



# NATIONAL CORN YIELD CONTEST

## 2014 Winners Guide

*Celebrating*  
the 50th anniversary  
of the corn yield contest

See special section inside.

NCGA's  
**BEST IN THE  
FIELD**

**INSIDE: Winners of the 2014 National Corn Growers  
Association National Corn Yield Contest**

## A Message From the President

In 2014, America's corn farmers used the best technology and the most innovative practices to exceed all expectations. Years of unfavorable weather conditions had dampened American corn farmers' ability to shine. But, with more propitious conditions across much of the Corn Belt, corn farmers had the opportunity to truly flourish. And flourish they did.

This harvest, the world witnessed the incredible bounty U.S. corn farmers can provide to meet the growing need for food, fuel and fiber both in our nation and around the world.

Breaking both the record for all-time production, at 14.2 billion bushels, and highest national average yield, at 171 bushels per acre, corn farmers set a new standard for excellence in corn production. At the same

time, participants in the National Corn Growers Association's (NCGA) National Corn Yield Contest showed what might be possible in the future.

This year, the contest broke an amazing boundary, recording the first-ever entry with a verified yield of more than 500 bushels per acre. Pushing the limits, the contest shows what is actually possible when America's farmers adopt state-of-the-art tools that help them meet their ever-increasing goals.

The achievements of both our contest entrants and of farmers across America serve as an undeniable testament to their prowess and the innovation of the industry that supports them.

On behalf of NCGA, I thank every entrant for being a part of the advancements that make these records possible. Each of you makes a concrete contribution to the pool of agronomic knowledge that allows farmers to meet the growing demands of a hungry world while preserving the natural resources upon which our families have depended for generations.

At the same time, we also offer our gratitude to three additional groups whose commitment makes this contest possible: the volunteer contest supervisors and the seed companies.

Our volunteer supervisors give so much of their time and energy each fall to ensure the contest's integrity, with some documenting dozens of yield checks. These crop advisers, extension personnel, government employees and financial professionals contribute to the agricultural industry through their hard work, providing a resource that truly makes the contest possible.

The seed companies also demonstrate enduring commitment to the National Corn Yield Contest. These companies recognize the robust competition inherent in the contest and appreciate that it provides an excellent showcase for the myriad new seed offerings. Only through their generosity has it been possible to maintain the rigorous standards that have caused the contest to not only grow but flourish for 50 years.

Finally, on behalf of NCGA, I thank BASF Corporation, John Deere and DuPont Pioneer. Their generous financial support makes this guide, along with the events and online media recognizing contest winners, possible. Moreover, their ongoing support of efforts to advance agriculture serves as a testament to their commitment to American farmers.

NCGA and all of its members heartily applaud the successes of the 2014 winners. Their stories, highlighted throughout the guide, provide valuable insight into innovative practices that will help our industry flourish in the years to come.

The character of America comes, in large part, from its agricultural roots. Farmers, by nature, must embody simultaneously optimism, dedication and innovation to succeed. Today, the men and women who constitute America's vibrant agricultural sector show how that spirit remains strong.

At NCGA, we promise to move forward with our mission to tirelessly work to grow and increase opportunities for American corn farmers as they grow a crop to meet growing global needs.



Chip Bowling, President  
National Corn Growers Association







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WITH THE  
GENETIC  
CODE  
TO MATCH  
YOUR  
ZIP CODE  
9

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NATIONAL  
CORN GROWERS  
ASSOCIATION

# Biotech Bounty

Ohio farmer John Linder knows from experience that biotech corn provides a helping hand to increase his yields. PHOTO: JODI MILLER

Genetically engineered hybrids are helping U.S. corn growers meet the ever-increasing global demand for grain.

**J**ohn Linder was an optimistic 30-year-old who had recently returned to the farm when the 1988 drought struck. It decimated his family's corn, along with 45% of the U.S. corn crop.

"That was not a fun time. I thought I should've stayed in the shop," recalls Linder, who worked as a mechanic in a local John Deere dealership prior to teaming up with his dad and brother on their central-Ohio farm, near Edison.

When the 2012 drought hit, it was déjà vu for many U.S. corn growers, including Linder's family. But Linder says he was amazed at how their corn resisted the ravages of heat and moisture stress that season. He attributes those differences between the 1988 and 2012 crops to the role biotechnology plays in hybrid development today.

"Never have American corn growers produced so much corn on so little ground as they did this [past] year," Linder says. "Biotechnology helped make it happen."

**RAPID ADOPTION.** U.S. farmers harvested a record 14.2 billion bushels of corn in 2014, according to the January World Agricultural Supply and Demand Estimates Report (the most recent WASDE report available as of this writing). Ninety percent of the crop was grown from genetically engineered (GE) hybrids. The widespread adoption of biotech-based seed has essentially rewritten the book on U.S. corn production since the first transgenic hybrids were introduced in 1996 to control European corn borer.

Linder, chairman of the National Corn Growers Association (NCGA) Trade Policy and

Biotechnology Action Team, likes to communicate a twofold message to organizations and individuals about corn. First, there are millions of hungry people here and abroad who need every kernel of corn U.S. farmers can produce—and then some. Second, biotech-based hybrids are an invaluable tool growers are using to meet the increasing global demands for food, fiber and fuel.

**FINDING ITS PLACE.** The strong performance of biotech seed has contributed to its increasing acceptance worldwide. Farmers in 17 countries, including five in the European Union, now plant bioengineered corn hybrids. In 2013, 32% of the world's corn acres (141.8 million acres) were biotech, explains Clive James, founder and chairman of the International Service for the Acquisition of Agri-biotech



Applications (ISAAA). In addition, James notes that of the 18 million farmers who grew biotech crops in 2013, including corn, “90% were small, resource-poor farmers in developing countries.”

PG Economics Ltd., a United Kingdom-based agricultural consultancy firm, reports that on a global basis, bioengineering “was responsible for an additional 231 million tonnes of corn [254.6 million U.S. tons]” between 1996 and 2012.

**DIFFERENT VIEWPOINTS.** Few things in the realm of agriculture have been discussed as vigorously as the development and use of GE crops. Linder experiences such debates about biotech corn on a regular basis. Last fall, he was the lone farmer to speak on behalf of agriculture at a hearing convened by the National Research Council (NRC) committee in Washington, D.C. The group, comprised of scientists, environmentalists and politicians, had gathered to discuss biotechnology. Specifically, their discussion centered around a study currently underway and expected to be completed in 2016 to determine the value of GE crops.

During the hearing’s public comment period, some members of the committee argued that biotech does little to improve yields. Rather, they said, the U.S. seed industry’s

## Plant Biotechnology Pipeline **Corn**

### LEGEND

Pest Management   Increased Yield   Nitrogen Utilization   Stress Tolerance   Crop Composition

EARLY DEVELOPMENT		ADVANCED DEVELOPMENT (NEXT 5-7 YEARS)	
Herbicide Tolerance	4 <sup>th</sup> -Generation Herbicide Tolerance (Monsanto)	Herbicide Tolerance	3 <sup>rd</sup> -Generation Herbicide Tolerance (Monsanto)
Herbicide Tolerance	Multiple Mode (DuPont Pioneer)	Herbicide Tolerance	Enlist™, 2,4-D & FOP (Dow AgroSciences)
Insect Resistance	4 <sup>th</sup> -Generation Below-Ground Insect Protection (Monsanto)	Insect Resistance	3 <sup>rd</sup> -Generation Above-Ground Insect Protection (Monsanto)
Insect Resistance	4 <sup>th</sup> -Generation Above-Ground Insect Protection (Monsanto)	Insect Resistance	SmartStax® PRO (Monsanto)
Insect Resistance	New Modes of Action Coleopteran III (DuPont Pioneer)	Insect Resistance	Optimum® Leptra™ (DuPont Pioneer)
Insect Resistance	New Modes of Action Lepidopteran III (DuPont Pioneer)	Insect Resistance	Lepidopteran/Coleopteran DP 4114 (DuPont Pioneer)
Insect Resistance	2 <sup>nd</sup> -Generation CRW (Syngenta)	Higher Yielding	(Monsanto, BASF)
Insect Resistance	Novel Insect Traits (Syngenta)	Updated June 2014  <b>PEST MANAGEMENT TRAITS</b> CRW = Corn Rootworm Enlist™ = Dow AgroSciences herbicide trait providing tolerance to 2,4-D and “FOP” herbicides  “Early Development” may include products in their research, discovery and proof of concept phases, as well as early product development.  “Advanced Development” products are in late stages of development and have an expected launch date within the next five to seven years, subject to regulatory approvals. Contact individual trait developers for timelines and estimated launch dates.	
Fungal Resistance	(BASF)		
Nitrogen Use Efficiency (DuPont Pioneer)			
Nitrogen Use Efficiency (Syngenta)		SOURCE: CROPLIFE INTERNATIONAL	
Stress Tolerance	Drought Tolerance II (DuPont Pioneer)		
Stress Tolerance	Yield & Stress Corn II (Monsanto, BASF)		
Stress Tolerance	Yield & Stress Corn III (Monsanto, BASF)		

advanced genetics are what enables corn plants to make optimal use of moisture, nutrients and sunlight to create high yields. Linder doesn’t disagree but says that argument is only half right.

“You can have the best genetics in the world and not achieve your yield goal if you can’t control the environment in which that plant thrives,” he counters.

**ON THE WAY.** Biotech traits work in sync with genetics to protect corn plants, enabling them to yield their full potential. Increasingly, GE hybrids contain stacked (multiple) traits designed to shrug off a number of above- and below-ground insect pests, along with a variety of grasses and broadleaf weeds. Second- and third-generation herbicide-tolerant and

insect-resistant traits are in the marketplace, with some fourth-generation traits on the way.

GE hybrids that improve the process of dry grind ethanol production reached farmers’ fields in 2012. The first hybrids with a drought-tolerant biotech trait were introduced in 2013 (hybrids with native traits for drought tolerance were introduced in 2012). In the near future, farmers can expect to see companies develop and market hybrids with transgenic traits that improve nitrogen utilization and perform better under various environmental stresses.

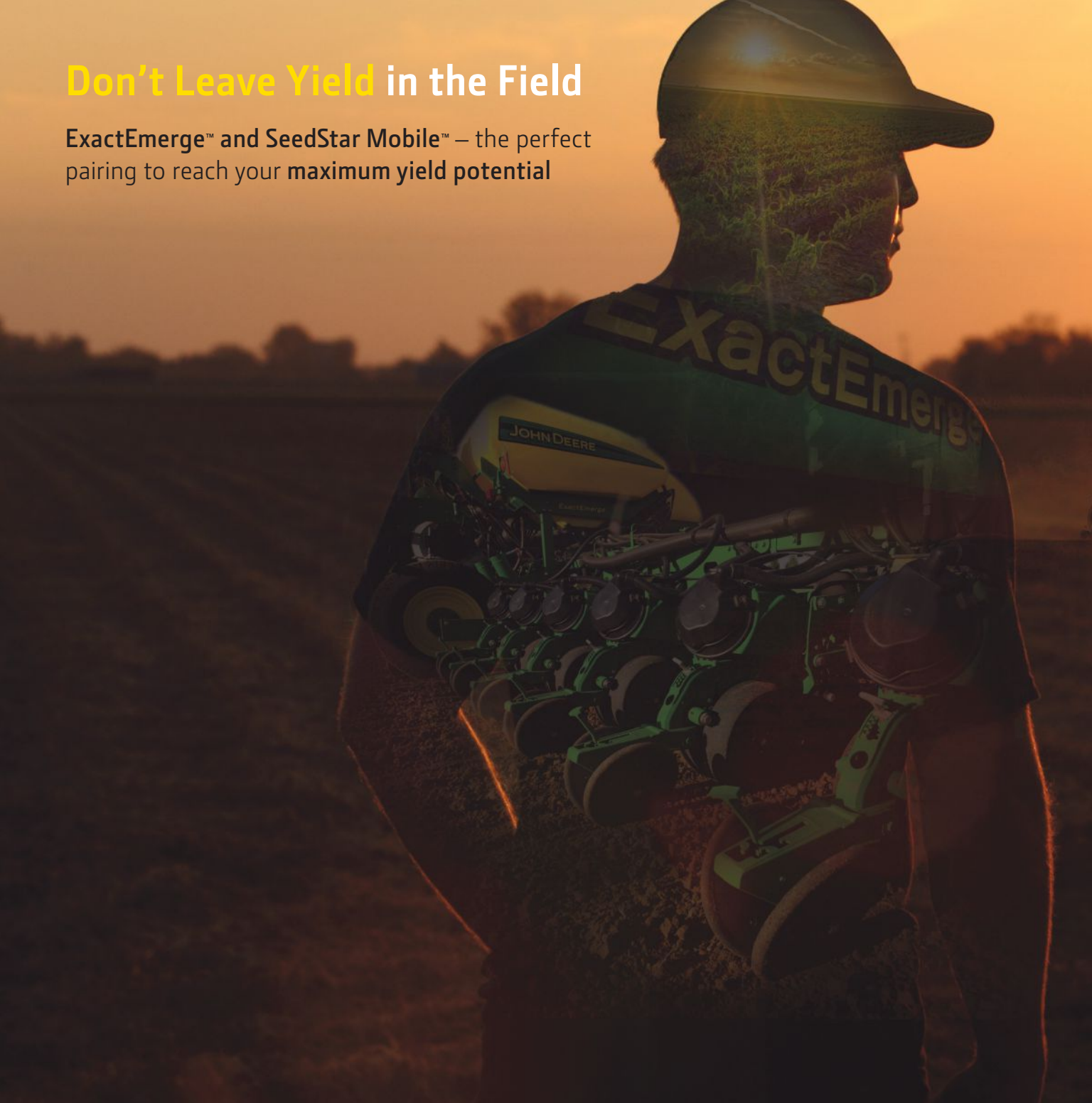
**STEWARDSHIP MATTERS.** Despite the advancement of biotechnology in the U.S., there are challenges with how corn traits are employed. Critics point to problems farmers have on an international basis with multiple herbicide-resistant weeds. Likewise, U.S. farmers are seeing corn rootworms in the North and fall armyworms in the South ►



Advances in traditional and transgenic corn breeding will help feed children in food-deficit countries such as Africa and elsewhere in the world. PHOTO: JIM PATRICO

# Don't Leave Yield in the Field

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ExactEmerge features an industry-exclusive BrushBelt™ delivery system to maintain consistent depth for even emergence. Together, the BrushBelt and the redesigned metering system give you superior

spacing to rid you of skips, doubles, or misplaced plants. Plus, two electric drive motors allow for infinite population settings within the seeding rate and provide precise control to deliver the target population you set. Don't overlook the 10-mph performance, which lets you cover more acres per day so you can stay within the optimum window and get the highest crop yield possible.

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in singulation to row unit wear, and more. The high-definition mapping lets you immediately monitor performance so you can operate in confidence. Best of all, SeedStar Mobile enables Remote Monitoring via MyJohnDeere Operations Center. When activated, you can tap into all of your critical data from your home office or in the field on a mobile device that will further improve your overall productivity.

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overcome the corn traits designed to control them. Such issues point to the continued need for farmers to employ sound, integrated pest-management practices (IPM) and for industry to support and reinforce those efforts.

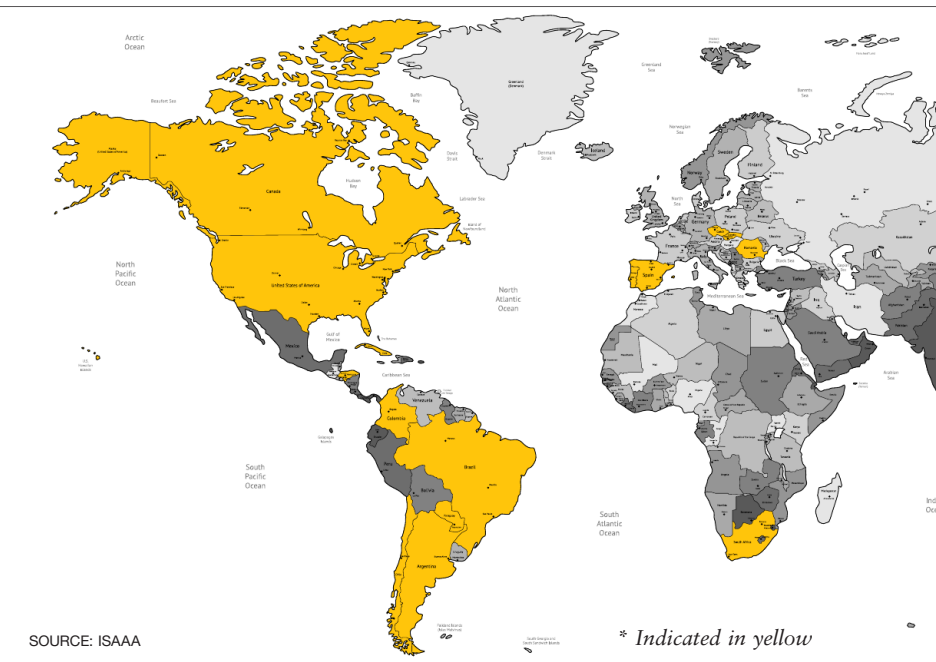
“Biotech crops are essential but are not a panacea. Adherence to good farming practices, such as rotations and resistance management, is a must for biotech crops as well as conventional crops,” says ISAAA’s James.

Planting corn hybrids without GE traits is one of the tools some U.S. farmers employ to address the stewardship issue.

“Farmers have every right to do that,” Linder notes. “If it works for them from a cost point to use non-GMOs, great. If it works from a premium standpoint, that’s better yet.” He adds his family produces only GE corn but does grow some nontraited soybeans for export.

“Biotechnology is able to coexist with non-GMOs,” he contends.

“Neighbors can work together to keep their crops pure with effective



**In 2014, GE corn was grown in 17 countries\*: Argentina, Brazil, Canada, Chile, Colombia, Cuba, Czech Republic, Honduras, Paraguay, the Philippines, Portugal, Romania, Slovakia, South Africa, Spain, United States and Uruguay.**

management and stewardship.”

In short, Linder says corn growers need to be able to use all the tools available to them to meet future demand. That perspective is reinforced by global population-growth estimates.

The Food and Agricultural Organization (FAO) says if the global population reaches 9.1 billion by 2050, as currently predicted, world food production will need to rise by 70%. Food production in the developing world will need to double.

**INDUSTRY INVESTMENT.** The issue of trade and traits is one Linder worries could stall industry’s continued investment in biotech corn research and development.

“We have to get [traits] on the market faster; otherwise, companies won’t be able to afford to develop them, and it will be an increased burden to production costs for growers,” he notes.

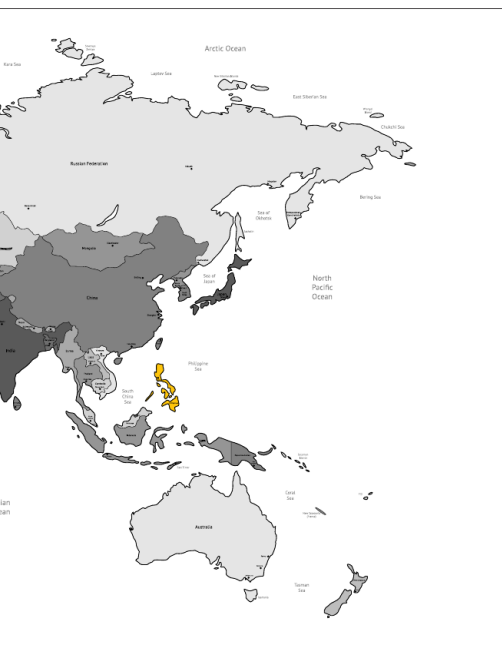
He says it takes roughly 13 years and an investment of \$130 million to move a corn trait from the early development stage to market launch. The formidable development costs were complicated further this past year by trade issues, most notably between China and the U.S.

China’s repeated decisions to



**U.S. farmers harvested a record 14.2 billion bushels of corn in 2014, 90% of which was biotech based. PHOTO: JIM PATRICO**





turn away U.S. corn in 2014 is one that he describes simply as “political.”

“Just the same, we have to respect that a nation’s sovereign right of choice—as to what they import—is not unlike the American farmers’ right to choose what goes in their planter,” Linder says.

In mid-December, China lifted an import ban on genetically modified corn shipments containing the Syngenta Agrisure Viptera trait (event MIR162). The import approval covers corn grain and processing byproducts, such as dried distillers grains (DDGs), for food and feed use.

**REGULATORY STATUS.** Linder tells farmers “as a matter of good stewardship” to stay abreast of trait news via the “Know Before You Grow” portion of the NCGA website ([www.ncga.com/for-farmers/know-before-you-grow](http://www.ncga.com/for-farmers/know-before-you-grow)). The site recommends several ways growers can use or market corn hybrids that haven’t achieved full approval from U.S. trading partners.

Along with that, Linder encourages farmers to read the NCGA policy manual to learn the association’s views on trade and traits. “After all,” he says, “the nations we trade with have read it and know it.” ●

## Mind Your Marketing Plan in 2015

Adam Howell was 10 years old in 1985, a year some people consider the apex of the farm crisis. Despite his young age, the financial struggles farmers experienced during that decade weren’t lost on him. Today, at 39, the Middletown, Ind., farmer says they have influenced his approach to corn marketing in a good way.

“We’re trying to pick up the pennies, dimes and nickels wherever we can with how we use storage, and we’re separating our basis decisions from our futures decisions,” Howell says. “We’ve always taken a conservative approach to marketing and are trying to control the things we can,” he adds.

That’s a good mindset to adopt for 2015, notes Aaron Smith, crop marketing specialist at the University of Tennessee.

“When you have a 2-billion-bushel crop carryover, given the sheer amount of bushels out there, that will limit potential price rallies unless there is a major event either overseas or something unforeseen happens with the 2015 crop,” Smith says.

Current corn-pricing forecasts for 2015 have agricultural economists predicting that many growers will operate below their break-even point this year. Smith offers several recommendations to help farmers achieve positive price results as they market their corn.

**DEVELOP A MARKETING PLAN.** It seems a given, but even today, not everyone puts a written plan together that they can evaluate in black and white. Smith tells growers to revisit their plans at least monthly to determine whether they’re tracking with it.

Along with that, he advises, “Know your limitations as a marketer, and avoid getting overly complex. At the same time, try to identify any tools, like forward pricing, that you can use.”

As farmers evaluate prices they want to lock in, Smith urges, “With 2014 production, I think if you can price in that top third anywhere near the \$4 range as you’re looking at March contracts, that’s a good place to start.”

At this point, in January, there are a lot of unknowns about the 2015 crop. Still, Smith says if farmers can get into the market somewhere in the \$4.20 to \$4.30 range, “that begins to offer a lot of producers the opportunity to lock in some profit. I wouldn’t get too aggressive with pricing the 2015 crop at this point in time, but locking in some of the crop is good,” he adds.

**CONSIDER SEASONAL IMPLICATIONS AND EVENTS.** One “biggie” Smith cites is the price determination period in February for crop insurance for corn, which is based on next December’s futures. He also tells growers to incorporate the new farm bill into their marketing plans.

“There’s definite interaction between commodity programs and some of the insurance products that are out there,” he says.

Between now and the time seed goes into the ground, look at price ratios between corn and soybeans. Other commodities bidding for those same acres need to be considered, too, in relation to the risks associated with the corn market.

**MAINTAIN WORKING CAPITAL.** There are a lot of projections that have prices going down or staying lower than what they’ve been the last few years. Keeping some resources readily available is necessary to allow you flexibility when making decisions. For that reason, Smith advises, “Having adequate levels of working capital is instrumental so you can take advantage of some opportunities as they’re presented.”

## First Place



PHOTO: TOM GRALISH

### HARRISON RIGDON Jarrettsville, MD

353.4438 bu./acre  
**Pioneer P1498AM1**  
Population: 37,000  
Harvester: **John Deere 9670 STS**

#### SUPERVISORS

**Christopher Prigge:** Soil Conservationist,  
Maryland Department of Agriculture

**Patricia Ann Hoopes:** Nutrient  
Management Adviser, University of  
Maryland Extension Service

The winner's circle is becoming familiar territory for the Rigdon family. Last year, Harrison captured third place in the A No-Till/Strip-Till Non-Irrigated Class with a yield of 296 bushels. In 2011, his dad, John, also notched a third-place award in that category.

Rigdon's 2014 contest entry got off to a late start. "We typically like to get started around May 1," he says. "But we had such a cold, wet spring. We didn't get this field planted until May 15."

Immediately after planting, the weather turned. "It warmed up, and things really took off. From then on, it was an almost ideal growing season, even better than last year."

Rigdon treated the seed with Amplify D and put a 5-15-15 starter into the furrow. "If you have cool weather at planting, the starter can help take some of the stress off the corn," he says, noting that 4 oz. of Capture LFR and 4 oz. of **Headline** also went into the row with the seed.

For his winning entry, he planted **Pioneer P1498AM1**. "Our seed dealer, Tom Martin, recommended it as a good variety for this particular ground. We've been using it for two years. It's a very healthy, tall variety that has done well for us."

At 37,000 seeds per acre, the planting population

for his contest entry was slightly higher than the 34,000 seeds per acre rate he goes with on most of his corn ground. "With our contest fields, we'll go a little bit higher—usually between 36,500 and 38,000 to see what works best. One of the reasons we enter the contest is to try to find products and practices that we can spread over all of our acres."

