

# TheLife

Winter 2022

*by NuTech Seed*

## THE HARVEST

ISSUE



### 2022 HARVEST RESULTS

Check out the yields across NuTech country

### WHAT'S THE BIG DEAL ABOUT BIOLOGICALS?

Important questions we've been getting about this new category of products

### LIFE IS DELICIOUS

Recipes for a cozy night in

**NuTech**  
Seed®

# BRAND 70A8AM™



“Consistent top end yields with exceptional drydown. Plant this!”

- Brad Damery,  
General Manager

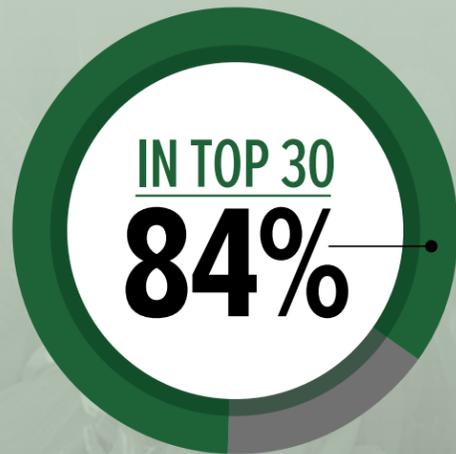
- #3 Early Hybrid in 3-year average in University of Kentucky Trials
- 2022: 23<sup>rd</sup> of 46 Central Full at 221.9 bu/a
- 2022: 4<sup>th</sup> of 46 Central Full, Ames, IA, location at 253.6 bu/a
- 2021-2022 2-year: 5<sup>th</sup> of 17 Central Full at 231.1 bu/a

## F.I.R.S.T. DATA

RECORDS:

135

2022  
AVERAGE YIELD:  
241.3 bu/a



## STATE AND MANAGEMENT PLOT DATA:

**RANKED 1ST**

Illinois West Central Early Summary (2021)

**265.9 bu/a**

**RANKED 1ST**

Illinois East Central Early Summary (2021)

**263.4 bu/a**

**2ND PLACE**

F.I.R.S.T. Mid North Central Trials (2022)

## F.I.R.S.T. DATA

Site	Year	Region	Previous Crop	Tillage	Soil Texture	Applied N (lbs)	Plant Date	Yield	Gross Income Rank	Yield Advantage
Virден, IL	2021	ILWC	Soybeans	Conventional w/ fall till	Silt loam	187	4/26/21	300.3	4	24.9
Macomb, IL	2020	ILWC	Soybeans	Minimum w/o fall till	Silt loam	179	4/23/20	297.9	4	29.1
Victor, IA	2021	IAEC	Soybeans	No-till	Silt loam	200	5/4/21	295.4	3	32.4
Postville, IA	2020	NCTS	Soybeans	Minimum w/o fall till	Silt loam	202	4/30/20	290.9	3	19.9
Washington, IA	2020	IAEC	Soybeans	No-till	Silty clay loam	196	4/27/20	288.5	1	45.7
Sublette, IL	2020	ILND	Corn	Conventional w/ fall till	Silt loam	276	4/21/20	288.4	1	41.8
Winnebago, IL	2020	ILND	Wheat	Conventional w/ fall till	Silt loam	233	4/28/20	287.8	1	28.8
Milledgeville, IL	2020	NCTS	Soybeans	Minimum w/o fall till	Silt loam	196	4/28/20	287.7	1	37.8
Iowa Falls, IA	2022	IANC	Soybeans	Conventional w/o fall till	Loam	165	5/13/22	287.1	9	12.7
Thomson, IL	2021	NCTS	Corn, 2+ yr	Conventional w/ fall till	Silt loam	218	4/24/21	286.3	1	42.8

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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## TO OUR READERS



As the hectic pace of harvest and fall operations offers us a chance to take a breath and reflect, we want to say thank you. Together, we have navigated through the challenges that faced our country and our business and we are all stronger and more resilient as a result. Maybe this is what the holidays are all about, the gift of a lesson we learned, what we modeled to the people around us as obstacle after obstacle was thrown at us. We produced a crop, we made another round, we found a way to see the corn today. And for that, we say thanks for letting us share that with you, and thanks for allowing us to share in the "gift."

Together, we have built a thriving and growing business. And just as you take great pride in your operation, our team has the same emotional tie to NuTech and the Lifestyle. Our focus on success, enjoyment and family is constant, but these things become even more meaningful as we celebrate the holidays.

We all have a memory of the harvest season, that field that was really good, that day we stopped and had a few moments of family time at lunch, or the day we went and helped a family in need, and they will all become a story. Something you share from the buddy seat with the "next" combine operator, or with your combine buddy seat date. That is why what we do is so special. Our lives and our farms are intertwined. Success, enjoyment and family, it happens on the farm as it happens at the breakfast table or the shop game of catch or as you rush to church Sunday morning.

Take some time this season to reflect on your accomplishments. Learn from both the success and the things you wish you could do a little differently. We will do the same at NuTech, and you can expect us to continue to grow and deliver results. The Lifestyle expects it, and our responsibility demands it.

We look forward to sharing in your success for 2023 and meeting even more Lifestyle enthusiasts.

**Happy holidays to you and your family.**

**Brad Damery**  
General Manager



# THE HARVEST

ISSUE

# TheLife

by NuTech Seed

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# What's happening at NuTech this season?



## WELCOME TO THE TEAM



**Logan Schweinefus** is a District Sales Manager Trainee. Logan is from a small town in northeast Iowa called Ossian. In 2020, he graduated undergrad from Upper Iowa with a degree in agricultural business and minors in agricultural sales and financial management. During his time at Upper Iowa, he played golf for the Peacocks and had a decorated career. In 2022, he graduated from Upper Iowa with a graduate degree in general management. Since graduating, Logan has been working at his family-owned grain elevator and farming with his dad. Logan is excited for this new venture with NuTech and looks forward to serving farmers.

**James (Jim) Jackson** recently joined NuTech as a District Sales Manager in southwest Indiana. Jim started his ag career working in the co-op system as a tender truck driver, eventually working his way up to plant manager and then company management in 2011. Always looking for the opportunity to grow and push himself, in 2015 he took a position as a District Sales Manager with Great Lakes Hybrids. After a seven-year career with AgReliant, Jim made the decision to broaden his horizons once more and is excited to start the next chapter of his life with NuTech Seed and Corteva Agrisciences. He is looking forward to working with the team at NuTech. When he's not out working with his customers, Jim enjoys hunting, fishing and traveling. Along the way, Jim and wife Kelly had two children, Jacob and Camilla, and adopted "kids" Roxy and Blue.



## Getting ready to get away!



We don't know about you, but as soon as the holidays are over and the winter chill really sets in, it sure feels like the right time to "vamos" to someplace warm. We're getting excited for the next NuTech Getaway in Puerto Vallarta, Mexico, February 20-25. We can't wait to reconnect with you and soak in the sun!



## WELCOME NEW DEALERS!

2021 & 2022

- Brian Hodgson, IA
- Phoenix Ag Inc, IA
- Caleb, Morgan, IA
- GBK Inc., IA
- Dolezal Farm Supply, Inc., IA
- Sawyer Seeds, IA
- Byers Seed Sales, IA
- Kendall Seed Supply, IA
- Thilges Seed, IA
- Laura Deornellas, IL
- Shawnee Seed Supply, IL
- CE Ag Solutions, IL
- Seed Solutions Inc, IL
- Keith D. Wetzell, IL
- Frontline Genetics, LLC, IL
- Skyler Pence, IL
- Hamilton Seed, IL
- CropTech Services LLC, IL

- S & G Ag Solutions, IL
- Ehler Brothers Seed, IL
- Yield Solutions, IL
- Earlybird Grain & Fertilizer, IL
- Advanced Ag Services, IL
- RVF Seed, LLC, IL
- Agrinetics Seed Services, LLC, IL
- Randall & Greg Briggs, IL
- Triple M Seeds, IL
- H & H Agri Business, Inc., KY
- Schmidt Seeds, MO
- CRC Ag LLC, MO
- Advanced Crop Essentials, MO
- Layne Hoff, MO
- Kurt Strauch, MO
- Northwest Ag Services, MO
- Russell Seed Company, TN



# Dealer Kick-off meetings

A big “thank you” to everyone who attended our summer dealer events at various Corteva Agriscience research stations. We had great attendance and the feedback we got tells us it was well worth the trip for those who joined.

These visits were a chance to learn more about the performance piece of the NuTech Lifestyle—up close and in person. We got to see where we stand today and where our product portfolio is headed tomorrow. (Spoiler alert: It’s going to get even better.) This was also a great opportunity to see how the broad research and development capabilities at Corteva, the expertise of your NuTech Seed team and the outstanding work of dealers all come together to bring a fantastic lineup to Central Corn Belt farmers.

We’re committed to continuing to invest in our dealer network, and we’re excited to see it grow. Watch for updates about future dealer events. We’ll look forward to seeing you there.



# FARM PROGRESS SHOW & VIP BBQ

Thanks to everyone who stopped by to see us at the Farm Progress Show this summer! It was great to see so many of our old friends and make plenty of new ones, introducing them to the NuTech Lifestyle.

We also had a fantastic time at our VIP BBQ event. We were happy to host about 100 guests throughout the evening, serving up some amazing steak sandwiches, sides, ice cream

and frosty beverages, perfect after a long summer day touring the show.



## TAKING A LOOK BACK AT A *rocking good time*

Has it already been a year since our last Getaway? Almost! What a great time we had at the Hard Rock Hotel & Casino in Punta Cana, Dominican Republic. The setting, food, friends and fun were unmatched. (Well, until this year’s trip, anyway!) Relive the experience at [NuTechSeed.com/Getaways](http://NuTechSeed.com/Getaways), where you’ll find photos of all the fun.





