medium High** Population range

Emergence: 5 | Drought Tolerance: 9 | Stalk Lodging: 5 | Root Lodging: 7 | Staygreen: 4 | Test Weight: 6 | Plant Height: 5



CORN BRANDS

61A5™ 101 RM

NEW!

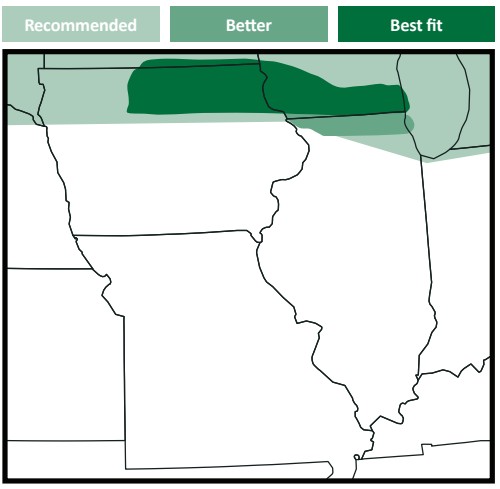
61A5PCE™ **POWERCORE** **Enlist** **LIBERTY LINK** **Optimum AQUAmax**

61A5V™ **VORCEED** **Enlist** **LIBERTY LINK** **Optimum AQUAmax**

- Elite hybrid with good southern movement
- Very good brittle snap score and above-average drought tolerance
- Medium-statured plant with medium ear placement
- Good Goss's wilt and NCLB tolerance
- Strong roots with very respectable stalks
- Utilize a fungicide where GLS and tar spot are a concern

Semi-flex Ear type | **Medium-High** Population range

Emergence: 6 | Drought Tolerance: 6 | Stalk Lodging: 6 | Root Lodging: 7 | Staygreen: 5 | Test Weight: 5 | Plant Height: 5



65B8™ 105 RM

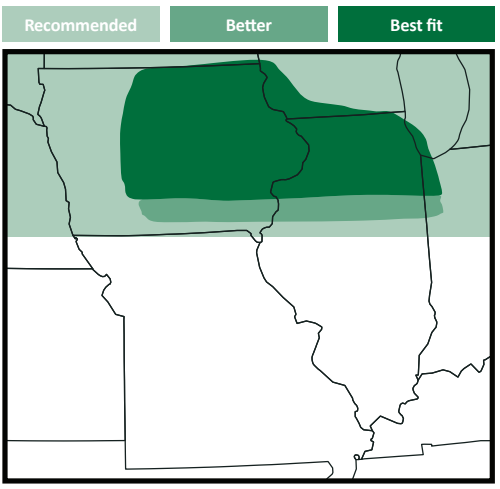
NEW!

65B8V™ **VORCEED** **Enlist** **LIBERTY LINK** **Optimum AQUAmax**

- Taller, high yielding potential hybrid variety with wide AOA east to west
- Good root and stalk quality for dependable performance
- Very good ear flex allows for a wide range of population
- Above-average Goss's wilt and NCLB scores
- Good brittle snap score for western movement
- Utilize a fungicide where GLS is a concern

Semi-flex Ear type | **Medium-High** Population range

Emergence: 5 | Drought Tolerance: 7 | Stalk Lodging: 6 | Root Lodging: 6 | Staygreen: 5 | Test Weight: 5 | Plant Height: 6



63A7™ 103 RM

NEW!

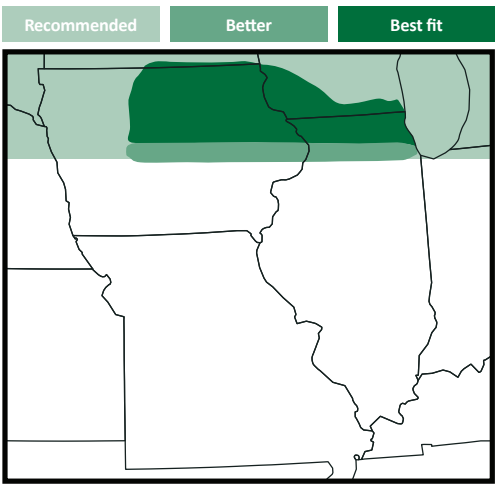
63A7PCE™ **POWERCORE** **Enlist** **LIBERTY LINK** **Optimum AQUAmax**

63A7V™ **VORCEED** **Enlist** **LIBERTY LINK** **Optimum AQUAmax**

- Large area of adaptation
- Very good stress emergence for no-till soils
- Strong drought tolerance for western adaptation
- Respectable roots and stalks
- Medium-tall plant with moderate ear height
- Utilize a fungicide where GLS or tar spot is a concern

Semi-flex Ear type | **Medium-High** Population range

Emergence: 7 | Drought Tolerance: 7 | Stalk Lodging: 6 | Root Lodging: 6 | Staygreen: 5 | Test Weight: 5 | Plant Height: 5



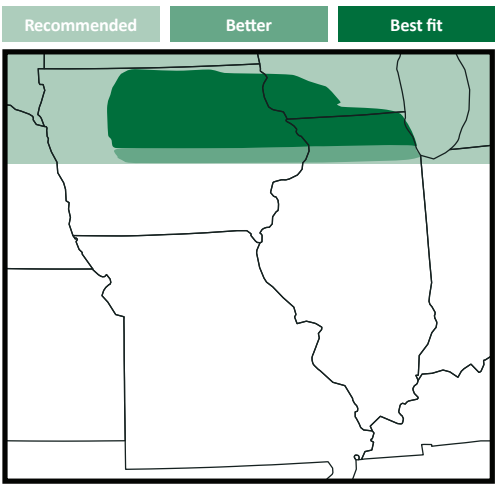
65D3™ 105 RM

65D3Q™ **QROME** **LIBERTY LINK** **Optimum AQUAmax**

- 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

Emergence: 5 | Drought Tolerance: 7 | Stalk Lodging: 5 | Root Lodging: 7 | Staygreen: 6 | Test Weight: 5 | Plant Height: 5



64B5™ 104 RM

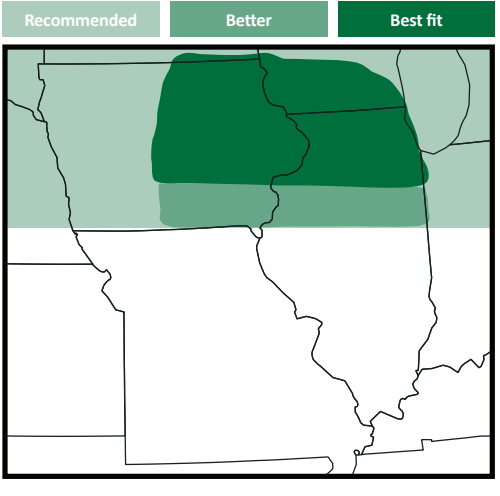
64B5CV™ **AQUAmax** **CV**

64B5Q™ **QROME** **AQUAmax** **LIBERTY LINK** **Optimum AQUAmax**

- Optimum® AQUAmax® hybrid
- Large area of adaptation with strong southern movement
- Medium-statured 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 Ear type | **Medium-High** Population range

Emergence: 6 | Drought Tolerance: 9 | Stalk Lodging: 6 | Root Lodging: 5 | Staygreen: 5 | Test Weight: 5 | Plant Height: 6



66C2™ 106 RM

66C2PCE™ **NEW!** **POWERCORE** **Enlist** **LIBERTY LINK** **Optimum AQUAmax**

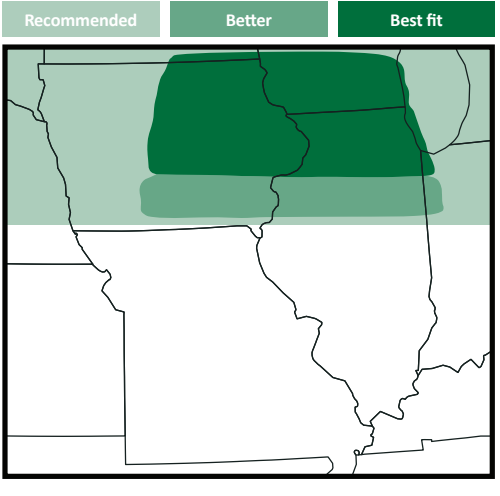
66C2Q™ **QROME** **LIBERTY LINK** **Optimum AQUAmax**

66C2V™ **NEW!** **VORCEED** **Enlist** **LIBERTY LINK** **Optimum AQUAmax**

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


Semi-Flex Ear type | **Medium-High** Population range

Emergence: 6 | Drought Tolerance: 7 | Stalk Lodging: 6 | Root Lodging: 6 | Staygreen: 6 | Test Weight: 7 | Plant Height: 6



CORN BRANDS

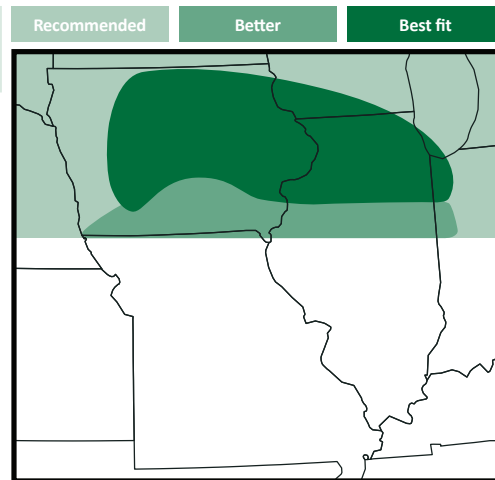
66D1™ 106 RM




- Excellent yield potential
- Wide area of adaptation
- Strong southern movement
- Moderate 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

Emergence: 5 | Drought Tolerance: 6 | Stalk Lodging: 5 | Root Lodging: 6 | Staygreen: 6 | Test Weight: 6 | Plant Height: 6



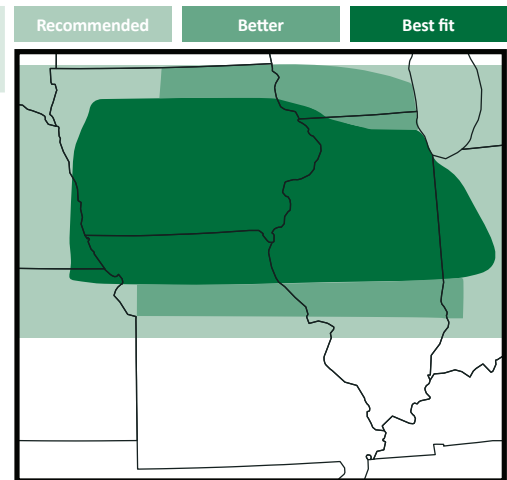
68B3™ 108 RM




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

Semi-Flex Ear type | **Medium-High** Population range

Emergence: 5 | Drought Tolerance: 7 | Stalk Lodging: 6 | Root Lodging: 7 | Staygreen: 6 | Test Weight: 7 | Plant Height: 5



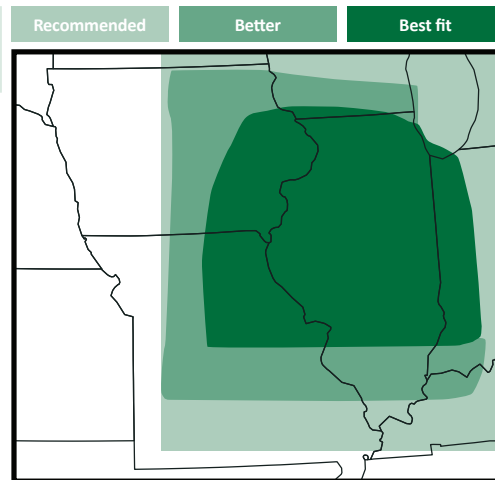
68A7™ 108 RM




- 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

Emergence: 7 | Drought Tolerance: 6 | Stalk Lodging: 5 | Root Lodging: 6 | Staygreen: 5 | Test Weight: 6 | Plant Height: 4



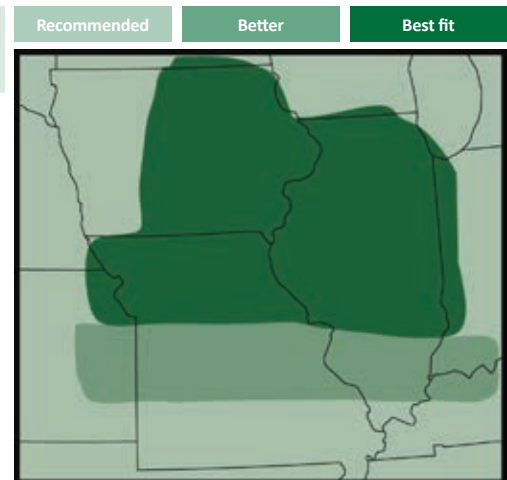
68C1™ 108 RM




- Medium-statured plant
- Above average 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

Emergence: 7 | Drought Tolerance: 6 | Stalk Lodging: 6 | Root Lodging: 6 | Staygreen: 7 | Test Weight: 6 | Plant Height: 6