At planting, Rigdon worked at keeping his planting speed at 2.5 mph to eliminate doubles and skips in the row. He planted at a depth of 3 inches, a little deeper than many people in his area. "You end up with a better root system if you go deeper," he says.

Net result, Rigdon says, was an "almost picture-perfect" stand. "Getting the crop off to a good start is so important," he says. "If you don't do that, you'll be working from behind for the rest of the season."

## High-Yield Pathways

- ▶ Use a starter fertilizer to take stress off plants early.
- ▶ Match up the right soil with the right hybrid.
- ▶ Use contest acres to try new things.

## Second Place

### JUSTICE FAMILY FARM

Beckley, WV  
347.6758 bu./acre  
**DEKALB DKC64-69**  
Population: 30,500  
Harvester: **Claas Lexion 750**

#### SUPERVISORS

**John Thomas Davis Jr.:**  
Crop Insurance Agent,  
Self-employed

**Cindy Johnson:**  
Crop Insurance Agent,  
J.T. Davis Insurance Co.

Placing in the National Corn Yield Contest is a long-standing tradition for the father and son farming team of Jim and Jay Justice. They've been participating since the late 1970s and have recorded 10 national awards, including a first place in this class in 2011. This year, along with their second-place finish in this class, they also captured second place honors in the A No-Till/Strip-Till Non-Irrigated class.

Their contest field had been in grass pasture for almost a decade. "It seems like fields that have been in pasture for awhile always give us some of our best yields in the first year we plant them to corn," Jay says.

A key to successfully following pasture with corn is to get a complete weed kill prior to planting, he says. The Justices applied Roundup three weeks ahead of planting, then followed up with Gramoxone and 50 units of liquid nitrogen two weeks later. "The nitrogen adds a little fire," Jay says. "If you have any green grass in the field, it's tough to get the crop planted just right."

## Third Place

### RANDY DOWDY

Valdosta, GA  
341.8532 bu./acre  
**DEKALB DKC62-08**  
Population: 28,000  
Harvester: **John Deere 9600**

#### SUPERVISORS

**William "Hal" Darsey:**  
District Conservationist, NRCS

**William Garvie Nichols:**  
County Extension Agent,  
University of Georgia  
Extension Service

**Jake Price:** County  
Extension Agent, University  
of Georgia Extension Service

Weather was both a blessing and a curse for Randy Dowdy's entry in this class. He's convinced less-than-favorable conditions on both ends of the season led to at least some yield loss.

"The first 45 days were extremely wet, with more than 30 inches of rain. It put a lot of stress on plants and definitely affected the number of rows per ear," he says. "Later on, we had hot, humid weather and a disease explosion. I can't help but wonder what might have been."

The middle of the season was a different story. "From V10 through about R4 or R5 we had nearly ideal conditions," Dowdy explains. "We were cooler than normal during pollination, and we didn't have a lot of cloudy days. As a result, we were able to capture more kernels per row."

The weather twists and turns reinforced Dowdy's conviction about the importance of remaining prayerful. "My faith was definitely tested in the beginning of the year," he says. "But I relied on the good Lord to carry me through. I may have been the author, but He is always the finisher."



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# TOP THREE WINNERS BY CLASS

	Yield	Hybrid Brand/ No.	Traits	Seed Treatment	Harvest Population	Insecticide	Herbicide	Fungicide	N/P/K	Planter/ Harvester
<b>A NON-IRRIGATED</b>										
<b>ALABAMA</b>										
<b>Tate Farms (Steve Tate)</b> Meridianville, AL	260.9656	Pioneer P1636YHR	YGCB,HX1, LL,RR2	PPST 250 + Pentilex	32000	Mustang MAX	Atrazine 4L Halex GT Roundup PowerMax Sterling Blue	Quilt Xcel	200/50/50	John Deere Custom Made John Deere S680
<b>Howard Hobbs</b> Elkmont, AL	242.1718	DEKALB DKC65-19	VT3P	Amplify L+Kernal	29000	Karate	Halex GT Roundup Max	—	0/0/0	John Deere 1790 CCS John Deere S670
<b>Dee River Ranch</b> Aliceville, AL	186.9808	Terral Seed REV 28HR20	HX,LL,RR2	Poncho 250	31908	—	Atrazine 4L, Halex GT Leadoff Roundup PowerMax	—	400/30/40	John Deere 1720 CCS Stack-Fold John Deere S690
<b>ARKANSAS</b>										
<b>Drew Woolverton</b> Pollard, AR	262.9188	DEKALB DKC64-69	VT3P	Poncho 250	27000	—	Atrazine 90DG Callisto, Metalachlor Roundup PowerMax	—	185/0/0	John Deere 1720 Integral Stack-Fold John Deere 9760
<b>Scott Williamson</b> Eads, AR	255.4399	Pioneer P1637VYHR^	AVBL,YGCB, HX1,LL,RR2	Cruiser 250	30000	—	Atrazine 4L Halex GT	Quilt Xcel	235/60/60	Kinze 3600 John Deere 9770
<b>George Williamson</b> Mellwood, AR	254.3937	Pioneer P1883YHR	YGCB,HX1, LL,RR2	Cruiser 250	30000	—	Atrazine 4L Halex GT	Quilt Xcel	235/60/60	Kinze 3600 John Deere 9770
<b>COLORADO</b>										
<b>Bryan Hofmeister</b> Haxtun, CO	150.4154	Pioneer 35F37	RR2	None	13000	—	—	—	0/0/0	John Deere 1720 John Deere S670
<b>Sand Partners</b> Holyoke, CO	119.0005	Pioneer P9690AM™	AM,LL,RR2	Cruiser 250	15000	—	Atrazine 4L Powermax	—	70/30/30	John Deere 1720 Stack- Fold MaxEmerge Plus John Deere S670
<b>CONNECTICUT</b>										
<b>Cohen Farms</b> Ellington, CT	252.0024	Pioneer P1498AM™	AM,LL,RR2	PPST 250	33000	—	AAtrex NineO DF Showdown	—	250/50/150	John Deere 1750 Gleaner M2
<b>DELAWARE</b>										
<b>Jonathan Snow</b> Smyrna, DE	282.4963	Pioneer P1197AM™	AM,LL,RR2	PPST 250	34500	—	Durango Lexar	—	260/76/92	John Deere 1770NT John Deere S670
<b>Hudson Farms</b> Frankford, DE	269.7706	DEKALB DKC63-87RIB	VT2P/RIB	Poncho 250	39000	—	Harness Roundup PowerMax	—	300/0/200	Kinze 3500 John Deere 9770 STS
<b>Dale Scuse</b> Smyrna, DE	265.4487	Pioneer P1105AM™	AM,LL,RR2	PPST 250	32000	—	—	—	0/0/0	Case IH 1250 Front-Fold Early Riser Case IH Axial-Flow 5088
<b>FLORIDA</b>										
<b>Rockin R Farms</b> Ochlocknee, FL	206.7972	Pioneer P1690YHR	YGCB,HX1, LL,RR2	Poncho 250	26200	Silencer	Expert	Headline AMP	230/70/230	Monosem NG Plus 3 Case IH 1660
<b>M C McLeod Farms</b> Valdosta, FL	185.7486	Pioneer P1690YHR	YGCB,HX1, LL,RR2	Poncho 1250	25400	Silencer	Expert	Headline AMP Quilt Xcel	180/50/180	John Deere 7100 Mounted MaxEmerge, Case IH 1660
<b>Melissa Mills</b> Tallahassee, FL	185.2690	Pioneer P1690YHR	YGCB,HX1, LL,RR2	Poncho 250	23410	Silencer	Expert	Headline AMP	195/75/195	Monosem NG Plus 3 Case IH 1660
<b>GEORGIA</b>										
<b>Randy Dowdy</b> Valdosta, GA	341.8532	DEKALB DKC62-08	SS	Poncho 1250	28500	—	—	Headline AMP	300/100/250	John Deere 1700 John Deere 9600
<b>Smith Poultry Farm</b> Dawsonville, GA	233.3328	Pioneer P2089YHR	YGCB,HX1, LL,RR2	Latitude	30800	—	Atrazine	—	350/80/150	John Deere 7000 Conservation, John Deere 6620
<b>Blake Stanaland</b> Ochlocknee, GA	73.9178	Pioneer P1690YHR	YGCB,HX1, LL,RR2	None	27000	—	—	—	150/56/90	John Deere 7100 John Deere 9450
<b>KANSAS</b>										
<b>Bebb Farms</b> Altamont, KS	282.9116	DEKALB DKC64-69RIB	VT3P/RIB	Acceleron	38000	Hero	Anthem, Permit Roundup WeatherMax	—	250/75/90	Case IH 1250 Front-Fold John Deere 9770 STS
<b>Alex Noll</b> Winchester, KS	274.5488	DEKALB DKC64-69RIB	VT3P/RIB	A250	32500	—	Degree Xtra	Stratego YLD	240/0/0	Kinze 2210 Case IH 7230



	Yield	Hybrid Brand/ No.	Traits	Seed Treatment	Harvest Population	Insecticide	Herbicide	Fungicide	N/P/K	Planter/ Harvester
<b>A NON-IRRIGATED - CONTINUED</b>										
<b>Lucas Cochren</b> Whiting, KS	269.1964	DEKALB DKC64-69RIB	VT3P/RIB	Acceleron+ Poncho 250	31000	—	Atrazine, Degree Xtra Dicamba, Roundup Mustang MAX	—	205/82/80	John Deere 1790 CCS John Deere 9770
<b>KENTUCKY</b>										
<b>James Bickett</b> Morganfield, KY	310.9217	Pioneer P2089AM™	AM,LL,RR2	None	29500	—	—	—	300/115/150	John Deere DB60 John Deere S680
<b>Bickett Farms</b> Central City, KY	304.1196	Pioneer P2089AM™	AM,LL,RR2	Poncho 250	34000	—	—	—	0/0/0	John Deere 1790 CCS John Deere S680
<b>Phillip Zoglmann</b> Owensboro, KY	283.8049	DEKALB DKC65-19RIB	VT3P/RIB	Halex GT	34000	—	—	—	245/115/150	Kinze 3600 John Deere 670
<b>LOUISIANA</b>										
<b>Wil Miller Farms</b> Ferryday, LA	261.9857	Pioneer P1685YHR	YGCB,HX1, LL,RR2	Cruiser 250	32000	—	—	—	225/0/0	John Deere 1720 John Deere 9610
<b>John Carroll</b> Gilbert, LA	254.4861	Pioneer P1319HR	HX1,LL,RR2	Cruiser 250	28000	—	—	—	280/60/80	John Deere 1700 MaxEmerge Vacuum John Deere S680
<b>Randy Miller</b> Ferryday, LA	254.4064	Pioneer P2089YHR	YGCB,HX1, LL,RR2	Crusier 250	32000	—	—	—	214/0/0	John Deere 1720 Case IH 7120
<b>MASSACHUSETTS</b>										
<b>E M Parsons &amp; Sons Inc</b> Hadley, MA	276.0669	Pioneer P0604AM™	AM,LL,RR2	PPST 250	30000	Capture LFR	Cinch ATZ Instigate	—	264/0/70	Kinze 2500 John Deere 9500
<b>MARYLAND</b>										
<b>Harrison Rigdon</b> Jarrettsville, MD	353.4438	Pioneer P1498AM1™	AM1,LL,RR2	Amplify D+ Poncho 250	37000	Capture	Corvus	Headline Stratego YLD	400/200/250	John Deere 1770NT CCS ProXP John Deere 9670 STS
<b>My Lady's Manor</b> Monkton, MD	335.2181	Mid-Atlantic Seeds MA8127VT2P	VT2P	Acceleron	40000	—	Lexar Roundup	—	350/40/200	Kinze 3600 John Deere 9770
<b>Michael Harrison</b> Woodbine, MD	287.1433	DEKALB DKC62-08RIB	SS/RIB	Acceleron+ Poncho 250	37000	—	—	—	200/30/90	John Deere 7000 Conservation John Deere 9500 SideHill
<b>MAINE</b>										
<b>James Hilton</b> Norridgewock, ME	206.5062	DEKALB DKC43-48RIB	VT3P/RIB	Apivel, WA/H1	34000	—	Lumax EZ Touchdown Total	—	215/80/180	Great Plains YP-625A Claas Lexion 450
<b>Brenda Voter York</b> Farmington, ME	197.8779	Pioneer 38N86	CONV	None	34000	—	Atrazine Lumax	—	0/0/0	John Deere 7000 Case IH 1460
<b>Brenda York</b> Farmington, ME	189.7400	Pioneer 38N86	CONV	Poncho 250	33000	—	Atrazine 4L Lumax	—	0/0/0	John Deere 7000 Case IH 1460
<b>MICHIGAN</b>										
<b>Jeff Briggs Farms LLC</b> Willis, MI	269.7004	DEKALB DKC61-21RIB	SS/RIB	Poncho 500+ VOTIVO	36000	—	—	—	280/66/210	John Deere 1770NT John Deere 9760 STS
<b>Tom Kern</b> Saginaw, MI	268.8233	DEKALB DKC52-30RIB	SS/RIB	Acceleron+ Poncho 250	32500	—	Makaze Resolve Q	—	180/40/120	Case IH 800 Case IH 2144
<b>Jake Drozd</b> Allegan, MI	264.3417	Pioneer P0533AM1™	AM1,LL,RR2	Amplify D+ Poncho	38000	—	Bicep II Magnum Callisto	—	240/30/70	John Deere 1770NT CCS ProXP John Deere S680
<b>MISSISSIPPI</b>										
<b>Mark Oswalt</b> Plantersville, MS	263.7011	Pioneer P1636YHR	YGCB,HX1, LL,RR2	PPST 250	28000	—	Atrazine Roundup	—	225/41/41	John Deere 1790 CCS Case IH 1680
<b>Ricky Evans</b> Charleston, MS	235.9563	Pioneer P1319R	RR2	Cruiser 250	29000	—	Atrazine 4L Roundup PowerMax	—	170/0/0	John Deere 7300 John Deere 9600
<b>Brian Atkins</b> Aberdeen, MS	233.8026	Pioneer P2089YHR	YGCB,HX1, LL,RR2	Cruiser 250	32000	—	Atrazine Roundup	—	250/0/0	John Deere 7300 John Deere 9600
<b>MONTANA</b>										
<b>Lori Rohde</b> Glasgow, MT	110.2507	Pioneer P7443R	RR2	None	15000	—	—	—	50/0/0	John Deere 7000 Front-Fold MaxEmerge, New Holland TR99



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# TOP THREE WINNERS BY CLASS

Yield	Hybrid Brand/ No.	Traits	Seed Treatment	Harvest Population	Insecticide	Herbicide	Fungicide	N/P/K	Planter/ Harvester
<b>A NON-IRRIGATED - CONTINUED</b>									
<b>Glenn Rohde</b> Glasgow, MT	88.6738	Pioneer 39D97	HX1,LL,RR2	None	19000	—	—	—	50/0/0 John Deere 7000 Front-Fold MaxEmerge, New Holland TR99
<b>NORTH CAROLINA</b>									
<b>Ed Wood</b> Andrews, NC	289.9361	DEKALB DKC66-96	VT3P	Poncho 1250	29800	Bifenthrin 2EC	Dicamba Parazone 3SL Peak, Trizmet II	Priaxor	126/127/0 John Deere 1780 Drawn Rigid Gleaner R52
<b>Derek Potter</b> Grantsboro, NC	251.5518	Pioneer P1319HR	HX1,LL,RR2	Poncho 1250+ VOTIVO	35000	Sniper	Roundup PowerMax Status	Headline AMP	220/45/120 John Deere DB24 John Deere 5670
<b>George Wood Farms Inc</b> Camden, NC	237.5728	Pioneer P1690YHR	YGCB,HX1, LL,RR2	Poncho 1250	29500	—	Atrazine, Harness Touchdown	—	150/0/80 John Deere 1790 CCS John Deere 9870
<b>NORTH DAKOTA</b>									
<b>Mark Gorder</b> Wahpeton, ND	273.7088	Pioneer P9917	CONV	Poncho 250	39000	—	—	—	250/100/150 John Deere 1710 Vertical-Fold John Deere 9770
<b>Cody Frauenberg</b> Lamoure, ND	269.2056	DEKALB DKC46-20RIB	VT3P/RIB	Acceleron+ Poncho 250, JumpStart, Conklin	41200	Kendo	Atrazine 4L Harness Roundup WeatherMax	Headline Headline AMP Priaxor	240/130/50 Case IH 1265 Case IH 9120
<b>Amy Frauenberg</b> Lamoure, ND	259.9702	Pioneer P9917AM1™	AM1,LL,RR2	PPST 250, JumpStart, Conklin	39000	Kendo	Atrazine 4L Harness Roundup WeatherMax	Headline Headline AMP Priaxor	240/130/50 Case IH 1265 Case IH 9120
<b>NEBRASKA</b>									
<b>Mike Scholting</b> Louisville, NE	281.7240	Pioneer P1257AM™	AM,LL,RR2	Poncho 1250+ VOTIVO	31000	—	Cinch ATZ	—	320/220/0 John Deere 1770NT John Deere 9770 STS
<b>Wiles Agribusiness</b> Plattsmouth, NE	272.3023	Pioneer P1498AM™	AM,LL,RR2	Cruiser 250/Raxil	31000	—	Harness Xtra 5.6L Roundup PowerMax Verdict	Quadris Stratego YLD	220/80/50 Kinze 2200 John Deere 9660
<b>Norm Bruner</b> Brainard, NE	267.1649	Pioneer P1498AM1™	AM1,LL,RR2	Poncho 1250	33000	—	Roundup	—	230/158/0 John Deere 9300 John Deere S680
<b>NEW JERSEY</b>									
<b>Sam Santini</b> Stewartsville, NJ	319.5515	Hubner Seed H6744RCSS	SS	Acceleron	42000	Capture	Infantry 4L Prowl H2O Zidua	—	300/50/50 John Deere 1780 MaxEmerge Plus Drawn Narrow-Row John Deere S660
<b>New Village Farms</b> Phillipsburg, NJ	301.5085	DEKALB DKC64-87	SS	None	36000	—	Guardsman Prowl H2O	—	250/100/100 John Deere 1790 CCS John Deere 9670
<b>Pat Giberson</b> Pemberton, NJ	248.0879	DEKALB DKC61-88	VT3P	Acceleron	34000	—	Corvus, Dual Magnum Infantry 4L	—	210/48/60 Kinze 3600 John Deere 9570 STS
<b>NEW YORK</b>									
<b>Jesse Snyder</b> Lockport, NY	279.9351	DEKALB DKC57-75RIB	SS/RIB	Acceleron+ Poncho 250	34000	Capture LFR	Harness Xtra Instigate	—	175/28/140 John Deere 1790 CCS John Deere S670
<b>Henry G Everman Farms</b> Dansville, NY	268.4260	DEKALB DKC63-42	VT3	None	34000	—	Resolve Q Roundup, Status	—	200/90/60 John Deere 1770NT John Deere 9770 STS
<b>Craig Strong</b> Barton, NY	264.2943	FS InVISION FS 64R46SS	SS/RIB	None	37000	—	—	—	0/0/0 Kinze 3000 Case IH 6088
<b>OKLAHOMA</b>									
<b>Lauren Ledbetter Fouth</b> Okmulgee, OK	243.4306	Pioneer P2088AM™	AM,LL,RR2	Poncho 250	25500	—	Bicep II Magnum Glyphos	—	180/50/60 John Deere 1770 NT CCS John Deere S670
<b>Gayla Ledbetter</b> Okmulgee, OK	240.8521	Pioneer P1602AM™	AM,LL,RR2	Poncho 250	27000	—	—	—	175/50/60 John Deere 1770 NT CCS John Deere S670
<b>Bill Fansler</b> Welch, OK	223.4700	Pioneer P0636AM™	AM,LL,RR2	Poncho 250+ Raxil	24500	—	Atrazine Medal II	—	140/60/90 Case IH 1240 Case IH 7230
<b>PENNSYLVANIA</b>									
<b>Glen Krall</b> Lebanon, PA	280.2785	Pioneer P1319HR	HX1,LL,RR2	Poncho/ Votivo 1250	30100	—	Atrazine Resolve Q (mp) Touchdown	Stratego YLD	60/0/0 Kinze 3500 Gleaner R65
<b>Erin Kramer</b> Breinigsville, PA	275.0586	DEKALB DKC62-08RIB	SS/RIB	Poncho 250	33553	Force 3G	Atrazine 4L Lumax EZ Roundup O-Max	Headline SC	195/125/225 John Deere 1770NT John Deere S550





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Yield	Hybrid Brand/ No.	Traits	Seed Treatment	Harvest Population	Insecticide	Herbicide	Fungicide	N/P/K	Planter/ Harvester
<b>A NON-IRRIGATED - CONTINUED</b>									

**Darren Charles**  
Lancaster, PA

272.9065

**Pioneer**  
**P1602AMX™**

AMX,LL,RR2

Poncho 250

33000

Warrior II

Halex GT

**Priaxor**

280/0/25

Kinze 3600V  
Case IH 8010

## SOUTH CAROLINA

**Gause Farms**  
Scranton, SC

307.9084

**Pioneer**  
**P2089YHR**

YGCB,HX1,  
LL,RR2

Poncho 250

34500

—

Atrazine 4L  
Roundup PowerMax

—

280/96/100

John Deere 1720 Stack-Fold  
MaxEmerge Plus  
John Deere S670

**John Gause**  
Scranton, SC

284.6677

**Pioneer**  
**P1636YHR**

YGCB,HX1,  
LL,RR2

Poncho 250

32500

—

Atrazine 4L  
Roundup PowerMax

—

280/96/100

John Deere 1720 Stack-Fold  
MaxEmerge Plus  
John Deere S670

## SOUTH DAKOTA

**Scott McKee**  
Hawarden, SD

286.8051

**Pioneer**  
**P1151AM™**

AM,LL,RR2

Poncho 1250

35000

—

Callisto+Aatrex  
Roundup UltraMax

**Headline**

0/0/0

Case IH 955 Vertical-Fold  
Case IH 1660

**Huron Colony**  
Huron, SD

285.1108

DEKALB  
DKC52-61RIB

VT2P/RIB

Poncho 250

32000

—

Balance Flexx  
Roundup PowerMax  
**Status**

Stratego YLD

250/100/60

John Deere 1790 CCS  
John Deere 9770

**Dean Bosse**  
Elk Point, SD

254.5394

**Pioneer**  
**P1151AM™**

AM,LL,RR2

Optimax

32100

—

Halex

—

180/50/50

Case IH 1250  
John Deere S670

## TENNESSEE

**Scott and Matt Rhea**  
Somerville, TN

339.3048

DEKALB  
DKC66-97

VT2P

None

41000

Lambda-Cy

Atrazine, Dicamba  
Halex GT, Valor  
Roundup PowerMax

—

1200/245/250

John Deere 1720 MaxEmerge XP  
John Deere S680

**Woodall Farms**  
Decherd, TN

316.4554

**Pioneer**  
**P2089YHR**

YGCB,HX1,  
LL,RR2

Herculex

34000

—

Halex GT

—

300/60/60

John Deere 1770NT  
John Deere 9670

**Ethan Tanner**  
Union City, TN

311.7349

**Pioneer**  
**P2089YHR**

YGCB,HX1,  
LL,RR2

PPST 250

35000

—

Degree Xtra  
Roundup

—

320/92/120

John Deere 1770  
Case IH 7120

## TEXAS

**Pat Hammes**  
De Kalb, TX

240.1650

DEKALB  
DKC62-08

SS

Acceleron P500

32000

—

Atrazine  
Halex

Quilt

240/40/60

John Deere 1770NT  
John Deere S670

**Todd Kimbrell Jr**  
Itasca, TX

231.1951

DEKALB  
DKC62-08

SS

Poncho 500

25500

—

—

—

140/60/50

John Deere 1770 NT CCS  
John Deere S680

**Bobby Kuretsch**  
Riesel, TX

218.6198

DEKALB  
DKC62-08

SS

Poncho 500

27000

—

Atrazine  
Roundup PowerMax

—

147/48/48

John Deere 1720 MaxEmerge XP  
John Deere S670

## VIRGINIA

**French Brothers Dairy**  
Woodstock, VA

276.2892

DEKALB  
DKC62-08RIB

SS/RIB

Acceleron

32000

—

—

—

168/0/0

Kinze 3500  
John Deere 9510

**Greg Jenkins**  
Bena, VA

265.7254

**Pioneer**  
**P2089YHR**

YGCB,HX1,  
LL,RR2

Poncho 1250

41000

—

—

—

320/50/125

Kinze 3650  
John Deere 9650 STS

**LaVonne Heatwole**  
McGaheysville, VA

257.8400

**Pioneer**  
**P1105AM™**

AM,LL,RR2

Poncho 250

33000

Asana XL

AAtrex + Princep  
Gramoxone SL 2.0  
**Prowl H2O, Touchdown Total**

—

120/0/120

Great Plains YP-1225  
New Holland CR8080

## VERMONT

**Vern-Mont Farm LLC**  
Vernon, VT

196.7662

**Pioneer**  
**P0993AM1™**

AM1,LL,RR2

Cruiser

41500

—

Resolve Q  
Roundup PowerMax

—

250/10/140

Kinze 3500  
Case IH 1460

## WEST VIRGINIA

**Justice Family Farm**  
Beckley, WV

347.6758

DEKALB  
DKC64-69

VT3P

Amplify D+  
Poncho 1250

38000

—

2,4-D  
Roundup Max

—

325/100/100

John Deere 1770 Conservation  
Claas Lexion 750

**Chris Miltenberger Farms #6**  
Keyser, WV

289.5744

**Pioneer**  
**P2089AM™**

AM,LL,RR2

Amplify D,  
Poncho 1250, Votivo

35000

Warrior

2,4-D, Banvel  
Harmony, Resolve Q  
Glyphosate Powermax

**Headline AMP**

Stratego YLD

200/8/2

Kinze 3600  
John Deere S660

**Miltenberger Farms 3**  
Keyser, WV

284.2103

**Pioneer**  
**P1690AM™**

AM,LL,RR2

Amplify D,  
Poncho 1250, Votivo

35800

Warrior

2,4-D, Banvel  
Harmony, Resolve Q  
Glyphosate Powermax

**Headline AMP**

Stratego YLD

200/8/2

Kinze 3600  
John Deere S660

## WYOMING

**Hardrock Farms Inc**  
Wheatland, WY

134.9684

**Pioneer**  
**P9252HR**

HX1,LL,RR2

Amplify D+  
Poncho 250

18650

—

Guardian, Halex GT  
Powermax, Premier 90

—

150/125/50

John Deere 1720 MaxEmerge XP  
John Deere 9500

**Hardrock Farms No 2**  
Wheatland, WY

129.8513

DEKALB  
DKC38-03RIB

VT2P/RIB

Acceleron+  
Poncho 250

18350

—

Glyphomax Plus  
Halex GT

—

125/100/50

John Deere 1720 MaxEmerge XP  
John Deere 9500





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NATIONAL  
**CORN YIELD**  
CONTEST



## First Place



PHOTO: JIM PATRICO

### LANCE NEFF

Marshall, MO

362.8145 bu./acre  
DEKALB DKC66-97RIB  
Population: 35,400  
Harvester: John Deere S680

#### SUPERVISORS

**Lee Keith:** Ag Loan Officer, Main Street Bank  
**Harold (David) Kruger:** Independent Crop Insurance Agent, Self-employed

Lance Neff is a go-getter. In just his third year of entering the National Corn Yield Contest, Neff took top honors in this class with a yield of nearly 363 bushels per acre.