# Harvest word search

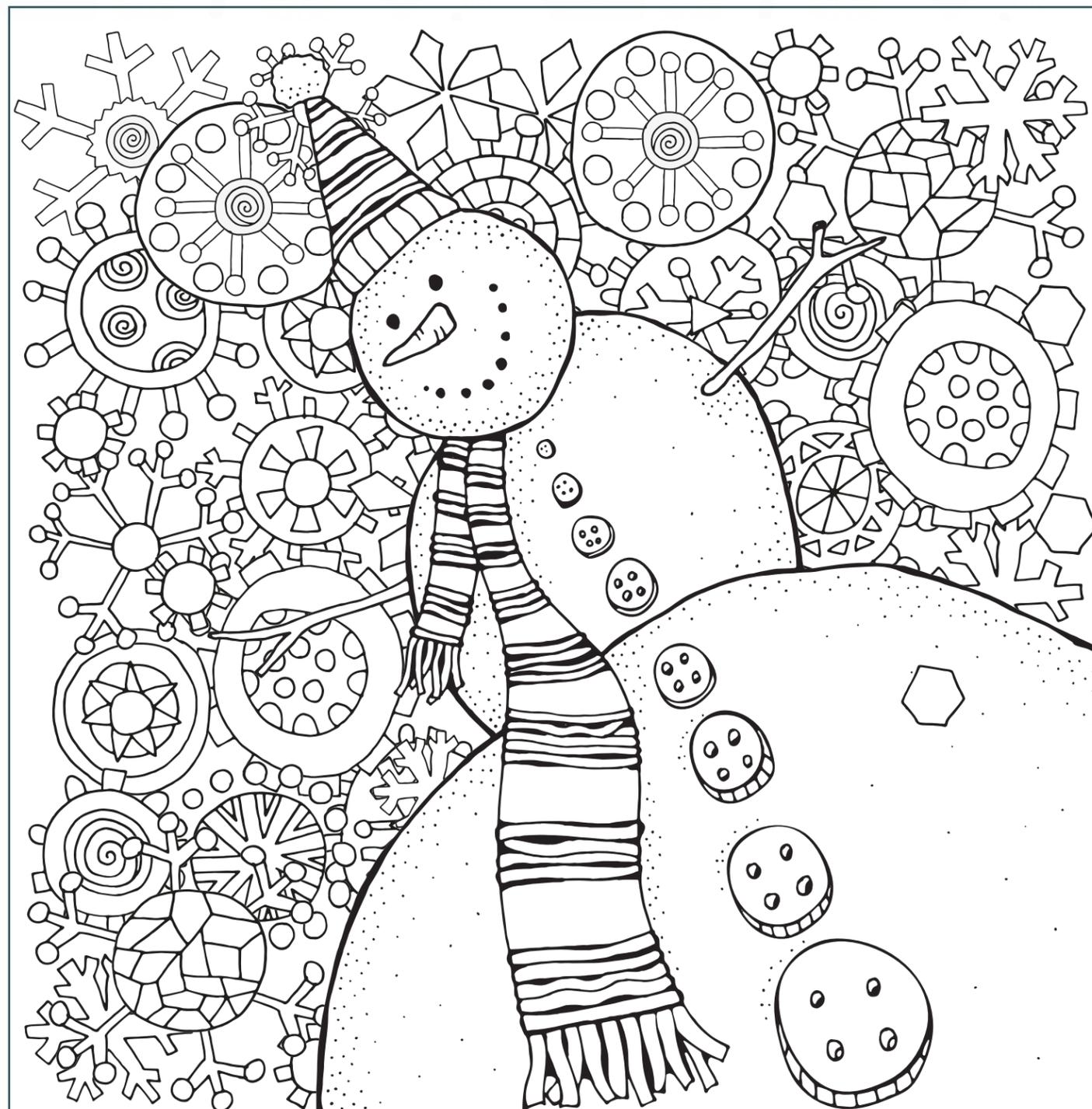
G G A B U N D A N C E I Y A F  
 Y W L W R Y H E D S Z J I A A  
 D S L J F V L I P Z Q I E T L  
 W S C Z F O R C H A R D L D M  
 H I B A P A C T F I E L D B A  
 A L V H R U R O R O Q S H A U  
 R O I P C E M M M A V D A L T  
 V L S D O E C P E B C N Y E U  
 E C E B R C M R K R I T S R M  
 S R A O N D I S O I V N O C N  
 T O S U D S R D I W N C E R T  
 E P O N G C X J A Y X C D X J  
 R S N T H A N K F U L X T D W  
 C V P Y W I F S O Y B E A N S  
 F R I P E F W U B U S H E L H



- |        |           |          |           |           |
|--------|-----------|----------|-----------|-----------|
| Farmer | Bushel    | Ripe     | Orchard   | Bounty    |
| Silo   | Harvester | Pumpkin  | Autumn    | Abundance |
| Crops  | Tractor   | Soybeans | Season    |           |
| Field  | Combine   | Corn     | Scarecrow |           |
| Yield  | Baler     | Hay      | Thankful  |           |



# Snowman coloring page



## It's a good night for *family dinner!*

Whether it's just the loved ones that live at your house or your friends and neighbors, too, these comfort foods are great for a cozy night in. These dishes can be made ahead to leave plenty of time for a movie, game or whatever makes family night fun.

### MAPLE APPLE SPICE CAKE

This apple cake is infused with all the spices of the season. It's generous enough for a small crowd, and tastes better after resting for several hours or overnight, so it's perfect to make ahead.

- 1 Tbsp ground cinnamon
- ½ tsp each ground cloves, ground ginger, ground allspice
- ¼ tsp ground nutmeg
- 2 ½ cups all-purpose flour
- ½ tsp baking powder
- ½ tsp baking soda
- ½ tsp salt
- ¾ cup granulated sugar
- ½ cup butter, softened
- ¾ cup pure maple syrup
- 2 Tbsp molasses
- 1 Tbsp vanilla extract
- 2 large eggs, room temperature
- 3 large egg yolks, room temperature
- 1 cup sour cream
- 2 Granny Smith apples, peeled and diced into roughly ¼-inch pieces
- ¾ cup walnuts, chopped (optional)

### CREAM CHEESE FROSTING

- 8 oz cream cheese, softened
- 6 Tbsp unsalted butter, room temperature
- 1 Tbsp sour cream
- 2 Tbsp pure maple syrup
- 1 tsp vanilla extract
- Dash of salt
- ½ tsp reserved spices
- 2 cups confectioners' sugar



Preheat oven to 350°. Line a 9x13 pan with parchment paper, extending it over the edges, and spray with nonstick cooking spray.

Mix cinnamon, ginger, cloves, allspice and nutmeg together in a large bowl. Remove ½ teaspoon for the frosting. In the same bowl, mix in flour, baking powder, baking soda and salt.

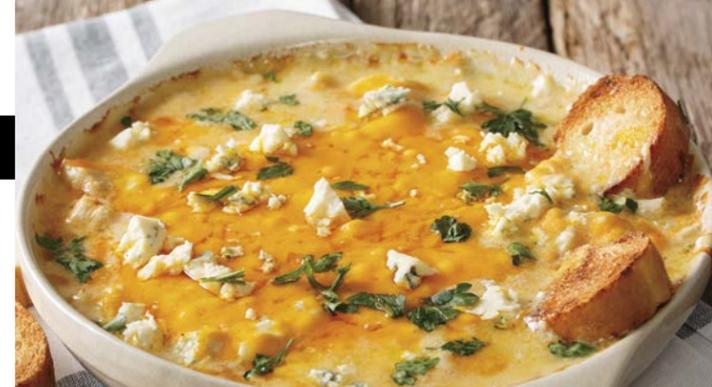
With a mixer, beat butter and sugar on medium-high speed until light and fluffy, about 4 minutes, scraping down sides as needed. With mixer running on medium speed, beat in maple syrup, molasses and vanilla until well combined, followed by eggs, then egg yolks, one at a time, beating just until the yolk disappears.

Gradually add flour mixture to butter/sugar mixture in thirds, alternating with sour cream, beating until just combined. Stir in apples and walnuts. Spoon batter into prepared pan.

Bake at 350° until a toothpick comes out clean, 35-40 minutes. Let cake cool in pan on wire rack, about 2 hours, before frosting.

**Frosting:** Using a mixer, beat cream cheese, butter, sour cream, maple syrup, vanilla, salt and reserved ½ teaspoon spices at medium-high speed until well combined. Add confectioners' sugar, ½ cup at a time, and beat until very fluffy, about 2 minutes. Add more maple syrup if frosting is too thick or more sugar if it's too thin to reach desired consistency. Evenly spread frosting over cake and sprinkle with chopped walnuts (optional).

Serve cake at room temperature.



### BUFFALO CHICKEN CASSEROLE

Hot and hearty, this family favorite has all the flavors of your favorite wings in one dish. This recipe serves 6, so make a second pan if you want to feed a larger crowd (or have leftovers!). It's a recipe that works well to make ahead and reheat to serve when you're ready.

- 12 oz uncooked penne or rotini pasta
- 4 Tbsp unsalted butter, divided
- 2 Tbsp all-purpose flour
- 2 cups half-and-half
- 12 oz sharp white cheddar cheese, shredded (about 3 cups), divided
- ½ cup buffalo-style hot sauce (such as Frank's RedHot)—add more to suit your family's heat tolerance!
- ½ cup sour cream
- 2 tsp Worcestershire sauce or steak sauce
- ¾ tsp kosher salt
- 3 cups shredded cooked chicken (about 1 lb)
- ½ cup finely chopped carrots (2 medium)
- ½ cup thinly sliced celery (2 stalks), plus celery leaves for garnish
- ¾ cup panko breadcrumbs
- 1-2 oz blue cheese, crumbled (about ¼-½ cup)—adjust to your family's preference, or omit if they're not fans!

Preheat oven to 375°. Coat a 9x13 baking dish with cooking spray. Cook pasta al dente in a large stockpot according to package directions. Drain, return to stockpot and set aside.

While pasta cooks, melt 2 tablespoons of butter in a large saucepan over medium heat. Add flour and cook, whisking constantly, until golden brown, about 1 minute. Gradually add half-and-half, whisking constantly and cook until mixture is thickened, about 3 minutes. Reduce heat to low. Gradually add 2 cups of the cheddar cheese, ½ cup at a time, stirring until melted and smooth. Remove from heat, whisk in hot sauce, sour cream, Worcestershire (or steak sauce) and salt. Pour sauce over drained pasta. Add chicken, carrots and celery and toss gently to combine. Spoon mixture into prepared baking dish.

Melt remaining 2 tablespoons butter. Stir together melted butter and panko in a small bowl. Sprinkle casserole evenly with remaining 1 cup cheddar cheese and panko mixture. Bake in preheated oven until casserole is golden brown and bubbly, 25 to 30 minutes. (If prepared ahead, reheat in 300° oven until bubbly.) Sprinkle evenly with blue cheese and garnish with celery leaves.

### BACON-WRAPPED SHRIMP WITH CHIMICHURRI SAUCE

While we love a good charcuterie board, you can't go wrong with a crowd-pleasing bacon-wrapped appetizer. Make plenty of this chimichurri sauce—it's great on all cuts of meat, from chicken to steak, as well on things like lettuce wraps or turkey burgers.