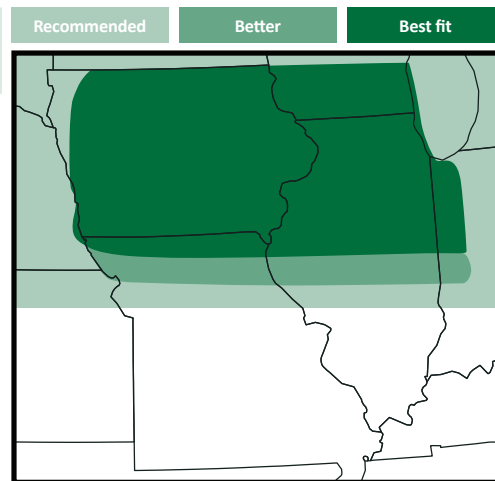
68A9™ 108 RM




- High yield potential in 108-day zone
- Above average brittle snap score allows for western movement
- Very competitive roots for prairie soils
- Companion with 68A7AM™ BRAND 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

Emergence: 5 | Drought Tolerance: 5 | Stalk Lodging: 6 | Root Lodging: 6 | Staygreen: 7 | Test Weight: 5 | Plant Height: 6



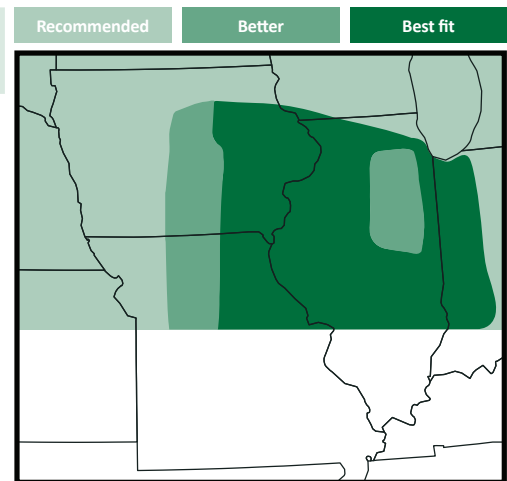
69A6™ 109 RM



- 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-statured plant with attractive earline
- Strong staygreen

Semi-Flex Ear type | **Medium-High** Population range

Emergence: 6 | Drought Tolerance: 6 | Stalk Lodging: 6 | Root Lodging: 7 | Staygreen: 7 | Test Weight: 6 | Plant Height: 5



CORN BRANDS

69B5™ 109 RM

NEW!

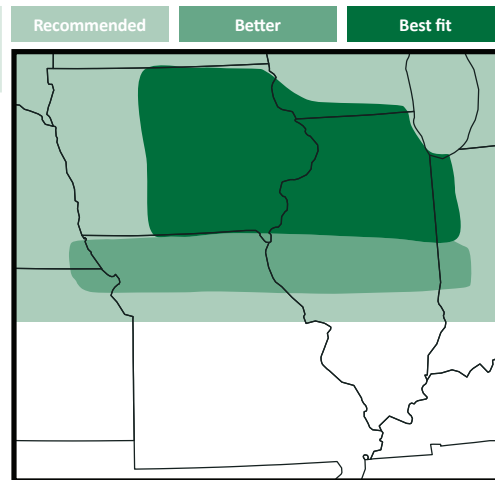
69B5V™

VORCEED, Enlist, LIBERTY LINK, Pioneer 3

- Early silking hybrid for its maturity
- Very good ear flex
- Strong roots and brittle snap score
- Good stalk strength and staygreen for a nice fall appearance
- Well-balanced agronomics
- Very good Goss's wilt and NCLB tolerance for corn-on-corn

Semi-flex Ear type | **Medium-High** Population range

5 Emergence | 6 Drought Tolerance | 6 Stalk Lodging | 7 Root Lodging | 6 Staygreen | 5 Test Weight | 6 Plant Height



70A8™ 110 RM

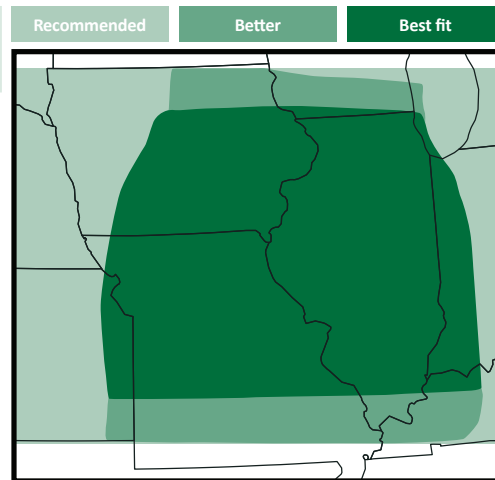
70A8AM™ | **70A8CV™** CV

AcreMax, LIBERTY LINK, Pioneer 3

- Very consistent performance across NuTech marketing area
- High yield potential on highly productive soils
- Medium-short statured 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



69B9™ 109 RM

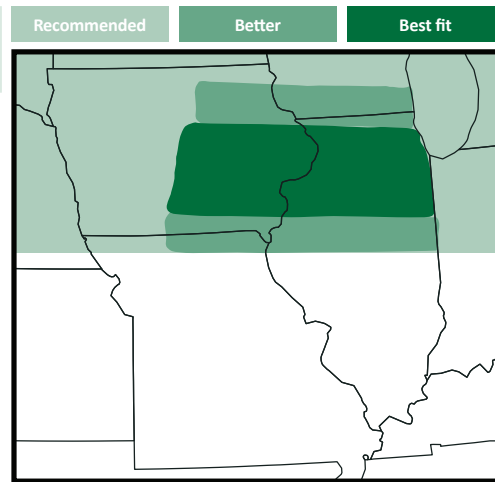
69B9Q™

QROME, LIBERTY LINK, Pioneer 3

- Very good roots and stalks
- Strong staygreen and excellent late-season eye appeal
- Later flowering hybrid for its maturity
- Strong Goss's wilt score 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



70B4™ 110 RM

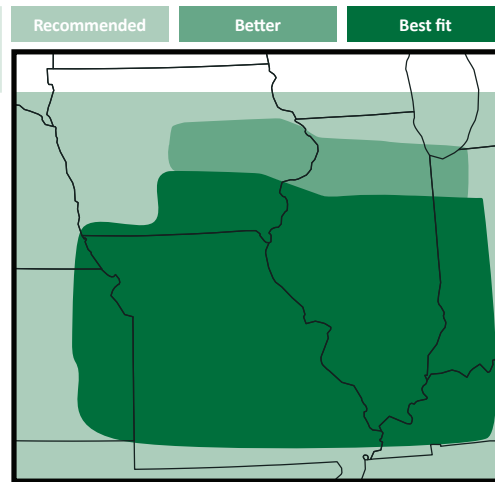
70B4AM™

AcreMax, LIBERTY LINK, Pioneer 3

- 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



69C7™ 109 RM

NEW!

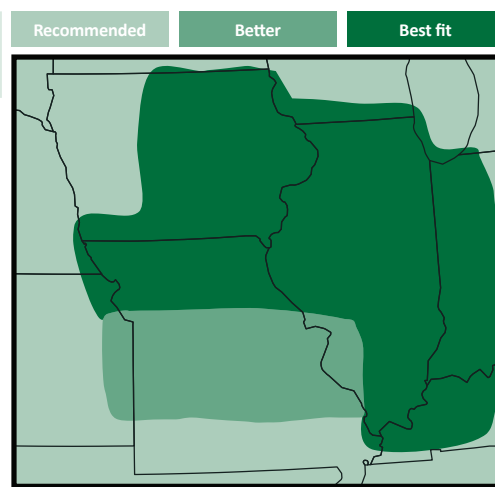
69C7PCE™

POWERCORE, Enlist, LIBERTY LINK, Pioneer 3

- An elite, widely adapted variety
- Good roots and stalks
- Medium-tall plant with lower ear placement
- Good GLS, Goss's wilt, and head smut tolerance
- Strong brittle snap tolerance
- Fungicide candidate where NCLB and tar spot are a concern

Semi-flex Ear type | **Medium-High** Population range

5 Emergence | 6 Drought Tolerance | 6 Stalk Lodging | 6 Root Lodging | 6 Staygreen | 6 Test Weight | 6 Plant Height



70F6™ 110 RM

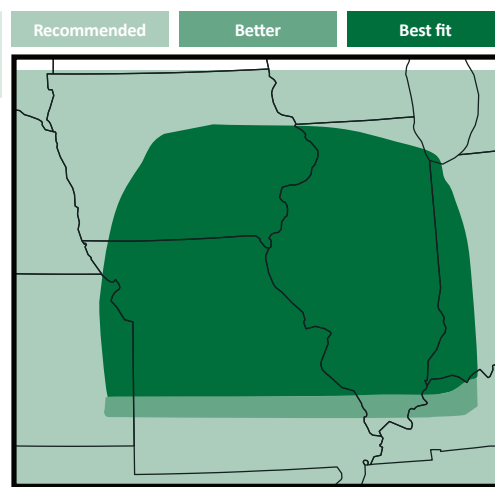
70F6CV™ NEW! CV | **70F6PCE™** NEW! | **70F6V™** NEW!

POWERCORE, Enlist, LIBERTY LINK, Pioneer 3, VORCEED, Enlist, LIBERTY LINK, Pioneer 3

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

Semi-Flex Ear type | **Medium-Medium High** Population range

6 Emergence | 7 Drought Tolerance | 5 Stalk Lodging | 5 Root Lodging | 7 Staygreen | 6 Test Weight | 6 Plant Height



CORN BRANDS

71A2™ 111 RM

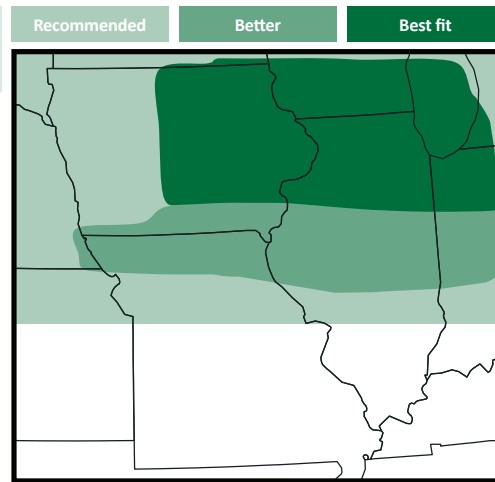
71A2AM™

71A2V™ **NEW!**

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

Semi-Flex Ear type **Medium-High** Population range

6 Emergence **8** Drought Tolerance **7** Stalk Lodging **6** Root Lodging **6** Staygreen **6** Test Weight **7** Plant Height



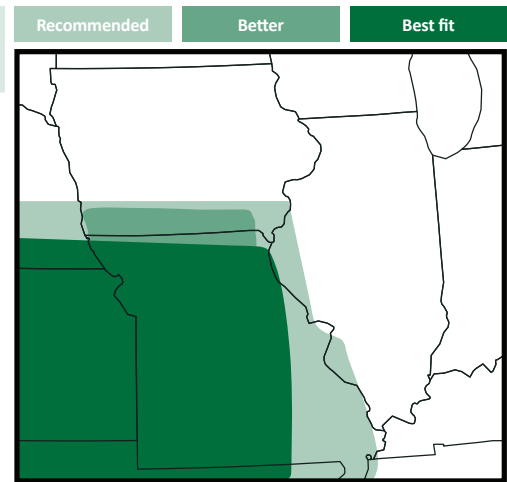
72A8™ 112 RM

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 Ear type **Medium-Medium High** Population range

5 Emergence **8** Drought Tolerance **6** Stalk Lodging **6** Root Lodging **8** Staygreen **6** Test Weight **7** Plant Height



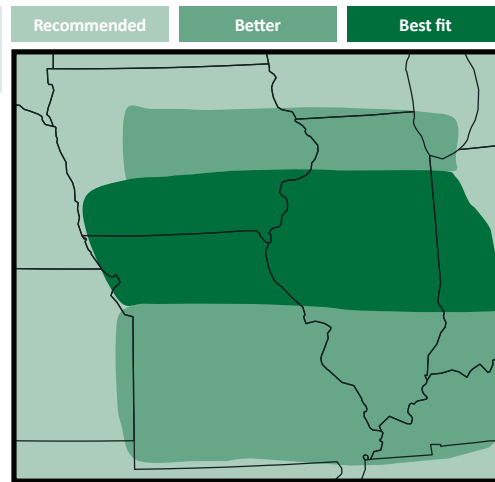
71A7™ 111 RM

71A7V™ **NEW!**

- Strong drought tolerance
- Large area of adaptation with strong southern movement
- Strong stress emergence for cold soils
- Strong roots and above-average staygreen
- Later silking hybrid for its maturity
- Fungicide recommended where GLS and NCLB are a concern

Semi-flex Ear type **Medium-High** Population range

7 Emergence **7** Drought Tolerance **6** Stalk Lodging **7** Root Lodging **6** Staygreen **7** Test Weight **6** Plant Height



72B7™ 112 RM

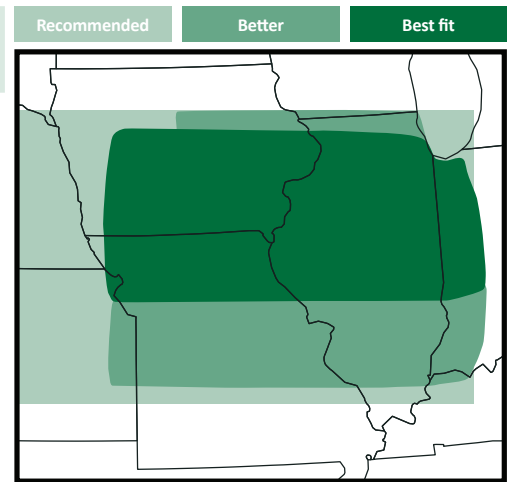
72B7CV™ **CV**

72B7Q™

- 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 Ear type **Medium-Medium High** Population range