At the start of the year, Neff had his doubts about how well his contest entry might do. "It was pretty dry early in the spring, and that had us a little spooked," he relates. "We had a terrible year in 2012 with the drought, and 2013 wasn't a lot better. Our subsoil moisture was pretty low."

Neff planted his entry in mid-April. The dry conditions prevailed through the end of May. "We started getting some rain then, and that helped us along. We didn't get a lot of rain at any one time. But along with the cool weather, it was enough to pull the crop through."

Just ahead of planting, he knifed in 185 units of nitrogen and spread 400 lbs. per acre of humic acid on his contest ground. "It helps release the nutrients that are in the soil and reduces compaction," he says.

At planting, he applied 4 gal. per acre of an 8-24-4 liquid starter fertilizer in-furrow. "The starter helps with seed emergence," he says. "We want all of those plants coming up within 24 hours. Anything after that is like a weed."

His contest field-planting population was 36,000 seeds per acre. "That's about as high

as we'll go," he says. "On our lighter soils, we'll back down a little bit, to as low as 32,000. This field has a silty loam soil with very deep topsoil, so we pushed up the population to try to get a better yield."

At V4, Neff began foliar-feeding based on tissue sample results. Along with micronutrients, he also applied Asana XL three times during the season and spoon-fed nitrogen to the crop. "We do everything we can to keep the plant healthy and make sure it has everything it needs to reach its full yield potential," he says. "We don't want it ever to have a bad day."

Applications of Headline at V6, tassel and three weeks after tassel supplemented the foliar-feeding program. "Common sense tells you that if you can keep disease out of the field, you're going to see a yield boost," Neff says.

### High-Yield Pathways

- ▶ Strive for a uniform stand.
- ▶ Make sure the plant never has a bad day.
- ▶ Push planting populations on better ground.

## Second Place

### KEVIN KALB

Dubois, IN

361.4712 bu./acre  
DEKALB DKC64-87RIB  
Population: 42,500  
Harvester: Case IH 8230

Kevin Kalb just keeps rolling along. Since first entering the National Corn Yield Contest in 2007, he's placed in the national winner's circle five times. Included are first-place finishes in 2011 and 2013, and second-place awards in 2007, 2009 and this year.

Weather was a mixed bag for the season. "The first month to six weeks were just plain miserable. We had water over the corn in our contest field twice," he explains. "But from then on, it was pretty ideal. It was probably the coolest summer we've had in 15 to 20 years, with only five or six days above 90 degrees. We also got rain when we needed it."

Kalb was impressed by the performance of his DEKALB DKC64-87RIB hybrid. "We planted it thick (44,000 seeds per acre), but it has great standability. And it can handle wet feet, which was important in a year like this. It shot an ear on every stalk and it stayed green."

Having the opportunity to connect with top-notch growers is one of the things that keeps Kalb coming back to the contest. "You can learn so much from the other growers," he says. "They'll tell you about the things that are and aren't working for them."

#### SUPERVISORS

**Thomas (Tom) J. Krodel:** Regional President, Old National Bank  
**Tony Sanders:** Ag Loan Officer, Old National Bank

## Third Place

### JEFF BROWN

Blue Mound, IL

350.3707 bu./acre  
DEKALB DKC62-08RIB  
Population: 35,500  
Harvester: John Deere STS 9770

As he watched his contest entry develop, Jeff Brown felt like pinching himself to make sure he wasn't dreaming. "It looked good from day one," Brown says. "All through the season, I kept taking pictures of it and putting them on Twitter. It just kept getting bigger and better. We've never had a prettier crop."

Taking his time while planting was part of Brown's overall recipe for success. "Our goal is to get a perfect stand with all of the plants coming out of the ground at the same time," he says. "That meant keeping our planting speed to 4.5 mph or less. We're not concerned with doing things fast, we want to do them right."

At V8, he used a Hagie Nitrogen Toolbar to apply 20 gal. per acre of 32% nitrogen (70 lbs.). "It's all about getting the nutrients to the plant at the right time," he says. "This equipment gives us more flexibility. If it looks like the water and yield potential are there later in the season like they were this year, we can get in there and give the crop the boost it needs."

#### SUPERVISORS

**Ryan Aupperle:** Ag Farm Manager, Heartland AG Group  
**Thomas M. Courson:** Accredited Farm Manager, Busey AG Services

Yield	Hybrid Brand/ No.	Traits	Seed Treatment	Harvest Population	Insecticide	Herbicide	Fungicide	N/P/K	Planter/ Harvester
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## AA NON-IRRIGATED

### IOWA

<b>Dave Price</b> Clarinda, IA	308.8461	DEKALB DKC62-08RIB	SS/RIB	Acceleron	32000	—	Degree Xtra Roundup PowerMax	—	180/0/0	John Deere 1770 NT CCS Case IH 8120
<b>Meier Family Farms</b> Clarinda, IA	300.8183	DEKALB DKC62-98RIB	VT2P/RIB	Acceleron	32000	—	Degree Xtra Roundup PowerMax	—	195/0/0	John Deere 1770 New Holland CR8090
<b>H &amp; H Farms</b> Crescent, IA	296.4718	Pioneer P1555CHR	RW,HX1, LL,RR2	Poncho Votivo	30000	—	AAtrax 4L+Atrazine Balance Flexx, Laudis	—	240/104/0	John Deere 1770NT CCS ProXP John Deere 9670 STS

### ILLINOIS

<b>Jeff Brown</b> Blue Mound, IL	350.3707	DEKALB DKC62-08RIB	SS/RIB	Acceleron	35500	—	Harness Xtra 5.6L Roundup PowerMax	Headline AMP	420/225/200	Case IH 1250 Front-Fold Early Riser John Deere 9770 STS
<b>Lahey Farms</b> Champaign, IL	308.8361	DEKALB DKC64-87RIB	SS/RIB	Acceleron	44000	—	Roundup PowerMax Verdict	Headline AMP	300/200/200	John Deere DB90 John Deere S690
<b>Fairfull Farms</b> Virden, IL	302.2923	DEKALB DKC64-87RIB	SS/RIB	Acceleron	38000	Capture LFR	Lexar	Fortix Headline AMP	242/92/90	John Deere 1760NT John Deere 9570 STS

### INDIANA

<b>Kevin Kalb</b> Dubois, IN	361.4712	DEKALB DKC64-87RIB	SS/RIB	Acceleron	40000	Acceleron 250	Degree	—	250/0/0	Case IH 1240 Case IH 8230
<b>Jeannie Linneweber</b> Vincennes, IN	298.4705	Pioneer P1257AM™	AM,LL,RR2	Poncho 1250	34500	—	Atrazine 4L, Corvus Laudis, Roundup PowerMax	—	150/50/50	John Deere 1790 John Deere 9660 STS
<b>Shawn Kalb</b> Dubois, IN	287.4729	DEKALB DKC64-87RIB	SS/RIB	Acceleron	36000	Acceleron	Degree	—	275/0/0	Case IH 1240 Case IH 8230

### MINNESOTA

<b>David Swenson</b> Mabel, MN	270.9354	Pioneer P0533AM1™	AM1,LL,RR2	None	35000	—	Realm Q Roundup PowerMax	—	300/150/125	John Deere 1770NT John Deere S660
<b>Wellens Farms</b> Carver, MN	263.6373	Pioneer P0533AM1™	AM1,LL,RR2	Cruiser 250	33500	—	Halex GT Surpass	—	160/0/0	Case IH 1250 Front-Fold Early Riser Case IH 8120
<b>Gary LeVan</b> Elgin, MN	258.9164	DEKALB DKC54-38RIB	SS/RIB	None	33000	—	Roundup UltraMax RT SureStart	—	140/20/30	Kinze 2000 John Deere S660

### MISSOURI

<b>Lance Neff</b> Marshall, MO	362.8145	DEKALB DKC66-97RIB	VT2P/RIB	Acceleron	36000	Asana XL Capture	Cinch ATZ	Headline	300/150/150	John Deere 1770NT CCS ProXP John Deere S670
<b>Jerry Cox</b> Delta, MO	340.1945	Pioneer P2089YHR	YGCB,HX1, LL,RR2	Amplify+ Poncho 250	33000	—	Cinch ATZ	—	320/46/120	John Deere 1720 Stack-Fold MaxEmerge Plus John Deere 9670
<b>Lin-J-Farms</b> Stockton, MO	309.4889	Pioneer P2088AM™	AM,LL,RR2	Poncho 1250	38000	Fastac	Armezon Atrazine 4L Verdict	Headline AMP Priaxor	220/120/100	Kinze 3600 Case IH 2388

### OHIO

<b>Don Jackson</b> Camden, OH	285.4221	DEKALB DKC64-87RIB	SS/RIB	Poncho 500	38000	—	Halex GT, Salvo 2,4-D Simazine 4L	—	180/0/0	John Deere 1770NT John Deere 9560 STS
<b>Randall Scott</b> Bucyrus, OH	280.1403	DEKALB DKC61-16RIB	SS/RIB	Acceleron	36000	—	—	—	190/65/0	Kinze 3200 John Deere S660
<b>Heyob Farms</b> Hamilton, OH	271.9965	LG Seeds LG2636	CONV	Poncho 500	31000	—	Harness Xtra Impact	—	200/51/200	John Deere 1770 Front-Fold Flex John Deere S550

### WISCONSIN

<b>Mezera Farms 1</b> Bagley, WI	281.6128	DEKALB DKC62-08	SS	Cruiser MAX	50000	—	Lumax	Headline	400/50/50	John Deere 1780 MaxEmerge Plus Drawn Narrow-Row John Deere 9750
<b>Betty Steiger</b> Bloomington, WI	271.7343	DEKALB DKC62-08RIB	SS/RIB	Acceleron	39000	—	Harness	—	290/109/129	John Deere 1760 MaxEmerge Plus Vacuum John Deere 9660 STS
<b>Oak Valley Farms</b> Bloomington, WI	269.9352	DEKALB DKC60-67RIB	RIB	Acceleron	39000	—	Harness Hornet	—	290/109/129	John Deere 1760 MaxEmerge Plus Vacuum John Deere 9660 STS



### First Place



PHOTO: JIM PATRICO

#### WILES BROS. INC. Plattsmouth, NE

357.5399 bu./acre  
DEKALB DKC67-57RIB  
Population: 38,500  
Harvester: John Deere S670

#### SUPERVISORS

**Gene R. Noell:** Ag Banker, Retired  
**Russ Henning:** Ag Loan Officer, Murray  
State Bank

Great corn yields aren't made in just one season or one spring, say Marvin and Glenn Wiles. Instead, they're the result of carefully building fertility levels via soil testing and grid sampling, tinkering with techniques and practices, and steadfastly monitoring results.

"We've been building this particular field for more than 10 years now," says John McNamara, an agronomist for Wiles Bros. Inc. "This is the year when it finally paid off."

In late March, McNamara applied 59 lbs. of 11-65-0, along with 510 lbs. of 32% liquid urea and 1.7 pt. per acre of Harness on the contest field. It consists of Albaton silty clay and Nodaway and Onawa silt loam soil.

DEKALB DKC67-57RIB was planted at 42,000 seeds per acre on April 15. "It's a 117-day, triple-stacked hybrid that does well in cold soil conditions and is fast emerging," he says. "We tried to get it in as early as possible to beat the heat at pollination. It has good stalk and root strength, along with excellent late-season plant health."

At planting, an Avail starter (9-18-6-2S-.5 MN-.5N) with 3 oz. per acre of **Headline EC** was put in the furrow along with 3.4 oz. per acre of Capture LFR. "Getting a good, uniformly emerging, evenly spaced stand is over half the battle in growing a high-yield crop," McNamara

says. "It ups the odds that you'll have more of a level canopy at pollination."

In late June, around VT, 10.5 oz. per acre of Quilt XL fungicide was flown on, along with 1 gal. per acre of SRN28 to give the application more density. "It sticks to the plants better," McNamara explains.

A second application of fungicide, at the same rate, was flown on in mid-July. "This year, we had more late-developing disease pressure than normal," he notes. "The later fungicide application gave us the ability to protect the development of kernels at the tips of the ears and also protected our test weight a little bit."

Favorable weather was a big factor in making the crop. "Mother Nature smiled on us," McNamara says. "We had timely rain throughout the season and a cooler-than-normal July, which helped with transpiration rates and helped fill out the ears. Our annual precipitation is around 33 inches. This year, we had 20 inches of rain in August alone. That really helped us finish things off."

### High-Yield Pathways

- ▶ Build up soils over time.
- ▶ Put crop in position to take advantage of moisture when you get it.
- ▶ Protect yield potential with fungicides.

### Second Place

#### JAY JUSTICE Beckley, WV

345.3781 bu./acre  
DEKALB DKC64-69  
Population: 31,000  
Harvester: Claas Lexion 750

#### SUPERVISORS

**Cindy Johnson:** Crop Insurance Agent, J.T. David Insurance Co.  
**John Thomas David Jr.:** Crop Insurance Agent, Self-employed

Jay Justice admits to being a little nervous about prospects for his 2014 contest entry at the start of the growing season. "The soil was pretty slow to warm up," notes Justice, who, along with his father, Jim, also captured a second-place award in the A Non-Irrigated Class. "This field sits at around 2,200 foot elevation, and we like to plant longer-season varieties. The problem is that there's always the possibility of an early frost in the fall," he says.

"We weren't able to get in the field with the planter until May 1. That's really about as far as we wanted to push things."

Unusually strong disease pressure posed another challenge for Justice. "We typically don't have to use a fungicide on our farms in West Virginia and Virginia like we do on the farms we have in North Carolina and South Carolina," he explains. "But this year, we ran into some Southern corn leaf blight and rust here, so we made an aerial application of a fungicide shortly after pollination. It turned out to be the right decision."

### Third Place

#### DOWDY FARMS – growbigcorn.com Valdosta, GA

343.3100 bu./acre  
**Pioneer P1303HR**  
Population: 28,000  
Harvester: John Deere 9600

#### SUPERVISORS

**William "Hal" Darsey:** District Conservationist, NRCS  
**William Garvie Nichols:** County Extension Agent, University of Georgia Extension Service  
**Forest (Marshall) Hill:** Soil Conservationist, NRCS

To say Randy Dowdy has a knack for producing high-yielding corn crops is akin to saying Green Bay quarterback Aaron Rodgers knows a little bit about throwing a football.

Dowdy entered the contest for the first time in 2011. Since then, he's earned two national first-place awards, registered second-place finishes four times and captured third-place honors six times. Oh, and he also set a world record this year, producing a yield of more than 503 bu./acre in the Irrigated Class.

Not bad for a guy who grew his first corn crop in 2008 at the age of 36. Prior to that, Dowdy's only experience with agriculture consisted of harvesting tobacco and watermelons, and baling hay part-time during the summer months while he was a teenager.

"Not coming from a farm background was an advantage in some ways," Dowdy says. "I didn't start out with the idea there was only one way to do things because that's the way they've always been done either on an individual farm or within the industry. I had to learn on my own to determine what would or wouldn't work, and branched out from there."

	Yield	Hybrid Brand/ No.	Traits	Seed Treatment	Harvest Population	Insecticide	Herbicide	Fungicide	N/P/K	Planter/ Harvester
<b>A NO-TILL/STRIP-TILL NON-IRRIGATED</b>										
<b>ALABAMA</b>										
<b>Michael Dahlke</b> Cullman, AL	256.4072	Seed Consultants 11HQ31	HX,YGCB, RR	Poncho 1250+VOTiVO	32000	—	2,4-D Ester AAtrex, Roundup	—	240/100/100	John Deere 7300 Gleaner R42
<b>Dillard Ag Products,LLC.</b> Hartford, AL	174.7367	Pioneer P1319YHR	YGCB,HX1, LL,RR2	Poncho 250	20240	—	Atrazine 4L, Prowl H2O Roundup PowerMax	—	140/60/90	John Deere 1700 MaxEmerge XP Case IH 1460
<b>ARKANSAS</b>										
<b>Danny Simpson</b> Rector, AR	221.6875	Pioneer P1602YHR	YGCB,HX1, LL,RR2	Poncho 250	25000	—	Atrazine Roundup	—	450/150/200	John Deere 1720 John Deere 9750
<b>COLORADO</b>										
<b>Harry Brinkema</b> Holyoke, CO	152.9885	Pioneer 35F37	RR2	Cruiser 250	15000	—	Atrazine 4L Powermax	—	70/30/30	John Deere 1720 Stack-Fold MaxEmerge Plus John Deere S670
<b>Kirby Atkins</b> Haxtun, CO	143.6940	Pioneer 35F37	RR2	None	13125	—	AAtrex 4L, Clarity, SureStart Roundup PowerMax	—	75/20/0	White 8100 Case IH 2588
<b>Steve Millage</b> Holyoke, CO	123.7709	DEKALB DKC43-46	RR2	Acceleron+ Poncho 250	14000	—	—	—	80/20/0	Case IH 1250 Front-Fold Case IH Axial-Flow 7088
<b>CONNECTICUT</b>										
<b>Louise Cohen</b> Ellington, CT	210.5556	Pioneer P0604AM™	AM,LL,RR2	Cruiser Extreme 250	31000	—	AAtrex NineO DF Showdown	—	250/50/150	John Deere 1750 Gleaner M2
<b>DELAWARE</b>										
<b>Hudson Farms 2</b> Frankford, DE	263.7730	DEKALB DKC62-98RIB	VT2P/RIB	Poncho 250	39000	—	2,4-D Ester, Gramoxone Extra Harness, Princep Roundup PowerMax	—	300/0/250	Kinze 3500 John Deere 9770 STS
<b>FLORIDA</b>										
<b>Sam Jones</b> Jasper, FL	202.8307	Pioneer P1690YHR	YGCB,HX1, LL,RR2	Poncho 250	28740	Silencer	Expert	Headline AMP	200/75/240	Monosem NG Plus 3 Case IH 1660
<b>Roy J Classen</b> Walnut Hill, FL	159.7884	Pioneer P2089YHR	YGCB,HX1, LL,RR2	Poncho 250	26500	—	Roundup Atrazine	—	195/60/60	John Deere 7000 John Deere 9600
<b>Mace Bauer and Junior Santos</b> Lake City, FL	130.5442	Pioneer P1690HR	HX1,LL,RR2	Poncho 1250	32000	—	Laudis	Stratego YLD	150/0/0	John Deere 7100 John Deere 9610
<b>GEORGIA</b>										
<b>Dowdy Farms - growbigcorn.com</b> Valdosta, GA	343.3100	Pioneer P1303HR	HX1,LL,RR2	Poncho 1250	28500	—	—	Headline AMP	350/100/200	John Deere 1700 John Deere 9600
<b>Smith Poultry Farm</b> Dawsonville, GA	258.3877	DEKALB DKC62-08	SS	Latitude	32000	—	Roundup GLY	—	350/80/150	John Deere 7000 Conservation John Deere 6620
<b>KANSAS</b>										
<b>Jason Taylor</b> White Cloud, KS	300.4343	Taylor Seed 8012 VT2PRO	VT2P/RIB	Cruiser	34500	—	Degree Xtra Impact Roundup PowerMax	Headline	220/100/60	Monosem NG Plus 4 Case IH 7230
<b>Jeff Koelzer</b> Onaga, KS	286.2394	DEKALB DKC63-55RIB	DGVT2P/RIB	Acceleron	35000	—	Degree Xtra Roundup WeatherMax	Quilt Xcel	322/104/60	Case IH 1250 Front-Fold Early Riser Case IH 7230
<b>Brad Taylor</b> White Cloud, KS	281.3383	Taylor Seed 8012 VT2PRO	VT2P/RIB	Cruiser	35000	—	Degree Xtra Impact Roundup PowerMax	Headline	220/100/60	Monosem NG Plus 4 Case IH 7230
<b>KENTUCKY</b>										
<b>Castlen Bros Farm</b> Owensboro, KY	297.4127	Pioneer P2089AM™	AM,LL,RR2	Poncho 1250	36000	Warrior II	AAtrex 4L, Gramoxone Lumax EZ, Princep 4L Roundup WeatherMax	—	220/92/120	John Deere 1770NT John Deere S670
<b>Jerry Griffith</b> Mayfield, KY	289.6551	DEKALB DKC65-19	VT3P	Poncho 250	37000	Tombstone	Degree Xtra, Rifle Roundup PowerMax	—	200/200/200	Kinze 3600TR Claas Lexion 740
<b>Mary &amp; Debbie Farms</b> Owensboro, KY	286.7614	Pioneer P1602	CONV	Poncho 1250	35500	—	AAtrex + Princep Gramoxone Extra Lumax EZ, Warrior II Roundup WeatherMax	—	220/92/120	John Deere 1770 John Deere S670

Yield	Hybrid Brand/ No.	Traits	Seed Treatment	Harvest Population	Insecticide	Herbicide	Fungicide	N/P/K	Planter/ Harvester
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## A NO-TILL/STRIP-TILL NON-IRRIGATED - CONTINUED

LOUISIANA										
<b>Billy Lee &amp; Nathan Lee Farms</b> Tallulah, LA	245.0163	Pioneer P1690YHR	YGCB,HX1, LL,RR2	Cruiser 250	32000	—	Atrazine 4L Dual II Magnum Roundup O-Max	Quilt Xcel	200/80/60	John Deere 1720 John Deere S680
<b>Linda Moroni</b> Winnsboro, LA	242.5707	Pioneer P1319R	RR2	Poncho 1250	29000	—	Leadoff Realm Q	Approach Prima	250/60/60	John Deere 1700 MaxEmerge Vacuum, John Deere S670
<b>Donald Schexnayder</b> Port Allen, LA	235.7100	DEKALB DKC64-69	VT3P	Cruiser Extreme 250	32000	—	—	—	210/20/100	John Deere 1720 Stack-Fold MaxEmerge Plus, John Deere S680
MASSACHUSETTS										
<b>Kosinski Farms</b> Westfield, MA	331.9052	Pioneer P0216HR	HX1,LL,RR2	Amplify D+ Cruiser	37000	—	Prowl H2O Roundup PowerMax	—	380/130/230	Kinze 2500 Case IH 2366
<b>Wanda Llewelyn</b> Northfield, MA	256.6352	Pioneer P9917AMX™	AMX,LL,RR2	Poncho 1250	36000	—	Lumax	—	250/30/237	John Deere 7200 John Deere 9500
MARYLAND										
<b>Edward Appenzeller</b> Millington, MD	301.4236	DEKALB DKC62-08RIB	SS/RIB	Acceleron+ Poncho 250	37000	Capture Warrior	Gramoxone Lexar, Princep 4L	—	260/80/100	Kinze 3660 Case IH 7010
<b>Robert Riley</b> Newark, MD	291.4782	DEKALB DKC62-08	SS	None	32100	—	Atrazine Princep, Roundup	Stamina	180/0/0	John Deere 7000 John Deere 9600
<b>John Rigdon</b> Jarrettsville, MD	289.5363	Pioneer P1197AM™	AM,LL,RR2	Amplify D+ Cruiser	37000	Capture LFR	Corvus	Headline Stratego YLD	300/200/250	John Deere 1770NT CCS ProXP John Deere 9670 STS
MAINE										
<b>Hilton Farm Inc</b> Norridgewock, ME	196.1005	DEKALB DKC46-20RIB	VT3P/RIB	Apivel, WA/H1	34000	—	Lumax EZ Touchdown Total	—	215/80/180	Great Plains YP-625A Claas Lexion 450
<b>Linwood York</b> Farmington, ME	161.7548	Pioneer 39B22	CONV	Poncho 250	32500	—	Atrazine 4L Lumax	—	0/0/0	John Deere 7000 Case IH 1460
<b>Sandy River Farms</b> Farmington, ME	142.2071	Pioneer 38N86	CONV	Poncho 250	32000	—	Atrazine 4L Lumax	—	0/0/0	John Deere 7000 Case IH 1460
MICHIGAN										
<b>Ronnie Landis</b> Schoolcraft, MI	250.6410	DEKALB DKC62-97RIB	VT3P/RIB	Poncho 250	36000	—	Lumax	—	230/130/160	John Deere 1770NT John Deere S690
<b>Landis Farms</b> Schoolcraft, MI	248.0439	DEKALB DKC62-97RIB	VT3P/RIB	None	36000	—	Lumax EZ	—	230/130/160	John Deere 1770NT John Deere S690
<b>Tanner's Farm</b> Albion, MI	240.1216	DEKALB DKC53-56RIB	SS/RIB	Poncho 1250	34000	—	—	—	150/150/200	Kinze 3400 Claas Lexion 470R
MISSISSIPPI										
<b>Carol Hunter</b> Glen Allan, MS	284.7641	Pioneer P1739HR	HX1,LL,RR2	None	33000	—	—	—	290/0/0	John Deere 1700 MaxEmerge Vacuum John Deere S690
<b>Barbara Oswalt</b> Plantersville, MS	267.9119	Pioneer P1636YHR	YGCB,HX1, LL,RR2	PPST 250	29000	—	Atrazine Roundup	—	300/51/111	John Deere 1790 CCS Case IH 1680
NORTH CAROLINA										
<b>Kevin Matthews</b> East Bend, NC	272.9171	Pioneer P1739HR	HX1,LL,RR2	Poncho 1250	30000	—	Bicep II Magnum Halex GT	Headline AMP Priaxor	260/180/220	John Deere 1790 CCS John Deere S670
<b>Wood Farm LLC</b> Andrews, NC	268.8925	Pioneer P1739HR	HX1,LL,RR2	Poncho 250	29500	Bifenthrin 2EC	2,4-D Amine 4 Dicamba, Peak Parazone 3SL, Trizmet II	Priaxor	126/13/0	John Deere 1780 Drawn Rigid Gleaner R52
<b>David Parker</b> Monroe, NC	250.2164	DEKALB DKC62-08	SS	Poncho 250	32000	—	Atrazine 4F Fierce, Zidua Roundup PowerMax	Headline AMP	104/0/0	John Deere 1790 John Deere S680
NORTH DAKOTA										
<b>Donna Fraenberg</b> Lamoure, ND	265.2883	DEKALB DKC46-20RIB	VT3P/RIB	Acceleron+ Poncho 250, Jump Start, Conklin	41200	Kendo	Atrazine 4L Harness Roundup WeatherMax	Headline Headline AMP Priaxor	240/130/50	Case IH 1265 Case IH 9120
<b>Quandt Brothers #2</b> Oakes, ND	230.2315	DEKALB DKC46-20RIB	VT3P/RIB	Poncho 250	29000	—	Atrazine, Durango Laudis, Powermax	—	160/95/30	White 8824 Case IH 9230





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\*Percentages compiled from the 75% of max drawbar pull test at the 2014 Nebraska Tractor Test Results in reference to hp-hr/gal.