- 2 tsp smoked paprika
- 1 ½ tsp salt
- 1 tsp black pepper
- 1 tsp brown sugar
- 8 slices uncooked bacon
- 1 lb jumbo raw shrimp (thawed if frozen), peeled and deveined but with tails left on

### CHIMICHURRI SAUCE

- 1 bunch parsley
- ½ bunch cilantro
- 1 tsp salt
- ¼ tsp pepper
- 1 Tbsp Worcestershire sauce

Preheat oven to 450°.

Combine spice mix—paprika, salt, pepper, brown sugar—in small bowl and set aside.

Cut bacon slices into thirds. Pat shrimp dry. Place a metal rack on a foil-lined baking sheet and spray with non-stick cooking spray.

Sprinkle each shrimp liberally with the spice mixture, place it on the center of a strip of bacon, then wrap it around the center of the shrimp, stretching or securing with toothpicks if needed. Place the shrimp seam side down on the rack. Bake shrimp at 450° for 13-15 minutes.

In the meantime, make the chimichurri sauce. Add all chimichurri ingredients except oil to food processor and process until herbs are finely chopped. Slowly add olive oil and process until sauce is very smooth.

Transfer shrimp to serving platter with a small bowl of the chimichurri dipping sauce.



# 2022 HARVEST RESULTS

*The 2022 harvest is in, and it was a record year for many farmers in NuTech Seed country. Check out the 2022 Harvest Results section to see how well NuTech Seed corn and soybean products performed in F.I.R.S.T. Trials, harvest results from specific farms in our territory and insights on a successful season from our team.*

# 2022 was a strong year for yields

## Our team hits the highlights

The NuTech Seed team helped deliver another incredible performance year for our customers. Many farmers surpassed expectations with record yields, with customers delivering our highest farm yield and highest field average ever. The depth of our product portfolio was important, and we heard success stories about multiple products this season, like how 68A7AM™ BRAND, 70A8AM™ BRAND and 72D4AM™ BRAND performed well even in high-stress areas. It was exciting to get phone calls from the field from farmers who couldn't wait to share their yield success.

**Brad Johnson, Agronomy Lead, and Scott Davis, Warehouse/Supply Lead, offer their insights on the success of the 2022 season.**

**Q The Central Corn Belt had its share of challenges this season, with drought conditions in parts of Illinois and Kentucky. Still, in most cases, yields came in above expectations. Why?**

**A [Brad Johnson]:** Genetics have come a long way the last 10 years. The last stress year we had was 2012, and a lot of customers had set the expectations low based off that. It was nice to hear the excitement when a grower cut into a field of 70A8 expecting no more than 150 bushels of corn, but ending up averaging 200 or better. I believe this year truly proved how far we have come in genetic improvement and the plants' ability to adapt and persevere under stress.

**[Scott Davis]:** I believe that several factors helped our growers be successful this season. First would have to be the improvements we have made genetically over the past decade. The products seem to be healthier, more well rounded and with improved performance potential. This doesn't mean we'll never have failures again, but it did provide a solid foundation for the 2022 growing season. Some of the stress this season started with drought in the early and mid-growing season, which gave way to timely rains right at the key grain fill time. We were fortunate to not have the excessive heat during grain fill that has been associated with other severe droughts. We received rain just in time to initiate the grain fill process, or soybean flowering and pod fill, and then had reasonably mild conditions conducive to a long grain fill period. We even had additional rains, enough to help grain fill, but not enough to really fix the lack of moisture. Soybeans fundamentally don't need excessive moisture, as it can lead to disease. Healthy beans with moisture at the right time led to much better yields than expected, even record levels.

**Q Parts of western and northern Illinois, as well as eastern Iowa, have experienced some of the biggest crops ever this year. How did our products perform in that environment?**

**A [Brad Johnson]:** Areas across the NuTech footprint experienced the best yields they have ever seen. Several of our new hybrids really bring exceptional test weight and the ability to flex the kernel in depth. We refer to this kernel depth by calling them "shark's teeth" just due to the sheer size of the kernel. Mother Nature always plays the biggest role in crop production, but the high-yielding areas of the fields are running even higher than usual and, more importantly, we are able to get more consistency out of the lower-yielding areas that

10 years ago might have produced virtually nothing. Variable rate fertilizer, multiple applications of nitrogen and fungicide application all play a role in adding more consistency across the acre.

**[Scott Davis]:** Several factors contributed to yields that were good to exceptional. Much like the improvements in genetics protecting the downside, we also have incredible yield potential for top performance, too. The growing season had plenty of moisture in our regions. Our growers have become accustomed to utilizing fungicides to maximize plant health and protect yield potential. Tar spot in many regions was lower than last year, which helped to maintain the built-in yield potential. And a long grain fill period really maximized the yield potential of the growers that had nearly optimal growing conditions and moisture early.

**Q The Enlist E3® soybean program has flourished at NuTech, with a new generation of products being released this winter. How do you feel about the progress we are making with this platform?**

**A [Brad Johnson]:** We have some really exciting things happening in the Enlist E3 soybean lineup at NuTech. The biggest development is new proprietary genetics that are adding enhanced disease protection, more yield potential and better aesthetics, for really nice-looking plants that, in the fall, our growers will be proud to be harvesting. Still, don't get too attached to any variety, because the new lines are coming fast and they just keep getting better. It's going to be a fun ride with a lot of excitement in the field.

**[Scott Davis]:** The NuTech Enlist E3 portfolio continues to improve, and we'll keep offering the best products for our NuTech footprint that we possibly can. We're putting the finishing touches on our second straight mid-season product release. We are focusing on more well-rounded products that have solid yield potential but with improved agronomics. We're launching unique products with excellent potential, even replacing products that aren't that old since we have new ones ready to go.

**To learn more about NuTech's product lineup for 2023, visit [NuTechSeed.com/products/](https://www.NuTechSeed.com/products/).**

## BRAND 64B5Q™



**"Stress tolerance with BIG yield potential."**

- Brad Damery, General Manager

- 2022: 4<sup>th</sup> of 46 North District Full-season test at 228.8 bu/a; within LSD (0.25) of #1
- 2022: 9<sup>th</sup> of 40 Central District Early-season test at 223.0 bu/a
- 2021-2022 2-year: 3<sup>rd</sup> of 21 North District Full-season test at 228.9 bu/a
- 2021-2022 2-year: 1<sup>st</sup> of 19 Central District Early-season test at 230.7 bu/a



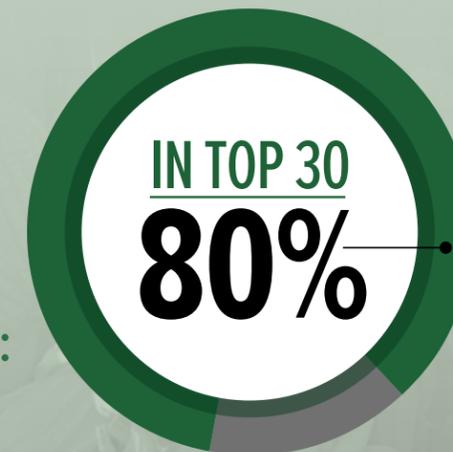
### F.I.R.S.T. DATA

RECORDS:

45

2022  
AVERAGE YIELD:

260.2 bu/a



### STATE AND MANAGEMENT PLOT DATA:

2ND PLACE

F.I.R.S.T. Northern Illinois Summary

101-106RM

1ST PLACE

F.I.R.S.T. Malta Trials

277.1 bu/a

### F.I.R.S.T. DATA

Site	Year	Region	Previous Crop	Tillage	Soil Texture	Applied N (lbs)	Plant Date	Yield	Gross Income Rank	Yield Advantage
Manchester, IA	2021	NCTS	Corn, 2+ yr	Conventional w/ fall till	Loam	200	4/25/21	304.8	1	50.3
Pearl City, IL	2022	NCTS	Soybeans	Minimum w/o fall till	Silt loam	253	5/11/22	290.3	1	32.2
Winnegabo, IL	2022	ILNO	Soybeans	Minimum w/o fall till	Silt loam	227	5/12/22	284.1	3	14.5
Grand Ridge, IL	2021	ILNO	Soybeans	Conventional w/ fall till	Silt loam	210	4/25/21	283.9	1	40.4
Sublette, IL	2021	ILNO	Corn, 2+ yr	Conventional w/ fall till	Silt loam	256	4/23/21	283.3	1	51.8
Kasson, MN	2021	MNSE	Soybeans	Conventional w/ fall till	Silt loam	190	5/2/21	280.4	8	21.2
Malta, IL	2022	ILNO	Soybeans	Minimum w/ fall till	Silt loam	208	5/11/22	277.1	3	18.9
Postville, IA	2022	NCTS	Soybeans	Minimum w/o fall till	Silt loam	220	5/16/22	276.5	15	4.6
Greene, IA	2021	IANC	Soybeans	Conventional w/o fall till	Loam	160	5/1/21	274.7	1	23.0
Iowa Falls, IA	2022	IANC	Soybeans	Conventional w/o fall till	Loam	165	5/13/22	273.5	17	11.6

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.

Agrisure® is a registered trademark of, and used under license from, a Syngenta Group Company. Agrisure® technology incorporated into these seeds is commercialized under a license from Syngenta Crop Protection AG. Roundup Ready® is a registered trademark used under license from Monsanto Company. Liberty®, LibertyLink® and the Water Droplet Design are trademarks of BASF. Q (Qrome®) - Contains a single-bag integrated refuge solution for above- and below-ground insects. The major component contains the Agrisure® RW trait, the Bt trait, and the Herculex® XTRA genes. In EPA-designated cotton growing counties, a 20% separate corn borer refuge must be planted with Qrome products. Qrome® products are approved for cultivation in the U.S. and Canada. They have also received approval in a number of importing countries, most recently China. For additional information about the status of regulatory authorizations, visit <http://www.biotradestatus.com>.

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# Harvest Results

Each harvest season, we ask NuTech farmers to share their harvest results straight from the field. Central Corn Belt growers saw strong yields, despite the summer drought in some parts of NuTech Seed country. These whiteboards show the success that farmers had from NuTech Seed corn and soybean products planted on their acres. Congratulations to all NuTech farmers on a successful 2022 harvest!