5 Emergence **9** Drought Tolerance **7** Stalk Lodging **6** Root Lodging **6** Staygreen **7** Test Weight **5** Plant Height



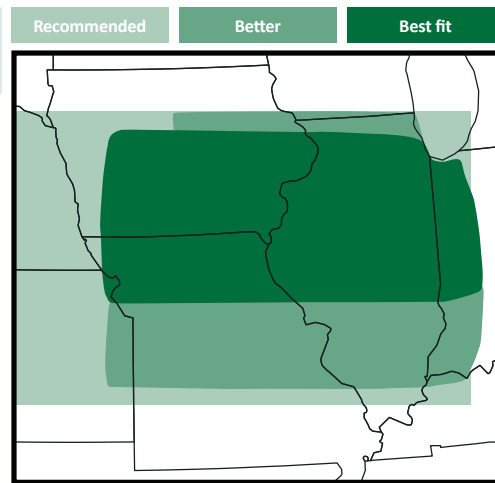
72A5™ 112 RM

72A5Q™

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

Semi-Flex Ear type **Medium-High** Population range

5 Emergence **8** Drought Tolerance **6** Stalk Lodging **6** Root Lodging **6** Staygreen **7** Test Weight **6** Plant Height



72C1™ 112 RM

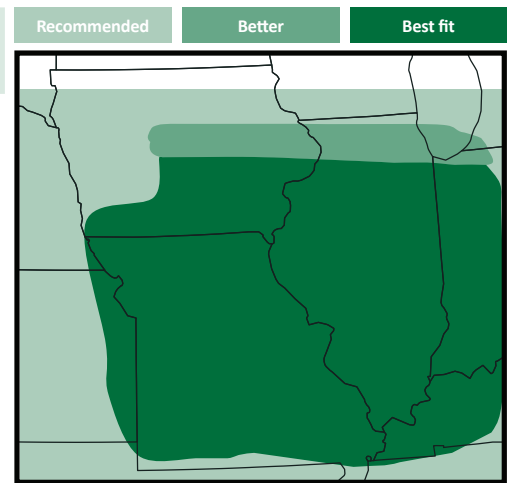
72C1PCE™

72C1V™

- Early silking hybrid that allows for northern movement
- Best fit in the Central and Eastern Corn Belt
- Very good roots, stalks and staygreen
- Good emergence for no-till soils
- Moderate-statured plant with moderate ear height
- Fungicide recommended where GLS is a concern

Semi-flex Ear type **Medium-High** Population range

6 Emergence **7** Drought Tolerance **6** Stalk Lodging **6** Root Lodging **6** Staygreen **5** Test Weight **5** Plant Height



CORN BRANDS

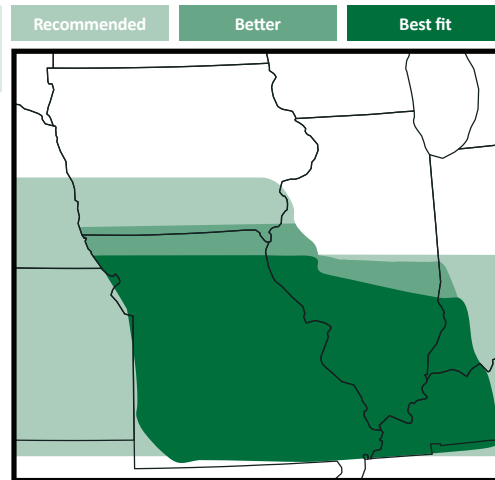
72D4™ 112 RM

72D4AM™

- 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 scores
- Responds well to fungicide application

Flex Ear type **Medium Low-Medium** Population range

Emergence: 6 Drought Tolerance: 6 Stalk Lodging: 6 Root Lodging: 4 Staygreen: 7 Test Weight: 6 Plant Height: 6



73A4™ 113 RM

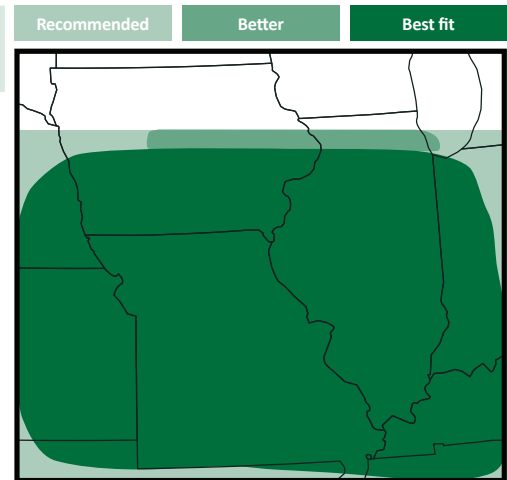
73A4AM™

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
- Average Goss's wilt and above-average head smut scores

Semi-Flex Ear type **Medium-Medium High** Population range

Emergence: 5 Drought Tolerance: 6 Stalk Lodging: 6 Root Lodging: 6 Staygreen: 6 Test Weight: 5 Plant Height: 5



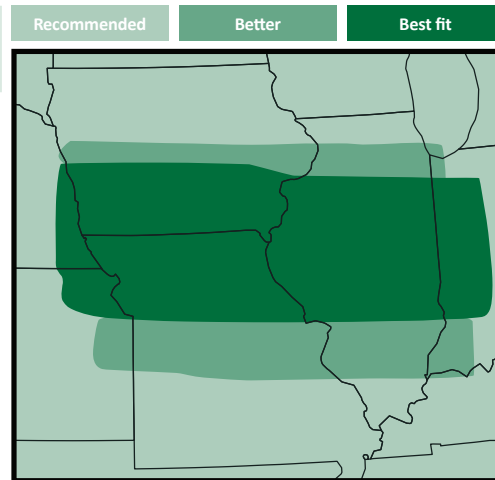
72D4™ 112 RM

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 scores
- Responds well to fungicide application

Flex Ear type **Medium Low-Medium** Population range

Emergence: 6 Drought Tolerance: 6 Stalk Lodging: 6 Root Lodging: 4 Staygreen: 7 Test Weight: 6 Plant Height: 6



73A6™ 113 RM

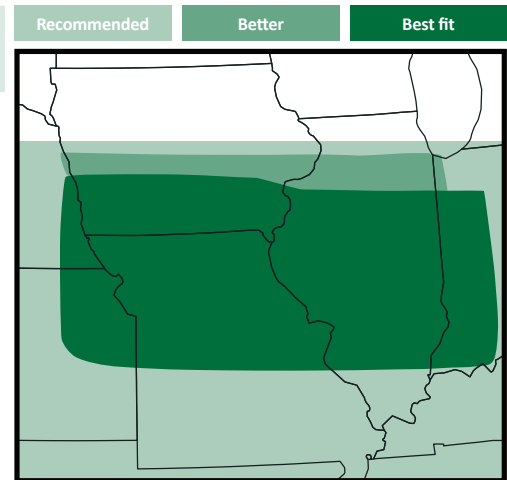
73A6AML™

73A6Q™

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

Semi-Flex Ear type **Medium-High** Population range

Emergence: 4 Drought Tolerance: 6 Stalk Lodging: 5 Root Lodging: 7 Staygreen: 5 Test Weight: 7 Plant Height: 6



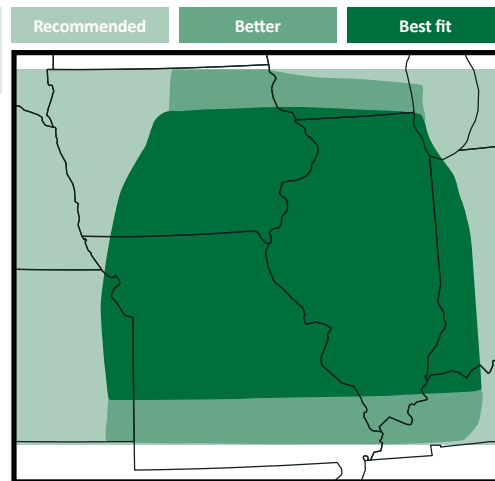
72F1™ 112 RM

72F1CV™ CV

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

Semi-Flex Ear type **Medium-Medium High** Population range

Emergence: 6 Drought Tolerance: 7 Stalk Lodging: 6 Root Lodging: 5 Staygreen: 8 Test Weight: 6 Plant Height: 7



74A5™ 114 RM

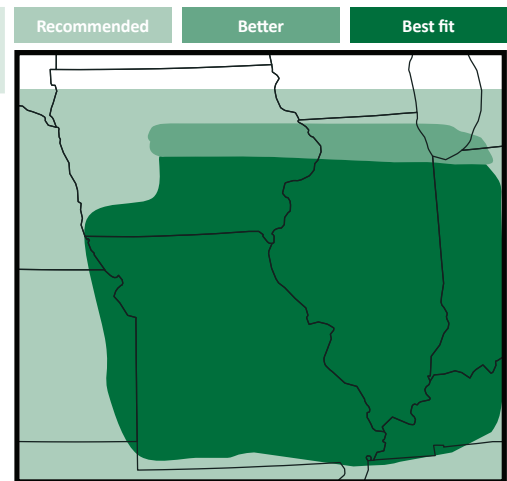
74A5PCE™

74A5V™

- Yield leader with strong agronomics
- Strong drought tolerance and a good brittle snap score
- Above-average roots, stalks and staygreen
- Good Goss's wilt and NCLB tolerance
- Dual-purpose hybrid for grain and silage
- Utilize a fungicide where GLS is a concern

Semi-flex Ear type **Medium-High** Population range

Emergence: 6 Drought Tolerance: 7 Stalk Lodging: 6 Root Lodging: 6 Staygreen: 6 Test Weight: 6 Plant Height: 6



CORN BRANDS

74A9™ 114 RM

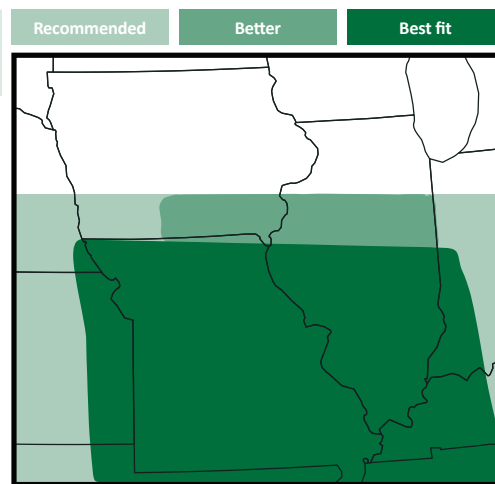


74A9AM™ AcreMax, Liberty Link, PowerCrop


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

Semi-Flex Ear type | Medium-Medium High Population range

6 Emergence | 6 Drought Tolerance | 5 Stalk Lodging | 6 Root Lodging | 6 Staygreen | 5 Test Weight | 5 Plant Height



77A5™ 117 RM

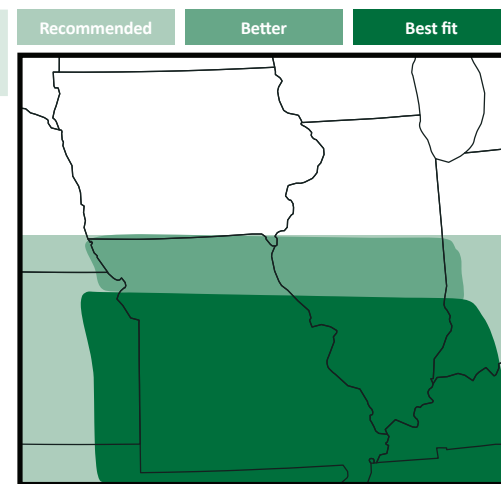


77A5AM™ AcreMax, Liberty Link, PowerCrop


- Full-season leader with exceptional yield potential
- Excellent stalks for strong late-season standability
- Good roots with above-average brittle snap
- Tall plant with moderate ear height
- Dual-purpose hybrid for grain and silage
- Very good drought tolerance

Semi-Flex Ear type | Medium-Medium High Population range

4 Emergence | 7 Drought Tolerance | 8 Stalk Lodging | 6 Root Lodging | 6 Staygreen | 5 Test Weight | 7 Plant Height



74C4™ 114 RM

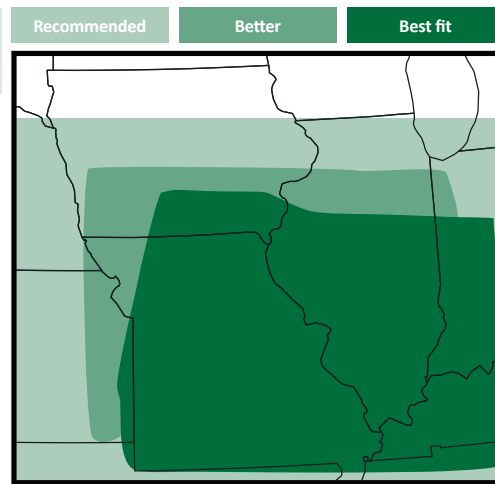


74C4AM™ AcreMax, Liberty Link, PowerCrop

- High-performing hybrid with a lot of ear flex
- High test weight
- Good stalks and late-season intactness
- Medium-statured plant with medium ear placement
- Best performance on moderate to highly productive soils
- Fungicide candidate where GLS and NCLB are a concern