\*\* Rated engine hp (ISO) per 97/68/EC.



**JOHN DEERE**

[JohnDeere.com/Tractors](http://JohnDeere.com/Tractors)

Yield	Hybrid Brand/ No.	Traits	Seed Treatment	Harvest Population	Insecticide	Herbicide	Fungicide	N/P/K	Planter/ Harvester
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## A NO-TILL/STRIP-TILL NON-IRRIGATED - CONTINUED

<b>Drew Courtney</b> Oakes, ND	225.0085	<b>Pioneer</b> P9526AMX™	AMX,LL,RR2	Cruiser 250	34000	—	—	—	200/60/0	White 8824 Gleaner S77
<b>NEBRASKA</b>										
<b>Wiles Bros Inc</b> Plattsmouth, NE	357.5399	DEKALB DKC67-57RIB	VT3P/RIB	Poncho 250	36500	—	Degree Xtra Roundup WeatherMax	—	400/175/300	John Deere 1790 CCS John Deere S670
<b>Mark Moody</b> Auburn, NE	294.9443	<b>Pioneer</b> P2088AM™	AM,LL,RR2	Poncho 1250+Raxil	34000	Asana XL	2,4-D LV6 Abundit Extra, Realm Q Atrazine, Basis Blend	Approach	300/20/80	John Deere 1790 CCS John Deere 9650 STS
<b>Corn Valley Farms</b> Louisville, NE	278.4275	<b>Pioneer</b> 32B16	WH,HX1, LL,RR2	Poncho 1250+ VOTIVO	29500	—	Cinch ATZ	—	300/200/0	John Deere 1770NT John Deere 9770 STS
<b>NEW HAMPSHIRE</b>										
<b>Mary E Llewellyn</b> Northfield, NH	225.3125	<b>Pioneer</b> P9917AMX™	AMX,LL,RR2	Poncho 1250	36000	—	Lumax	—	260/30/237	John Deere 7200 John Deere 9500
<b>NEW JERSEY</b>										
<b>Chris Santini</b> Stewartsville, NJ	313.3229	DEKALB DKC65-19RIB	VT3P/RIB	Acceleron	38000	Capture	Infantry 4L Prowl H2O, Zidua	—	300/50/50	John Deere 1790 CCS John Deere S660
<b>T R Meyer Farms</b> Pittstown, NJ	266.8589	Hubner Seed H5333RC3P	VT3P	Poncho 250	39000	Mustang MAX	Atrazine, Zidua Roundup PowerMax	—	200/60/90	John Deere 1770 Front-Fold Flex John Deere S660
<b>Tammy Meyer</b> Pittstown, NJ	230.1457	DEKALB DKC62-97RIB	VT3P/RIB	Poncho 250	38500	Capture LFR	Atrazine, Zidua Roundup PowerMax	—	200/60/90	John Deere 1770 Front-Fold Flex John Deere S660
<b>NEW YORK</b>										
<b>Matt Kludt</b> Kendall, NY	281.4887	DEKALB DKC52-04RIB	VT2P/RIB	Acceleron+ Poncho 250	38500	—	—	—	260/83/250	John Deere 1770 Front-Fold MaxEmerge Plus Drawn Conservation Case IH 8230
<b>RL Jeffres &amp; Sons, Inc.</b> Wyoming, NY	269.2012	<b>Pioneer</b> P0216AM™	AM,LL,RR2	Poncho 250	30300	—	Bicep Lite II Magnum Dual II Magnum, Sharpen Touchdown Total	—	94/13/3	Case IH 1255 Front-Fold Early Riser Case IH 8230
<b>JA-RY Properties</b> Pavilion, NY	264.8600	DEKALB DKC57-67	SS	None	37000	—	Bicep Lite II Magnum Roundup PowerMax	—	205/102/125	John Deere 1770NT John Deere 9670
<b>OKLAHOMA</b>										
<b>Scotty Herriman</b> S Coffeyville, OK	260.4302	DEKALB DKC64-69RIB	VT3P/RIB	Poncho 250	33580	—	Corvus	—	190/45/10	Kinze 3650 John Deere 9500
<b>Terry Sloan</b> Gore, OK	243.3011	<b>Pioneer</b> P1602AM™	AM,LL,RR2	Poncho 1250	32000	—	Halex GT + Atrazine	Approach	185/0/0	John Deere 1770 NT CCS John Deere S670
<b>Wayne Sloan</b> Gore, OK	236.3016	<b>Pioneer</b> P1395R	RR2	Poncho 1250	34000	—	Halex GT + Atrazine	Approach	185/0/0	John Deere 1770 NT CCS John Deere S670
<b>PENNSYLVANIA</b>										
<b>Daryl Alger</b> Lebanon, PA	321.2102	DEKALB DKC62-08	SS	Acceleron	39100	Capture	Atrazine Princep	—	280/40/90	John Deere 1770NT John Deere S670
<b>David Wolfskill</b> Wernersville, PA	303.0438	DEKALB DKC62-08	SS	Poncho 250	33252	Aztec 5.1G Warrior	2,4-D LV Lexar, Roundup	Headline SC	150/0/0	White 8831 CFS Narrow Transport Case IH 2388
<b>Aaron Hawbaker</b> Waynesboro, PA	297.5978	DEKALB DKC63-87RIB	VT2P/RIB	Acceleron	32500	—	Atrazine 4L	—	175/0/0	John Deere 1790 John Deere 9670
<b>SOUTH CAROLINA</b>										
<b>Daniel Gause</b> Scranton, SC	316.5737	<b>Pioneer</b> P2089YHR	YGCB,HX1, LL,RR2	Poncho 250	34500	—	Atrazine 4L Roundup PowerMax	—	290/96/100	John Deere 1720 Stack-Fold MaxEmerge Plus John Deere S670
<b>William Thomas</b> Cades, SC	300.6966	<b>Pioneer</b> P1690R	RR2	Poncho 250	32500	—	Atrazine 4F Atrazine 4L Roundup PowerMax	—	280/96/100	John Deere 1720 Stack-Fold MaxEmerge Plus John Deere S670
<b>S H Jackson Farms LLC</b> Manning, SC	261.8281	<b>Pioneer</b> P1303HR	HX1,LL,RR2	Poncho 250	30000	—	Roundup PowerMax	—	280/50/200	John Deere 1700 MaxEmerge XP John Deere 9770



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## TOP THREE WINNERS BY CLASS

	Yield	Hybrid Brand/ No.	Traits	Seed Treatment	Harvest Population	Insecticide	Herbicide	Fungicide	N/P/K	Planter/ Harvester
<b>A NO-TILL/STRIP-TILL NON-IRRIGATED - CONTINUED</b>										
<b>SOUTH DAKOTA</b>										
<b>Nathan Hoefft</b> Stratford, SD	261.4914	DEKALB DKC48-12RIB	SS/RIB	Poncho 250	29900	—	TripleFLEX	—	180/60/0	White 3700 John Deere 9770
<b>Swisher Inc.</b> Groton, SD	244.4074	Croplan Seed 4099SS/RIB	SS/RIB	Acceleron 500	35000	—	Laudis Roundup WeatherMax	Headline	300/100/0	John Deere 1770 NT CCS John Deere 9770 STS
<b>Barry Loomis</b> Bruce, SD	233.6133	DEKALB DKC53-56RIB	SS/RIB	Poncho 250	34000	Capture 2 EC	Breakfree ATZ Lite Realm Q	—	180/80/50	John Deere 1770 NT CCS John Deere 9660 STS
<b>TENNESSEE</b>										
<b>Willis Farm</b> Hillsboro, TN	315.5055	AgriGold A6573 VT3PRIB	VT3P/RIB	Poncho 500	36500	Capture LFR	2,4-D Ester Atrazine 4F Halex GT, Touchdown 5	Headline AMP Quadris	313/76/53	John Deere 7000 Case IH 5130
<b>Kenneth Barnes</b> Union City, TN	306.8962	DEKALB DKC66-87	VT2P	Acceleron+Poncho 250	36000	—	Degree Xtra	—	270/150/200	John Deere 7200 Case IH 8230
<b>Steve Dixon</b> Estill Springs, TN	287.6084	Pioneer P2089YHR	YGCB,HX1, LL,RR2	Poncho 250	31000	—	Atrazine 90 DF Dicamba, Leadoff Roundup PowerMax	—	280/100/100	Kinze 3600 Case IH 5130
<b>TEXAS</b>										
<b>Toby Kautz</b> Arthur City, TX	208.4540	Pioneer P1498AM™	AM,LL,RR2	Poncho 1250	30000	—	Atrazine 4L	Headline	250/0/0	Kinze 2600 John Deere 9870
<b>Brian Fink</b> Seguin, TX	163.6026	Pioneer P1395HR	HX1,LL,RR2	Poncho 1250	23000	—	Atrazine 90 DF Rifle Plus Roundup PowerMax	—	135/30/6	John Deere 1720 Integral Stack-Fold John Deere S670
<b>VIRGINIA</b>										
<b>Guy Gochenour</b> Woodstock, VA	304.9860	DEKALB DKC62-08RIB	SS/RIB	Acceleron	33300	—	—	—	180/0/0	Kinze 3500 John Deere 9560
<b>Faraway Farms Inc</b> McGaheysville, VA	231.9092	Pioneer P1319HR	HX1,LL,RR2	Pentilex Poncho 250	29000	Asana XL	AAtrex + Princep Gramoxone SL 2.0 Primero, Prowl H2O Touchdown Total	—	130/0/0	Kinze 3500 Case IH 1660
<b>Nelson Eberly</b> Harrisonburg, VA	231.7143	Seed Consultants 11HR63	RR,HX,LL	Dynasty+ Poncho 1250	31600	Asana	AAtrex +, Gramoxone Princep, Zemax Touchdown Total	Quilt Xcel	180/31/5	John Deere 7200 Case IH 5088
<b>VERMONT</b>										
<b>Dan King</b> Vernon, VT	231.1026	Pioneer P0216AM™	AM,LL,RR2	Cruiser	42500	—	Resolve Q Roundup PowerMax	—	200/15/150	Kinze 3500 Case IH 1460
<b>WASHINGTON</b>										
<b>John Aeschliman</b> Colfax, WA	100.9820	Pioneer P7213R	RR2	Raxil	28000	—	—	—	150/30/0	John Deere 7000 Case IH 9230
<b>WEST VIRGINIA</b>										
<b>Jay Justice</b> Beckley, WV	345.3781	DEKALB DKC64-69	VT3P	Amplify D+ Poncho 1250	34000	—	2,4-D Roundup Max	—	300/100/100	John Deere 1770 Conservation Claas Lexion 750
<b>Grace Wolpert</b> Hurricane, WV	301.0713	DEKALB DKC64-99RIB	VT2P/RIB	Acceleron+ Poncho 250	33000	—	Atrazine, Banvel Corvus, Glyphosate Roundup PowerMax	—	260/0/120	John Deere 1790 John Deere S670
<b>Bailey Wolpert</b> Hurricane, WV	288.3221	DEKALB DKC61-88RIB	VT3P/RIB	Acceleron+ Poncho 250	33000	—	Atrazine, Banvel Corvus, Glyphosate Roundup PowerMax	—	260/0/120	John Deere 1790 John Deere S670
<b>WYOMING</b>										
<b>David Hinman</b> Wheatland, WY	135.9670	Pioneer P9690R	RR2	Amplify D+ Poncho 250	18425	—	Halex GT PowerMax	—	150/125/50	John Deere 1720 MaxEmerge XP John Deere 9500





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## First Place



PHOTO: JIM PATRICO

### COX FARMS

Delta, MO

349.1015 bu./acre

Pioneer P2089YHR

Population: 33,000

Harvester: John Deere STS 9670S

#### SUPERVISORS

James (Jim) Gosche: Ag Loan Officer,  
Alliance Bank

Larry Hamm: Ag Loan Officer, Retired

After a five-year absence, Jerry Cox and his son, Matt, are back in the contest winner's circle in a big way. Jerry took first-place honors in this class with his Cox Farms' entry, while Matt's J & M entry earned third-place recognition. Dating back to 1995, the Cox family has earned 23 awards in the National Corn Yield Contest.

Jerry Cox's preparation for the contest started the previous fall with a complete soil test. "It's something we do every year," he says. "It lets us know if we need to make any corrections in our fertility program. How can you get where you want to go if you don't know where you're starting out? We think of it as a road map."

A wet spring delayed planting until April 19. "I would have liked to plant about three weeks earlier," Cox says. "In the past, we've had our best yields on fields that we planted at the end of March. If we had been able to do that this year, our yield might have been even better."

A two-inch rain a few days after planting brought additional concerns. "It really packed the ground," he says. "Fortunately, we had a little shower right afterwards that loosened up the soil a bit." Treating the seed with Amplify L and putting a starter fertilizer of 6 gal. per acre of 8-16-11-2S plus 1 qt. of zinc in the furrow also helped.

Immediately after the crop went into the

ground, Cox applied a full rate of Cinch ATZ, using 12 gal. per acre of 32% nitrogen as a carrier.

"With the starter, you're making sure nutrients are available for the plant right off the bat. If you can get that plant off to a healthy start, you're way ahead of the game."

At V3/V4, Cox applied another 2 gal. per acre of 8-16-11-2S plus ½ pt. of zinc and ½ pt. of boron. At the same time, he sidedressed 55 gal. of 32% nitrogen. Additional nitrogen applications a week before tassel and at brown silk rounded out his nutrient-management program.

Throughout the season, Cox was in his contest fields daily. "You have to get out there, check the plants' general health and look for insects and diseases. You want to be proactive, not reactive, and get the little things fixed before they turn into real problems."

### High-Yield Pathways

- ▶ Soil test annually to identify fertility needs.
- ▶ Use a starter fertilizer to give plants an early leg up.
- ▶ Scout often to head off potential problems.

## Second Place

### NICK LANPHER

Cape Girardeau, MO

314.0863 bu./acre

Pioneer P1602YHR

Population: 32,000

Harvester: John Deere STS 9670

In his fourth year of entering the contest, Nick Lanpher is in the national winner's circle for the first time. "Finally getting there feels great," he says.

Lanpher gives the lion's share of the credit for his contest success to his soil. "It's a good, black, working dirt that holds moisture real well."

Applying 200 lbs. per acre of potash in January also played a role. "With potash, you have to get out there early and give it some time to break down," he says. "If you wait too long, it might not be there for the plants when they need it."

He turned planting chores over to neighbor and long-time friend Jerry Cox, the first-place winner in this class. "What you do at planting will determine how the crop does through the rest of the season," Lanpher says. "If you get any stagger in the stand, it will cost you at pollination. You have to get everything planted at the same depth, and you have to slow down with the planter. Jerry has a knack for getting it done just right."

#### SUPERVISORS

James (Jim) Gosche: Ag Loan  
Officer, Alliance Bank

Larry Hamm: Ag Loan Officer,  
Retired

## Third Place

### J & M FARMS

Scott City, MO

312.5826 bu./acre

Pioneer P1602YHR

Population: 32,000

Harvester: John Deere STS 9670

Nearly perfect growing conditions played a big part in Matt Cox's yield of 312-plus bushels, good enough for a third-place finish in this class. "It stayed cool just about all summer long," Matt relates. "We did get about a week of hot, humid weather in the middle of August, but by then, the crop was already made."

Making two fly-on applications of Aproach Prima fungicide—one at V6, the other at white blister—was a new practice for Cox this year. "In the past, we've usually just done one application late in the season," he explains. "We wanted to see if making one earlier would give us an additional advantage with plant health. It seemed to work well this year."

Cox coupled the second fungicide spraying with an application of Conklin's Feast XL. "It is an additional expense," he says. "But if you find yourself in a high-yield environment, it can give you a little bump at grain-fill. If you're looking at a yield of 250 bushels or below, it's probably a tougher call on whether or not it will pay for itself."

#### SUPERVISORS

James (Jim) Gosche: Ag Loan  
Officer, Alliance Bank

Larry Hamm: Ag Loan Officer,  
Retired



	Yield	Hybrid Brand/ No.	Traits	Seed Treatment	Harvest Population	Insecticide	Herbicide	Fungicide	N/P/K	Planter/ Harvester
<b>AA NO-TILL/STRIP-TILL NON-IRRIGATED</b>										
<b>IOWA</b>										
<b>TNT Farm Partnership</b> Washington, IA	284.1953	Pioneer P1257AMXT™	AMXT,LL,RR2	None	34500	—	—	—	220/60/80	John Deere 1770 NT CCS Case IH 8010
<b>Herb &amp; Bill Rock</b> Avoca, IA	276.1839	Pioneer P1555CHR	RW,HX1, LL,RR2	Poncho 1250	30000	—	Abundit Extra, Atrazine 4L Callisto, Cinch ATZ Lite	—	180/75/60	Kinze 3600 Case IH 7230
<b>RMJ Jensen Farms Ltd</b> Neola, IA	273.0768	DEKALB DKC62-08RIB	SS/RIB	None	34000	—	—	—	0/0/0	John Deere 1790 CCS John Deere S660
<b>ILLINOIS</b>										
<b>Scott Ziegler</b> White Heath, IL	290.2162	DEKALB DKC67-57RIB	VT3P/RIB	Poncho 250	36000	—	AAtrex Balance Flexx Roundup PowerMax	—	280/230/200	White 6122 White 9700
<b>Simpsons Rolling Acres</b> Evansville, IL	289.8433	Pioneer P2088AM™	AM,LL,RR2	Poncho 1250	30000	—	Atrazine 90 DF Callisto	—	180/150/150	Kinze 3600 John Deere 9500
<b>Zackary Youngquist</b> Cameron, IL	289.2003	Pioneer P1221AMXT™	AMXT,LL,RR2	Poncho 1250+ VOTIVO	37800	—	Lexar Touchdown	Quilt Xcel	240/100/100	John Deere 1770 Front-Fold Flex John Deere S680
<b>INDIANA</b>										
<b>Hardy Bros Dairy Farms</b> Roanoke, IN	307.3242	DEKALB DKC62-97RIB	VT3P/RIB	None	38100	—	Clarity Plus Harness Xtra 5.6L Roundup PowerMax	Fortix	220/75/120	John Deere 1770NT MF 9795 Axial
<b>Terry Vissing</b> Marysville, IN	295.1192	DEKALB DKC66-40RIB	SS/RIB	Degree Xtra	33000	Capture 2 EC	Degree Xtra	—	240/70/90	John Deere 1790 CCS John Deere 9670 STS
<b>Graham Creek Farms</b> Commiskey, IN	281.4249	DEKALB DKC62-08RIB	SS/RIB	Poncho 500	34000	Tombstone Helios	Degree Xtra Gramoxone SL 2.0 Princep 4L, Status Roundup PowerMax	Headline AMP	235/92/152	John Deere 1770 NT CCS John Deere S680
<b>MINNESOTA</b>										
<b>Chris Sobeck</b> Winona, MN	262.2668	DEKALB DKC62-97RIB	VT3P/RIB	Poncho 1250	36000	—	Class Act Halex GT	—	250/48/160	Kinze 3600 Case IH 5088
<b>Jordan J Redalen</b> Fountain, MN	261.5865	DEKALB DKC57-75RIB	SS/RIB	Poncho 500	36000	—	Roundup PowerMax Status, TripleFLEX	—	56/20/120	John Deere 1770NT CCS ProXP John Deere S660
<b>Joseph &amp; James Schieber</b> Caledonia, MN	254.4629	Pioneer P0533AM1™	AM1,LL,RR2	Cruiser Extreme 250	32500	—	Accent Q, Hornet WDG Verdict	—	130/46/60	John Deere 1750 MaxEmerge XP Case IH 5088
<b>MISSOURI</b>										
<b>Cox Farms</b> Delta, MO	349.1015	Pioneer P2089YHR	YGCB,HX1, LL,RR2	Amplify L + Poncho 250	33000	—	Cinch ATZ	—	320/46/120	John Deere 1720 Stack-Fold MaxEmerge Plus John Deere 9670
<b>Nick Lanpher</b> Cape Girardeau, MO	314.0863	Pioneer P1602YHR	YGCB,HX1, LL,RR2	Amplify L+ Poncho 250	33000	—	Cinch ATZ	—	300/50/100	John Deere 1720 Stack-Fold MaxEmerge Plus John Deere 9670
<b>J &amp; M Farms</b> Scott City, MO	312.5826	Pioneer P1602YHR	YGCB,HX1, LL,RR2	Amplify L+ Poncho 250	33000	—	Cinch ATZ	—	320/45/120	John Deere 1720 Stack-Fold MaxEmerge Plus, John Deere 9670
<b>OHIO</b>										
<b>Bill Putnam</b> Conover, OH	289.3752	DEKALB DKC63-33RIB	SS/RIB	Poncho 500	38000	—	Harness Xtra 5.6L Roundup WeatherMax	Fortix	210/100/200	Kinze 3600 Case IH 5130
<b>Heilmann Farms Inc.</b> Whitehouse, OH	284.5833	DEKALB DKC52-61	VT2P	Poncho 500	34000	—	Roundup PowerMax	—	146/40/110	Kinze 3600 Claas Lexion 740
<b>Ronald Saum</b> Fort Jennings, OH	268.3511	Great Lakes Hybrid 6530VT3PRIB	VT3P/RIB	Poncho 1250	33200	—	AAtrex 4L Roundup PowerMax Weedone LV6	—	235/70/180	John Deere 1770NT John Deere S660
<b>WISCONSIN</b>										
<b>Mez Farms 1</b> Bagley, WI	284.7154	DEKALB DKC62-08	SS	Cruiser MAX	50000	—	Lumax	Headline	400/50/50	John Deere 1780 MaxEmerge Plus Drawn Narrow-Row John Deere 9750
<b>Oak Valley Farms</b> Bloomington, WI	273.0448	DEKALB DKC57-92RIB	SS/RIB	Acceleron	39500	—	Harness Hornet	—	290/109/129	John Deere 1760NT MaxEmerge XP John Deere 9660 STS
<b>Carla Hargrave</b> Saronna, WI	263.2297	DEKALB DKC57-75RIB	SS/RIB	None	40000	—	—	—	275/90/120	Kinze 3600 John Deere S670



## First Place



PHOTO: JIM PATRICO

### DAVID HULA

Charles City, VA

476.2201 bu./acre

Pioneer P1794VYHR

Population: 48,100

Harvester: John Deere S670

### SUPERVISORS

Meaghann Terrien: Water-Quality Specialist, SWCD

Phil Hickman: Marketing Specialist, Virginia Dept. of Ag and Consumer Services

Brian Noyes: District Manager, SWCD

When it comes to producing contest-winning yields, David Hula doesn't stand still. In 2013, Hula captured first place in this class with a world record yield topping 454 bushels. This year, he bested that effort by 22 bushels.