**Russell Farms**  
Tennessee  
72D4AM™ BRAND - 214.80 BU/A  
70B4AM™ BRAND - 204.40 BU/A  
74B6AM™ BRAND - 204.20 BU/A



**Montezuma FFA with TSR, Jason Meyer**



**Jones Farms**  
Princeton, KY  
77A5AM™ BRAND - 207.39 BU/A  
68A7AM™ BRAND - 205.56 BU/A  
74C4AM™ BRAND - 204.39 BU/A



**Sturgell Farms**  
77A5AM™ BRAND - 235.80 BU/A  
74A9AM™ BRAND - 231.76 BU/A  
72A8AM™ BRAND - 231.18 BU/A  
70B4AM™ BRAND - 230.28 BU/A



**Maloney Farms**  
Union City, TN  
74C4AM™ BRAND - 194.27 BU/A  
77A5AM™ BRAND - 192.91 BU/A  
72D4AM™ BRAND - 192.69 BU/A



**Oldham Farms**  
Princeton, KY  
72D4AM™ BRAND - 266.00 BU/A  
74C4AM™ BRAND - 255.00 BU/A  
74A9AM™ BRAND - 254.00 BU/A



**Marshall, IL**  
68A9AM™ BRAND 73A6Q™ BRAND  
68A7AM™ BRAND 74C4AM™ BRAND  
70B4AM™ BRAND 74B6AM™ BRAND  
70A8AM™ BRAND 77A5AM™ BRAND  
72D4AM™ BRAND

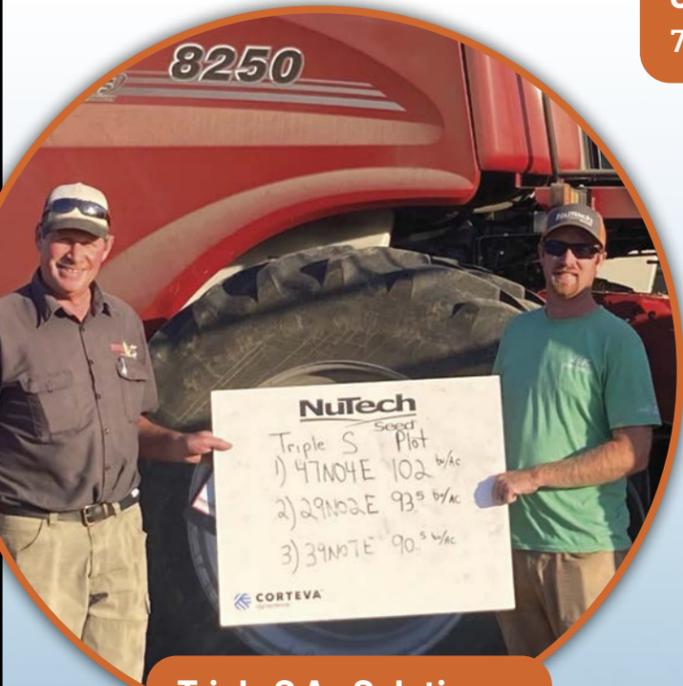


**Adam Anderson**  
70F6Q™ BRAND



**Phil Stojan**  
Maple Park, IL  
27N06E™ BRAND - 72.67 BU/A

BRAND  
**66C2Q™**



**Jeff Steftenagel**  
77A5AM™ BRAND - 262.00 BU/A



**Triple S Ag Solutions**  
47N04E™ BRAND - 102.00 BU/A  
29N02E™ BRAND - 93.50 BU/A  
39N07E™ BRAND - 90.50 BU/A

**Jeff Steftenagel**  
34N02E™ BRAND - 91.00 BU/A



**VanEssan Family**  
from Pella, IA



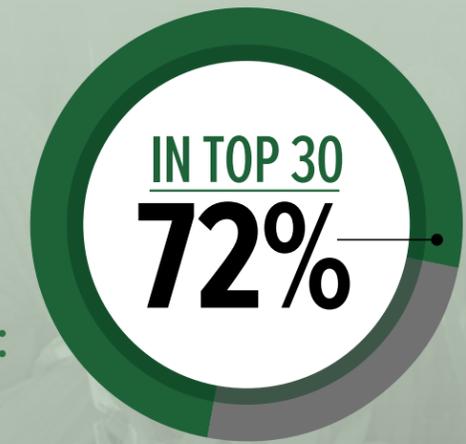
"Big yields with the security of root worm protection!"  
- Brad Damery, General Manager

- 2022: 2<sup>nd</sup> of 46 North District Full-season test at 230.4 bu/a
- 2022: 7<sup>th</sup> of 40 Central District Early-season test at 224.0 bu/a
- 2021-2022 2-year: 2<sup>nd</sup> of 21 North District Full-season test at 229.7 bu/a
- 2021-2022 2-year: 5<sup>th</sup> of 19 Central District Early-season test at 226.3 bu/a

F.I.R.S.T. DATA

RECORDS:  
**81**

2022  
AVERAGE YIELD:  
**259.2 bu/a**



STATE AND MANAGEMENT PLOT DATA:

**1ST PLACE**  
F.I.R.S.T. Northern Illinois Summary  
**101-106RM**

**1ST PLACE**  
North Central Illinois Strip Trials  
**273.9 bu/a**

**2ND PLACE**  
U of I Northern Region Trials  
**233 bu/a**

**2ND PLACE**  
F.I.R.S.T. Tri-State Summaries

F.I.R.S.T. DATA

Site	Year	Region	Previous Crop	Tillage	Soil Texture	Applied N (lbs)	Plant Date	Yield	Gross Income Rank	Yield Advantage
Winnebago, IL	2022	ILNO	Soybeans	Minimum w/o fall till	Silt loam	227	5/12/22	283.5	4	13.9
Sully, IA	2021	IAEC	Soybeans	No-till	Silty clay	145	5/2/21	282.7	3	14.2
Chadwick, IL	2022	NCTS	Corn, 2+ yr	Conventional w/ fall till	Silt loam	227	5/15/22	280.3	3	16.8
Pearl City, IL	2022	NCTS	Soybeans	Minimum w/o fall till	Silt loam	253	5/11/22	279.4	3	21.3
Grand Ridge, IL	2022	ILNO	Soybeans	Conventional w/ fall till	Silt loam	210	4/28/22	279.1	7	14.7
Iowa Falls, IA	2022	IANC	Soybeans	Conventional w/o fall till	Loam	165	5/13/22	278.4	12	16.5
Princeville, IL	2022	ILWC	Soybeans	Conventional w/ fall till	Silt loam	238	4/27/22	277.5	29	-5.5
Manchester, IA	2022	NCTS	Corn, 2+ yr	Conventional w/ fall till	Loam	200	5/16/22	276.8	3	21.6
Cannon Falls, MN	2021	MNSE	Soybeans	Conventional w/ fall till	Silt loam	150	5/3/21	273.0	8	30.9
Postville, IA	2022	NCTS	Soybeans	Minimum w/o fall till	Silt loam	220	5/16/22	271.9	26	0.0

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.

Agrisure® is a registered trademark of, and used under license from, a Syngenta Group Company. Agrisure® technology incorporated into these seeds is commercialized under a license from Syngenta Crop Protection AG. Roundup Ready® is a registered trademark used under license from Monsanto Company. Liberty®, LibertyLink® and the Water Droplet Design are trademarks of BASF. Q (Qrome®) - Contains a single-bag integrated refuge solution for above- and below-ground insects. The major component contains the Agrisure® RW trait, the Bt trait, and the Herculex® XTRA genes. In EPA-designated cotton growing counties, a 20% separate corn borer refuge must be planted with Qrome products. Qrome® products are approved for cultivation in the U.S. and Canada. They have also received approval in a number of importing countries, most recently China. For additional information about the status of regulatory authorizations, visit <http://www.biotradestatus.com>.

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## 2022 CORN F.I.R.S.T. TRIAL TOP 10 FINISHES

NUTECH BRAND	LOCATION	RANK	YIELD	TEST	RM
57A4AM™	IAND OSAGE, IA	1	276.7	ULTRA-EARLY	97
	IAND SUMMARY, IA	9	235.6	ULTRA-EARLY	97
	IAND EMMETSBURG, IA	10	288.7	ULTRA-EARLY	97
59A1AM™	IAND NEW HAMPTON, IA	1	255.8	ULTRA-EARLY	99
	IAND OSAGE, IA	2	269.3	ULTRA-EARLY	99
	IAND SUMMARY, IA	3	240.0	ULTRA-EARLY	99
	IAND HULL, IA	4	224.7	ULTRA-EARLY	99
60A2Q™	IAND PAULLINA, IA	4	181.8	ULTRA-EARLY	100
	IAND SUMMARY, IA	5	238.4	ULTRA-EARLY	100
	IAND EMMETSBURG, IA	6	292.0	ULTRA-EARLY	100
	IAND OSAGE, IA	9	257.6	ULTRA-EARLY	100
60A4AM™	IAND HULL, IA	3	227.8	ULTRA-EARLY	100
	IAND VENTURA, IA	7	257.2	ULTRA-EARLY	100
	IAND SUMMARY, IA	7	237.1	ULTRA-EARLY	100
	IAND NEW HAMPTON, IA	9	247.6	ULTRA-EARLY	100
64B5Q™	ILNO MALTA, IL	1	277.1	ULTRA-EARLY	104
	NCTS PEARL CITY, IL	1	290.3	EARLY	104
	ILNO SUMMARY, IL	2	256.5	ULTRA-EARLY	104
	ILNO WINNEBAGO, IL	4	284.1	EARLY	104
	ILNO WALNUT, IL	5	253.6	ULTRA-EARLY	104
	IANC GREENE, IA	5	262.5	EARLY	104
	ILNO SUBLETTE, IL	6	262.4	ULTRA-EARLY	104
64D1AM™	ILNO SUBLETTE, IL	7	258.4	ULTRA-EARLY	104
65B2Q™	ILNO DWIGHT, IL	6	198.5	EARLY	105
	ILNO GRAND RIDGE, IL	8	273.7	ULTRA-EARLY	105
66C2Q™	ILNO SUMMARY, IL	1	259.9	ULTRA-EARLY	106
	ILNO DWIGHT, IL	2	208.9	EARLY	106
	NCTS MANCHESTER, IA	2	276.8	EARLY	106