Flex Ear type | Medium Low-Medium Population range

6 Emergence | 6 Drought Tolerance | 6 Stalk Lodging | 6 Root Lodging | 6 Staygreen | 7 Test Weight | 6 Plant Height



Notes:

75C1™ 115 RM



75C1AM™ AcreMax, Liberty Link, PowerCrop

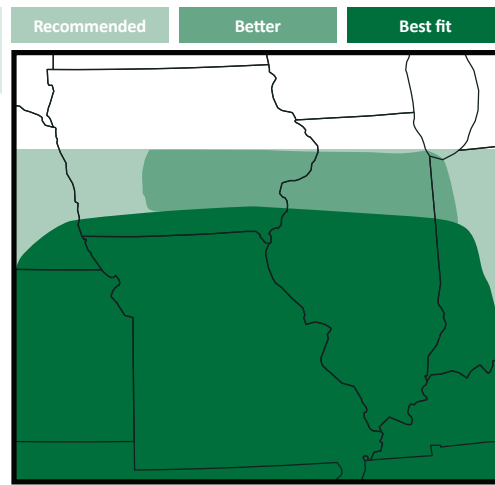
75C1CV™ CV

75C1PCE™ NEW! PowerCope, Enlist, Liberty Link, PowerCrop

- Strong drought tolerance
- Silks early for its maturity
- Large area of adaptation
- Very good roots and good stalks
- Above-average brittle snap rating for western movement
- Good grain quality with high test weight

Semi-Flex Ear type | Medium-High Population range

5 Emergence | 7 Drought Tolerance | 6 Stalk Lodging | 7 Root Lodging | 6 Staygreen | 6 Test Weight | 6 Plant Height





2025 Corn Seed Treatment Portfolio

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

FUNGICIDE SEED TREATMENT

Lumiscend™ Pro fungicide treatment

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

Lumiflex™ fungicide seed treatment

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

INSECTICIDE SEED TREATMENTS

Premium Package

Lumisure® 250 insecticide seed treatment

- Proven insecticide with broad-spectrum activity

+

Lumivia® 250 insecticide seed treatment

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

Enhanced CRW Package

Lumisure® 1250 insecticide seed treatment

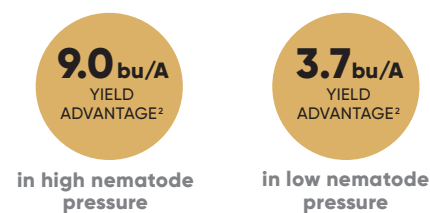
- Added protection against corn rootworm for improved stand establishment and lodging

NEMATICIDE SEED TREATMENT

Lumialza® nematocide seed treatment

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

Lumialza advantage over FST/IST



BIOLOGICAL

L-2012 R biofungicide (Exclusive to Corteva Agriscience)

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

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

LumiGEN®

SEED TREATMENT

LUMIALZA® NEMATICIDE 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 pressure²
 - **3.7 bu/A** average yield advantage under low nematode pressure²

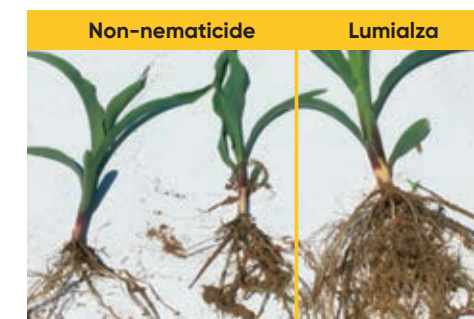
Lumialza®

NEMATICIDE SEED TREATMENT

Lumialza bio-barrier



Colonization of roots by *Bacillus amyloliquefaciens*, strain PTA-4838.



Insecticide Seed Treatments Characterization

Pest	Premium Package Lumialza® bio-nematicide Lumivia® 250 Lumisure® 250	Enhanced CRW Package Lumialza® bio-nematicide Lumisure® 1250	Bayer Option Poncho® Votivo® 500	Cruiser® 250
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



¹ 2020-2022 Corteva research trials in 80 locations.

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

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.

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

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.

Cruiser® is a registered trademark of Syngenta.

Poncho® and Votivo® are registered trademarks of BASF.

™ Trademarks of Corteva Agriscience and its affiliates companies.

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SOYBEAN NAMING CONVENTION

34N02E™ BRAND

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
- BE** Enlist E3® soybeans with BOLT® technology

Soybean Diseases Key

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

SOYBEAN BRANDS

17N02E™ NEW! 1.7 RM 				Medium	Medium	Purple	
<ul style="list-style-type: none"> Peking SCN source Rps1K gene for PRR Above-average SDS score Very good emergence for no-till soils Reliable standability in the fall Metribuzin tolerant, saflufenacil & sulfentrazone tolerant 				Plant height	Canopy width	Flower color	
				Light Tawny	Brown	Black	
				Pubescence color	Pod color	Hilum color	
7	7	6	5	MT	4	Rps1k	PI88788
Emergence	Harvest Standability	Sudden Death Syndrome	Iron Deficiency Chlorosis	Brown Stem Rot	White Mold	Phytophthora Root Rot Resistance	Soybean Cyst Nematode Resistance
20N06E™ NEW! 2 RM 				Medium	Medium	White	
<ul style="list-style-type: none"> Rps1C gene with good field tolerance to PRR Highly tolerant to BSR Good IDC score for high-pH soils Excluder variety for high-salt soils Moderant tolerance to metribuzin Saflufenacil & sulfentrazone tolerant 				Plant height	Canopy width	Flower color	
				Light Tawny	Tan	Brown	
				Pubescence color	Pod color	Hilum color	
7	6	6	6	HT	4	Rps1c	PI88788
Emergence	Harvest Standability	Sudden Death Syndrome	Iron Deficiency Chlorosis	Brown Stem Rot	White Mold	Phytophthora Root Rot Resistance	Soybean Cyst Nematode Resistance
21N08E™ NEW! 2.1 RM 				Medium	Medium	Purple	
<ul style="list-style-type: none"> Rps1k gene for PRR Peking SCN source Excellent frogeye leaf spot tolerance Moderate white mold tolerance Moderate tolerance to BSR Metribuzin tolerant, saflufenacil & sulfentrazone tolerant 				Plant height	Canopy width	Flower color	
				Light Tawny	Brown	Brown	
				Pubescence color	Pod color	Hilum color	
6	7	5	5	MT	5	Rps1k	Peking
Emergence	Harvest Standability	Sudden Death Syndrome	Iron Deficiency Chlorosis	Brown Stem Rot	White Mold	Phytophthora Root Rot Resistance	Soybean Cyst Nematode Resistance

SOYBEAN BRANDS

22N04E™

NEW!

2.2 RM

- Rps1k gene for PRR
- Peking SCN source
- Excellent frogeye leaf spot tolerance
- Good SDS tolerance
- Moderate white mold tolerance
- Metribuzin tolerant, saflufenacil & sulfentrazone tolerant

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

26N02CV™

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	Medium	Purple					
Plant height	Canopy width	Flower color					
Light Tawny	Brown	Tan					
Pubescence color	Pod color	Hilum color					
8	8	6	5	MT	6	Rps1k	NR
Emergence	Harvest Standability	Sudden Death Syndrome	Iron Deficiency Chlorosis	Brown Stem Rot	White Mold	Phytophthora Root Rot Resistance	Soybean Cyst Nematode Resistance

24N05E™

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	Medium	Purple					
Plant height	Canopy width	Flower color					
Light Tawny	Brown	Brown					
Pubescence color	Pod color	Hilum color					
7	8	6	5	MT	6	Rps1k	Peking
Emergence	Harvest Standability	Sudden Death Syndrome	Iron Deficiency Chlorosis	Brown Stem Rot	White Mold	Phytophthora Root Rot Resistance	Soybean Cyst Nematode Resistance

27N03E™

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	Medium	Purple					
Plant height	Canopy width	Flower color					
Light Tawny	Tan	Black					
Pubescence color	Pod color	Hilum color					
6	6	5	5	MT	3	Rps1k	Peking
Emergence	Harvest Standability	Sudden Death Syndrome	Iron Deficiency Chlorosis	Brown Stem Rot	White Mold	Phytophthora Root Rot Resistance	Soybean Cyst Nematode Resistance

25N05E™

NEW!

2.5 RM

- Rps1k gene for PRR
- Peking SCN source
- Good IDC for high-pH soils
- Strong SDS tolerance
- Excellent frogeye leaf spot tolerance
- Metribuzin tolerant, saflufenacil & sulfentrazone tolerant

Medium	Medium	Purple					
Plant height	Canopy width	Flower color					
Light Tawny	Brown	Brown					
Pubescence color	Pod color	Hilum color					
7	7	7	6	MT	3	Rps1k	Peking
Emergence	Harvest Standability	Sudden Death Syndrome	Iron Deficiency Chlorosis	Brown Stem Rot	White Mold	Phytophthora Root Rot Resistance	Soybean Cyst Nematode Resistance

27N07E™

NEW!

2.7 RM

- Rps1k gene and good field tolerance for PRR
- Moderate tolerance to BSR
- Very good SDS score
- Good charcoal rot tolerance
- Shorter variety with excellent standability
- Metribuzin tolerant, saflufenacil & sulfentrazone tolerant

Medium	Medium	Purple					
Plant height	Canopy width	Flower color					
Light Tawny	Brown	Brown					
Pubescence color	Pod color	Hilum color					
7	8	7	3	MT	3	Rps1k	PI88788
Emergence	Harvest Standability	Sudden Death Syndrome	Iron Deficiency Chlorosis	Brown Stem Rot	White Mold	Phytophthora Root Rot Resistance	Soybean Cyst Nematode Resistance

SOYBEAN BRANDS

28N03E™
NEW!

2.8 RM

Medium-Tall

Medium

Purple

Plant height

Canopy width

Flower color

Light Tawny

Tan

Black

Pubescence color

Pod color

Hilum color

7
7
6
7
HT
4
Rps1k,3a
PI88788

Emergence

Harvest Standability

Sudden Death Syndrome

Iron Deficiency Chlorosis

Brown Stem Rot

White Mold

Phytophthora Root Rot Resistance

Soybean Cyst Nematode Resistance

32N04E™
NEW!

3.2 RM

Medium-Tall

Medium

Purple

Plant height

Canopy width

Flower color

Light Tawny

Tan

Brown

Pubescence color

Pod color

Hilum color

7
6
7
5
HT
4
Rps1k
PI88788

Emergence

Harvest Standability

Sudden Death Syndrome

Iron Deficiency Chlorosis

Brown Stem Rot

White Mold

Phytophthora Root Rot Resistance

Soybean Cyst Nematode Resistance

29N05E™
NEW!

2.9 RM

Medium-Tall

Medium

Purple

Plant height

Canopy width

Flower color

Light Tawny

Brown

Brown

Pubescence color

Pod color

Hilum color

8
8
8
5
MT
5
Rps1k,3a
Peking

Emergence

Harvest Standability

Sudden Death Syndrome

Iron Deficiency Chlorosis

Brown Stem Rot

White Mold

Phytophthora Root Rot Resistance

Soybean Cyst Nematode Resistance

34N02E™

3.4 RM

Medium

Medium

Purple

Plant height

Canopy width

Flower color

Light Tawny

Brown

Brown

Pubescence color

Pod color

Hilum color

7
6
5
4
MT
2
Rps1k
Peking

Emergence

Harvest Standability

Sudden Death Syndrome

Iron Deficiency Chlorosis

Brown Stem Rot

White Mold

Phytophthora Root Rot Resistance

Soybean Cyst Nematode Resistance

30N06E™
NEW!

3 RM

Medium

Medium

Purple

Plant height

Canopy width

Flower color

Light Tawny

Brown

Brown

Pubescence color

Pod color

Hilum color

7
7
8
5
HT
3
Rps1k
PI88788

Emergence

Harvest Standability

Sudden Death Syndrome

Iron Deficiency Chlorosis

Brown Stem Rot

White Mold

Phytophthora Root Rot Resistance

Soybean Cyst Nematode Resistance

35N05E™
NEW!