A wetter-than-normal spring forced Hula to delay planting his contest field until May 3. "Typically, we've had our best success when we've been able to get the crop in the ground around the middle of April," he says.

With the late planting date, Hula was concerned pollination would coincide with the hottest weather of the season. "But fortunately, God blessed us with a cooler-than-normal July. We had just a few warm days."

Hula planted Pioneer P1794VYHR at 50,000 seeds per acre. "It's a tall corn that stands well and has great plant health; and it exceptionally stays green."

He over-treated the seed with zinc, along with Poncho 1250+ and VOTIVO (for early-season protection against pests). At planting, a 65-33-0 starter fertilizer with 6 lbs. of sulfur, 0.6 lbs. of zinc, 0.1 lbs. of boron and humic and folic acid was applied 3 inches to the side and 2 inches below the seed, while 5 gal. per acre of a 3-18-18 pop-up fertilizer was placed in the furrow.

The late start made it tempting to rush through the field during planting. Hula instructed his son, Craig, to keep planting speed at no more than 3.5

mph. "You can't overemphasize the importance of good, even spacing and the right seed depth for getting uniform emergence," he says.

In his nutrient management program, Hula's goal is to stay ahead of the plants' needs throughout the season. Relying on data from years of recordkeeping, he's identified V3/V4 as a critical stage when the corn plants are starting to photosynthesize but haven't yet developed much of a root system. To address potential deficits, he applied micronutrients and biological products.

In recent years, he's also seen that delivering nitrogen, potash and some micronutrients through his pivots just before tassel can have a big impact on yields. "We haven't fine-tuned it entirely, but right now, somewhere between 25% to 30% of our nitrogen and 20% of our potash is going on later, between V12 and tassel. If you can keep that plant healthy and green longer, yield will benefit."

## High-Yield Pathways

- ▶ Slow down when planting to ensure uniform stand emergence.
- ▶ Utilize your own records to time nutrient applications.
- ▶ Keep the plant as healthy and green as possible.

## Second Place

### DOWDY FARMS II

Valdosta, GA

457.8766 bu./acre

Pioneer P1303HR

Population: 42,000

Harvester: John Deere 9600

### SUPERVISORS

William "Hal" Darsey: District Conservationist, NRCS

William Garvie Nichols: County Extension Agent, University of Georgia Extension Service

Jake Price: County Extension Agent, University of Georgia Extension Service

Spending time, lots of it, with your corn crop throughout the growing season will give you a leg up when you're pursuing high yields, says Randy Dowdy, who also captured a third-place award in this category.

"The best thing a farmer can see in the field is his or her own shadow," Dowdy says. "You have to get out there and take a close look at what's going on. If you see any kind of problem, you can make a decision about what you're going to do to address it. If you're not getting out there, the best you can do is hope that everything is okay. I want to know that everything is okay."

During the season, Dowdy makes it a point to walk each of his fields at least once a week, checking for even emergence, plant health, insects, leaf architecture and more. He also encourages employees and crop scouts to keep close tabs on developments in the field as they go about their work. "I rely on updates from them to keep things going along smoothly. I can't do it all by myself."

## Third Place

### DOWDY FARMS VIII

Valdosta, GA

444.1493 bu./acre

Pioneer P1739HR

Population: 42,000

Harvester: John Deere 9600

### SUPERVISORS

William "Hal" Darsey: District Conservationist, NRCS

William Garvie Nichols: County Extension Agent, University of Georgia Extension Service

Jake Price: County Extension Agent, University of Georgia Extension Service

Even with a new world record corn yield and five other top-three placements in this year's contest, Randy Dowdy isn't about to rest on his accomplishments. He's already plotting out strategies that will help him boost yields in the year ahead. "When it comes to growing corn, my brain doesn't shut off," he says.

Row spacing will be one of Dowdy's focal points in 2015. This year, he planted some of his fields in 36-inch twin rows, others in 30-inch single rows. In 2015, he'll likely try spacings of 15- and 20-inch rows. "I'd like to see just how far we can push populations with different planting configurations," he says.

Dowdy also plans to run additional fungicide trials with products he hasn't used before and to do more experimenting with banded fertilizers. "To be a successful corn grower, you have to be willing to try new things," he says. "Sometimes, you'll run into a brick wall. But at other times, you'll find there is a better way to do things. If you're not willing to do that, you'll never really know what might happen."

# Verdict®

Powered by **Kixor®** Herbicide

# THIS SPRING ONLY PROFITS EMERGE

150 years

 **BASF**  
We create chemistry

Now you can get fast control in the spring plus the early-season residual you need to establish a strong foundation. **Verdict®** herbicide not only burns down tough weeds—like waterhemp, maretail and pigweed—it also keeps cornfields cleaner, longer.

To see field results and find out how you can customize a BASF Advanced Weed Control program to achieve yearlong success and higher yields, visit [AdvancedWeedControl.basf.us](http://AdvancedWeedControl.basf.us)



Always read and follow label directions.

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# TOP THREE WINNERS BY CLASS

Yield	Hybrid Brand/ No.	Traits	Seed Treatment	Harvest Population	Insecticide	Herbicide	Fungicide	N/P/K	Planter/ Harvester
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## NO-TILL/STRIP-TILL IRRIGATED

### ALABAMA

<b>W.W. Curtis &amp; Sons Inc.</b> Troy, AL	308.1946	DEKALB DKC62-08	SS	None	38000	—	Roundup PowerMax	Headline AMP	300/0/50	John Deere 1700 MaxEmerge XP John Deere S660
<b>Tate Farms (Jeff Tate)</b> Meridianville, AL	289.6686	Pioneer P1105YHR	YGCB,HX1, LL,RR2	PPST 250 + Pentilex	39000	Mustang MAX	Atrazine 4L Halex GT Roundup PowerMax Sterling Blue	Quadris Quilt Xcel	321/50/50	John Deere DB60 John Deere S680
<b>Annie Dee</b> Aliceville, AL	261.3894	DEKALB DKC66-97	VT2P	Poncho 250	31908	—	Atrazine 4L Halex GT, Leadoff Roundup PowerMax	—	400/30/40	John Deere 1720 CCS Stack-Fold John Deere S690

### ARKANSAS

<b>Steven Haywood</b> Success, AR	288.0793	DEKALB DKC66-87	VT2P	Poncho 500	36000	—	Halex GT Makaze Zidua	Approach	300/80/120	John Deere 1720 Stack-Fold MaxEmerge Plus John Deere S670
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### COLORADO

<b>Lenz Farms</b> Holyoke, CO	304.8714	Pioneer P1151AM™	AM,LL,RR2	Cruiser 250	33000	—	—	—	233/57/30	John Deere 1770 NT CCS John Deere S670
<b>Mike Rother</b> Arapahoe, CO	281.6135	Pioneer P1625CHR	RW,HX1, LL,RR2	Poncho 1250, Votivo	44000	—	Abundit	—	390/130/150	Monosem NG Plus 4 Case IH 8120
<b>Byron Weathers</b> Yuma, CO	277.3887	Pioneer P1625CHR	RW,HX1, LL,RR2	Amplify L+ Poncho 1250	38000	—	AAtrex 4L Roundup PowerMax	—	300/10/50	Case IH 1230 Stackbar Early Riser Case IH 9120

### CONNECTICUT

<b>Sanford Cohen</b> Ellington, CT	228.8864	Pioneer P1184AM1™	AM1,LL,RR2	Poncho 1250+ PPST 250	31000	—	AAtrex NineO DF Showdown	—	250/50/150	John Deere 1750 Gleaner M2
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### DELAWARE

<b>Ockels Acres</b> Milton, DE	317.7065	DEKALB DKC62-08RIB	SS/RIB	Acceleron	41000	Capture LFR	—	Acceleron DC-309 Headline	300/57/199	Case IH 1255 Case IH 7120
<b>DMC Farms Inc</b> Laurel, DE	313.5179	DEKALB DKC62-08	SS	Poncho 500 & Amplify D	36500	—	Lexar Touchdown Total	—	330/25/175	Kinze 3650 Case IH 7120
<b>C Melvin Wyatt</b> Harrington, DE	312.4714	Pioneer P1105AMX™	AMX,LL,RR2	Pentilex + Poncho 250	34000	Capture LFR	Lexar + Glyphosate Simazat 4L	Headline AMP Priaxor	250/11/4	Kinze 3500 John Deere 9510

### FLORIDA

<b>Stan Murphy</b> Tampa, FL	312.7338	Pioneer P1794VYHR^	AVBL,YGCB, HX1,LL,RR2	Poncho 250	37650	Counter 15 G Silencer	Expert	Quilt Xcel	300/115/300	Monosem NG Plus John Deere 9500
<b>Craig Bishop Farms, Inc.</b> Marianna, FL	287.0336	DEKALB DKC66-97	VT2P	None	40000	Counter	Atrazine Roundup	Headline AMP	400/200/380	Monosem NG Plus 4 John Deere S660
<b>Larry Ford</b> Greenwood, FL	252.4959	DEKALB DKC62-08	SS	Poncho 250	34000	Bifenthrin Bifenthrin 2EC	Atrazine 4L Dual II Magnum Steadfast DF	Folicur 3.6 F Quilt Xcel	325/150/300	John Deere 1700 Twin Row New Holland CR8090

### GEORGIA

<b>Dowdy Farms II</b> Valdosta, GA	457.8766	Pioneer P1303HR	HX1,LL,RR2	Poncho 1250	42000	—	—	Headline AMP	420/100/250	John Deere 1700 John Deere 9600
<b>Dowdy Farms VIII</b> Valdosta, GA	444.1493	Pioneer P1739HR	HX1,LL,RR2	Poncho 1250	42000	—	—	Headline AMP	400/100/250	John Deere 1700 John Deere 9600
<b>Deborah Southern</b> Cartersville, GA	275.7051	Pioneer P1690	CONV	None	30000	—	Atrazine, Halex GT Roundup Max	—	300/128/80	John Deere 1760 John Deere 9510



	Yield	Hybrid Brand/ No.	Traits	Seed Treatment	Harvest Population	Insecticide	Herbicide	Fungicide	N/P/K	Planter/ Harvester
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## NO-TILL/STRIP-TILL IRRIGATED - CONTINUED

<b>IOWA</b>										
<b>LCL Farms Inc.</b> Keokuk, IA	272.8363	Green Valley Seed GV8242VT2Pro RIB	VT2Pro RIB	Acceleron	38000	Warrior II	Lexar+Roundup	Quilt Xcel	275/75/200	White 6122 John Deere 9770 STS
<b>Roy Folkerts</b> Inwood, IA	206.7706	Pioneer P0937AM™	AM,LL,RR2	Amplify D+ Poncho 1250	34500	Aztec 4.67G	2,4-D LV6, Realm Q Abundit Extra Atrazine 4L, Prequel	—	200/0/0	John Deere 1770 NT CCS John Deere 9500 SideHill
<b>Todd Folkerts</b> Inwood, IA	204.2566	Pioneer P0937AM™	AM,LL,RR2	Amplify D+ Poncho 1250	33500	Aztec 4.67G	2,4-D LV6 Abundit Extra Atrazine 4L, Prequel Realm Q	—	200/0/0	John Deere 1770 NT CCS John Deere 9500 SideHill
<b>IDAHO</b>										
<b>McIntyre Farms LLC</b> Caldwell, ID	271.9197	DEKALB DKC46-20RIB	VT3P/RIB	Roundup, Status	36000	—	Roundup PowerMax Roundup+Status	—	250/25/0	Great Plains 2010P Gleaner S67
<b>Nicole Huits</b> Gooding, ID	270.9670	Pioneer P0302CHR	RW,HX1,LL,RR2	None	35500	—	Atrazine 4L, Makaze Surpass EC	—	223/50/50	John Deere 1720 MaxEmerge XP John Deere S670
<b>Huits Farm 1</b> Gooding, ID	268.8644	DEKALB DKC52-59	RR2	Acceleron	35500	—	Atrazine 4L, Makaze Surpass EC	—	223/50/50	John Deere 1750 MaxEmerge XP John Deere S670
<b>ILLINOIS</b>										
<b>Hugh Scates</b> Shawneetown, IL	246.8576	Pioneer P1690AM™	AM,LL,RR2	Poncho 250	35000	Asana XL Capture LFR	AAtrex 4L Abundit Extra Breakfree ATZ Realm Q, Roundup O-Max	Approach	260/100/110	John Deere DB80 John Deere S690
<b>John Scates</b> Shawneetown, IL	241.5149	Pioneer P2089AM™	AM,LL,RR2	Poncho 250	34000	Asana XL Capture LFR	AAtrex 4L Abundit Extra Breakfree ATZ Realm Q, Roundup O-Max	Approach	260/150/280	John Deere DB80 John Deere S690
<b>Mike Scates</b> Shawneetown, IL	232.6898	Pioneer P1319HR	HX1,LL,RR2	Poncho 250	34000	Asana XL Capture LFR	AAtrex 4L Abundit Extra Breakfree ATZ Realm Q, Roundup O-Max	Approach	260/150/300	John Deere DB80 John Deere S690
<b>INDIANA</b>										
<b>Craig Williams</b> Oaktown, IN	288.7745	Pioneer P1479AM™	AM,LL,RR2	VOTIVO	36000	Pounce	Cinch ATZ Laudis	Stratego YLD	250/100/150	Kinze 3600 John Deere 9560 STS
<b>Matt Spurgeon</b> Freetown, IN	254.3070	Pioneer P1602AM™	AM,LL,RR2	Poncho 1250+ VOTIVO	34000	—	2,4-D, Atrazine 4L Bicep II Magnum Buccaneer Plus, Halex GT	—	278/98/120	Kinze 4900 Case IH 7120
<b>KANSAS</b>										
<b>Damian Cyr</b> Clyde, KS	316.6753	Pioneer P1690AM™	AM,LL,RR2	PPST 1250	38000	—	DuraMax	Headline AMP	320/40/20	John Deere 1770 Drawn CCS MaxEmerge, John Deere 9770
<b>Gale Frank Farms #1</b> Copeland, KS	303.2842	Pioneer P1625CHR	RW,HX1,LL,RR2	Poncho 1250	38000	—	Lumax	—	330/0/0	Monosem Twin Row John Deere S670
<b>Robbie Yost</b> Montezuma, KS	287.7255	Pioneer P1151AM™	AM,LL,RR2	Poncho 1250+ VOTIVO	36000	—	—	—	280/50/0	John Deere 1710 Vacuum John Deere 9510
<b>KENTUCKY</b>										
<b>Walnut Grove Farms</b> Adairville, KY	344.9588	Pioneer P2089AM™	AM,LL,RR2	PPST 250	45000	—	2,4-D Amine 4, AAtrex 4L Roundup PowerMax Status, Steadfast Q	—	398/261/189	John Deere DB60 John Deere 9570
<b>David Hunt</b> Bowling Green, KY	309.5607	DEKALB DKC62-08	SS	Acceleron+ Poncho 250	35000	Mustang MAX	AAtrex NineO DF Degree Xtra PowerMax	Approach prima	260/100/100	Kinze 4900 Case IH 9230
<b>Griffith Farms</b> Mayfield, KY	297.3312	DEKALB DKC66-87	VT2P	Amplify+ Poncho 250	37000	Tombstone	Degree Xtra, Rifle Roundup PowerMax	—	200/200/200	Kinze 3600TR Claas Lexion 740

	Yield	Hybrid Brand/ No.	Traits	Seed Treatment	Harvest Population	Insecticide	Herbicide	Fungicide	N/P/K	Planter/ Harvester
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## NO-TILL/STRIP-TILL IRRIGATED - CONTINUED

### LOUISIANA

<b>Bill Moroni Farms</b> Winnsboro, LA	257.9720	Pioneer P1794VYHR <sup>^</sup>	AVBL,YGCB, HX1,LL,RR2	Poncho 1250	34000	—	—	—	280/60/90	John Deere 1700 MaxEmerge Vacuum, John Deere S670
<b>Case Moroni</b> Winnsboro, LA	244.1061	Pioneer P1690R	RR2	Poncho 1250	34000	—	—	—	280/60/90	John Deere 1700 MaxEmerge Vacuum, John Deere S670
<b>John &amp; Bill Moroni Farm</b> Winnsboro, LA	239.2038	Pioneer P1319HR	HX1,LL,RR2	Poncho 1250	32000	—	Leadoff Realm Q	Approach Prima	250/60/60	John Deere 1700 MaxEmerge Vacuum, John Deere S670

### MASSACHUSETTS

<b>Sarah Henry</b> Southampton, MA	267.2489	Pioneer P2088AMX <sup>TM</sup>	AMX,LL,RR2	Amplify D+ Cruiser	39000	—	Prowl H2O Roundup PowerMax	—	300/40/170	Kinze 2500 Case IH 2366
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### MARYLAND

<b>Mica Farms</b> Church Hill, MD	309.0414	Pioneer P1105AM <sup>TM</sup>	AM,LL,RR2	VOTIVO	33000	Capture LFR Warrior	Lexar, Princep 4L Roundup	—	300/60/200	John Deere 1790 CCS John Deere S660
<b>Redman Farms</b> Queen Anne, MD	275.4024	DEKALB DKC61-88RIB	VT3P/RIB	Avicta	35000	Asana XL Counter 20 G	Lexar Princep 4L	Quilt Xcel	210/52/120	John Deere 1770 NT CCS John Deere S670
<b>Clearview Farms Inc</b> Hurlock, MD	262.7306	Pioneer P1319HR	HX1,LL,RR2	Poncho 250	33450	Warrior II	Atrazine 4L, Zidua Basis Blend Roundup PowerMax	Quadris Stratego YLD	248/46/150	John Deere 1770NT John Deere S670

### MICHIGAN

<b>Phil Crawford</b> Dowagiac, MI	233.2244	DEKALB DKC62-08	SS	Poncho + Votivo 250	35000	—	SureStart	—	225/63/120	Kinze 3600 Case IH 8120
<b>K&amp;R Farms</b> Carson City, MI	226.2522	DEKALB DKC47-35RIB	SS/RIB		29000	—	—	—	175/25/60	John Deere 7000 Conservation John Deere S670
<b>Scott Jirgens</b> Kalamazoo, MI	221.8910	Golden Harvest G12J11-3011A	AS3011	Avicta	35000	—	—	—	260/100/180	Case IH 955 Parallel-Fold Case IH 8120

### MINNESOTA

<b>Sobeck Farms</b> Winona, MN	231.8299	DEKALB DKC60-67RIB	RIB	Poncho 1250	42000	—	Class Act Halex GT	—	270/48/160	Kinze 3600 Case IH 5088
<b>Robert Braun</b> Le Sueur, MN	216.2093	DEKALB DKC53-78RIB	SS/RIB	Acceleron	31000	—	Durango, Status SureStart	—	207/12/0	John Deere 7000 Front-Fold MaxEmerge, Gleaner S77
<b>Roger Toquam</b> Blooming Prairie, MN	211.6430	DEKALB DKC54-38RIB	SS/RIB	None	37000	—	Roundup TripleFLEX	—	170/70/120	Kinze 3600 Gleaner S77

### MISSOURI

<b>M &amp; B Farms</b> Scott City, MO	348.4177	Pioneer P2089YHR	YGCB,HX1, LL,RR2	Amplify L+ Poncho 250	34000	—	Cinch ATZ	—	320/46/120	John Deere 1720 Stack-Fold MaxEmerge Plus John Deere 9670
<b>C &amp; G Farms</b> Chaffee, MO	288.7991	Seed Consultants 11RR31	RR	Amplify	34000	—	—	—	275/95/70	John Deere 1720 Case IH 9120
<b>Hinkebein Farms</b> Chaffee, MO	287.8442	Seed Consultants 11AGT43	GT/CB/LL	Amplify	34500	—	—	—	275/95/70	John Deere 1720 Case IH 9120

### MISSISSIPPI

<b>Philip Good</b> Macon, MS	267.1007	Pioneer P1319R	RR2	Poncho 250	32000	—	Atrazine 4L Halex GT	—	220/100/100	John Deere 1720 MaxEmerge XP John Deere S670
<b>Tyler Huerkamp</b> Macon, MS	246.0155	Pioneer P1794VYHR <sup>^</sup>	AVBL,YGCB, HX1,LL,RR2	Cruiser 250	32000	—	Atrazine, Leadoff Roundup, Halex GT	—	280/0/0	John Deere 1720 MaxEmerge XP Claas Lexion 740

	Yield	Hybrid Brand/ No.	Traits	Seed Treatment	Harvest Population	Insecticide	Herbicide	Fungicide	N/P/K	Planter/ Harvester
NO-TILL/STRIP-TILL IRRIGATED - CONTINUED										
<b>MONTANA</b>										
<b>Brent Icopini</b> Hysham, MT	210.3846	Pioneer P9305AM™	AM,LL,RR2	Raxil, PPST 250	38000	—	Balance Flexx Outlook, Roundup	—	180/100/80	Monosem NG Plus Case IH 9230
<b>Bart Icopini</b> Hysham, MT	207.9106	Pioneer P9675AMX™	AMX,LL,RR2	Raxil, PPST 250	38000	—	Balance Flexx Outlook, Status Roundup PowerMax	—	210/90/60	Monosem NG Plus Case IH 9230
<b>Joseph Icopini</b> Hysham, MT	205.5323	Pioneer 38N85	RR2	Raxil, PPST 250	38000	—	Balance Flexx Outlook, Status Roundup PowerMax	—	180/100/80	Monosem NG Plus Case IH 9230
<b>NORTH CAROLINA</b>										
<b>Matthews Family Farms of NC, Inc.</b> East Bend, NC	272.7614	Pioneer P1775YHR	YGCB,HX1, LL,RR2	Dynasty+ Poncho 1250	33000	Tombstone Helios	Atrazine 4L Bicep II Magnum Clarity, Halex GT Gramoxone Inteon	Headline AMP Priaxor	300/300/251	John Deere 1790 CCS John Deere S670
<b>Three G Farms</b> Clinton, NC	261.1025	DEKALB DKC64-69	VT3P	Acceleron 1250	35000	Bifenthrin 2EC	Atrazine+Roundup Bicep II	Headline AMP Priaxor	340/50/150	John Deere 1700 John Deere 9670
<b>Robert Naylor Farms</b> Clinton, NC	252.9037	Pioneer P1794VYHR^	AVBL,YGCB, HX1,LL,RR2	Poncho 1250	35000	—	Atrazine, Bicep Roundup	—	340/50/150	John Deere 1700 MaxEmerge Vacuum, John Deere 9670
<b>NORTH DAKOTA</b>										
<b>Jamie Gorder</b> Wahpeton, ND	274.5014	Pioneer P9917	CONV	Poncho 250	39000	—	—	—	250/150/200	John Deere 1710 Vertical-Fold John Deere 9770
<b>Frauenberg Farms #1</b> LaMoure, ND	271.7294	DEKALB DKC47-35RIB	SS/RIB	Jump Start+Poncho 250, Conklin, Acceleron	47500	Kendo	Atrazine 4L Harness Roundup WeatherMax	Headline Headline AMP Priaxor	300/150/50	Case IH 1265 Case IH 9120
<b>Quandt Brothers #3</b> Oakes, ND	226.6091	Channel 196-05VT2PRIB	VT2P/RIB	Poncho 250	36000	—	Atrazine, Durango Laudis, Powermax	—	185/75/60	White 8824 Case IH 9230
<b>NEBRASKA</b>										
<b>Douglas Boldt</b> Upland, NE	305.9754	Pioneer P1690AM™	AM,LL,RR2	Poncho 1250	34800	—	2,4-D LV Atrazine 4L Corvus	—	240/75/0	John Deere 1720 Integral Stack-Fold John Deere S660
<b>Randy Wadas</b> North Loup, NE	301.8082	Pioneer P1151AM™	AM,LL,RR2	Poncho 250+Raxil	39000	—	Atrazine 4L Corvus Roundup PowerMax	Headline AMP Priaxor	275/157/6	John Deere 1720 Stack-Fold MaxEmerge Plus John Deere 9760 STS
<b>Jon Abrahamson</b> Axtell, NE	301.5652	Pioneer P1151AM™	AM,LL,RR2	Poncho 1250+ VOTIVO	37000	—	Atrazine 4L, Corvus Roundup PowerMax	Approach	310/98/20	Case IH 1230 Stackerbar Early Riser, Case IH 7120
<b>NEW HAMPSHIRE</b>										
<b>Five Point Farm</b> Northfield, NH	237.3800	Pioneer P9917AMX™	AMX,LL,RR2	Poncho 1250	36000	—	Lumax	—	250/30/237	John Deere 7200 John Deere 9500
<b>NEW JERSEY</b>										
<b>Matthew Santini</b> Phillipsburg, NJ	310.2118	DEKALB DKC61-21RIB	SS/RIB	Capture	36000	—	Guardsman Prowl H2O	—	250/100/100	John Deere 1790 CCS John Deere 9670
<b>Clara Santini</b> Stewartsville, NJ	288.0118	DEKALB DKC64-87RIB	SS/RIB	Acceleron	38000	Capture	Infantry 4L, Zidua Prowl H2O	—	300/50/50	John Deere 1790 CCS John Deere S660
<b>New Village Farms</b> Phillipsburg, NJ	286.5401	Pioneer 34F07	HX1,LL,RR2	Capture	36000	—	Guardsman Prowl H2O	—	250/100/100	John Deere 1790 CCS John Deere 9670
<b>NEW MEXICO</b>										
<b>Foresure Farms</b> Dalhart, NM	300.0280	Pioneer P1625CHR	RW,HX1, LL,RR2	Poncho 1250	41000	—	—	—	325/50/70	John Deere 1770 NT CCS Case IH 8230