NUTECH BRAND	LOCATION	RANK	YIELD	TEST	RM
66C2Q™	NCTS PEARL CITY, IL	2	279.4	EARLY	106
	NCTS SUMMARY, IL	2	267.8	EARLY	106
	ILNO GRAND RIDGE, IL	3	279.1	ULTRA-EARLY	106
	ILNO WALNUT, IL	3	258.7	ULTRA-EARLY	106
	NCTS CHADWICK, IL	3	280.3	EARLY	106
	NCTS THOMSON, IL	5	253.2	EARLY	106
	ILNO WINNEBAGO, IL	5	283.5	EARLY	106
	ILNO MALTA, IL	6	271.6	ULTRA-EARLY	106
	ILNO SUBLETTE, IL	9	257.9	ULTRA-EARLY	106
	IANC SUMMARY, IA	9	257.4	EARLY	106
IANC OSAGE, IA	10	267.6	EARLY	106	
68A7AM™	IASO NEW LONDON, IA	1	275.0	EARLY	108
	IAEC WASHINGTON, IA	2	250.0	EARLY	108
	IAEC MUSCATINE, IA	2	277.9	EARLY	108
	IAEC SUMMARY, IA	2	264.1	EARLY	108
	ILEC WATSEKA, IL	4	276.9	EARLY	108
	ILWC PRINCEVILLE, IL	5	299.2	EARLY	108
	NCTS COBB, WI	5	245.6	FULL	108
	IASO CAMBRIA, IA	5	218.6	EARLY	108
	IASO SUMMARY, IA	5	223.2	EARLY	108
	INSO FRANCISCO, IN	6	257.3	EARLY	108
	ILWC GALVA, IL	6	281.4	EARLY	108
	ILWC SUMMARY, IL	6	275.6	EARLY	108
	IAEC VICTOR, IA	6	270.4	EARLY	108
	NCTS POSTVILLE, IA	6	278.8	FULL	108
IASO LINEVILLE, IA	6	232.4	EARLY	108	
IAEC SULLY, IA	7	275.6	EARLY	108	
NCTS PEARL CITY, IL	7	280.7	FULL	108	

## 2022 CORN F.I.R.S.T. TRIAL TOP 10 FINISHES

NUTECH BRAND	LOCATION	RANK	YIELD	TEST	RM
68A7AM™	ILWC WILLIAMSVILLE, IL	9	292.2	EARLY	108
	INSO CROTHERSVILLE, IN	9	218.6	EARLY	108
68A9AM™	NCTS THOMSON, IL	1	265.8	FULL	108
	ILWC GALVA, IL	1	290.2	EARLY	108
	NCTS MANCHESTER, IA	1	286.9	FULL	108
	NCTS SUMMARY, IL	1	273.5	FULL	108
	ILNO GRAND RIDGE, IL	2	299.3	EARLY	108
	ILWC PRINCEVILLE, IL	2	302.7	EARLY	108
	NCTS PEARL CITY, IL	2	288.8	FULL	108
	ILWC SUMMARY, IL	3	279.3	EARLY	108
	MONO ST. JOSEPH, MO	4	246.6	EARLY	108
	ILWC BERLIN, IL	4	266.0	EARLY	108
NCTS COBB, WI	4	246.5	FULL	108	
MONO CAIRO, MO	5	286.7	EARLY	108	
IASO BLOOMFIELD, IA	6	221.5	EARLY	108	
ILNO WALNUT, IL	6	272.8	EARLY	108	
IANC SUMMARY, IA	7	258.4	FULL	108	
MOCE SUMMARY, MO	8	227.8	EARLY	108	
NCTS CHADWICK, IL	8	285.9	FULL	108	
MOCE PORTAGE DES SIOUX, MO	9	244.7	EARLY	108	
ILSO BELLEVILLE, IL	9	233.6	EARLY	108	
ILSO SALEM, IL	10	222.6	EARLY	108	
ILWC VIRDEN, IL	10	281.7	EARLY	108	
IANC VENTURA, IA	10	247.9	FULL	108	
69B9Q™	ILWC GALVA, IL	3	286.5	EARLY	109
	ILWC MACOMB, IL	5	268.3	EARLY	109
	ILWC PRINCEVILLE, IL	6	295.7	EARLY	109
	NCTS MANCHESTER, IA	9	263.1	FULL	109

NUTECH BRAND	LOCATION	RANK	YIELD	TEST	RM	
69B9Q™	ILWC SUMMARY, IL	9	274.1	EARLY	109	
70A8AM™	IANC SUMMARY, IA	1	266.9	FULL	110	
	IANC VENTURA, IA	3	259.9	FULL	110	
	IANC WATERLOO, IA	3	273.4	FULL	110	
	IANC NEW HAMPTON, IA	6	268.1	FULL	110	
	IASO LINEVILLE, IA	7	230.8	EARLY	110	
	ILSO BELLEVILLE, IL	8	234.0	EARLY	110	
	IANC IOWA FALLS, IA	10	287.1	FULL	110	
	70B4AM™	IANC NEW HAMPTON, IA	1	272.8	FULL	110
		ILEC SUMMARY, IL	1	259.7	EARLY	110
		IAEC CENTRAL CITY, IA	1	284.0	EARLY	110
IASO FARRAGUT, IA		1	281.5	EARLY	110	
MOCE SUMMARY, MO		2	233.2	EARLY	110	
MONO ST. JOSEPH, MO		2	251.0	EARLY	110	
ILEC WATSEKA, IL		2	279.8	EARLY	110	
MONO MARYVILLE, MO		2	295.5	EARLY	110	
IASO BLOOMFIELD, IA		2	237.7	EARLY	110	
ILNO WALNUT, IL		2	281.0	EARLY	110	
INSO CROTHERSVILLE, IN	2	234.8	EARLY	110		
ILSO NASHVILLE, IL	3	233.1	EARLY	110		
NCTS COBB, WI	3	248.0	FULL	110		
IAEC SUMMARY, IA	3	261.8	EARLY	110		
IASO CAMBRIA, IA	3	223.9	EARLY	110		
IASO SUMMARY, IA	3	227.3	EARLY	110		
MOCE SWEET SPRING, MO	4	282.0	EARLY	110		
ILEC TOLUCA, IL	4	247.8	EARLY	110		
IANC OSAGE, IA	4	281.9	FULL	110		
IAEC VICTOR, IA	4	271.9	EARLY	110		

## 2022 CORN F.I.R.S.T. TRIAL TOP 10 FINISHES

NUTECH BRAND	LOCATION	RANK	YIELD	TEST	RM
70B4AM™	INSO RADCLIFF, KY	4	240.4	EARLY	110
	ILNO SUBLETTE, IL	5	294.7	EARLY	110
	ILEC PENFIELD, IL	5	247.1	EARLY	110
	MONO SUMMARY, MO	5	245.6	EARLY	110
	ILNO SUMMARY, IL	5	265.8	EARLY	110
	ILNO GRAND RIDGE, IL	6	295.6	EARLY	110
	MOCE PERRY, MO	6	231.6	EARLY	110
	INCE GREENSBURG, IN	6	227.7	EARLY	110
	ILEC GRIDLEY, IL	6	253.4	EARLY	110
	IAEC WASHINGTON, IA	7	242.6	EARLY	110
	MONO CAIRO, MO	7	286.2	EARLY	110
	INSO SUMMARY, IN	8	231.1	EARLY	110
	IAEC PALO, IA	9	263.5	EARLY	110
	ILEC TUSCOLA, IL	10	261.3	EARLY	110
	MONO GREENTOP, MO	10	181.0	EARLY	110
70F2Q™	IANC GREENE, IA	6	248.7	FULL	110
70F6Q™	ILWC PRINCEVILLE, IL	1	315.0	EARLY	110
	IAEC WASHINGTON, IA	1	256.6	EARLY	110
	IAEC MUSCATINE, IA	1	278.4	EARLY	110
	ILWC MACOMB, IL	1	274.0	EARLY	110
	ILNO WINNEBAGO, IL	1	280.1	FULL	110
	IASO LINEVILLE, IA	1	254.9	EARLY	110
	ILWC SUMMARY, IL	2	283.9	EARLY	110
	IASO NEW LONDON, IA	3	267.1	EARLY	110
	MONO SUMMARY, MO	3	247.5	EARLY	110
	IASO FARRAGUT, IA	3	262.9	EARLY	110
	ILWC GALVA, IL	4	284.3	EARLY	110

NUTECH BRAND	LOCATION	RANK	YIELD	TEST	RM
70F6Q™	MONO NOVELTY, MO	4	237.7	EARLY	110
	ILNO SUMMARY, IL	4	267.1	EARLY	110
	IASO SUMMARY, IA	4	224.1	EARLY	110
	ILNO WALNUT, IL	5	274.6	EARLY	110
	ILEC SUMMARY, IL	5	252.4	EARLY	110
	IAEC SUMMARY, IA	5	260.5	EARLY	110
	ILNO SUBLETTE, IL	6	293.0	EARLY	110
	NCTS PEARL CITY, IL	6	282.6	FULL	110
	NCTS SUMMARY, IL	6	265.2	FULL	110
	MONO MARYVILLE, MO	7	289.3	EARLY	110
	IANC NEW HAMPTON, IA	7	268.1	FULL	110
	ILWC BERLIN, IL	7	257.1	EARLY	110
	MONO GREENTOP, MO	7	185.6	EARLY	110
	NCTS POSTVILLE, IA	7	278.6	FULL	110
	INCE CONNERSVILLE, IN	8	210.6	EARLY	110
	MONO CAIRO, MO	8	284.4	EARLY	110
	ILEC TOLUCA, IL	8	234.8	EARLY	110
	IASO BLOOMFIELD, IA	9	217.8	EARLY	110
	ILWC VIRDEN, IL	9	282.5	EARLY	110
	IAEC SULLY, IA	9	263.1	EARLY	110
ILEC PENFIELD, IL	9	243.3	EARLY	110	
NCTS COBB, WI	9	240.5	FULL	110	
ILEC WATSEKA, IL	10	269.2	EARLY	110	
ILEC GRIDLEY, IL	10	250.4	EARLY	110	
72A5Q™	IASO CAMBRIA, IA	1	225.7	FULL	111
	ILEC TOLUCA, IL	2	255.1	FULL	111
	IASO LINEVILLE, IA	6	229.8	FULL	111

## 2022 CORN F.I.R.S.T. TRIAL TOP 10 FINISHES

NUTECH BRAND	LOCATION	RANK	YIELD	TEST	RM	
72A8AM™	MOCE MALTA BEND, MO	1	193.2	EARLY	112	
	IASO BLOOMFIELD, IA	1	228.3	FULL	112	
	MONO MARYVILLE, MO	6	289.5	EARLY	112	
	MONO GREENTOP, MO	6	188.0	EARLY	112	
	MONO SUMMARY, MO	7	244.1	EARLY	112	
	IASO FARRAGUT, IA	8	275.3	FULL	112	
	IASO LINEVILLE, IA	8	226.6	FULL	112	
	MONO NOVELTY, MO	10	230.0	EARLY	112	
	72B7Q™	ILEC TOLUCA, IL	6	248.2	FULL	112
		IAEC PALO, IA	8	254.8	FULL	112
72D4AM™	INSO FRANCISCO, IN	1	277.3	EARLY	112	
	MOCE SUMMARY, MO	1	238.0	EARLY	112	
	MOCE PORTAGE DES SIOUX, MO	1	269.1	EARLY	112	
	MOCE SWEET SPRING, MO	2	282.7	EARLY	112	
	ILSO SALEM, IL	5	224.9	EARLY	112	
	MONO MARYVILLE, MO	5	289.6	EARLY	112	
	INCE CONNERSVILLE, IN	6	213.9	FULL	112	
	IASO NEW LONDON, IA	8	263.4	FULL	112	
	INSO BLOOMFIELD, IN	9	226.9	EARLY	112	
	INSO SUMMARY, IN	9	230.8	EARLY	112	
72D4Q™	ILWC MACOMB, IL	7	251.7	FULL	112	
	ILNO WALNUT, IL	9	289.1	FULL	112	
73A6Q™	ILEC TOLUCA, IL	1	260.0	FULL	113	
	IAEC SULLY, IA	4	276.3	FULL	113	
	IASO CAMBRIA, IA	4	221.1	FULL	113	
	INSO CROTHERSVILLE, IN	4	226.1	EARLY	113	
	ILNO GRAND RIDGE, IL	5	289.9	FULL	113	