3.5 RM

Medium

Medium

Purple

Plant height

Canopy width

Flower color

Light Tawny

Tan

Black

Pubescence color

Pod color

Hilum color

7
7
7
5
HT
4
Rps1k
Peking

Emergence

Harvest Standability

Sudden Death Syndrome

Iron Deficiency Chlorosis


Brown Stem Rot

White Mold

Phytophthora Root Rot Resistance


Soybean Cyst Nematode Resistance

SOYBEAN BRANDS

36N06E™ **NEW!** 3.6 RM 

- Rps1k for PRR
- High tolerance to BSR
- Good SDS tolerance
- Strong charcoal rot
- Moderate stature variety with very good standability
- 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				
7	7	6	3	Brown Stem Rot	White Mold	Phytophthora Root Rot Resistance	Soybean Cyst Nematode Resistance

38N05E™ **NEW!** 3.8 RM 


- Rps1c gene for PRR
- Above-average SDS rating
- Excellent frogeye leaf spot
- Highly tolerant to BSR
- Short stature variety with good branching capability
- Metribuzin tolerant, saflufenacil & sulfentrazone tolerant

Medium-Short	Medium	White					
Plant height	Canopy width	Flower color					
Light Tawny	Brown	Black					
Pubescence color	Pod color	Hilum color					
HT	4	Rps1c	PI88788				
7	9	6	4	Brown Stem Rot	White Mold	Phytophthora Root Rot Resistance	Soybean Cyst Nematode Resistance

37N02CV™ 3.7 RM CONV


- Above-average SDS rating
- Rps1k gene with moderate field tolerance
- Highly tolerant to BSR
- Stem canker resistance
- Good frogeye leaf spot tolerance
- Metribuzin tolerant, saflufenacil & sulfentrazone tolerant

Medium	Medium	White					
Plant height	Canopy width	Flower color					
Light Tawny	Brown	Black					
Pubescence color	Pod color	Hilum color					
HT	4	Rps1k	PI88788				
7	7	6	4	Brown Stem Rot	White Mold	Phytophthora Root Rot Resistance	Soybean Cyst Nematode Resistance

39N08E™ **NEW!** 3.9 RM 


- Peking SCN source
- Rps1k gene for PRR
- Excellent frogeye leaf spot
- Strong SDS tolerance
- Moderate tolerance to BSR
- Metribuzin tolerant, saflufenacil & sulfentrazone tolerant

Medium	Medium	White					
Plant height	Canopy width	Flower color					
Light Tawny	Brown	Brown					
Pubescence color	Pod color	Hilum color					
MT	4	Rps1k	Peking				
7	6	7	5	Brown Stem Rot	White Mold	Phytophthora Root Rot Resistance	Soybean Cyst Nematode Resistance

37N03E™ 3.7 RM 

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

Medium	Medium	White					
Plant height	Canopy width	Flower color					
Light Tawny	Brown	Black					
Pubescence color	Pod color	Hilum color					
HT	NR	Rps1k	PI88788				
7	6	5	4	Brown Stem Rot	White Mold	Phytophthora Root Rot Resistance	Soybean Cyst Nematode Resistance

42N05E™ 4.2 RM 

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

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

SOYBEAN BRANDS

43N06E™

NEW!

4.3 RM

Medium

Medium

White

Plant height

Canopy width

Flower color

Light Tawny

Brown

Black

Pubescence color

Pod color

Hilum color

MS

Brown Stem Rot

NR

White Mold

Rps1a

Phytophthora Root Rot Resistance

PI88788

Soybean Cyst Nematode Resistance

7

Emergence

6

Harvest Standability

6

Sudden Death Syndrome

4

Iron Deficiency Chlorosis

- Rps1a gene for PRR
- Good SDS tolerance
- Strong emergence for no-till soils
- Best fit on tighter, rolling soils
- Moderately tolerant to metribuzin
- Saflufenacil & sulfentrazone tolerant

47N04E™

4.7 RM

Medium

Medium

White

Plant height

Canopy width

Flower color

Light Tawny

Brown

Brown

Pubescence color

Pod color

Hilum color

MS

Brown Stem Rot

NR

White Mold

NR

Phytophthora Root Rot Resistance

PI88788

Soybean Cyst Nematode Resistance

6

Emergence

6

Harvest Standability

6

Sudden Death Syndrome

3

Iron Deficiency Chlorosis

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

43N11BE™

NEW!

4.3 RM

Medium

Medium

White

Plant height

Canopy width

Flower color

Light Tawny

Brown

Black

Pubescence color

Pod color

Hilum color

HT

Brown Stem Rot

NR

White Mold

Rps1k

Phytophthora Root Rot Resistance

PI88788

Soybean Cyst Nematode Resistance

7

Emergence

7

Harvest Standability

6

Sudden Death Syndrome

4

Iron Deficiency Chlorosis

- Enlist E3®/BOLT® variety provides additional weed management options
- Rps1k gene for PRR
- Highly tolerant to BSR
- Above-average SDS tolerance
- Moderate stature with good lateral branching
- Metribuzin tolerant, saflufenacil & sulfentrazone tolerant

47N11BE™

NEW!

4.7 RM

Medium

Medium

Purple

Plant height

Canopy width

Flower color

Light Tawny

Brown

Black

Pubescence color

Pod color

Hilum color

MS

Brown Stem Rot

NR

White Mold

NR

Phytophthora Root Rot Resistance

PI88788

Soybean Cyst Nematode Resistance

7

Emergence

5

Harvest Standability

6

Sudden Death Syndrome

3

Iron Deficiency Chlorosis

- Enlist E3®/BOLT® variety provides additional weed management options
- Tall, robust plant; best fit in double crop
- Excellent charcoal rot tolerance
- Excluder variety for high-salt soils
- Metribuzin-tolerant, saflufenacil & sulfentrazone tolerant
- Best performance when used with Lumisena® fungicide seed treatment

45N10E™

NEW!

4.5 RM

Medium

Medium

Purple

Plant height

Canopy width

Flower color

Light Tawny

Brown

Black

Pubescence color

Pod color

Hilum color

HT

Brown Stem Rot

NR

White Mold

NR

Phytophthora Root Rot Resistance

PI88788

Soybean Cyst Nematode Resistance

7

Emergence

6

Harvest Standability

6

Sudden Death Syndrome

5

Iron Deficiency Chlorosis

- Highly tolerant to BSR
- Good tolerance to frogeye leaf spot
- Strong emergence for no-till soils
- Good SDS tolerance
- Excellent peanut root-knot tolerance
- Metribuzin tolerant, saflufenacil & sulfentrazone tolerant

49N05E™

NEW!

4.9 RM

Medium

Medium

White

Plant height

Canopy width

Flower color

Light Tawny

Brown

Black

Pubescence color

Pod color

Hilum color

MS

Brown Stem Rot

NR

White Mold

Rps1c

Phytophthora Root Rot Resistance

PI88788

Soybean Cyst Nematode Resistance

6

Emergence

6

Harvest Standability

6

Sudden Death Syndrome

2

Iron Deficiency Chlorosis

- Rps1c gene for PRR
- Very good charcoal rot tolerance
- Good SDS tolerance
- Moderate tolerance to frogeye leaf spot
- Moderate statured bean
- Metribuzin-tolerant variety

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	
NEW!	17N02E™	E3	1.7	M	M	P	LT	BR	BL	7	7	PI88788	Rps1k	4*	5	4	MT	4	6*	8*	NR	E3	2100-2300	17N02E™
NEW!	20N06E™	E3	2	M	M	W	LT	TN	BR	7	6	PI88788	Rps1c	6*	6	7	HT	4	6*	5*	9	E3	2500-2700	20N06E™
NEW!	21N08E™	E3	2.1	M	M	P	LT	BR	BR	6	7	Peking	Rps1k	4*	5	4	MT	5*	5*	8*	9	E3	2700-2800	21N08E™
NEW!	22N04E™	E3	2.2	M	M	P	LT	BR	BR	7	6	Peking	Rps1k	4*	5	4	MT	4	6*	8*	9	E3	2500-2700	22N04E™
	24N05E™	E3	2.4	M	M	P	LT	BR	BR	7	8	Peking	Rps1k	4*	5	5	MT	6	6*	8*	9	E3	3100-3300	24N05E™
NEW!	25N05E™	E3	2.5	M	M	P	LT	BR	BR	7	7	Peking	Rps1k	5*	6	4	MT	3	7*	8*	9	E3	2300-2500	25N05E™
	26N02CV™	CNV	2.6	M	M	P	LT	BR	TN	8	8	NR	Rps1k	4	5	6	MT	6	6	6*	9	CNV	2500-2700	26N02CV™
NEW!	27N03E™	E3	2.7	M	M	P	LT	TN	BL	6	6	Peking	Rps1k	3*	5	4	MT	3	5	7*	9	E3	3300-3500	27N03E™
	27N07E™	E3	2.7	M	M	P	LT	BR	BR	7	8	PI88788	Rps1k	6*	3	6	MT	3	7*	5*	9	E3	2300-2500	27N07E™
NEW!	28N03E™	E3	2.8	MT	M	P	LT	TN	BL	7	7	PI88788	Rps1k,3a	NR	7	7	HT	4	6*	6*	9	E3	2500-2700	28N03E™
NEW!	29N05E™	E3	2.9	MT	M	P	LT	BR	BR	8	8	Peking	Rps1k,3a	NR	5	4	MT	5	8*	8*	9	E3	2200-2400	29N05E™
NEW!	30N06E™	E3	3	M	M	P	LT	BR	BR	7	7	PI88788	Rps1k	5*	5	5	HT	3	8	3*	9	E3	2500-2700	30N06E™
NEW!	32N04E™	E3	3.2	MT	M	P	LT	TN	BR	7	6	PI88788	Rps1k	5*	5*	7	HT	4	7	6*	9	E3	2500-2700	32N04E™
	34N02E™	E3	3.4	M	M	P	LT	BR	BR	7	6	Peking	Rps1k	2*	4	7	MT	2	5	8*	9	E3	3100-3300	34N02E™
NEW!	35N05E™	E3	3.5	M	M	P	LT	TN	BL	7	7	Peking	Rps1k	4*	5	6	HT	4*	7	3*	9	E3	2300-2500	35N05E™
NEW!	36N06E™	E3	3.6	M	M	P	LT	TN	BL	7	7	PI88788	Rps1k	5*	3	7	HT	4*	6	3*	9	E3	NR	36N06E™
	37N02CV™	CNV	3.7	M	M	W	LT	BR	BL	7	7	PI88788	Rps1k	5	4	2	HT	4*	6	6	9	CNV	2500-2700	37N02CV™
	37N03E™	E3	3.7	M	M	W	LT	BR	BL	7	6	PI88788	Rps1k	4*	4	6	HT	NR	5	3*	9	E3	2500-2700	37N03E™
NEW!	38N05E™	E3	3.8	MS	M	W	LT	BR	BL	7	9	PI88788	Rps1c	5*	4	7	HT	4*	6	9*	9	E3	NR	38N05E™
NEW!	39N08E™	E3	3.9	M	M	W	LT	BR	BR	7	6	Peking	Rps1k	4*	5	7	MT	4*	7	8*	9	E3	2500-2700	39N08E™
	42N05E™	E3	4.2	M	MT	P	LT	TN	BL	6	7	PI88788	Rps1c	4*	4	7	MS	NR	5	6*	9	E3	2900-3100	42N05E™
NEW!	43N06E™	E3	4.3	M	M	W	LT	BR	BL	7	6	PI88788	Rps1a	5*	4	6	MS	NR	6	3*	9	E3	3000-3200	43N06E™
NEW!	43N11BE™	Bolt,E3	4.3	M	M	W	LT	BR	BL	7	7	PI88788	Rps1k	5*	4	7	HT	NR	6	3*	9	Bolt,E3	2600-2800	43N11BE™
NEW!	45N10E™	E3	4.5	M	M	P	LT	BR	BL	7	6	PI88788	NR	5*	5*	6	HT	NR	6*	6*	9	E3	3000-3200	45N10E™
	47N04E™	E3	4.7	M	M	W	LT	BR	BR	6	6	PI88788	NR	5*	3	6	MS	NR	6	8*	9	E3	2500-2700	47N04E™
NEW!	47N11BE™	Bolt,E3	4.7	M	M	P	LT	BR	BL	7	5	PI88788	NR	4*	3	8	MS	NR	6*	3*	9	Bolt,E3	3000-3200	47N11BE™
NEW!	49N05E™	E3	4.9	M	M	W	LT	BR	BL	6	6	PI88788	Rps1c	5*	2	7	MS	NR	6*	5*	9	E3	3000-3200	49N05E™

Technology
 CNV = Conventional
 E3 = Enlist E3® soybeans
 Bolt = Bolt® technology

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

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 2023 harvest and were the latest available at time of printing. Some scores may change after 2024 harvest. Scores represent an average of performance data across areas of adaptation, multiple growing conditions and a wide range of both climate and soil types and may not predict future results. Individual product responses are variable and subject to a variety of environmental, disease and pest pressures. Please use this information as only one component of your product positioning decision.

*preliminary score



2025 Soybean Seed Treatment Portfolio

PREMIUM PACKAGE

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

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

Lumiante™

FUNGICIDE SEED TREATMENT

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

PROTECTION



Diseases:

- Phytophthora
- Pythium
- Fusarium
- Rhizoctonia
- Phomopsis

Fungicide Seed Treatment Package

LumiTreo™

Lumiante™

Sebring® metalaxyl

L-2030 R biofungicide

Insecticide Seed Treatment

Phalanx™

Lumiderm®

LumiTreo™

FUNGICIDE SEED TREATMENT

LumiTreo™ backed by Lumisena®
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

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

* Labeled suppression

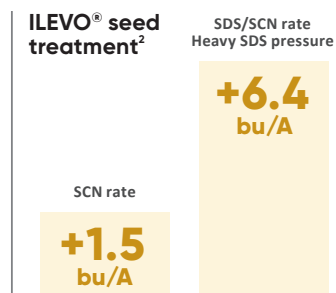
LumiGEN®

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
- At higher rate – protection against SCN and SDS



ADD L-120+ RHIZOBIAL INOCULANT (THIRD-PARTY OPTION)

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

OPTIONAL THIRD-PARTY INSECT PACKAGE

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

- For growers who are investing in tools and practices to drive higher yields on their soybean acres.
- New for 2025, Phalanx™, a neonicotinoid insecticide, provides broad-spectrum control of key early season pests.
- Phalanx paired with Lumiderm, a diamide insecticide, provides a second mode of action against seedcorn maggots, bean leaf beetles and aphids.
- When Phalanx and Lumiderm insecticide are paired, they provide a statistically significant improvement in plant stands and vigor,³ as well as a 1 bu/A to 3 bu/A advantage over the neonicotinoid insecticide alone.⁴

PROTECTION



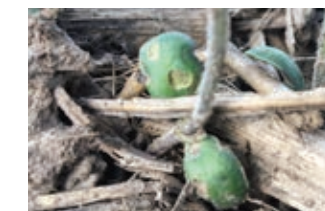
Insects:

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

Lumiderm®

INSECTICIDE SEED TREATMENT

Protection Against Seedcorn Maggots



Only fungicide seed treatment: injured cotyledon



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

Lumiante™
FUNGICIDE SEED TREATMENT

Lumiderm®
INSECTICIDE SEED TREATMENT

Lumisena®
FUNGICIDE SEED TREATMENT

LumiTreo™
FUNGICIDE SEED TREATMENT

Phalanx™
INSECTICIDE 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 Agronomy Science research data 2019 – 2022, 153 locations.