# TOP THREE WINNERS BY CLASS

	Yield	Hybrid Brand/ No.	Traits	Seed Treatment	Harvest Population	Insecticide	Herbicide	Fungicide	N/P/K	Planter/ Harvester
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## NO-TILL/STRIP-TILL IRRIGATED - CONTINUED

<b>Friendly Farms</b> Midland, NM	274.1105	Pioneer P1625CHR	RW,HX1, LL,RR2	Poncho 1250+ VOTIVO	32000	Prevathon	2,4-D, Cadet Anthem ATZ, Roundup Status, Verdict	CoC Fortix	320/0/0	John Deere 1770 Case IH 1680
<b>Seneca Valley LLC</b> Felt, NM	260.1397	Pioneer P1151R	RR2	Poncho 1250	30000	—	AAtrex 4L, Banvel Durango, Hook, Starane	—	240/35/0	John Deere 1770NT John Deere 9670 STS
<b>NEW YORK</b>										
<b>Adrianna Jones</b> Catskill, NY	256.2114	Pioneer P0993AM1™	AM1,LL,RR2	Pentilex	38000	—	—	—	300/50/100	John Deere 1770NT John Deere 9770
<b>Keith Jones</b> Catskill, NY	253.9568	Pioneer P0604AM™	AM,LL,RR2	Pentilex	38000	—	—	—	300/50/100	John Deere 1770NT John Deere 9770
<b>RL Jeffres &amp; Sons, Inc.</b> Wyoming, NY	250.6139	Pioneer P0533AM1™	AM1,LL,RR2	Poncho 250	32500	—	Banvel, Bicep Lite Touchdown Total	—	134/13/3	Case IH 1255 Front-Fold Early Riser Case IH 8230
<b>OHIO</b>										
<b>Mike Funderburgh</b> North Lewisburg, OH	256.4715	Pioneer P0993HR	HX1,LL,RR2	PPST 250	36000	Bifenthrin	Atrazine 90 DF Halex GT	—	180/64/57	John Deere 1790 CCS John Deere 9660 STS
<b>Matt Milless</b> Amanda, OH	256.4286	Seed Consultants 11HQ33	HXX,RR,LL	Cruiser Extreme 250	45000	Pilot 15G	Lexar EZ Roundup PowerMax Salvo 2,4-D, Status	Headline AMP Priaxor	320/125/150	John Deere 7200 John Deere 9500
<b>OKLAHOMA</b>										
<b>Nathan Johnson</b> Boise City, OK	289.8720	Pioneer P1625CHR	RW,HX1, LL,RR2	None	42000	—	Cinch ATZ	—	325/70/0	John Deere 1760 MaxEmerge Plus Vacuum, John Deere 9760
<b>Tracy Keezer</b> Clayton, OK	288.4138	DEKALB DKC64-69	VT3P	Avicta	31000	—	Balance Flexx Harness Xtra	—	300/0/0	John Deere 1720 Case IH 7088
<b>G&amp;T Farms Partnership</b> Hugoton, OK	284.9464	Pioneer P2088AM™	AM,LL,RR2	Poncho 1250	36000	—	Prequel Realm Q	—	312/60/40	John Deere 1770 NT CCS John Deere S670
<b>OREGON</b>										
<b>Fredrickson Farming</b> Boardman, OR	314.1384	DEKALB DKC62-06	CONV	Avicta Complete Corn	37000	—	Atrazine 4L Roundup PowerMax Sharpen	—	280/180/115	John Deere 1700 MaxEmerge Vacuum, John Deere 9770 STS
<b>PENNSYLVANIA</b>										
<b>Rhoda Mast</b> Morgantown, PA	237.3599	Pioneer P1498AM1™	AM1,LL,RR2	Poncho 1250	33500	Force 1.5G Province	Balance Flexx Brawl ATZ, Gromoxone	—	280/0/0	John Deere 1750 MaxEmerge Plus John Deere 9600
<b>SOUTH CAROLINA</b>										
<b>Jameson Farms #3</b> Orangeburg, SC	305.8668	Pioneer P2088YHR	YGCB,HX1, LL,RR2	Amplify L+ Poncho 250	36000	Counter 20 G	Atrazine 90 DF Impact Roundup PowerMax	Stratego YLD	275/30/100	John Deere 1700 MaxEmerge XP Case IH 6088
<b>Jameson Farms #1</b> Orangeburg, SC	304.2111	Pioneer P1303HR	HX1,LL,RR2	Amplify L+ Poncho 250	36000	Counter 20 G	Atrazine 90 DF Impact Roundup PowerMax	Headline AMP	250/30/75	John Deere 1700 MaxEmerge XP Case IH 6088
<b>Jameson Farms #5</b> Orangeburg, SC	300.9050	Pioneer P1739HR	HX1,LL,RR2	Amplify L+ Poncho 250	33455	Counter 20 G	Atrazine 90 DF Impact Roundup PowerMax	Stratego YLD	275/30/100	John Deere 1700 MaxEmerge XP Case IH 6088
<b>SOUTH DAKOTA</b>										
<b>Lower Brule Farms</b> Pukwana, SD	260.2466	DEKALB DKC59-90RIB	SS/RIB	Poncho 250	33000	—	Harness Xtra Roundup PowerMax	—	300/50/10	John Deere 1720 CCS John Deere S680
<b>Lower Brule Farm Corp.</b> Fort Pierre, SD	259.6510	DEKALB DKC59-90RIB	SS/RIB	Poncho 250	33000	—	Harness Xtra Roundup PowerMax	—	300/50/10	John Deere 1720 CCS John Deere S680
<b>Prairie Creek Ranch</b> Yankton, SD	235.2345	Pioneer P1151AM™	AM,LL,RR2	Poncho 1250	32000	—	—	—	180/60/40	Case IH 1200 Case IH 7120

	Yield	Hybrid Brand/ No.	Traits	Seed Treatment	Harvest Population	Insecticide	Herbicide	Fungicide	N/P/K	Planter/ Harvester
NO-TILL/STRIP-TILL IRRIGATED - CONTINUED										
<b>TENNESSEE</b>										
<b>Catesa Farms LLC</b> Ridgely, TN	333.2557	LG Seeds LG2555VT3PRIB	VT3P/RIB	Poncho 500	35000	—	Atrazine 90 DF, Banvel Halex GT, Leadoff Roundup PowerMax	Quadris	280/50/115	Kinze 3700 Case IH 8230
<b>Hunt Farms</b> Henderson, TN	263.0871	DEKALB DKC62-08	SS	Poncho 250	32000	—	Halex GT Roundup	Quadris	200/60/120	Kinze 3600 John Deere 9600
<b>Ernie Diggs</b> Paris, TN	238.1190	Pioneer 33G60	HX1,LL,RR2	Cruiser	30000	Grizzly	Atrazine, Capreno Gramoxone, Leadoff	—	225/80/90	John Deere 1790 CCS John Deere S680
<b>TEXAS</b>										
<b>D &amp; M Carpenter Enterprises</b> Dimmitt, TX	349.5962	Pioneer P1625CHR	RW,HX1, LL,RR2	Poncho 1250+ VOTIVO	40000	Oberon	Balance Flexx Triangle	—	300/50/20	John Deere DB60 John Deere S680
<b>Rouser Farms</b> Sunray, TX	306.1522	Integra Hybrid 9678-VT3PRO	VT3PRO	Accelaron 250	36000	—	AAtrex, Powermax Status, Verdict	Headline AMP Priaxor	300/60/0	John Deere 7300 MaxEmerge 2 John Deere 9750
<b>Buckley Farms</b> Dimmitt, TX	306.0604	Pioneer 33Y77AM1™	AM1,LL,RR2	Poncho 250	39500	Comite II	Atrazine, Balance Laudis	—	300/20/10	John Deere 1720 Integral Stack-Fold, John Deere S680
<b>UTAH</b>										
<b>Lynn Summers</b> Tremonton, UT	253.1717	DEKALB DKC44-13RIB	SS/RIB	None	40000	—	—	—	250/50/0	John Deere 1710 John Deere S670
<b>Ross Summers</b> Tremonton, UT	250.5687	DEKALB DKC48-12RIB	SS/RIB	None	40000	—	—	—	250/50/0	John Deere 1710 John Deere S670
<b>Joseph Summers</b> Tremonton, UT	243.0101	DEKALB DKC48-12RIB	SS/RIB	None	40000	—	—	—	250/50/0	John Deere 1710 John Deere S670
<b>VIRGINIA</b>										
<b>David Hula</b> Charles City, VA	476.2201	Pioneer P1794VYHR^	AVBL,YGCB, HX1,LL,RR2	Pentilex, Poncho-Votivo	49800	—	Bicep II Magnum Metabuzin, Touchdown	—	480/200/450	John Deere 1770NT John Deere S670
<b>Craig Hula</b> Charles City, VA	406.9294	DEKALB DKC64-89RIB	VT2P/RIB	Pentilex, Poncho-Votivo	46000	—	Bicep II Magnum Metabuzin, Touchdown	—	480/200/450	John Deere 1770NT John Deere S670
<b>Tyler Franklin</b> Tappahannock, VA	291.9533	Channel 215-52VT3P/RIB	VT3P RIB	Poncho 1250	35500	Karate	2,4-D, Atrazine, Corvus, Gramoxone, Simazine	Headline Quadris	300/60/120	Kinze 3600 John Deere 9500
<b>WASHINGTON</b>										
<b>Nelson Cox Farms Inc</b> Warden, WA	247.1087	Pioneer P9910R	RR2	None	40000	—	Banvel Roundup	—	300/120/100	John Deere 7300 MaxEmerge 2 John Deere S680
<b>WISCONSIN</b>										
<b>Adam Flyte</b> Coloma, WI	227.8201	Channel 197-68STXRIB	SS/RIB	Poncho+ Votivo 500	34500	—	—	—	245/90/140	John Deere 1720 Stack-Fold MaxEmerge Plus Case IH 2166
<b>WYOMING</b>										
<b>RAC Farming Inc</b> Lingle, WY	260.7155	Pioneer P0157AMX™	AMX,LL,RR2	Poncho 250	41000	—	Resolve Q Roundup PowerMax Status	—	280/70/20	Case IH 1230 Case IH 8010
<b>Kellie Hinman</b> Wheatland, WY	248.8831	Pioneer P9690R	RR2	Accelaron+ Poncho 250	36740	—	Guardian Halex GT PowerMax	—	300/250/125	John Deere 1720 MaxEmerge XP John Deere 9500
<b>Joe Umble</b> Torrington, WY	237.9665	DEKALB DKC46-20RIB	VT3P/RIB	A500	33000	—	Barrage, Sequence Status Touchdown, Vision	—	220/50/5	John Deere 1760 MaxEmerge Plus Vacuum John Deere 9870

### First Place



PHOTO: MARK WALLHEISER

**RANDY DOWDY/**  
**growbigcorn.com**  
**Valdosta, GA**

503.7190 bu./acre  
DEKALB DKC62-08  
Population: 52,000  
Harvester: **John Deere 9600**

#### SUPERVISORS

**William "Hal" Darsey:** District Conservationist, NRCS  
**Stephanie Hollifield:** ANR/CED, University of Georgia Extension Service  
**Forrest M. Hill:** Soil Conservationist, NRCS

Somewhere in the middle of the 2014 growing season, Randy Dowdy knew there was something special going on in one of his contest fields. Even so, he was surprised when the final yield came in at more than 503 bushels per acre, a new world record. "I knew it was pretty good," he says. "But I had no idea it was that good."

A Georgia state agronomist describes the soil in the section of the field where the record was produced as "some of the worst in the state," consisting mostly of clods. Dowdy calls it 30-minute dirt. "It will be too wet 30 minutes before dinner and then too dry 30 minutes after dinner. It's tough to farm."

He planted his contest entry in 36-inch twin rows at a population of 52,000 seeds per acre during the third week of March. "In the past, we've planted at 52,000 there but only had 32,000 plants emerge. This year, though, we got a four-inch rain immediately after planting. That helped melt the clods around the seeds. Everything we put out there came up."

Dowdy's hybrid of choice was DEKALB DKC62-08. "We grew it for the contest last year but didn't push it that hard," he says. "It's a shorter-stature corn that's well-suited for our narrow rows."

He moved over the ground slowly with his planter to avoid doubles and skips. Dowdy also applied enough down-pressure to get seeds into

the hard ground at a uniform depth. "I want a nice, even emergence with all of the plants coming out of the ground at the same time," he says. "If a plant comes up 24 hours after the others, it becomes a weed with 25% less grain on it."

Dowdy treated seed with zinc, fungicide and a micronutrient package, and laid down a 2- x 2-inch band of starter fertilizer. In a separate pass, he placed a band of dry fertilizer (N-P-K and micronutrients) 6 inches to the side of the seed row. "With banding, the plant will get nutrients faster than if we broadcast," he says.

Results from weekly tissue samples provided direction for Dowdy as he spoon-fed nutrients to the crop via his pivots and aerial applications. "I don't believe in fertilizing just one time," he says. "You have to get those nutrients out there before and when the plant needs them."

### High-Yield Pathways

- ▶ Band fertilizer after planting to get nutrients to corn faster.
- ▶ Tissue sample to match nutrient applications to the plants' needs.
- ▶ Slow down at planting to ensure consistent seed depth and singulation.
- ▶ Strive for emergence of plants in 24 hours or less.

### Second Place

**STEVEN ALBRACHT**  
**Hart, TX**

459.4484 bu./acre  
**Pioneer P1883AM**  
Population: 40,000  
Harvester: **John Deere S680**

Mother Nature was a valuable ally for Steven Albracht in this year's contest. "Our weather was about as perfect as you can get for Texas," says Albracht, who has placed in the National Corn Yield Contest numerous times during the last decade. "We had more rainfall in 2014 than we did in the last three years combined. We also had less heat and less wind. With a few less overcast days, our yield might have been even higher."

Foliar feeding was a focal point for Albracht. Starting at V4, he fed nutrients and micronutrients, both through his center pivots and via aerial applications, every 10 to 13 days. "We're always tinkering with the timing and the rates," he says. "Our goal is to keep those plants as healthy as possible throughout the season."

In several of those feedings, he flew on 1 gal. per acre of sugar (molasses) with the nutrient package. "It was something new for us. It gives you a coating that helps what you're putting out there stick to the plants better. We also noticed we had less insect pressure in areas where we ran the sugar."

#### SUPERVISORS

**Kyle D. Aljoe:** Crop Consultant, Crop Quest  
**K. Levi Lunsford:** Crop Insurance Agent, L2 Crop Insurance  
**Nancy Anderson:** County Extension Agent, Texas AgriLife Extension Service

### Third Place

**DOWDY FARMS VII**  
**Valdosta, GA**

422.9653 bu./acre  
DEKALB DKC62-08  
Population: 42,000  
Harvester: **John Deere 9600**

Basic, straight-forward management is at the core of Randy Dowdy's recipe for producing high-placing entries in the National Corn Yield Contest year after year.

He starts with the idea that doing whatever it takes to reduce stress on plants, from the time the seed comes out of the bag through harvest, is key. "It's a pretty simple equation," Dowdy says. "Plant stress equals yield loss. Whenever you reduce or eliminate stress, yield will benefit. At each step, you have to ask yourself what's going on that might be taking yield away. Then ask 'What I can I do to address that stress?'"

Dowdy also relies heavily on German chemist Justus von Liebig's Law of the Minimum in mapping out his yield-boosting strategies. The law states that crop growth is controlled not by the total amount of nutrients available but by the scarcest nutrient. "But it's not just nutrients," Dowdy says. "The law also applies to populations, weed and insect control, disease, compaction, irrigation, planting mechanics, harvest loss and more."

Growers can check out Dowdy's website at [growbigcorn.com](http://growbigcorn.com).

#### SUPERVISORS

**William "Hal" Darsey:** District Conservationist, NRCS  
**William Garvie Nichols:** County Extension Agent, University of Georgia Extension Service  
**Jack Price:** County Extension Agent, University of Georgia Extension Service





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# TOP THREE WINNERS BY CLASS

	Yield	Hybrid Brand/ No.	Traits	Seed Treatment	Harvest Population	Insecticide	Herbicide	Fungicide	N/P/K	Planter/ Harvester
IRRIGATED										
ALABAMA										
Tate Farms (Pat Brown) Meridianville, AL	314.1210	Pioneer P2089YHR	YGCB,HX1, LL,RR2	PPST 250 + Pentilex	40000	Mustang MAX	Atrazine 4L Halex GT, Sterling Blue Roundup PowerMax	Elixor Quilt Xcel Stratego YLD	321/50/50	John Deere DB60 John Deere S680
Seth More Aliceville, AL	289.6326	DEKALB DKC66-94	RR2	Poncho 250	39889	—	Atrazine 4L, Halex GT Leadoff, Roundup PowerMax	—	400/30/40	John Deere 1720 CCS Stack-Fold John Deere S690
Mike Dee Aliceville, AL	277.5071	DEKALB DKC66-97	VT2P	Poncho 250	31870	—	Atrazine 4L, Halex GT Leadoff, Roundup PowerMax	—	400/30/40	John Deere 1720 CCS Stack-Fold John Deere S690
ARKANSAS										
Dogwood Farm Portland, AR	323.7705	DEKALB DKC66-97	VT2P	Acceleron+ Poncho 250	38000	—	Halex GT	—	280/60/60	Great Plains 2525A John Deere 9770
Billy Tripp Searcy, AR	318.0652	DEKALB DKC66-87	VT2P	Poncho 500	39500	—	Halex GT	Headline	400/200/320	Monosem NG Plus 4 John Deere 9870
KAC Farms Gregory, AR	301.4879	DEKALB DKC62-08	SS	A1250	34500	—	—	—	300/80/100	Monosem 12NG John Deere S680
CALIFORNIA										
Ruble Farms Inc Visalia, CA	318.5221	Pioneer P2088AM™	AM,LL,RR2	Cruiser 250	43000	Zeal	Roundup	Stratego	350/60/120	White 5700 Case IH 2588
COLORADO										
Steve Mauro Pueblo, CO	318.5755	DEKALB DKC64-87	SS	Acceleron 500	36000	Onager	Roundup PowerMax Sterling Blue	—	300/40/25	Monosem NG Plus Pull Type Case IH 1660
Knapp Farms Rocky Ford, CO	292.5791	Pioneer 33D53AM™	AM,LL,RR2	Poncho 1250+ Raxil	30000	Comite II	Buccaneer 5 Rifle	—	220/0/0	John Deere 7300 MaxEmerge 2 Case IH 2588
Dan Genova Pueblo, CO	288.7987	Pioneer P1625CHR	RW,HX1, LL,RR2	Poncho 1250+ Raxil	32000	—	Buccaneer Status	—	235/45/0	Monosem NG Plus 4 Case IH 1644
DELAWARE										
Mark Collins Laurel, DE	314.5714	Pioneer P2088AM™	AM,LL,RR2	Poncho 500 & Amplify D	41000	—	Lexar	—	320/25/150	Kinze 3650 Case IH 7120
Randall Willin Seaford, DE	304.5953	DEKALB DKC62-08RIB	SS/RIB	Poncho 500, Votivo	38000	Tombstone	Lexar Princep 4L	Quadris Quilt Xcel	205/0/120	John Deere 1760NT Case IH 7120
FLORIDA										
Jimmy Murphy Jennings, FL	316.0829	Pioneer P1794VYHR^	AVBL,YGCB, HX1,LL,RR2	None	37400	Counter 15 G Silencer	Expert	Priaxor Quilt Xcel	270/90/300	Monosem NG Plus John Deere 9500
GEORGIA										
Randy Dowdy/ growbigcorn.com Valdosta, GA	503.7190	DEKALB DKC62-08	SS	Poncho 1250	52000	—	—	Headline AMP	500/200/400	John Deere 1700 John Deere 9600
Dowdy Farms VII Valdosta, GA	422.9653	DEKALB DKC62-08	SS	Poncho 1250	42000	—	—	Headline AMP	400/150/250	John Deere 1700 John Deere 9600
Champion Groves Farm Leesburg, GA	264.6556	Pioneer P1637VYHR^	AVBL,YGCB, HX1,LL,RR2	Poncho 250	33000	Counter 20 G	Atrazine 4L Zidua	—	320/112/230	John Deere 1700 John Deere 9570
IOWA										
Thomas Hotz Lone Tree, IA	251.5599	Pioneer P0969AM™	AM,LL,RR2	Apron Max+ Poncho 250	37200	—	—	—	248/120/100	Kinze 3600 John Deere 9670
Amana Farms Inc. Amana, IA	240.1073	Pioneer P2088AM™	AM,LL,RR2	Amplify L+ Poncho 250	36500	Force CS	Atrazine 4L Corvus	Stratego YLD	0/0/0	John Deere DB60 John Deere S680
Dummermuth Farms Inc Elgin, IA	203.2329	Pioneer P0987AMX™	AMX,LL,RR2	Poncho 1250+ VOTIVO	37000	—	Abundit, Atrazine Realm Q	—	210/0/200	John Deere 1770NT John Deere 9560 STS
IDAHO										
Vaughn Jensen Emmett, ID	320.1774	Pioneer P1105AM™	AM,LL,RR2	Poncho 1250	35000	—	Clarity Roundup PowerMax	—	265/75/75	John Deere 1710 Vertical-Fold John Deere 9670
Nicole Huits Gooding, ID	306.1815	DEKALB DKC52-61RIB	VT2P/RIB	Acceleron	35500	—	Makaze Surpass EC	—	223/50/50	John Deere 1720 MaxEmerge XP John Deere S670
David Huits Farms Gooding, ID	305.4172	DEKALB DKC60-67RIB	RIB	Acceleron	35500	—	Atrazine 4L, Makaze Surpass EC	—	223/50/50	John Deere 1720 MaxEmerge XP John Deere S670