NUTECH BRAND	LOCATION	RANK	YIELD	TEST	RM
73A6Q™	MOCE PORTAGE DES SIOUX, MO	5	260.2	FULL	113
	ILEC WATSEKA, IL	5	290.0	FULL	113
	IASO BLOOMFIELD, IA	5	210.2	FULL	113
	ILWC GALVA, IL	6	287.9	FULL	113
	IAEC SUMMARY, IA	9	252.6	FULL	113
74A9AM™	INSO FRANCISCO, IN	4	249.2	FULL	114
	INSO MADISONVILLE, KY	5	233.4	FULL	114
	MOCE MALTA BEND, MO	10	181.7	FULL	114
74B6AM™	MOCE PORTAGE DES SIOUX, MO	6	255.4	FULL	114
	MONO MARYVILLE, MO	8	296.1	FULL	114
	MOCE SWEET SPRING, MO	9	253.0	FULL	114
74C4AM™	ILEC WATSEKA, IL	4	290.4	FULL	114
	INSO FRANCISCO, IN	6	247.4	FULL	114
	ILNO WALNUT, IL	7	290.8	FULL	114
	MONO GREENTOP, MO	7	197.0	FULL	114
	ILWC WILLIAMSVILLE, IL	8	299.2	FULL	114
	ILSO BELLEVILLE, IL	8	242.1	FULL	114
	MOCE PORTAGE DES SIOUX, MO	9	252.7	FULL	114
	ILSO SALEM, IL	9	226.0	FULL	114
	IAEC MUSCATINE, IA	10	263.0	FULL	114
	77A5AM™	MOCE PORTAGE DES SIOUX, MO	1	278.4	FULL
MONO MARYVILLE, MO		4	297.0	FULL	117
MOCE SUMMARY, MO		5	227.2	FULL	117
MONO NOVELTY, MO		6	242.6	FULL	117
INSO RADCLIFF, KY		8	251.2	FULL	117

## 2022 SOYBEAN F.I.R.S.T. TRIAL TOP 10 FINISHES

NUTECH BRAND	LOCATION	RANK	YIELD	TEST	RM
19N03E™	MNSO KASSON, MN	1	74.1	EARLY	1.9
	MNSO SUMMARY, MN	6	66.0	EARLY	1.9
21N07E™	MNSO KASSON, MN	6	69.7	FULL	2.1
	IANC WATERLOO, IA	7	73.0	EARLY	2.1
24N04E™	IANC IOWA FALLS, IA	8	72.5	EARLY	2.4
25N04E™	IASC CENTRAL CITY, IA	1	80.3	EARLY	2.5
	ILNO CHADWICK, IL	1	87.6	ALL	2.5
	ILNO SUMMARY, IL	1	80.6	ALL	2.5
	ILNO SENECA, IL	4	76.4	ALL	2.5
	IAND NEW HAMPTON, IA	5	66.4	FULL	2.5
	IASC SUMMARY, IA	7	77.0	EARLY	2.5
	ILNO DIXON, IL	7	79.9	ALL	2.5
	ILNO MALTA, IL	9	78.7	ALL	2.5
26N06E™	NCSL JANESVILLE, WI	6	58.6	ALL	2.6
	IANC LAURENS, IA	7	69.9	FULL	2.6
	IASO WASHINGTON, IA	8	86.7	EARLY	2.6
	ILNO DIXON, IL	9	79.7	ALL	2.6
27N03E™	IANC SUMMARY, IA	1	69.2	FULL	2.7
	IANC LAURENS, IA	2	72.8	FULL	2.7
	IASO OAKLAND, IA	2	74.8	EARLY	2.7
	NCSL MONROE, WI	2	64.3	ALL	2.7
	IASC NEVADA, IA	3	79.3	EARLY	2.7
	ILNO MALTA, IL	4	80.6	ALL	2.7
	IANCE IOWA FALLS, IA	6	71.9	FULL	2.7
	IASC HAMLIN, IA	10	77.2	EARLY	2.7
29N02E™	IANC WATERLOO, IA	1	75.6	FULL	2.9
	IASC NEVADA, IA	2	77.6	FULL	2.9
	IANC SUMMARY, IA	2	68.9	FULL	2.9
	ILNO CHADWICK, IL	2	87.1	ALL	2.9
	ILNO SUMMARY, IL	2	79.3	ALL	2.9
	IASO WINTERSSET, IA	3	56.4	EARLY	2.9
	IANC LAURENS, IA	4	70.9	FULL	2.9
	ILNC HENRY, IL	6	75.8	ALL	2.9

NUTECH BRAND	LOCATION	RANK	YIELD	TEST	RM
	NCSL WINNEBAGO, IL	7	78.9	ALL	2.9
	IASO CAMBRIA, IA	9	54.1	EARLY	2.9
	IANCE IOWA FALLS, IA	10	70.6	FULL	2.9
	ILNO DIXON, IL	10	79.6	ALL	2.9
30N05E™	IASC NEVADA, IA	3	76.6	FULL	3.0
31N06E™	ILNC MACOMB, IL	5	79.4	ALL	3.1
	IASO CAMBRIA, IA	9	57.2	FULL	3.1
34N02E™	ILSO EFFINGHAM, IL	1	81.4	ALL	3.4
	IASO WASHINGTON, IA	1	98.6	FULL	3.4
	ILNC MACOMB, IL	1	83.9	ALL	3.4
	ILSC TUSCOLA, IL	2	72.3	ALL	3.4
	ILSO SUMMARY, IL	2	62.8	ALL	3.4
	IASO SUMMARY, IA	3	72.2	FULL	3.4
	IASO CAMBRIA, IA	6	58.5	FULL	3.4
	ILNC SUMMARY, IL	9	72.8	ALL	3.4
35N03E™	ILSO NASHVILLE, IL	3	64.3	ALL	3.5
	ILNC SUMMARY, IL	4	74.3	ALL	3.5
	IASO WASHINGTON, IA	5	95.6	FULL	3.5
	ILNC DWIGHT, IL	6	69.5	ALL	3.5
	IASO SUMMARY, IA	7	70.4	FULL	3.5
	ILNC HENRY, IL	9	75.1	ALL	3.5
39N07E™	ILSC WILLIAMSVILLE, IL	1	79.0	ALL	3.9
	ILSC SUMMARY, IL	8	70.7	ALL	3.9
40N02E™	ILSC TUSCOLA, IL	4	70.4	ALL	4.0
	ILSC SUMMARY, IL	6	71.9	ALL	4.0
43N04E™	ILSO SUMMARY, IL	5	60.8	ALL	4.3
45N09E™	ILSO SUMMARY, IL	4	61.3	ALL	4.5
	ILSO NASHVILLE, IL	6	61.4	ALL	4.5
	ILSO EFFINGHAM, IL	8	73.9	ALL	4.5
47N04E™	ILSO FLORA, IL	10	49.8	ALL	4.7

# Have you seen the corn today?

Harvest season is one of the best times to really stop and see the corn. To take in—literally and figuratively—the abundance of this year’s harvest and consider how it contributes to the food chain as well as to your farm’s success. Harvest time has a way of putting everything into perspective and reminding us why we do what we do. Every day, every season, every year. We’re lucky to work in agriculture and to get to see the corn... today and every day.



# Technology & Agronomy

## News & Notes

The only constant in farming is change. There's a lot to keep up with here at NuTech and across the industry. In this section, we've gathered timely stories about new advances and useful agronomy updates. These stories come right from experts here at NuTech and Corteva Agriscience and are designed to help you think through your options this season and explore the possibilities that are around the corner.

## In this month's issue, we'll talk about:

**The Center for Seed Applied Technologies at Corteva:** Learn how seed treatments are developed and evaluated through the PASSER process.

**Biologicals:** What's the big deal about this new category of products and how well do they work? Plus, take a look at Utrisha™ N nutrient efficiency optimizer and Sosdia™ Stress abiotic stress mitigator, two products that should work well in NuTech territory.

**Supplemental nitrogen inputs:** Choose carefully and don't be too quick to reduce your regular fertilizer program.

**New seed treatment options for 2023:** Lumiscend™ Pro fungicide seed treatment is now a component of LumiGEN® seed treatment for corn, plus soybean treatments continue to evolve.

## TECHNOLOGY & AGRONOMY

# Corteva Agriscience seed treatment technologies: designed to enhance your success

Corteva Agriscience seed scientists are continually working to develop seed treatments to address the challenges growers face throughout each season. Their goal is to create seed treatments to help farmers "win the start" of their growing seasons and finish strong, producing healthy fields that deliver outstanding yields. They know that seed is often a farmer's biggest investment each season and seed treatments are vital to protecting it.

Product development begins at Corteva's Center for Seed Applied Technologies, or CSAT, which has locations around the world. Scientists screen potential seed treatment ingredients looking for characteristics or modes of action to meet farmers' needs. These scientists know seed and know what farmers want and need to meet challenges in their fields.

Each year, scientists evaluate hundreds of potential products to identify the best components and combinations for successful plantability, singulation, cold tolerance, early vigor and stand establishment, among other characteristics. By developing treatments like fungicides, insecticides and nematicides that are applied directly to the seed, scientists hope to reduce the need for farmers to use these types of products throughout the growing cycle.

CSAT facilities are specially designed to enable the comprehensive development and assessment of treatments that will complement seed technologies and genetics. Each location is an all-in-one facility, with a laboratory, testing center and seed treating plant. This allows scientists to research and evaluate the technologies in the lab, in greenhouses and in the field. Potential products are tested on more than 60,000 plots each year, as well as in the fields of real farmers throughout Corteva's testing network, allowing evaluation of treatments under real-world conditions.