⁴Statistically significant improvement in yield resulting in a 1 bu/A - 3 bu/A advantage based on Corteva Agronomy Science research data from 2019 – 2022, 145 locations.

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

Lumiante™, Lumiderm®, Lumisena®, LumiTreo™, Phalanx™ 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. Always read and follow label directions.

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

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

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

Sebring® is a registered trademark of Nufarm Americas Inc.

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REFUGE REQUIREMENTS

ID	Product Name	Technology Description	Product Refuge Requirements			Herbicide Resistance				Corn Belt—Separate Refuge	
			Description	Integrated Components	Structured	Glyphosate	Liberty®	Enlist®	Insect Protection	Refuge Size Requirement	Refuge Distance Requirement
V	VORCEED	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 style="display: flex; gap: 5px;"> <div style="width: 10px; height: 10px; background-color: red;"></div> 95% HXX, RW3, VTP, ENL, LL, RR2 <div style="width: 10px; height: 10px; background-color: blue;"></div> 5% ENL, LL, RR2 </div>		✓	✓	✓		0% CORN BELT REFUGE	None
Q	QROME	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 style="display: flex; gap: 5px;"> <div style="width: 10px; height: 10px; background-color: red;"></div> 95% RW, YGCB, HXX, LL, RR2 <div style="width: 10px; height: 10px; background-color: blue;"></div> 5% LL, RR2 </div>		✓	✓			0% CORN BELT REFUGE	None
SXRA/SSR	SmartStax	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 style="display: flex; gap: 5px;"> <div style="width: 10px; height: 10px; background-color: red;"></div> 95% VT2, HX1, VT3, HXRW, LL, RR2 <div style="width: 10px; height: 10px; background-color: blue;"></div> 5% RR2, LL </div>		✓	✓			0% CORN BELT REFUGE	None
SXE/SE	SmartStax	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	✓	✓	✓	✓		5% CORN BELT REFUGE	Within or adjacent
SX/SS	SmartStax	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	✓	✓	✓			5% CORN BELT REFUGE	Within or adjacent
AMXT	AcreMax	Optimum® AcreMax® XTreme 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 style="display: flex; gap: 5px;"> <div style="width: 10px; height: 10px; background-color: red;"></div> 95% RW, YGCB, HXX, LL, RR2 <div style="width: 10px; height: 10px; background-color: blue;"></div> 5% RR2, LL </div>		✓	✓			0% CORN BELT REFUGE	None
PCE	PowerCore	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 style="display: flex; gap: 5px;"> <div style="width: 10px; height: 10px; background-color: red;"></div> 95% VTP, HX1, LL, RR2 <div style="width: 10px; height: 10px; background-color: blue;"></div> 5% RR2, LL </div>		✓	✓	✓		0% CORN BELT REFUGE	None
PWE	PowerCore	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, glufosinate and FOP herbicides such as quizalofop.	Trusted traits, 5% Corn Belt, 20% corn borer in cotton counties.	100% VT2, HX1, LL, RR2, Enlist	✓	✓	✓	✓		5% CORN BELT REFUGE	Within, adjacent or up to a half mile
PWUE	PowerCore	PowerCore® trait technology brings long-lasting insect control against key above-ground susceptible insects. PowerCore® Ultra Enlist® corn brings an additional mode of action for geographies that need additional protection against fall armyworm and western bean cutworm.	Trusted traits, 5% Corn Belt, 20% corn borer in cotton counties.	100% AVBL, HX1, VTP, ENL, LL, RR	✓	✓	✓	✓		5% CORN BELT REFUGE	Within, adjacent or up to a half mile
AML	AcreMax	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 style="display: flex; gap: 5px;"> <div style="width: 10px; height: 10px; background-color: red;"></div> 95% AVBL, YGCB, HX1, LL, RR2 <div style="width: 10px; height: 10px; background-color: blue;"></div> 5% RR2, LL </div>		✓	✓			0% CORN BELT REFUGE	None
AM	AcreMax	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 style="display: flex; gap: 5px;"> <div style="width: 10px; height: 10px; background-color: red;"></div> 95% YGCB, HX1, LL, RR2 <div style="width: 10px; height: 10px; background-color: blue;"></div> 5% RR2, LL </div>		✓	✓			0% CORN BELT REFUGE	None
VYHR	Leptra	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	✓	✓	✓			20% CORN BELT REFUGE	Within or adjacent
5FN/YHR	Intrasect	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	✓	✓	✓			20% CORN BELT REFUGE	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)	✓	✓	✓			5% CORN BELT REFUGE	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

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 on the following page.

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

Varieties with BOLT® technology provide excellent plant-back flexibility for soybeans following application of sulfonylurea (SU) herbicides such as LeadOff® herbicide or Basis® Blend herbicide as a component of a burndown program or, for double-crop soybeans, following SU herbicides such as Finesse® applied to wheat the previous fall. Always follow stewardship practices in accordance with the Product Use Guide (PUG) or other product-specific stewardship requirements including grain marketing and pesticide label directions. Basis Blend and LeadOff are not 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. Always read and follow label directions.

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

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

POWERCORE® multi-event technology developed by Corteva Agriscience and Bayer Group. Always follow IRM, grain marketing and all other stewardship practices and pesticide label directions. Bt products may not yet be registered in all states. Check with your seed representative for the registration status in your state. Agrisure® technology incorporated into these seeds is commercialized under a license from Syngenta Crop Protection AG.

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.

SmartStax® multi-event technology developed by Corteva Agriscience and Bayer Group.

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 counties, a 20% separate corn borer refuge must be planted with Optimum AcreMax products.

AML – Optimum® AcreMax® Leptra® products with AVBL, YGCB, HX1, LL, RR2. Contains a single-bag integrated refuge solution for above-ground insects. In EPA-designated cotton counties, a 20% separate corn borer refuge must be planted with Optimum AcreMax Leptra products.

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

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

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

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

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

PWE – PowerCore® Enlist® corn products with HX1, VTP, ENL, LL, RR. A separate 5% corn borer refuge in the corn belt, and a separate 20% corn borer refuge in EPA-designated cotton counties, must be planted with PowerCore Enlist products.

PWUE – PowerCore® Ultra Enlist® corn products with AVBL, HX1, VTP, ENL, LL, RR. A separate 5% corn borer refuge in the corn belt, and a separate 20% corn borer refuge in EPA-designated cotton counties, must be planted with PowerCore Ultra Enlist products. The PowerCore Ultra Enlist Refuge Advanced trait is not yet available for sale or distribution in the U.S.

Grain and byproducts produced from PowerCore® Ultra Enlist® corn material cannot be marketed in jurisdictions where not authorized, including Mexico, until the applicable approval is granted.

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

YGCB, HX1, LL, RR2 (Optimum® Intrasect®) – Contains a Bt trait and Herculex® I gene for resistance to corn borer.

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.

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Corteva products are launched in accordance with Corteva Agriscience launch policies and Excellence Through Stewardship® Product Launch Guidance. Refer to <http://www.biotradestatus.com/> for updated information on regulatory status, as well as <http://www.traitstewardship.com/> for additional stewardship requirements.

Corteva Agriscience is a member of Excellence Through Stewardship® (ETS). Corteva Agriscience products are commercialized in accordance with ETS Product Launch Stewardship Guidance 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.

ALWAYS READ AND FOLLOW LABEL DIRECTIONS.

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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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- ORANJESTAD, ARUBA 🌴 *Tuesday, Feb. 25*
- WILLEMSTAD, CURACAO 🌴 *Wednesday, Feb. 26*
- KRALENDIJK, BONAIRE 🌴 *Thursday, Feb. 27*
- CASTRIES, ST. LUCIA 🌴 *Friday, Feb. 28*
- BASSETERRE, ST. KITTS 🌴 *Saturday, March 1*
- SAN JUAN, PUERTO RICO 🌴 *Sunday, March 2*



Cruise with NuTech on the 2025 Getaway! Contact your NuTech Seed representative or email info@nutechseed.com to learn more about the 2025 Getaway and how you can qualify.



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Technology & Agronomy

News & Notes

It's an exciting time of year for farmers. Watching what's happening in the fields and determining what impact that will have on this year's treatments and next year's seed purchases. We've got lots of information from our NuTech agronomists to help you sort that out.

In this section, check out:

Summer watchlist: Our agronomy team tells you what to be on the lookout for in your fields this season.

Nitrogen application planning: Don't let commodity prices discourage you from keeping up with nitrogen inputs.

New corn technologies available: We've been waiting patiently for two powerful trait technologies, and now, they're widely available in our 2025 product lineup.

What impacts your purchasing decisions? The pressures you see this year could impact what you choose to do next season. Learn what to consider when making seed and treatment choices.

SUMMER WATCHLIST

With crops finally planted, our agronomists have advice regarding the impact of our wet spring and what to keep an eye on in your crops this summer.

PESTS

Wet fields and late planting increase pest threats



The wet spring and late planting mean growers should watch out for black cutworm damage in both corn and soybeans, especially where you have no-till and cover crops. We've seen an increase in black cutworm moth flights that typically overwinter down south and then they fly up here in the spring to lay eggs in the soil and residue and then hatch. More residue (from cover crops and reduced tillage) means there are more places for the cutworms to lay their eggs. We recommend diligence in

scouting fields — at least until the V3 to V5 growth stages — and doing stand counts to make sure you're not losing plants.

There are other pests that can damage corn and soybeans as well, including seed corn maggots, white grubs, wireworms and stink bugs. They'll bother corn in particular, damaging plants and messing up their whorls so they don't have good center stalks.

There are rescue treatments for black cutworm and other pests. Farmers can spray an insecticide. Contact your NuTech agronomist, your crop protection rep or your local extension service to help determine whether spraying is cost effective.

Scout all season long

Be sure to scout soybeans for bean leaf beetles as well — all the way through July, since they can do damage to plants all year. When they bite into the leaves, they inject a venom that can cause it to pick up a virus or disease, plus they feed on the foliage, which can reduce the leaf area, negatively impacting yield.

DISEASES

Wet fields also increase the risk of phytophthora

Many parts of our area had an extremely wet spring, so farmers may see phytophthora root and stem rot in soybeans due to the wet soil conditions. There isn't any real rescue for *Phytophthora*, just the potential for replant if you lose a whole area of a field. If the wet spring delayed planting, however, the risk of replant may be less of a problem.

Scout crops to determine if you need a foliar fungicide

In corn, look for gray leaf spot and tar spot — your typical leaf diseases — to determine if you need to do a foliar fungicide

application. In soybeans, look for frogeye leaf spot. This scouting should occur later in the summer, closer to pollination or the reproductive stages of corn and soybean plants. Farmers may want to use Aproach® or Aproach® Prima fungicide on their corn and soybeans to minimize any foliar diseases and maximize their yields.



Keith Niemeier
Sales Agronomist

WEEDS

Watch for weeds in both corn and soybeans

In both corn and soybeans, you need to regularly scout for weeds to make sure there are no escapes and that your soil residual herbicides worked. If there's an issue, you might have to go in and do a post application of herbicide after you see the stand establishment. Many farmers already plan for a two-pass program — putting some herbicide down early or at planting time, then coming back 4–5 weeks later with another application to layer the herbicides for total weed control for the season.

When it comes to specific weeds, tall waterhemp and Palmer amaranth are problematic, especially in the southern part of NuTech territory. They're becoming glyphosate resistant. But in most cases, the Enlist® weed control system has done a really good job on them, especially in soybeans with the combination of Liberty® herbicide and Enlist One® herbicide. In corn, with the introduction of Vorceed® Enlist® corn and PowerCore® Enlist® corn, farmers can use glufosinate to go after those resistant weeds.



Determine your ROI for treatments

With commodity prices lower than the last few years, farmers might have to rethink what they're growing and what treatments they're applying. As far as treatments, ask yourself, "Is it going to pay, or do I want to spend that money somewhere else?"

Have a question or need help scouting your acres? Reach out to your NuTech agronomist.

Corn Prices Shouldn't Shift Your Nitrogen Application Plan



With corn prices lower this year, farmers may wonder whether nitrogen inputs are worth the expense. NuTech Sales Agronomist Ryan Booton argues that they still are, and gives his best guidance for products and application.