# TOP THREE WINNERS BY CLASS

	Yield	Hybrid Brand/ No.	Traits	Seed Treatment	Harvest Population	Insecticide	Herbicide	Fungicide	N/P/K	Planter/ Harvester
IRRIGATED - CONTINUED										
<b>ILLINOIS</b>										
<b>Scott Miller Farms</b> Tamm, IL	328.9079	AgriGold A6573	CONV	Poncho 1250, Votivo, Acceleron	41000	Fastac	Atrazine 4L Parallel	Headline AMP	403/48/86	Kinze 3650 John Deere 9670
<b>Walker &amp; Sons Farm</b> Palestine, IL	321.9716	DEKALB DKC62-08RIB	SS/RIB	Acceleron	25000	—	Atrazine 4L Require Q Roundup PowerMax	Stratego YLD	280/90/50	Kinze 3700 Case IH 7230
<b>Joseph Scates</b> Shawneetown, IL	307.4585	Pioneer P2089AM™	AM,LL,RR2	Poncho 250	35000	Asana XL Capture LFR	AAtrex 4L Breakfree ATZ Realm Q, Roundup O-Max	Approach	260/170/340	John Deere DB80 John Deere S690
<b>INDIANA</b>										
<b>Daniel Worland</b> Vincennes, IN	315.2854	Channel 215-52VT3P/RIB	VT3P RIB	Acceleron+ Poncho 250	35500	—	Atrazine 4L Corvus, Roundup O-Max	Headline	326/0/0	Case IH 1200 MF 9540
<b>Beuligmann Farms Inc</b> Poseyville, IN	301.4824	DEKALB DKC62-08	SS	Poncho 600	35500	—	Harness Xtra 5.6L Roundup Max	Quilt	325/50/150	John Deere 1770NT Case IH 7230
<b>Jason Misinieć</b> Edwardsport, IN	296.0223	Pioneer P1477W	CONV	Poncho 1250+ VOTIVO	33800	Fastac	Accent Q Lexar	Headline AMP	250/200/200	John Deere 1770NT CCS ProXP Case IH 9230
<b>KANSAS</b>										
<b>Todd Cyr</b> Clyde, KS	339.0802	Pioneer P2088AM™	AM,LL,RR2	PPST 1250	38000	—	Durango	Headline AMP	320/40/20	John Deere 1770 Drawn CCS MaxEmerge, John Deere 9770
<b>Chris Bodenhausen</b> Muscotah, KS	337.1957	Pioneer P2088AM™	AM,LL,RR2	Poncho 1250	37000	—	Atrazine Halex GT	—	350/165/150	John Deere 1790 CCS John Deere S660
<b>Gale Frank Farms #4</b> Copeland, KS	302.8435	Pioneer P1690CHR	RW,HX1,LL,RR2	Poncho 1250	32000	—	Lumax	—	300/0/0	Monosem Twin Row John Deere S670
<b>KENTUCKY</b>										
<b>Brandon Hunt</b> Oak Grove, KY	292.9929	DEKALB DKC69-31	VT2P	Poncho 1250	35500	Tundra	Atrazine, Lexar Touchdown Total	Priaxor	250/100/100	Case IH 1245 Case IH 8120
<b>Wayne Hunt</b> Herndon, KY	287.8604	Pioneer P2089AM™	AM,LL,RR2	Poncho 1250	33500	Tundra	Atrazine, Lexar Touchdown Total	Priaxor	250/100/100	Case IH 1245 Case IH 8120
<b>Triple E Farms</b> Henderson, KY	286.7895	AgriGold A6524	VT2P/RIB	Poncho 500	39000	Tombstone Helios	AAtrex 4L Halex GT	—	350/150/150	John Deere 1770 NT CCS John Deere S680
<b>LOUISIANA</b>										
<b>Randy &amp; Sheila Moroni Farm</b> Winnsboro, LA	257.8967	Pioneer P1794VYHR^	AVBL,YGCB, HX1,LL,RR2	Poncho 1250	34000	—	—	—	280/60/90	John Deere 1700 MaxEmerge Vacuum, John Deere S670
<b>Brady Moroni</b> Winnsboro, LA	254.8476	Pioneer P1319R	RR2	Poncho 1250	34000	—	—	—	280/60/90	John Deere 1700 MaxEmerge Vacuum, John Deere S670
<b>Big River Farms</b> Natchez, LA	253.2602	Pioneer P2089YHR	YGCB,HX1, LL,RR2	Crusier 250	30000	—	—	—	256/60/40	John Deere 1700 John Deere S670
<b>MASSACHUSETTS</b>										
<b>William Llewelyn</b> Northfield, MA	253.0472	Pioneer P9519HR	HX1,LL,RR2	Poncho 1250	37100	—	Lumax	—	260/30/237	John Deere 7200 John Deere 9500
<b>MARYLAND</b>										
<b>Bruce Bartz</b> Denton, MD	316.4339	DEKALB DKC62-97RIB	VT3P/RIB	Poncho 250	40000	Perm-Up Warrior II	Atrazine 4L Halex GT	Stratego YLD	280/60/280	Kinze 3600 Case IH 8230
<b>Michael Bostic Sr</b> Church Hill, MD	314.6516	Pioneer P1602AM™	AM,LL,RR2	VOTIVO	34000	Capture LFR Warrior	Lexar, Princep 4L Roundup	—	300/60/200	John Deere 1790 CCS John Deere S660
<b>Michael Bostic Jr</b> Church Hill, MD	311.7893	Pioneer P1105AM™	AM,LL,RR2	VOTIVO	33500	Capture LFR Warrior	Lexar Princep 4L	—	300/60/200	John Deere 1790 CCS John Deere S660
<b>MICHIGAN</b>										
<b>Don Stall</b> Charlotte, MI	354.3066	Pioneer P0533AM1™	AM1,LL,RR2	Cruiser 250	42500	—	Keystone	—	300/63/240	Kinze 2600 Case IH 8010
<b>Clover Family Farms</b> Ionia, MI	272.2984	DEKALB DKC52-04RIB	VT2P/RIB	Acceleron+ Poncho 250	36000	Capture LFR	Halex GT	Stratego YLD	280/0/0	John Deere 1770 NT CCS John Deere S670
<b>Hoeve Farms</b> Holland, MI	266.7837	DEKALB DKC62-08RIB	SS/RIB	Acceleron+ Poncho 250	36000	—	Sharpen Zidua	—	300/0/250	John Deere 1770NT John Deere 9660



# TOP THREE WINNERS BY CLASS

Yield	Hybrid Brand/ No.	Traits	Seed Treatment	Harvest Population	Insecticide	Herbicide	Fungicide	N/P/K	Planter/ Harvester
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## IRRIGATED - CONTINUED

MINNESOTA										
<b>Curt Haler</b> Hastings, MN	253.7533	Pioneer P1151AM™	AM,LL,RR2	Poncho 250	36500	—	Laudis, Outlook Roundup PowerMax	Headline AMP	350/125/300	John Deere DB80 Case IH 8230
<b>Bill Schaffer</b> Hastings, MN	251.4898	Pioneer P1142AMX™	AMX,LL,RR2	Poncho 250	36000	—	Laudis, Outlook Roundup PowerMax	Headline AMP	300/105/240	John Deere DB80 Case IH 8230
<b>Paul Beskau</b> Hastings, MN	236.8582	Pioneer 34F07	HX1,LL,RR2	Poncho 250	36500	—	Laudis, Outlook Roundup PowerMax	Headline AMP	325/125/240	John Deere DB80 Case IH 8230
MISSOURI										
<b>J &amp; J Farms</b> Delta, MO	344.0555	Pioneer P2089YHR	YGCB,HX1, LL,RR2	Amplify+ Poncho 250	37000	—	Cinch ATZ	—	320/46/120	John Deere 1720 Stack-Fold MaxEmerge Plus, John Deere 9670
<b>Sean Hackmann</b> Chamois, MO	310.0301	Pioneer P2088AM™	AM,LL,RR2	Poncho 250	40000	Capture	Brawl II Roundup PowerMax	—	225/0/0	John Deere 1770 New Holland CR9040
<b>Aaron Hackmann</b> Chamois, MO	302.3780	DEKALB DKC67-58RIB	VT2P/RIB	Acceleron	39000	Capture	Brawl II Roundup PowerMax	Headline AMP	225/0/0	John Deere 1770 NT CCS New Holland CR9040
MISSISSIPPI										
<b>Scott Hunter</b> Glen Allan, MS	284.9699	Pioneer P2088R	RR2		33000	—	—	—	290/0/0	John Deere 1700 MaxEmerge Vacuum, John Deere S690
<b>Jeremy Jack</b> Belzoni, MS	279.5168	Pioneer P2089YHR	YGCB,HX1, LL,RR2	Crusier	33500	—	—	—	280/100/100	John Deere 1720 CCS Twin Row John Deere S690
<b>Silent Shade Planting Company</b> Belzoni, MS	278.5235	Pioneer P1739HR	HX1,LL,RR2	Cruiser	35000	—	—	—	280/100/100	John Deere 1720 CCS Twin Row John Deere S690
MONTANA										
<b>Eric Lowell</b> Park City, MT	213.6846	Pioneer P9305AM™	AM,LL,RR2	Acremax/ LibertyLink	38000	—	—	—	210/30/40	John Deere 7300 Case IH 2188
<b>Ernie Icopini</b> Hysham, MT	208.9433	Pioneer P8954AM™	AM,LL,RR2	Raxil, PPST 250	38000	—	Balance Flexx, Outlook Roundup PowerMax	—	180/100/80	Monosem NG Plus Case IH 9230
<b>Darren Miller</b> Billings, MT	207.4094	DEKALB DKC44-13RIB	SS/RIB	Acceleron	35500	Capture LFR	Roundup PowerMax	—	250/0/30	John Deere 7100 Rigid Frame MaxEmerge, John Deere 9600
NORTH CAROLINA										
<b>James Britt</b> Calypso, NC	301.6746	DEKALB DKC64-69	VT3P	Poncho 1250	34000	—	Atrazine 4L Halex GT	Quilt Xcel	328/20/186	John Deere 1730 John Deere 9760 STS
<b>Locklear Bros Farms</b> Maxton, NC	281.9573	DEKALB DKC62-08	SS	Acceleron+Poncho 250	32000	Baythroid XL	Atrazine Halex GT	Headline AMP Priaxor	300/75/100	John Deere 1790 CCS Case IH 7230
<b>Luther Moore</b> Maxton, NC	265.5195	DEKALB DKC62-06	CONV	Poncho 250	38000	—	Armezon Atrazine	—	280/90/150	John Deere 7100 John Deere 9760
NORTH DAKOTA										
<b>Bobby Fraenberg</b> Lamoure, ND	266.8787	DEKALB DKC44-13RIB	SS/RIB	Acceleron+Poncho 250, JumpStart, Conklin	43000	Kendo	Atrazine 4L Harness Roundup WeatherMax	Headline Headline AMP Priaxor	300/150/50	Case IH 1265 Case IH 9120
<b>Sundale Farm</b> Milnor, ND	238.8053	DEKALB DKC51-19RIB	DGVT3P/RIB	Acceleron	37500	—	Impact Roundup PowerMax	—	220/65/55	John Deere 1790 CCS John Deere 9770
<b>Quandt Brothers #1</b> Oakes, ND	230.7219	DEKALB DKC46-20RIB	VT3P/RIB	Poncho 250	36000	—	Atrazine, Durango Laudis, Powermax	—	185/75/65	White 8824 Case IH 9230
NEBRASKA										
<b>Gary Dahlgren</b> Bertrand, NE	297.1238	Pioneer P1151AM™	AM,LL,RR2	Cruiser 250/Raxil	32000	—	Bicep II Magnum Roundup PowerMax	—	200/0/0	John Deere 1720 CCS Stack-Fold John Deere S680
<b>Kevin Roth</b> Beaver Crossing, NE	296.8293	Pioneer P1690HR	HX1,LL,RR2	Poncho 250	33000	—	Halex	—	175/0/0	John Deere 1760 Case IH 8010
<b>Bob Panowicz</b> Cairo, NE	294.2913	Pioneer P1690CHR	RW,HX1, LL,RR2	Poncho 1250	35100	—	Anthem ATZ	Headline AMP	290/26/7	Case IH 1230 Stackbar Early Riser Case IH 8230
NEW JERSEY										
<b>Charles Myers</b> Woodstown, NJ	289.2142	Pioneer P1105AM™	AM,LL,RR2	Capture+ Poncho 250	32000	LambdaStar	Atrazine, Zidua Roundup PowerMax	Headline AMP	280/70/100	Kinze 2600 Case IH 7120

# TOP THREE WINNERS BY CLASS

	Yield	Hybrid Brand/ No.	Traits	Seed Treatment	Harvest Population	Insecticide	Herbicide	Fungicide	N/P/K	Planter/ Harvester
IRRIGATED - CONTINUED										
<b>Jason Moore</b> Pilesgrove, NJ	288.4326	Pioneer P1319HR	HX1,LL,RR2	Capture+ Poncho 250	32000	LambdaStar	Atrazine, Zidua Roundup PowerMax	Headline AMP	280/70/100	Kinze 2600 Case IH 7120
<b>Jeffrey Barlieb</b> Stewartsville, NJ	287.0840	DEKALB DKC64-87RIB	SS/RIB	Acceleron	38000	Capture	Infantry 4L Prowl H2O, Zidua	—	300/100/100	John Deere 1790 CCS John Deere S660
<b>NEW MEXICO</b>										
<b>Ronnie Williams</b> Clayton, NM	272.6523	Pioneer P1151AMX™	AMX,LL,RR2	Poncho 1250	30500	—	Balance Flexx Keystone	—	240/35/0	John Deere 1770NT John Deere 9670 STS
<b>Navajo Ag Products Industry</b> Farmington, NM	261.3127	DEKALB DKC52-04RIB	VT2P/RIB	Acceleron 250	34500	—	—	—	210/40/80	John Deere 1770 Front-Fold MaxEmerge Plus Drawn Conservation John Deere S680
<b>NEW YORK</b>										
<b>Charles Campbell</b> Nichols, NY	240.8191	DEKALB DKC52-04RIB	VT2P/RIB	Acceleron+ Poncho 250	37000	—	Roundup WeatherMax Yukon	Priaxor	320/40/40	John Deere 7000 John Deere 4420
<b>Christine Jones</b> Catskill, NY	228.1793	Pioneer P0533AM1™	AM1,LL,RR2	Pentilex	37000	—	—	—	300/50/100	John Deere 1770NT John Deere 9770
<b>OHIO</b>										
<b>M &amp; B Gearhart Farms</b> Chillicothe, OH	276.4477	DEKALB DKC67-57RIB	VT3P/RIB	Poncho 250	42000	—	Harness Xtra 5.6L	Quadris	350/450/0	Kinze 2600 Case IH 8230
<b>Dillon Milless</b> Amanda, OH	252.6987	Seed Consultants 11AGT43	GT/CB/LL	Cruiser MAX	42000	Pilot 15G	Lexar EZ Status	Headline AMP Priaxor	300/125/150	John Deere 7200 John Deere 9500
<b>Matthew Funderburgh</b> North Lewisburg, OH	237.7372	Pioneer P2088AMX™	AMX,LL,RR2	PPST 250	38000	Bifenthrin	Atrazine 90 DF Halex GT	—	240/203/170	John Deere 1790 CCS John Deere 9660 STS
<b>OKLAHOMA</b>										
<b>Ed Keezer</b> Clayton, OK	322.0111	DEKALB DKC62-08	SS	Avicta	33500	—	Balance Flexx Clarifier, LV Shuttles Harness Xtra 5.6L	—	300/0/0	John Deere 1720 Case IH 7088
<b>Bruce McDaniel</b> Felt, OK	296.6361	Pioneer P1625CHR	RW,HX1, LL,RR2	Poncho 1250	43000	—	AAtrex Balance Flexx	—	310/35/0	John Deere 1770NT John Deere 9670 STS
<b>Connie McDaniel</b> Felt, OK	280.1082	Pioneer P1151R	RR2	Poncho 1250	31000	—	AAtrex Balance Flexx	—	300/35/0	John Deere 1770NT John Deere 9670 STS
<b>OREGON</b>										
<b>Bedrock Farms LLC</b> Boardman, OR	260.3956	Pioneer P1151R	RR2	Poncho 250	37750	—	—	—	257/66/0	John Deere 1760 John Deere 9760
<b>Imperial Ag. Inc</b> Ontario, OR	255.4301	Croplan Seed 4099SS/RIB	SS/RIB	None	43900	—	Dual Magnum Roundup & Resolve	—	350/100/100	John Deere 1730 John Deere 9610
<b>PENNSYLVANIA</b>										
<b>Rhonda Mast</b> Morgantown, PA	223.5823	Pioneer P1319	CONV	Poncho 1250	32400	Force 1.5G	Balance Flexx Brawl ATZ	—	280/0/0	John Deere 1750 MaxEmerge Plus John Deere 9600
<b>Gavin Mast</b> Morgantown, PA	222.5240	Pioneer P2088AMX™	AMX,LL,RR2	Poncho 1250	32000	Force 1.5G	Balance Flexx Brawl ATZ	—	280/0/0	John Deere 1750 MaxEmerge Plus John Deere 9600
<b>SOUTH CAROLINA</b>										
<b>Jameson Farms #2</b> Elloree, SC	303.7288	Pioneer P1690HR	HX1,LL,RR2	Amplify L+ Poncho 250	32750	Counter 20 G	Atrazine 90 DF Impact Roundup PowerMax	Headline AMP	275/30/100	John Deere 1700 MaxEmerge XP Case IH 6088
<b>C Backman</b> Norway, SC	283.4845	Pioneer P1739HR	HX1,LL,RR2	Pentilex Aqua	39000	—	AAtrex Impact	—	200/0/180	Kinze 3100 John Deere 9770
<b>Chad Brubaker</b> Olar, SC	268.9973	Pioneer P2023BVT^	AVBL,CB, LL,GT	None	31000	—	—	—	250/50/225	Case IH 1200 Case IH 2366
<b>SOUTH DAKOTA</b>										
<b>Riverside Farms</b> Huron, SD	308.9176	Pioneer P0533AM1™	AM1,LL,RR2	Poncho 250	33900	—	Atrazine Corvus	—	350/50/25	John Deere DB44 John Deere 9760 STS
<b>Breeding Farms</b> Chamberlain, SD	279.9492	DEKALB DKC62-97RIB	VT3P/RIB	Poncho 250	32000	—	Roundup PowerMax TripleFLEX	—	300/45/0	John Deere 1720 John Deere 770
<b>Missouri River Farms Inc.</b> Yankton, SD	271.9469	Pioneer P0987AMX™	AMX,LL,RR2	Cruiser	27000	—	Volley ATZ Lite	—	220/60/30	John Deere 1770 NT CCS John Deere S670

# TOP THREE WINNERS BY CLASS

	Yield	Hybrid Brand/ No.	Traits	Seed Treatment	Harvest Population	Insecticide	Herbicide	Fungicide	N/P/K	Planter/ Harvester
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## IRRIGATED - CONTINUED

### TENNESSEE

<b>Hooper Farms</b> Brownsville, TN	306.2595	Pioneer P2089YHR	YGCB,HX1, LL,RR2	Cruiser	32000	Karate	Atrazine, Barrage Halex GT, Touchdown	Quilt Xcel	300/50/80	Case IH 1265 Case IH 8230
<b>Tanner Family Farms</b> Union City, TN	306.0069	DEKALB DKC62-08	SS	Acceleron+ Poncho 250	35000	—	Degree Xtra Roundup	Headline	320/92/120	John Deere 1770 Case IH 7120
<b>Hunter Hooper</b> Brownsville, TN	302.8575	Pioneer P2089YHR	YGCB,HX1, LL,RR2	Cruiser	32000	Karate	Atrazine, Barrage Halex GT, Touchdown	Quilt Xcel	300/50/80	Case IH 1265 Case IH 8230

### TEXAS

<b>Steven Albracht</b> Hart, TX	459.4484	Pioneer P1883AM™	AM,LL,RR2	Poncho 1250+ Raxil	39000	Comite II	AAtrex 4L Dual II G Magnum, Atrazine	Stratego	460/60/20	John Deere DB24 John Deere S680
<b>Donny Carpenter Farms Ltd</b> Dimmitt, TX	334.2432	Pioneer P1625CHR	RW,HX1, LL,RR2	Poncho 1250	42000	Onager	Balance Flexx Triangle	—	300/20/20	John Deere DB60 John Deere S680
<b>Kent Cartrite Farms</b> Sunray, TX	324.8558	DEKALB DKC62-08RIB	SS/RIB	Acceleron 500	37000	—	AAtrex Balance Flexx	Headline AMP	300/60/0	John Deere 7300 MaxEmerge 2 Case IH 8230

### UTAH

<b>Francom Farms</b> Tremonton, UT	307.4645	Pioneer P1151R	RR2	Amplify+Poncho 250	37000	—	—	—	300/80/0	Case IH 1235 Case IH 7120
<b>Utana Nelson</b> Tremonton, UT	304.6001	Pioneer P0876CHR	RW,HX1, LL,RR2	Cruiser Extreme 1250	35000	—	—	—	250/100/50	Case IH 1200 Pivot Case IH 7120
<b>Brett John</b> Tremonton, UT	298.6101	DEKALB DKC52-61RIB	VT2P/RIB	None	38000	—	—	—	250/50/0	John Deere 1710 Case IH 7120

### VIRGINIA

<b>Ronnie Russell</b> Water View, VA	283.2552	Pioneer P1690AM™	AM,LL,RR2	Poncho 250	34000	Karate	Bicep	—	235/60/100	Black Machine Max Merg II John Deere 9500
<b>Cub Run Dairy LLC</b> Mc Gaheysville, VA	280.7756	Pioneer P2089AM™	AM,LL,RR2	Pentilex Poncho 250	34000	Asana XL	AAtrex 4L, Lumax EZ Gramoxone SL 2.0 Princep 4L, Prowl H2O Touchdown Total, Status	Quilt Xcel	170/0/120	Great Plains YP-1225 New Holland CR8080
<b>John Mills</b> Hanover, VA	276.2255	Pioneer P2089AM™	AM,LL,RR2	Poncho 1250+ VOTIVO	32000	—	Atrazine 4L, Cinch ATZ Instigate, Metrabuzin Princep 4L, Roundup UltraMax	—	230/50/240	Kinze 3660 John Deere 760

### WASHINGTON

<b>Stokrose Farms Inc</b> Warden, WA	295.1995	Pioneer P0302CHR	RW,HX1, LL,RR2	None	37000	—	Atrazine 4L, Clarity Roundup PowerMax	—	195/0/0	Monosem NG Plus John Deere S680
<b>Patrick Zecchino</b> Granger, WA	275.1613	Pioneer P1105AM™	AM,LL,RR2	Cruiser 250+ Raxil	36000	—	Roundup	—	315/160/0	John Deere 1700 MaxEmerge XP John Deere S660
<b>Kurtis Cox Farms Inc</b> Warden, WA	250.3086	Pioneer P9910R	RR2	None	40000	—	Barvel Roundup	—	300/120/100	John Deere 7300 MaxEmerge 2 John Deere S680

### WISCONSIN

<b>Arndt Farms Inc</b> Janesville, WI	279.9758	Pioneer P0533AM1™	AM1,LL,RR2	None	34000	—	Atrazine 90 DF, Outlook Powermax, Status	—	125/20/0	Kinze 3600 Gleaner S77
<b>Laskowski Farms</b> Plover, WI	253.0370	Pioneer P0533AM1™	AM1,LL,RR2	None	38000	—	Cinch ATZ	—	260/60/200	John Deere 1770NT John Deere 9560 STS
<b>John Kuffel</b> Stevens Point, WI	250.9997	Pioneer P0533AM1™	AM1,LL,RR2	None	37000	—	Acumen Cinch ATZ Lite	—	232/60/240	Kinze 3600 Case IH 1640

### WEST VIRGINIA

<b>Ronald Widmyer</b> Charles Town, WV	251.4211	Pioneer P1498AM™	AM,LL,RR2	Poncho 250	29000	—	Basis, Harness, Princep	—	200/32/30	John Deere 7000 Case IH 1660
<b>Federal Hill Farm Inc</b> Charles Town, WV	245.3279	Pioneer P1498AM™	AM,LL,RR2	Poncho 250	29000	—	Basis, Harness Princep	—	200/32/30	John Deere 7000 Case IH 1660

### WYOMING

<b>Hardrock Farms</b> Wheatland, WY	237.8777	Pioneer 38H72	HXX,LL,RR2	Amplify D+ Poncho 250	38650	—	Glyphomax, Glyphomax Plus Guardian, Halex GT	—	350/275/175	John Deere 1720 MaxEmerge XP John Deere 9500
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## 2014 ENTRIES BY STATE

### Affiliated States

Alabama .....	30
Arkansas.....	170
Colorado.....	125
Georgia.....	110
Illinois.....	1,232
Indiana .....	280
Iowa.....	1,186
Kansas.....	404
Kentucky.....	182
Louisiana .....	70
Maryland.....	101
Michigan.....	577
Minnesota.....	359
Mississippi.....	134
Missouri.....	575
Nebraska .....	796
New York.....	60
North Carolina.....	185
North Dakota.....	54
Ohio .....	176
Oklahoma.....	59
Pennsylvania .....	76
South Carolina.....	105
South Dakota.....	306
Tennessee .....	146
Texas.....	153
Virginia .....	69
Wisconsin.....	98

**Unaffiliated States..... 311**

**Total Entrants..... 8,129**

\* **Class A\*** includes all states except Illinois, Indiana, Iowa, Minnesota, Missouri, Ohio and Wisconsin.

Class AA includes Illinois, Indiana, Iowa, Minnesota, Missouri, Ohio, and Wisconsin. **Classes without A or AA** designations comprise all states.

Forty-six states participated in the contest; 45 seed companies were represented. The 415 State Winners planted 49 hybrid numbers. A total of 694 hybrid numbers were planted by 8,129 entrants.

	All Entrants	National Winners
<b>Avg. Yield</b>	240.0975	383.5559
<b>Avg. Plant Pop.</b>	34,075	36,417
<b>Avg. Harvest Pop.</b>	32,533	37,767

Row Spacing	% of Entrants
<30"	7.28%
30"	85.55%
36"	2.66%
38"	3.37%
>40"	0.27%

	All Entrants	National Winners
<b>Avg. Fertilizer Use</b>		
Nitrogen (lbs)	210.12	369.17
Phosphorus (lbs)	66.40	116.72
Potash (lbs)	83.08	195.00
Trace Elements	37.16%	33.33%
Manure	14.79%	5.56%

### Timing of Nitrogen Fertilizer Application

Fall	21.71%	11.11%
Spring Preplant	50.97%	50.00%
At Planting	42.14%	72.22%
Sidedress	51.54%	94.44%

<b>Starter</b>	60.15%	94.44%
<b>Surface Applied</b>	48.65%	94.44%
<b>Incorporated</b>	76.35%	50.00%
<b>Irrigation</b>	13.13%	33.33%
<b>Nitrogen/bu. (lbs)</b>	0.88	1.09
<b>Soil Test</b>	60.06%	100.00%

<b>Previous Crop</b>		
Corn	27.01%	50.00%
Soybeans	59.33%	33.33%
Wheat	6.22%	5.56%
Alfalfa/Hay	0.96%	11.11%
Other	5.61%	0%

## 2014 ENTRIES BY CLASS\*

	# of Entrants	Winning Yield
A Non-Irrigated .....	1,120	353.4438
AA Non-Irrigated .....	2,661	362.8145
A No-Till/Strip-Till Non-Irrigated.....	876	357.5399
AA No-Till/Strip-Till Non-Irrigated .....	763	349.1015
No-Till/Strip-Till Irrigated .....	1,101	476.2201
Irrigated.....	1,538	503.7190
No Class Marked.....	70	
<b>Total.....</b>	<b>8,129</b>	



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CONTEST

**50**  
YEARS



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and 14 state corn associations representing tens of thousands of farmers.*



## For Half A Century: **MARVELOUS MACHINERY INNOVATIONS**

**F**arm equipment today for corn production bears little resemblance to the equipment used 50 years ago. In 1965, a typical planter such as the one shown above with four rows covered just 4 acres an hour. Combines harvested only two to four rows at a time and moved the corn into 65- to 100-bushel grain tanks. The largest row-crop tractor on the market was rated at

just 105 PTO hp and typically had no cab and certainly no electronic components.