Seed treatments developed in CSAT facilities undergo an exclusive PASSER process, a six-step evaluation that measures key performance factors and helps ensure that the seed treatments will meet rigorous usage requirements and deliver value to farmers. It also makes sure that Corteva seed treatments align with responsible farming practices and Corteva's corporate stewardship goals, such as reducing the amount of active ingredients farmers need to apply to fields and minimizing exposure to off-target species.

Scientists at Corteva have a deep understanding of farmers and their needs, along with a commitment to responsible, sustainable farming practices. This guides their development of advanced seed treatment products that help growers make the best use of their resources, meet challenges on their acres and help deliver strong yields, year after year.

## The PASSER Process

At CSAT locations, scientists follow a rigorous six-step process—called PASSER—which evaluates every formulation for:

### Plantability

Testing treatments using planting simulators to check seed drop and placement to maximize seed flow and planting precision.

### Application

Refining processes to help ensure changes in seed properties, such as size, shape, hybrid or variety, as well as environmental conditions, still allow consistent product application under a variety of conditions.

### Seed Safety

Ensuring there's no negative impact from seed treatments on seedling development and early vigor.

### Stewardship

Minimizing potential adverse effects on people and environment by making sure products fit with responsible farming practices.

### Efficacy

Evaluating protection performance and vigor to confirm that treatments complement seed genetics, perform in a variety of environments and work alongside other products.

### Regulatory

Working closely with regulatory agencies to verify that products meet regulations and guidelines to allow farmers full market access.



# WHAT'S THE BIG DEAL ABOUT BIOLOGICALS?

And other important questions we've been getting about this new category of products



You may be hearing a lot about new products for your fields that fall into the category of biologicals. There are a lot of questions around these products—most often: Do they really work as promised? That's one reason why we've been pleased to see Corteva Agriscience step into the biologicals market. Corteva is backing their biologicals products with good science and careful study, and that's making it easier for farmers to understand how these products work, when to use them and why they're worth trying.

## What are biologicals?

Terms like natural, biological and organic are sometimes used interchangeably, which can create a lot of confusion. A biological product consists of materials that already exist in nature. Biologicals can be living organisms or derived from living organisms or natural sources, like enzymes. Many biological products are approved for use in organic agriculture, but they also make excellent complements to conventional farming practices.

There are three main types of biological products:

- **Biostimulants** help plants do what they already do naturally. They enhance plant health and resilience while helping to maximize nutrition use.
- **Biocontrol** products manage pests and protect both crops and biodiversity. They can include insecticides, fungicides and nematicides.
- **Pheromones** influence insect behavior and protect crops from damaging pests. An example is a chemical signal that confuses insects and keeps them from mating.

## How are biologicals useful?

Biological products tend to work best as complements to other products. For example, using a bioinsecticide might allow you to use a smaller amount of a conventional insecticide in your field, or to apply the conventional product less often during the season. This not only enhances crop protection but can save resources.

## Do biologicals really work?

Biologicals are growing by leaps and bounds and experts estimate that by 2035, biologicals will make up 25% of the crop protection market. That demand is driven by the environmentally friendly profile of these products, which are attractive to farmers, regulators and consumers. But much like the world of vitamins and supplements for human health, there can be a lot of fuzzy science around biological products in agriculture. It's not always clear how biological products work, so it can be hard to determine if they're doing what they promised.

Corteva is bringing rigorous science to the biologicals market. Every product in the Biologicals Portfolio from Corteva is thoroughly tested, understood and proven to work. Corteva scientists examine how these products work in real-world environments and in conjunction with other products, such as conventional chemistry. If you choose a biological product from Corteva, you can have confidence in its quality and performance capabilities.

## What are some biological products that might work well in NuTech territory?

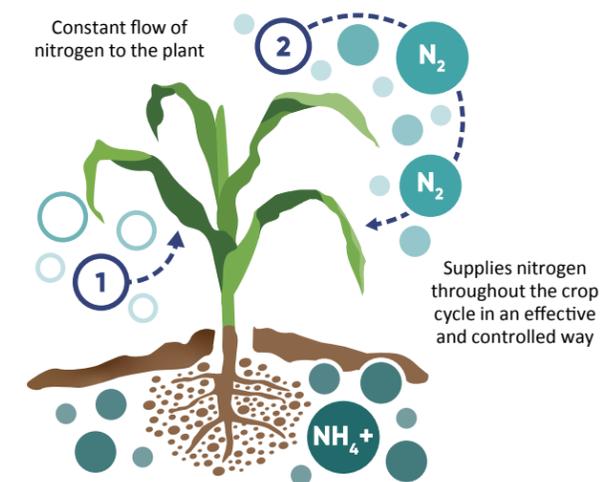
Corteva has recently introduced two biological products that we're particularly interested in here in the Central Corn Belt.

### Utrisha™ N

#### NUTRIENT EFFICIENCY OPTIMIZER

Utrisha™ N nutrient efficiency optimizer is a natural product that fixes nitrogen from the atmosphere and converts it to ammonium. This allows you to get more nitrogen into your plants without adding more to the soil—something that's especially welcome now given the rising price of fertilizer. The active ingredient in Utrisha N is a naturally occurring bacterium. Utrisha N is applied as a spray and makes a good companion to sidedress fertilizers and nitrogen stabilizers such as Instinct® nitrogen stabilizer. When used in this way, plants get both above- and below-ground sources of nitrogen. Utrisha N also has several approved tank-mix partners, making it easy to incorporate into existing management practices without adding a trip through the field. Utrisha N can be used in both corn and soybeans and has shown demonstrated yield benefits—as much as 8.2 bu/A in low-yield corn environments and 3.2 bu/A in soybeans.

#### How does it work?



#### Utrisha™ N nutrient efficiency optimizer

Fixes nitrogen from the air and converts it for the plant

- 1 Enters the plant through the stomata and gets into the leaf cells.
- 2 Converts N<sub>2</sub> from the air into ammonium resulting in a constant supply of amino acids to the plant

More information is available at [corteva.us/utrisha-N](http://corteva.us/utrisha-N).

### Sosdia™ Stress

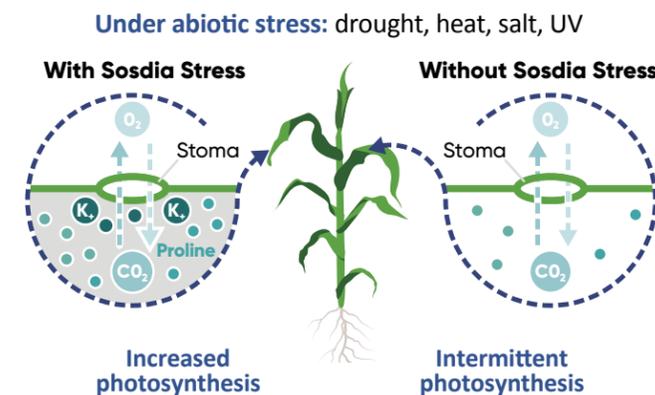
#### ABIOTIC STRESS MITIGATOR

Sosdia™ Stress abiotic stress mitigator helps plants thrive under water-related stress conditions. Sosdia Stress contains the natural amino acid proline and potassium, which help protect plant cells, reduce water loss and improve stomata function. That's a complicated way of saying that when water is limited, Sosdia Stress helps plants like corn and soybeans behave more like a cactus.

Osmolytes are a natural compound found in plants that helps neutralize a crop's reaction to abiotic stress, like lack of water. Sosdia Stress helps crops with lower osmolytes (like corn and soybeans) to react more similarly to crops with higher levels of osmolytes (like cacti). Sosdia Stress provides the right amount of proline for optimal stress protection, plus it can enhance plant health. Producing proline uses up nitrogen. With Sosdia Stress, plants can direct that nitrogen to growth instead of using it for a stress response. Like Utrisha N, Sosdia Stress is applied as a foliar spray and can be tank-mixed with other common products, making it convenient to use.

#### How does it work?

Sosdia™ Stress abiotic stress mitigator helps the plant remain focused on crop growth by protecting the plant proteins and cell membranes.



1. Reduces water vapor loss
2. Quicker recovery and continued growth
1. Excessive water lost due to a naturally leaky stomata
2. Intermittent growth
3. Naturally lower levels of glycine betaine, proline & K+

More information is available at [corteva.us/products-and-solutions/crop-protection/sosdia-stress.html](http://corteva.us/products-and-solutions/crop-protection/sosdia-stress.html)

## Should I consider biologicals on my farm?

As with any crop input, work closely with your crop protection consultant and NuTech agronomist to determine whether biological products make sense for your farm. If you're interested in maximizing your nitrogen input and protecting crops from drought stress, these two products may be good choices. No matter what biological products you consider, however, make sure they're backed by trusted science and data. It's important to understand how the product works and what you can expect to get out of it to ensure any biological product is adding value to your acres.

# Thinking about supplemental nitrogen inputs?



**RYAN BOOTON**  
NUTECH SALES  
AGRONOMIST,  
CERTIFIED CROP ADVISOR

Nitrogen is always one of the priciest inputs of the season, and although costs are leveling off, plenty of farmers across the Central Corn Belt are wondering if supplemental nitrogen inputs might make up for part of their typical fertilizer applications.

We took a closer look at three biological products for nitrogen supplementation. While each has its advantages, it's important to continue to think of these as add-ons—not replacements—in your current fertilizer program.

## Biological nitrogen supplement options

### PROVEN

- **Source:** Genetically modified bacteria
- **Application:** In-furrow
- **Formulation:** Liquid

PROVEN, from Pivot Bio, has been around for a few seasons now and it seems to do best in lighter soils. It does have a few drawbacks in terms of application. To apply this product, you'll need a planter set up with a liquid system. It can only be applied in-furrow and can't be used in a 2 x 2 application. You also need to be careful not to over-treat the seed, which can lead to burn. Shelf life is limited, so you'll want to plan your order and application carefully.

### Envita

- **Source:** Naturally occurring bacteria
- **Application:** In-furrow or foliar (V2-V3)
- **Formulation:** Liquid

Made by Azotic, Envita offers a little more flexibility, with foliar and in-furrow application, and it can be used in both corn and soybeans. It has a low use rate (3.2 oz/acre), which is nice if you're looking to minimize inputs while boosting yield. Like PROVEN, it requires liquid application equipment, and Envita has to be stored at controlled temperatures (39-46°F).

### Utrisha™ N nitrogen efficiency optimizer

- **Source:** Naturally occurring bacteria
- **Application:** Foliar (V4-V8)
- **Formulation:** Dry powder

Utrisha™ N nitrogen efficiency optimizer is the Corteva Agriscience entry in this field of products. It's a dry formulation, so it can be applied without special equipment. That formulation also lends it a longer shelf life—more than a year—at a wide range of temperatures. It also has a low use rate (5 oz/acre) and has been shown to work in a variety of soil types.