“Even though corn prices are lower the last year or so, we don’t know what the future will bring,” Ryan says. “If corn prices rally during the season, I want growers going after the maximum number of bushels. I don’t want them to shave off units of nitrogen due to the current pricing, because we could have \$5 or \$6 corn going into harvest if we have a dry summer or an export opportunity. Many different factors could affect price. I want customers to do what’s needed to reach their maximum potential for that soil or that farm.” He cautions that if a farmer says, “I want to experiment with 20 more units of nitrogen,” this may not be the year to do that. But if their yield goal is 250-bushel corn, they’ll need fertilizer.

When it comes to nitrogen, correct application timing is important, and Ryan says that a split application usually

delivers the best results. It takes more time and careful management, but spreading nitrogen out two or three times during a plant’s life cycle increases uptake efficiency. In addition, it reduces the potential for runoff and nitrogen ending up in the water system. Ryan recommends a fall ammonia program, sidedress at the V3 to V5 growth stage, then possibly a third application ahead of pollination.

The first critical time for sidedress, whether in anhydrous ammonia form (NH₃) or in a 28% or 32% liquid solution, is between the V3 and V5 stages, when corn is determining length and kernel potential. The next critical timeframe is 7-10 days ahead of tasseling, just ahead of pollination, when farmers can do Y-drop liquid with a ground machine or capsulated urea using a broadcast spreader. If farmers are using a liquid

nitrogen solution, they can also consider adding sulfur or zinc to their sidedress application. These nutrients work well with the nitrogen solution to enhance root development and increase chlorophyll, helping with photosynthesis.

Another important nitrogen application period is post-harvest when growers can make a fall anhydrous ammonia application. Ryan says, “I’m a big fan of doing anhydrous ammonia post-harvest on bean stubble that’s going to corn the next year.” For corn-on-corn acres, though, he cautions that nitrogen can get tied up in the carbon residue in those fields.

Ryan recommends that customers do a tissue test to check nitrogen levels — their agronomist or fertilizer supplier can help. Tissue sample analysis will indicate levels for nitrogen and other nutrients and show any deficiencies. Ryan recommends sampling at V3 to V6 and doing another tissue test a week ahead of pollination.

What’s most important about timing, though, is making sure there’s not a nitrogen shortage in the first place. “Often when we see a plant lacking nitrogen, like seeing chlorosis of the older leaves, it’s usually too late in the season for recovery,” Ryan laments. “If we’re early, around V3 to V6, we can usually try to rescue it, but a nitrogen shortage is very difficult to recover from once we’ve reached pollination.” His advice is to make sure you have a nitrogen plan in place ahead of time so there’s plenty available for your corn crop when it needs it. Ryan says, “I’d rather be short on other nutrients than on nitrogen.”

As far as specific nitrogen products, Ryan recommends N-Serve® nitrogen stabilizer for fall and spring with anhydrous ammonia. “If we get a wet spring or a wet early summer, we can preserve the nitrogen that’s out there.” He likes Instinct® NXTGEN nitrogen stabilizer with a 32% solution to spray over the top to try and keep nitrogen protected to last longer. Lastly, he recommends Utrisha® N nitrogen efficiency optimizer close to and following pollination, about two weeks ahead of corn tasseling, to give it a boost of urea and protect it. Ryan also wants farmers to remember that their NuTech agronomist is available for advice if they have concerns on nitrogen inputs.

“Even though corn prices are lower the last year or so, we don’t know what the future will bring.”

– Ryan Booton



CHECK IT OUT

2 New Corn Trait Technologies Widely Available for 2025



Brad Johnson,
Lead Agronomist & Certified Crop Advisor

If you've attended one of our field days, read this magazine or talked to your NuTech sales rep, you know we've been eagerly awaiting the official addition of two new corn trait technologies to our lineup. We're excited to let you know that commercial quantities of Vorceed® Enlist® corn and PowerCore® Enlist® corn are now officially part of the NuTech Seed® brand product portfolio. Find featured hybrids in the 2025 *Seed Guide* starting on page 17.

Patience is a NuTech virtue

We've been talking about these trait technologies for a couple of years now, so what's taken so long to get them to you? Although we've been enthusiastic about the potential in these technologies, we wanted to make sure we had time to really vet them before offering them for wider sale. Some of you may be having an initial experience with Vorceed Enlist corn this year. We had two varieties available in limited quantities for 2024 planting. Our agronomy team is continuing to observe both Vorceed Enlist and PowerCore Enlist hybrids in test plots this year, but we're very confident these will perform at or above expectations.

Our 2025 lineup features a total of 23 brand-new genetic options across the two technologies, stretching from 97- to 114-day maturities. You'll also find these traits offered in some of our top-performing genetics that continue to be available with Qrome® and AcreMax® technology options. This gives you even more choices this year for product positioning and addressing pest pressure.

Exciting performance

Based on our observations in test plots these last few seasons, you can expect to see a yield bump of 3 bu/A-7 bu/A with these technologies. That's not hype. That's based on our research. This is a significant advantage in any year, but with market prices at less-than-stellar levels, driving additional yield becomes all the more important. The improvement in yield can be chalked up to a couple of factors. First, these technologies do the job at decreasing

insect and weed pressure so your corn can reach its full genetic potential. There's also no question that adding these technologies to proven top-performing genetics is making a good thing even better. A great example is 70F6Q™ BRAND. With Qrome technology, it's been a standout. But the Vorceed Enlist and PowerCore Enlist hybrids available for 2025 end a little drier in the fall, which boosts their yield.

As with all new technologies, selection and placement are vital to success. If you're interested in these traits, you'll want talk to your NuTech rep to determine the right fit for your acres, but, generally, we're recommending Vorceed Enlist hybrids for corn-on-corn acres, especially if you're experiencing high rootworm pressure. Both PowerCore Enlist corn and Vorceed Enlist corn are a great fit for those already planting Enlist E3® soybeans because you can use Enlist® herbicides on both crops. If you're not facing corn rootworm pressure, PowerCore Enlist corn is an excellent option for those looking for more herbicide tolerances and MOAs versus traditional above-ground products. We're seeing some excellent utility in reduced-till and no-till systems, too.

Both technologies will also be available in a single-bag integrated refuge solution — for the convenience we know you expect and rely on. Just fill the planter and go.

We can't wait for you to experience what these new technologies have to offer. Don't hesitate to reach out with any questions. We see 2025 as just the start of new opportunities in boosting yield, reducing resistance and maximizing flexibility with these new trait technologies.



<p>6 modes of action against pests</p> <ul style="list-style-type: none"> • 3 modes of action against below-ground pests, including corn rootworm • 3 modes of action against above-ground lepidopteran pests 	<p>4 herbicide tolerances</p> <ul style="list-style-type: none"> • 2,4-D choline in Enlist® herbicides • Glyphosate • Glufosinate • FOP herbicides* 	<p>Advanced RNAi technology</p> <ul style="list-style-type: none"> • 99% reduction in adult emergence of western and northern corn rootworms¹ • Proven to boost yield 3.5 bu/A yield advantage under moderate to high pressure vs. industry-standard protection² 	<p>Ideal for areas under high corn rootworm pressure</p> <p>and for areas facing emerging rootworm resistance</p>
<p>3 modes of action against above-ground lepidopteran pests</p> <ul style="list-style-type: none"> • European corn borer • Fall armyworm • Southwestern corn borer • Plus control of black cutworm 	<p>4 herbicide tolerances</p> <ul style="list-style-type: none"> • 2,4-D choline in Enlist® herbicides • Glyphosate • Glufosinate • FOP herbicides* 	<p>A pyramid of trait technology</p> <ul style="list-style-type: none"> • 3 proteins: Cry1A.105, Cry2Ab, Cry1F • Each protein offers a unique mode of action • Multiple modes of action delay insects developing resistance to Bt proteins 	<p>Ideal for areas with low rootworm pressure</p> <p>and for additional herbicide tolerances</p>

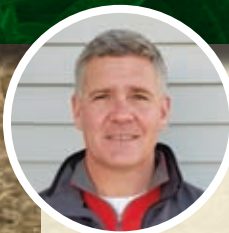
*Not all FOP herbicides are labeled for use in Bt corn products with the Enlist® trait. Before use, review the product label to ensure the product is labeled for use on Bt corn with the Enlist trait.

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 multilocation 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.

This Year's Pressures Shape Next Year's Planning



What happens in your fields this season can shape your planning for the next one. We sat down with NuTech Sales Agronomist Chris Adams to get his thoughts on

how this season's pressures can help you determine which products to consider for your fields in 2025, as well as how your agronomist can help with planning decisions.

Chris says that there are different schools of thought on how to make seed purchasing decisions. One is yield and profitability, where growers can benefit from NuTech's strong product portfolio. "We're pretty blessed to have a really good lineup in soybeans and corn," Chris says. The other approach takes into account agronomic factors such as insect resistance and other pressures.

MAKING CORN SELECTIONS

Chris is excited about the new Vorceed® Enlist® corn traits available for next year, especially when it comes to managing corn rootworm pressure in the northern part of NuTech territory. In 2023, agronomists began seeing an extended diapause in northern corn rootworm beetles. While traditionally a corn-soybean rotation would break the cycle of corn rootworm eggs hatching, Chris has begun to see a more widespread extended diapause and eggs surviving two years or more until the next corn rotation in a field. He recommends watching for corn rootworm pressure this year and running resistant traits like Vorceed Enlist products or Qrome® products in those fields next year. Talk to an agronomist if you need assistance with evaluating rootworm pressure in your fields.

Chris adds that both Vorceed Enlist corn and PowerCore® Enlist® corn offer advantages for corn-on-corn acres. With their tolerance to 2,4-D choline, Enlist® herbicides can be used for burndown situations or postemergence

applications. Plus, these varieties are tolerant to FOP herbicides,* so if you have replant needs, they give you the flexibility to come in and kill an existing stand that's not FOP-tolerant and be able to plant corn into it.

Another concern for Chris every year is tar spot. "I'm the boy who cried wolf," he says, "But one of these years we're going to get ideal cool, wet environmental conditions in July or early August when we're trying to fill that grain, and then tar spot's going to be pretty darn important!" He notes that NuTech has good tar spot tolerance ratings on our corn products, along with tolerances to other corn diseases — northern and gray leaf spot, northern corn leaf blight and more — so growers can look for the characteristics they need.

Chris says field management is important along with seed selection. "Look at the hybrids and plan where they are actually going to go," he advises. "Farmers usually know what field they're going to start in first, one that will dry out first. I like to get a hybrid with a good strong emergence score to plant first and do a precision placement." He also recommends AQUAmax® corn hybrids for lighter, drier soils that are prone to drought stress.

MAKING SOYBEAN SELECTIONS

When it comes to choosing soybean varieties, soybean cyst nematode is top of mind for Chris. It's the number-one yield robber in soybeans, costing U.S. farmers approximately 100 million bushels per year. But many growers don't know whether they have a nematode problem or not. Chris says, "You can't manage it if you don't measure it!"

In a dry year, nematode damage may be more noticeable, since damaged roots can't uptake water and nutrients properly. But in a year



"We're pretty blessed to have a really good lineup in soybeans and corn."

— Chris Adams

with more moisture, like this season, there may not be visual symptoms until a farmer digs up the root to look for pests. Chris recommends conducting a cyst count test from a soil sample. Your agronomist or extension service can help you send it to a lab to determine if you have eggs in the ground. Then you'll know whether to consider nematode-resistant varieties for 2025. If you do, we have a number of Peking varieties with good yield potential and nematode resistance. Or you might consider a seed treatment on a non-Peking variety to manage the pressure. And even if you have nematode pressure, Chris cautions that other factors, such as yield-limiting diseases like white mold, sudden death syndrome and brown stem rot, might be more important considerations when choosing varieties.

With an increase in early soybean planting happening each year, Chris recommends considering seed treatments. Early planting can increase the risk of early-season soybean diseases and pests, and seed treatments — like LumiTreo™ or Lumiant™ fungicide seed treatments or Phalanx™ insecticide seed treatment — could help growers get soybeans off to a good start and preserve yield.

For Chris, variety selection is critical. He says farmers should select products for the characteristics they need, and get help from an agronomist if they need guidance with that purchasing decision. He says it's about more than just yield. "I like to look at multiple locations across a wide geographic area and see what's doing well," Chris says. "That's what's going to have the best chance of producing on your farm, hybrids that have characteristics to match your farm versus something that did well in a trial in another region."

"Agronomists just want the best experience for our customers. We can work through your fields individually and match up the prescription placement: what should go where, what will excel. I love doing that — that's my job!" He notes that NuTech agronomists are always available to meet with a grower and sales rep to recommend a solid crop plan. "They don't need to go it alone," says Chris. "And if there are any questions, we'll find the answer."

* Not all FOP herbicides are labeled for use in Bt corn products with the Enlist® trait. Before use, review the product label to ensure the product is labeled for use on Bt corn with the Enlist trait.

Innovating to Improve Outcomes

Clint Luellen feels lucky to be able to farm alongside his father as he introduces new practices and technologies to their operation.

Younger farmers, like “millennials” born between 1981 and 1996, are implementing modern farming practices and new technologies that use data to improve planning, planting and outcomes.

Millennial farmer Clint Luellen, age 35, of Luellen Farms just west of Des Moines, Iowa, is a third-generation farmer — along with his two brothers, Austin and Ty — on the farm his grandparents started. The brothers farm with their dad, Tim, growing thousands of acres of row crops. They’ve been part of the NuTech family for a long time: Tim has bought seed from Mike Schaefer, his best friend, since Mike first started in the seed business.



Clint respects the hard work his dad and grandfather did to build their farm. “I think they were phenomenal stewards of the land,” Clint says. “My dad used to plow all the fields.” But he also recognizes that today’s technology and agronomy practices have improved farming in many ways.

Technology on the farm

Millennials are considered “digital natives,” which means they have grown up surrounded by technology, making them comfortable with integrating it into many parts of their lives. Millennial farmers, including Clint, have embraced a wide range of technologies for precision agriculture, including smartphone and mobile apps, drones, AI-driven machinery and more.

Clint has found adopting new technology to be a challenge since his dad isn’t really into it, coupled with the challenge of adapting new technology into old machinery. What Clint has done is prove to his dad that technology works and has a positive impact on the farm’s bottom line. One example was his senior project at Iowa State University. “We calculated row shutoffs on his farm,” Clint describes. “We proved to him that we were planting extra seed and spraying extra chemicals, then we calculated the ROI loss and how we could save money over the years.”

Today, Clint says they use AI or machine learning on every acre. They run multiple apps on their combines. “We have different operations that are calculating what we’re doing every second of the day, on our planter, on our sprayer, on our combines,” Clint says. “From the time we plant until the time we harvest, everything that we do gets mapped.”

He sees the greatest benefit from these technologies in prescription planting applications. “We’re overlaying our soil maps. And on rougher ground, we may only be planting 30,000 seeds per acre, while on good ground we may be up to 35,000 to 36,000 seeds per acre. So, we may be putting in the same amount of seed in from an ROI cost, but we’re



putting the seed where it needs to be in the field,” Clint says. He likes how technology can help him identify productive and unproductive areas, and says it helps them grow better crops more consistently.

Trying something new

But the biggest shift Clint sees from his dad’s generation to now is being less afraid to try new things on the farm. Luellen Farms now does a lot of trials. Clint says they always have at least 300 to 400 acres in plots to test cover crop and chemical programs, foliar-applied fertilizers and anhydrous nitrogen, seed population trials — anything they think could improve their practices in the future. Clint says the trials can be time consuming, and it’s possible that as many as 60% of them don’t work, but, he says, “At end of the day, we’ve learned a lot, and it helps us decide what to do for next year.”

Technology makes it easier to try something new, whether that’s planting practices, trying different varieties, population controls and checks and more. Clint says the hardest part is deciphering the data. “How do you digest all these maps?” he asks. “With today’s technology, you can overlay so many things. I can take a field that’s been planted at 34,000 seeds per acre and then I can put my prescription map on top of it and my yield map on top of that and then it can show where it was good and where it was bad.”

Preparing the next generation of farmers

Clint says that his generation finds it tough to get into farming. He knows he’s fortunate to be able to work on the family farm, but he still had to prove himself by working for a neighbor first. His advice to younger people who want to get into farming is to get out and meet older farmers. And he encourages the older



generation to give these younger folks a chance. “I think there are a lot of older farmers out there that would love to help a younger farmer, whether they’re related to them or not, and give them a chance versus selling or renting out their farms,” Clint says. “Give them a shot. Maybe hire them part-time just for harvest or after school.” He looks forward to being able to do that for younger farmers one day, and, even now, they allow lots of visitors to their farm. “Whether it’s our own family or kids from town, people are always coming out,” Clint says. “Most of them just want to ride or look at the combine. And that’s cool. It’s big, it’s bright. At the end of the day, you have to give those kids a chance.”

Clint also thinks it’s important for young people to get involved with agriculture early with programs like 4-H. His 8-year-old daughter has already been showing animals with 4-H for two years. He also wishes there were more agronomy programs in high schools to expose kids to the importance of farming even if they didn’t grow up on the land.

Clint hopes that his daughter and his year-and-a-half old son go into the family business. It’s a good bet, Clint says, since “My son’s first word was tractor!” Whether they become fourth-generation farmers or not, it seems pretty certain that with younger farmers like Clint in charge, the future of family farming is in good hands. He embodies the millennial farmer approach: Continuing the love of the land and the strong work ethic of previous generations, while being open to taking risks and exploring new technologies.

BRAND 70B4AM™ BRAND



“This product has incredible performance over our entire marketing area.”

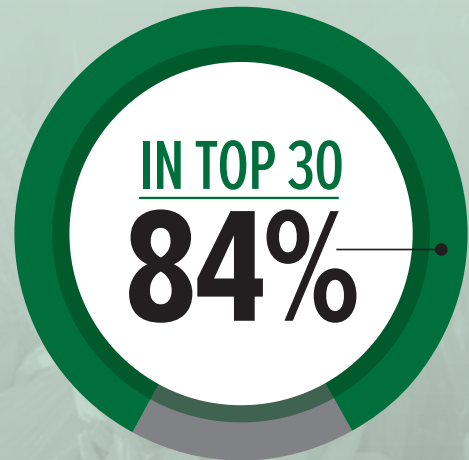
- Scott Davis, General Manager

- #2 Early Maturity State Summary in University of Kentucky hybrid corn performance test
- 2023: South district early test, 9th of 25 at 236.1 bu/A

F.I.R.S.T. DATA

RECORDS:
125

2023
AVERAGE YIELD:
242.4 bu/A



STATE AND MANAGEMENT PLOT DATA:

2ND PLACE

South district early 2-year mean

228.3 bu/A

1ST PLACE

Fehr Brothers Corn Plot 2023, Eureka, IL, third-party trial

254.2 bu/A

F.I.R.S.T. DATA

Site	Year	Region	Previous Crop	Tillage	Soil Texture	Plant Date	Yield	Gross Income Rank	Yield Advantage
Postville, IA	2023	NCTS	Soybeans	Minimum w/o fall till	Silt loam	5/10/23	340.0	7	17.2
Malta, IL	2023	ILNO	Soybeans	Minimum w/o fall till	Silt loam	5/4/23	317.2	4	17.5
Winnebago, IL	2023	ILNO	Soybeans	Minimum w/o fall till	Silt loam	5/11/23	316.7	2	28.5
Grand Ridge, IL	2022	ILNO	Soybeans	Conventional w/fall till	Silt loam	4/28/22	295.6	6	14.7
Maryville, MO	2022	MONO	Soybeans	No-till	Silty clay loam	4/22/22	295.4	2	13.6
Sublette, IL	2022	ILNO	Corn, 2+ yr	Conventional w/fall till	Silt loam	5/10/22	294.7	5	19.3
Grand Ridge, IL	2023	ILNO	Soybeans	Minimum w/fall till	Silt loam	4/28/23	292.7	6	20.4
Walnut, IL	2023	ILNO	Corn	Minimum w/fall till	Silty clay loam	5/3/23	291.0	10	18.1
Sully, IA	2023	IAEC	Soybeans	No-till	Silty clay loam	4/29/23	287.0	7	12.3
Cairo, MO	2022	MONO	Soybeans	Minimum w/o fall till	Silt loam	5/13/22	286.1	6	10.0

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.

™ * Trademarks of Corteva Agriscience and its affiliated companies. AM – Optimum® AcreMax® Insect Protection system with YGCB, HX1, LL, RR2. Contains a single-bag integrated refuge solution for above-ground insects. Roundup Ready® is a registered trademark of Bayer Group.

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BRAND 34N02E™ BRAND



“Amazing performance, unique Peking cyst protection!”

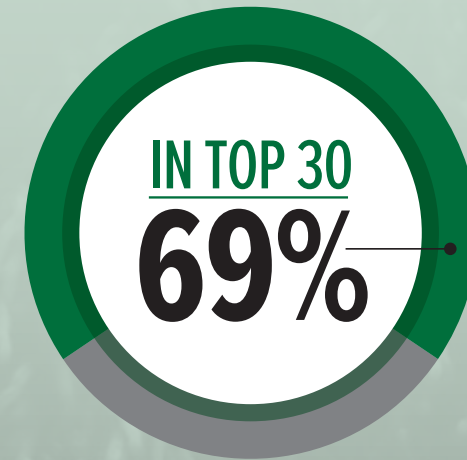
- Scott Davis, General Manager

- 2023: U of Illinois Region 3, 2-year average 70 bu/A
- 2023: South district full, 16th of 25 at 70 bu/A

F.I.R.S.T. DATA

RECORDS:
42

2023
AVERAGE YIELD:
71.7 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	Previous Crop	Tillage	Soil Texture	Plant Date	Yield	Gross Income Rank	Yield Advantage
Washington, IA	2022	IASO	Corn	No-till	Sandy clay loam	5/16/22	98.6	1	10.9
Henry, IL	2023	ILNC	Corn, 2+ yr	Minimum w/fall till	Silt loam	5/6/23	89.5	16	3.7
Macomb, IL	2022	ILNC	Corn	Conventional w/fall till	Silt loam	5/24/22	83.9	1	9.8
Tuscola, IL	2023	ILSC	Corn	Conventional w/fall till	Silty clay loam	5/17/23	82.2	6	4.4
Washington, IA	2023	IASO	Corn	No-till	Silty clay loam	5/2/23	81.8	14	1.2
Effingham, IL	2022	ILSO	Corn	Conventional w/fall till	Clay loam	5/16/22	81.4	1	14.0
Macomb, IL	2023	ILNC	Corn	Conventional w/fall till	Silt loam	5/18/23	76.9	5	7.0
Gridley, IL	2023	ILNC	Corn	Conventional w/fall till	Silt loam	5/6/23	76.4	30	1.4
Trenton, MO	2022	MONO	Corn, rye cover crop	No-till	Silt loam	5/12/22	74.0	14	0.4
Oakland, IA	2022	IASO	Corn	No-till	Sandy clay loam	5/22/22	72.9	12	3.0

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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INTERN ROUNDUP

Each summer, we're lucky to have some future agriculture stars join us as NuTech interns, helping our sales folks with customer relations and getting out in the fields for some real-world experience. Be sure to say hi to this year's crew if you see them around NuTech country this summer!



McKENZI YOUNG

Agronomy intern: Iowa, Illinois and Missouri

Iowa State University, agriculture business major

McKenzi shows horses around the country and is an active member of the Iowa State Block and Bridle Club, but that's not how she got the inside scoop on her NuTech internship. That came from her uncle, NuTech Lead Agronomist Brad Johnson. When McKenzie wasn't sure what part of the agriculture business she might be interested in, Uncle Brad suggested she try an internship to see the opportunities the industry has to offer, check out the agronomy side of the seed business and get a peek at what goes on at Midwest farms. She started in mid-March by delivering seed and knows that soon she'll be checking fields and inputting data. She's enjoying visiting different farms and talking to people, seeing how each farm is set up and its unique way of doing things.

McKenzi knows her internship will help her understand farmers' mindsets. "I want a well-rounded knowledge of agriculture, so that when I have a job, I'll understand how farmers think. If I don't know anything that goes on behind the scenes, I won't understand their point of view." We're certain that meeting farmers in her NuTech territory will help with that!



JOE TOMMINELLO

Agronomy intern: Northern Illinois Illinois State University, agronomy and agriculture business double major

Farming is big where Joe is from in Utica, Illinois, and his grandpa was a farmer before serving in the U.S. Navy and an industrial career. Still, it wasn't what Joe saw for his future, which is why last summer he was a business major interning at a bank ... something he calls the worst summer of his life. This summer, however, life is good! After finding that he loved working at ISU's research farm, Joe changed his major and is enjoying his NuTech internship. Soon, he'll be out in test plots checking for nitrogen or phosphorous deficiencies and identifying corn rootworm problems. He's looking forward to going from test plot to test plot taking notes and determining what can be fixed or what problems are occurring.

"I want to go into seed or crop protection sales, so getting all the knowledge I can will be beneficial to having a better understanding of what I'm selling. I'm really looking forward to being in the field getting hands-on experience, going on sales calls and learning how to talk to farmers."

When Joe isn't in school or working, he likes being outdoors, trap shooting and fishing on his friend's ranch.



DALE HORTIN

Agronomy intern: Central Illinois, Iowa and Kentucky

Richland Community College, agriculture business major

Dale comes from a farming family. Both of his grandfathers were farmers, as are two uncles. And he farms with his dad and brother, though it's cattle and hay, not the row crops he sees during his internship. Dale just finished his freshman year of college, so this is his first internship, but he's been a NuTech dealer since last fall. "I really fell in love with it, but there's not a whole lot going on in the summer when you're a dealer." So, when DSM Clint Gorden offered him this opportunity, he got excited. He says he's been learning a lot already, and is looking forward to more sales activities. "We'll be putting up field signs, meeting with customers, doing everything a salesman should do!"

Dale looks forward to learning what to look for when scouting a field and everything else Clint and RSM Travis Moser can teach him. "I'll definitely learn a lot of things that you wouldn't learn in class." So far, what Dale likes most is the people. "They're easy to get along with, they communicate really well and they're all willing to give me guidance."

Dale is looking forward to some summer concerts, especially the Tailgates and Talboys festival featuring Cody Johnson and Riley Green.



Spot the Difference ANSWERS



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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 counties, a 20% separate corn borer refuge must be planted with Optimum AcreMax products.

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IT'S A **GOOD** LIFE

At this point in the season, we hope you're enjoying looking out over your fields and seeing the crops thrive, hinting at the promise of a bountiful harvest. You have to admit, it's pretty great being a farmer. And all of us at NuTech Seed appreciate that you've chosen us to be a part of your life on the farm.

Here's wishing you a
successful season!



Success. Enjoyment. Family.