In studies at the University of Missouri in the 2020-21 season, all three products demonstrated improved yield, but it's best to think of this as an "above and beyond" yield boost, not the baseline you get from a solid fertilizer program. We continue to recommend putting your emphasis on leading nitrogen sources—NH<sub>3</sub>, UAN at 28-32% solutions and urea. Work closely with your retailer and agronomist to determine what makes the most sense based on your conditions and anticipated yield. In the right situation, a biological nitrogen product makes good sense. Just make sure you're using it with the recommended rates of standard fertilizer so you can get the most from your investment in seed and inputs.



By Chris Adams, NuTech  
Sales Agronomist/SAT Brand  
Lead, Certified Crop Advisor

# Seed treatment update

New options for the 2023 season

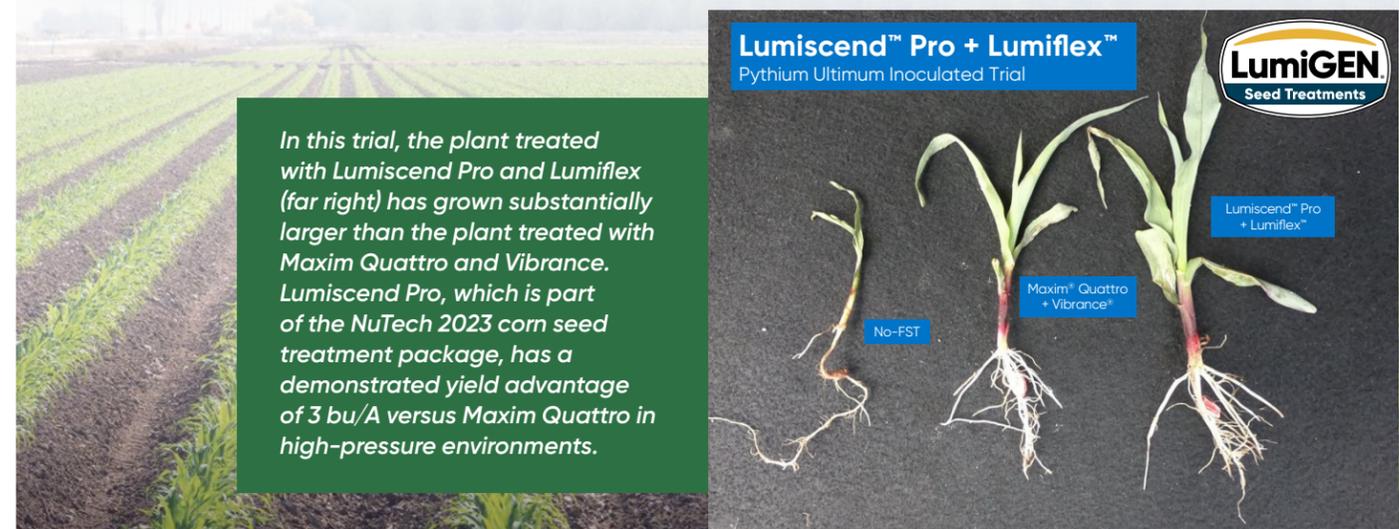
I'm really excited about what we have to offer in seed protection for corn and soybeans this year. Seed treatments are constantly changing, and Corteva Agriscience has really been on top of bringing out the latest and greatest to help get seed off to a strong start. Here's a quick overview of what's available to protect your NuTech seed in the coming year.

### Corn

The biggest change in our corn protection is the addition of new Lumiscend™ Pro fungicide seed treatment. This replaces Maxim Quattro and provides an additional mode of action against fusarium. It offers great protection against damping off diseases, and in field trials in tough environments, Lumiscend Pro demonstrated a 3 bu/A advantage versus Maxim Quattro. Even in low-pressure environments, there's still a yield benefit, so this is a solid addition to our seed protection package. Lumiscend Pro is a component of LumiGEN® seed treatments, which are available exclusively from Corteva Agriscience seed brands. LumiGEN seed treatment for corn includes Lumiflex™ fungicide seed treatment and L-2012 R, which were also part of last year's package. For insect protection, we continue to offer Lumisure™ and Lumivia™ insecticide seed treatments, and Lumialza™ nematocidal seed treatment is also still part of the package. If you're facing rootworm pressure, you'll want to consider our CRW seed treatment package.

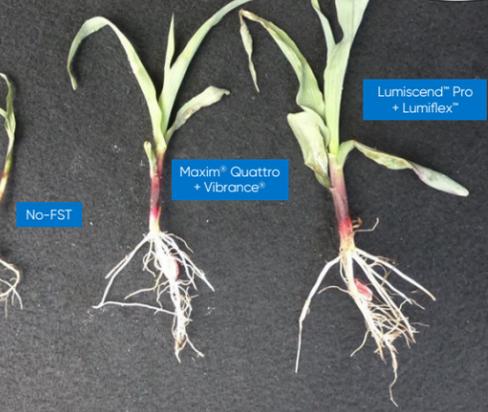
### Soybeans

We're continuing to offer the highly effective LumiGEN seed treatment for soybeans, which includes Lumisena® fungicide seed treatment for industry-leading protection against phytophthora. This is combined with ILEVO® for SCN and SDS protection. If you're planning to early-plant your soybeans, ask your downstream treater about adding Lumiderm® insecticide seed treatment. We're not currently offering this as part of the NuTech seed treatment package, but we've seen good results against wireworm, bean leaf beetle, seed corn maggot, early season aphids, cutworms, white grub and thrips. We've added one more mode of action for phytophthora to our SmartCote which is available downstream and also powered by Lumisena. Downstream treater can also benefit from a new dry down seed finisher, L-SF1, that's now available and improves drying time and flowability. In many ways, it feels like our work in seed treatments is just getting started, so I'm really looking forward to introducing ever-improving protection for your seed investment in the coming seasons.



In this trial, the plant treated with Lumiscend Pro and Lumiflex (far right) has grown substantially larger than the plant treated with Maxim Quattro and Vibrance. Lumiscend Pro, which is part of the NuTech 2023 corn seed treatment package, has a demonstrated yield advantage of 3 bu/A versus Maxim Quattro in high-pressure environments.

Lumiscend™ Pro + Lumiflex™  
Pythium Ultimum Inoculated Trial





# A product so good, it becomes part of the family

**70A8AM™<sup>BRAND</sup> from NuTech Seed**

- Impressive yield potential
- Consistent results on a variety of soil types
- Dependable performance across NuTech territory

Talk to your NuTech Representative about adding 70A8AM™<sup>BRAND</sup> to your family of products.  
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## BRAND 68A7AM™



“Best 107-109 in the industry.”

- Brad Damery, General Manager

- #1 Early Hybrid in 3-year average in University of Kentucky Trials
- #4 Early Hybrid in Wheat Tech’s Kentucky Trials (It was #3 in 2021 and #2 in 2020)
- #6 Hybrid at Henrietta location for University of Missouri at 233 bu/a. (5 bu off top, which was also NuTech brand corn and in 2021 same location 68A7AM™<sup>BRAND</sup> was #1 at a whopping 322 bu/a)

### F.I.R.S.T. DATA

RECORDS:

164

2022  
AVERAGE YIELD:

247.3 bu/a



### STATE AND MANAGEMENT PLOT DATA:

**2ND PLACE**

U of I East Central Region  
258 bu/a

**3RD PLACE**

U of I West Central Region  
252 bu/a

**4TH PLACE**

Heartland Bank and Trust

### F.I.R.S.T. DATA

Site	Year	Region	Previous Crop	Tillage	Soil Texture	Applied N (lbs)	Plant Date	Yield	Gross Income Rank	Yield Advantage
Victor, IA	2021	IAEC	Soybeans	No-till	Silt Loam	200	5/4/21	305.3	1	42.2
Macomb, IL	2020	ILWC	Soybeans	Minimum w/o fall till	Silt Loam	179	4/23/20	301.8	1	33.0
Princeville, IL	2022	ILWC	Soybeans	Conventional w/ fall till	Silt Loam	238	4/27/22	299.2	5	16.2
Muscatine, IA	2021	IAEC	Corn	Minimum w/o fall till	Silt Loam	200	4/28/21	297.4	4	27.6
Virdein, IL	2021	ILWC	Soybeans	Conventional w/ fall till	Silt Loam	187	4/26/21	297.2	5	21.8
Waterloo, IA	2021	IANC	Soybeans, Rye Cover Crop	No-till	Loam	160	5/1/21	295.9	1	25.4
Williamsville, IL	2022	ILWC	Soybeans	Conventional w/ fall till	Silt Loam	191	5/13/22	292.2	10	7.6
Greene, IA	2021	IANC	Soybeans	Conventional w/o fall till	Loam	160	5/1/21	286.2	5	18.5
Galva, IL	2022	ILWC	Soybeans	Strip-till	Silt Loam	205	5/2/22	281.4	7	13.6
Maryville, MO	2022	MONO	Soybeans	No-till	Silty Clay Loam	280	4/22/22	280.9	24	-0.9

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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# Harvest word search results

G G A B U N D A N C E I Y A F  
 Y W L W R Y H E D S Z J I A A  
 D S L J F V L I P Z Q I E T L  
 W S C Z F O R C H A R D L D M  
 H I B A P A C T F I E L D B A  
 A L V H R U R O R O Q S H A U  
 R O I P C E M M M A V D A L T  
 V L S D O E C P E B C N Y E U  
 E C E B R C M R K R I T S R M  
 S R A O N D I S O I V N O C N  
 T O S U D S R D I W N C E R T  
 E P O N G C X J A Y X C D X J  
 R S N T H A N K F U L X T D W  
 C V P Y W I F S O Y B E A N S  
 F R I P E F W U B U S H E L H



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

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

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

Sosdia™ Stress abiotic stress mitigator and Utrisha™ N nitrogen efficiency optimizer are not registered for sale or use in all states. Lumiderm® insecticide seed treatment and Lumisena® fungicide seed treatment may not be registered for sale or use in all states. Contact your state pesticide regulatory agency to determine if a product is registered for sale or use in your state. Always read and follow label directions.

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Here's  
hoping you  
have the  
**happiest**  
of  
**holidays.**

*All of us at NuTech Seed*  
are thankful every day for the  
chance to help you find success.  
We wish you and your family  
a holiday season filled with  
love and laughter and the very  
happiest of New Years.

**NuTech**  
Seed

Success. Enjoyment. Family.