Today's farm machinery has been transformed by remarkable innovations born out of necessity to handle increasingly larger corn yields and larger farms. Individuals with decades of ag-equipment knowledge were queried about important innovations. Here are their responses.

### ▶ **PLANTING**

#### **SEED DEPTH MEASUREMENT.**

Fifty years ago, almost all row-crop planters had a boot or shoe. Seed depth was gauged by a closing wheel mounted behind the seed opener.

"Seed depth was measured 1 to 2 feet behind seed drop, which was too far away for accurate seed placement," recalls Mark Hanna, Iowa State University ag engineer. "The revolutionary idea was to move depth wheels to either side of the seed opener, allowing the depth to be measured at seed drop. This very important tweak to a planter helped unlock the door on corn yields."

**PNEUMATIC SEED METERING.** As seed-metering systems first evolved from a rotating seed plate, mechanical systems began to use numerous parts. "Pneumatic systems offered a different approach by singulating seed using an air pressure differential across holes in a rotating seed plate," Hanna explains. "Pneumatic handling reduced contact with metal parts while singulating seed."

**DUAL-WHEEL CLOSING SYSTEM.** Planters used to be equipped with one big wheel that pressed down directly on top of the seed furrow. "The original idea was to firm up seed 1½ inches below the surface," Hanna explains. "Today, a dual-wheel closing system has replaced the single wheel on many planters promoting seed-to-soil contact at seed level rather than applying pressure at the surface."

**FOLDING PLANTERS.** As planter row width increased, transporting planters between fields grew more difficult. And nobody knew that better than Jon Kinzenbaw, president and



founder of Kinze. "I came up with a double-frame planter, but we were in trouble with how to transport it," he explains. "So I said, 'Why not pick it up and rotate it?'"

In 1985, Kinze unveiled its Twin-Line planter that allowed a farmer to raise and rotate the planter lengthwise for highway transport. "We made 40 of these planters and quickly sold them," Kinzenbaw recalls.

Other planter manufacturers have since adopted similar folding systems.

### ▶ **HARVESTING**

#### **ROTARY SEPARATION OF GRAIN.**

In the 1960s, farmers used cylinder-style combines to harvest corn. These conventional combines tangentially fed the crop into a single rotating cylinder and concave for threshing. Large oscillating straw walkers behind the cylinder finished separating the grain from other material.

By the late 1970s, rotary combines entered the market with a gentler threshing and separating system created by a larger rotor positioned lengthwise in the combine. The crop fed axially or in the direction of the spinning rotor. Threshed grain is separated from other material by centrifugal force at rear sections of the rotor. Grain quality was easier to maintain, and manufacturers could lengthen the rotor to add capacity and not change combine width. Today's rotary combines harvest at 5 mph versus 3 mph for combines of 50 years ago.

**GRAIN CARTS.** "A farmer came to me who was frustrated he couldn't get corn out of his field because it was too muddy ▶





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for his wagons,” Kinzenbaw recalls. “So his \$30,000 combine was running all over the muddy field to unload. I decided we needed to build a cart that held 430 bushels to fill his tandem truck, unload in three minutes and get back to the grain tank on the combine.” And that’s exactly what Kinzenbaw did. In 1971, he introduced the first grain cart. Numerous manufacturers offer grain carts today with capacities that now hold a semi-load.

**GRAIN DRYING.** Grain drying was in its infancy in the 1960s with heated air used to dry shelled corn. There were problems with it, though, because corn could quickly overdry. A big breakthrough occurred with the development of stirring equipment inside the bin that allowed uniform drying of a large mass of grain. Growers could then harvest corn earlier and better manage its drying. Today, a wide array of sophisticated grain-drying equipment is available for handling any corn grower’s needs.

## ELECTRONICS

**YIELD MONITOR.** In 1992, the first yield monitor entered the market for corn production, launching the electronic data era in agriculture. A new company, Ag Leader, developed the device, which initially collected yield data and later was tied to GPS.

“I had brainstormed a lot of ideas and started cooking up my own prototypes,” recalls Al Myers, president of Ag Leader. “I did testing on my dad’s combine and expanded to other farmers.” After the Yield Monitor 2000 was introduced, growers quickly adopted the new technology.

“I think the thing that made the yield monitor attractive to farmers is that it shows very precisely where there are variations in the field that they can’t see,” Myers says. “Farmers found out there were significant yield variations, which raised questions, and they could do something about it. Yield is their paycheck.”

**AUTO-GUIDANCE.** Electronics and GPS led to the next big innovation in crop production in 1999: auto-guidance. Some of the first devices were simple mechanisms that clipped onto a steering wheel and followed a straight line. Equipment operators took over the steering wheel at the end of the field.

Today, combines, tractors and other self-propelled equipment are factory equipped with auto-steer systems to accurately drive—day or night—in all types of cropping conditions including contours and terraces. The systems have become incredibly precise using real-time kinematic (RTK) networks that offer sub-inch accuracy.

**PRECISION AGRICULTURE.** The first precision ag product was the variable-rate fertilizer system introduced by the startup company SOILTEQ in 1984, Myers reports. SOILTEQ became part of Ag-Chem in 1991, which was later acquired by AGCO.

“After yield monitors became available, some farmers started doing variable-rate planting from prescriptions that they or their agronomist created,” Myers adds. “Farmers who had the second-generation Ag Leader yield monitor console, the PF3000, could read prescriptions from a memory card and



control hydraulic planter drives by the year 2000.”

Precision agriculture received a big boost when easy-to-use mapping software was developed in the mid-1990s. It opened the door to more precise application of crop inputs. All kinds of variable-rate equipment technology soon followed. Today, growers can write prescriptions that allow them to change fertilizer and planting rates on the go across the same field. They can also vary hybrids on the same planter pass according to field conditions. The capabilities of precision agriculture will only grow in the years ahead.

## IRRIGATION

**CENTER-PIVOT.** Irrigation for corn production boomed after the development of high-pressure sprinklers. In 1968, Reinke introduced the Electrogator, one of the first center-pivot systems, and the rest of the irrigation industry quickly followed. Today, center-pivots irrigate 28 million U.S. crop acres, according to the Irrigation Association.

Center-pivot technology has kept up with the rest of ag equipment. Pivots can be electronically controlled and remotely monitored from a grower’s cell phone. Precise and variable-rate application provide optimum water and nutrients for corn to produce the highest yields possible.



## MISCELLANEOUS

**SELF-PROPELLED SPRAYER.** “Fifty years ago, chemical weed control was becoming an alternative to mechanical tillage,” Hanna reports. “Most sprayers were small tanks mounted on a tractor’s 3-point hitch or a small trailer pulled behind the tractor. Size and capacity of plumbing increased along with the advent of self-propelled sprayers and wider spray booms. Nozzle technology evolved with chambered and venturi-style nozzles to reduce drift potential.”

The Spra-Coupe, by Kirschmann, was one of the first self-propelled sprayers, introduced in the 1960s. Today, spray booms in excess of 100 feet wide and self-propelled sprayers traveling more than 10 mph can cover 1,000 acres a day.

**ANHYDROUS RATE CONTROLLER.** Bin-busting corn yields require appropriate amounts of nitrogen fertilizer, usually applied in the form of anhydrous ammonia. Early applicators metered anhydrous with a variable orifice, but it made metering difficult and lacked precision.

“In the 1980s, rate controllers hit the market,” Hanna says. “These controllers allowed a small portion of main flow to expand into gas, creating a chilling source that condensed remaining anhydrous ammonia into a liquid for accurate measurement and application.”

Today’s sophisticated controllers use heat exchangers or coolers to condense  $\text{NH}_3$ , allowing corn growers to safely apply appropriate and more precise amounts of anhydrous ammonia. ●

New corn yield records are only a sample of some of the most significant events that have happened in the world of corn since the NCGA launched the National Corn Yield Contest 50 years ago. Take a look!



four states—Illinois, Indiana, Iowa and Ohio. The winning yield is 218.9 bu/A.

**1967** Average corn yield in the U.S. tops 80 bu/A for the first time.

**1968** Participation in the NCYC grows to 412 entries with 34 states represented.

**1973** U.S. Ag Secretary Earl Butz encourages farmers to “plant fencerow to fencerow” and “get big or get out.”

**1973** Boone, Ia., corn grower Walter Goeppinger, founder of NCGA, steps down as president of the organization after 16 years of service.

**1974** Plant breeders develop B73xMo17. The hybrid significantly alters the leaf angle of corn, meaning plants can be grown closer together.

**1976** Iowa and Kansas become the first states to establish corn checkoff

programs to fund promotion, education and research activities. Today, 23 states have a corn checkoff.

**1977** NCGA moves its offices from Boone, Ia., to Des Moines.

**1978** Average corn yield in the U.S. is 101 bu/A, topping the previous record yield of 95.5 bu/A established in 1972.

**1979** NCGA designates July as national corn month.

**1979** Strong worldwide demand pushes U.S. corn exports to a record 2.4 billion bushels.

**1980** In response to an invasion of Afghanistan, President Jimmy Carter announces a U.S. embargo of grain and oilseed shipments to the Soviet Union.



**1982** Ronald Reagan keynotes NCGA's annual meeting, marking the first time a U.S. President has attended an annual meeting in person.

**1983** NCGA opens a Washington, D.C., office.

**1983** With the worst drought in three decades gripping the country, total U.S. corn production of 4.17 billion bushels is half of the 1982 harvest.

**1984** NCGA moves its national offices from Des Moines, Ia., to St. Louis, Mo.

**1985** Seeking to improve resource conservation on highly erodible land and

other biologically sensitive areas, Congress establishes the 36.4-million-acre Conservation Reserve Program (CRP).

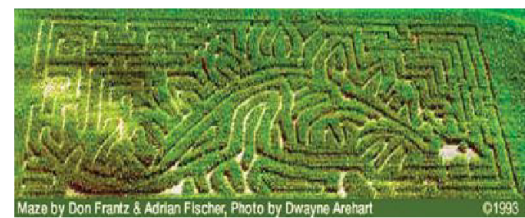
**1987** Average corn yield in the U.S. is 119.8 bu/A.

**1988** Corn production for the year totals just 4.9 billion bushels, a drop of nearly 2.2 billion bushels from the previous year, as the second severe drought of the decade hits major U.S. corn-growing regions.

**1991** Brad Schnoor, of Riverview Ranches, Chowchilla, Calif., takes first-place honors in the Irrigated Class of the NCYC with a yield of 322 bu/A, marking the first contest entry of more than 300 bu/A.

**1991–92** Nearly two million people visit “Seeds of Change,” an exhibit that includes NCGA as one of the seeds, at the Smithsonian Institution's Museum of Natural History, in Washington, DC.

**1993** Hampered by severe flooding in the Midwest and drought in the East and Southeast, U.S. corn growers harvest 10 million fewer acres than in the previous year.



Maze by Don Frantz & Adrian Fischer, Photo by Dwayne Aehart ©1993

**1993** The Amazing Maize Maze, the first-ever corn maze designed for private and public entertainment, opens at Lebanon Valley College, in Annville, Pa.





**1994** U.S. corn production tops 10 billion bushels for the first time in history. The national average corn yield is 138.6 bu/A on 72.5 million acres.



**1996** Genetically modified corn, designed to kill European corn borer and related species, is approved by the FDA.

**1998** A provision in a transportation bill passed by Congress extends the ethanol tax incentive through 2007.

**1998** Roundup Ready corn is introduced in the U.S. by Monsanto.



Francis Childs

**2002** Manchester, Ia., grower Francis Childs posts a world record corn yield of 442 bu/A in the NCYC's AA Non-Irrigated Class. The previous year, he was the first contestant to break the 400-bushel barrier.

**2002** Conservation-tillage practices are used on 103 million of the 281 million acres farmed in the U.S.



**2004** Ethanol production in the U.S. reaches 3.4 billion gallons. By 2011, production climbs to 13.9 billion gallons.

**2004** Average corn yield in the U.S. is 160.3 bu/A.



**2007** U.S. corn exports total 2.44 billion bushels, an all-time record high.

**2007** USDA's Natural Resources Conservation Service (NRCS) estimates nationwide farmland soil erosion at 2.7 tons/A, down from 4 tons/A in 1982.

**2007** One hundred ethanol plants, with a combined capacity of 5.4 billion gallons, operate in the U.S.

**2009** For the first time ever, the average yield for all of the 24 national winning entries in the NCYC is more than 300 bu/A.

**2009** A group of 150 researchers complete work on a four-year-long effort to map the corn genome's two billion base pairs.

**2010** The Fertilizer Institute estimates U.S. corn growers use 10.2 million tons of nutrients (nitrogen, phosphorus and potassium) to produce 12.45 billion bushels of corn. By way of comparison, corn farmers in 1980 used 10.6 million tons of nutrients to produce a crop of 6.64 billion bushels.

**2010** At \$5.18/bu, the average U.S. corn price exceeds \$5 for the first time.

**2011** Average corn yield in the U.S. is 147 bu/A, marking the ninth straight year in which average yields have topped the 147-bushel mark.

**2012** Because of a severe nationwide drought, average corn yield in the U.S. drops to 123.4 bu/A. The average corn price for the marketing year climbs to a record \$7.20.



David Hula

**2013** Charles City, Va., grower David Hula tops the field of 8,983 entrants in the NCYC with an all-time record yield of nearly 455 bu/A.

**2014** In its 50th year, the NCYC sees another all-time record yield of 503 bu/A by Valdosta, Ga., grower Randy Dowdy. Six national entries surpass the 400-plus-bushel mark.



Randy Dowdy





## History Grows Here

Legacy plots show how far corn genetics have come over the past half-century.

Visitors to the Pioneer legacy plots, located at the company's Johnston, Iowa, headquarters, can view various types of corn, including open-pollinated varieties and single-cross transgenic trait hybrids, says Mark Jeschke, Pioneer agronomy research manager.

**T**ime travel may seem like science fiction, but walking back into corn's history is as simple as a visit to some very special plots. In 2014, DuPont Pioneer and Monsanto Company planted a living gallery of corn's ancestors—a fitting celebration to the 50th anniversary of the National Corn Growers Association (NCGA) National Corn Yield Contest (NCYC).

Corn, it turns out, can be downright fashionable—its tassels, stalks and stature as telling of the era as if each plant donned a fancy fedora or bell-bottoms from the 1960s.

**IN THE BEGINNING.** The history tour starts with teosinte, the Mexican grass that began it all nearly 9,000 years ago. At first glance, teosinte's unruly nature and sparse sheathed seeds might

seem an unlikely forefather to today's upright stalks, sporting girthy cobs with rows of uniform yellow kernels.

"That's what makes these legacy plots so interesting," says Troy Coziahr, manager of the Monmouth Learning Center, Monsanto's research station situated in northwestern Illinois. "Visitors can visually see how far corn has come. We start to gain an appreciation of the consistency modern-day genetics offer."

Both companies plant a variety of heirloom demonstration plots each season to tell the story of the genetic advancements that

have come to corn.

The plots typically cover only 4 acres or so but pack a big visual punch for visitors, notes Michelle Klieger, director of international programs and policy for the

**Teosinte doesn't look much like corn we know today, but the ancient grass has the same number of chromosomes and a remarkably similar arrangement of genes.**

PHOTO: PAMELA SMITH





Reid's Yellow Dent is one of corn's important forefathers, Troy Coziahr says. The open-pollinated variety was an early farmer choice for nearly 50 years. PHOTO: PAMELA SMITH

American Seed Trade Association (ASTA). The plots attract a wide range of corn enthusiasts, including government officials, foreign media, farmers, school children and civic clubs.

Klieger, who arranges tours for international visitors through various company plots each year, says the experience helps ASTA promote U.S. exports and the factors that are necessary to increase exports, such as the value of seed property rights and the importance of quality seed.

"It's a good opportunity to build relationships with buyers and potential business partners around the world," she says of company plot tours in general.

**BACK TO THE FUTURE.** Getting these ancient grains to grow can be a chore, says Mark Jeschke, Pioneer agronomy research manager. "Teosinte is a bugger to get to grow," he says. "The plants germinate and emerge when they want."

Pioneer tour participants move from teosinte through corn eras to view open-pollinated varieties from 100 years ago in the same hill-drop



configuration farmers used for planting in that time period.

"Farmers would plant a few seeds together on a 40-inch grid that they'd have cultivated with horses," Jeschke explains. The Pioneer legacy plots are located at the company's Johnston, Iowa, headquarters, and are entirely hand-planted, requiring about 50 employees.

The tour continues through displays of double-cross hybrids from the 1950s and single-cross hybrids from the 1970s, followed by single-cross transgenic traits of today.

Jeschke says tour participants can see the role biotechnology has played in improving modern corn hybrids. "We get windstorms that come through, and those older hybrids and varieties got to looking

pretty ragged [in 2014], while the newer hybrids looked good," he says.

**DISPLAY OF DIVERSITY.** Among Monsanto's legacy plots are a show of the diversity that exists within corn germplasm.

"The exotic varieties are always an attention-getter," Coziahr says, pointing to a South American hybrid with an ear set so high it requires a ladder to examine. "Our day lengths are somewhat different than the tropical regions where some of this corn originates. But we still get a good idea of what they look like."

Do you know your flints from your dents? The parents of many of the key inbreds that made corn great grow in these living history plots. "To some extent, the genes of the ►







Ears from Monsanto's legacy plots show how corn genetics have changed. Bottom to top: Reid's Yellow Dent, 1970 hybrid and modern-day hybrid. The ears on the left were planted at 16,000 plants per acre, and on the right, 40,000 plants.

PHOTO: PAMELA SMITH

corn on exhibit are still in the corn we grow today," Coziahr notes.

What is surprising to learn is no wild corn plant as we know it has ever existed on this planet. Maize, or corn, is a product of domestication. Much like

the fruit fly, its vast variability made it ripe for experimentation and human manipulation.

These historical plots are rarely considered "research" in the traditional sense. Most are display-only plots. However, Coziahr finds value in occasionally putting corn's ancestors to the test.

In 2014, he set up one plot with the intention of taking it to yield to

show how corn from different decades responds to population densities.

**DECADES OF DIFFERENCE.** The yield trial included the 150-year-old Reid's Yellow Dent; U.S. 13 from the 1930s; the 1970s variety, B73 x MO17; and a modern-day DEKALB hybrid fully loaded with insect traits.

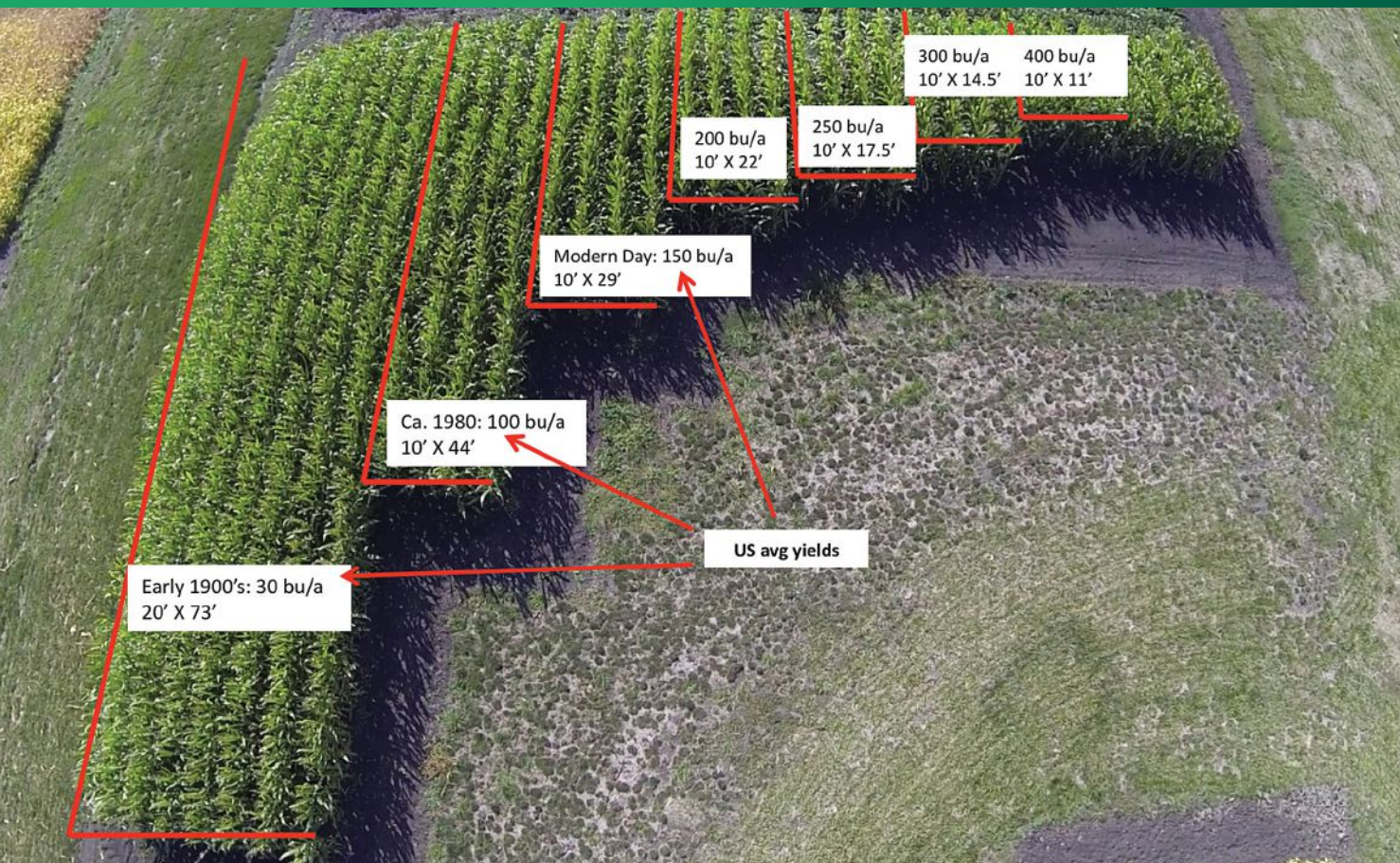
Few corn hybrids can boast the track record of Reid's Yellow Dent, an open-pollinated, 115-day relative maturity (Central Corn Belt RM) variety. During the late 1800s and early 1900s, it was planted on approximately 75% of the U.S. corn acres and remained popular for 50 years. It was also one of the parents of many early hybrids—including U.S. 13, a vintage double-cross that's considered the first hybrid grown nationally. B73 x MO17 (115-day RM) is the public single-cross often credited with contributing the first big advancements in yield stability. USDA statistics show corn yields were stuck in a 30-bushel-per-acre-average rut until they began to climb slightly in 1940 and started a steady ascent in the late 1960s.

In this test plot, Coziahr planted each type of corn at 16,000 plants per acre (ppa), 28,000 ppa and 40,000 ppa. All received the same inputs—200-46-90 (N-P-K) with N applied as 32% UAN solution, preplant incorporated. The plot was planted into a corn/soybean rotation and was chisel-plowed in the fall. A soil finisher was used in the spring prior to planting, and a full rate of Harness Xtra was applied preemergence.

"We wanted to show the differences in the abilities of those varieties or hybrids to handle stress," Coziahr says. "What you typically see in a plot like this is the modern-day hybrid is going to yield better, but often the results are closer than you might think at the very low populations.

"Those older hybrids typically yield much more today than when





they were grown initially,” he adds. “That’s an indication of some of the yield increases we have due to improved agronomic systems—more precise seed placement, better fertility, weed and pest control.

“As we increase populations, older genetics lack the ability to compete and maintain plant health,” Coziahr continues. “Yield differences between the older genetics and new hybrids become fairly dramatic as populations increase.”

Modern-day hybrids show a remarkable consistency in ear size despite population density. In the 2014 Monsanto plot, yield checks prior to harvest found the modern-day hybrid planted at 40,000 ppa produced ears only slightly smaller than those planted at 16,000 ppa, there were just a lot more of them.

By comparison, the ears pulled from the older genetics became more variable as population densities increased. There was also evidence of some corn earworm damage in the

older hybrids. European corn borer was not evident, although Coziahr says the plot probably escaped damage by virtue of being surrounded by test plots containing corn with traits.

It should be no surprise the modern-day hybrid yields outdistanced those of past eras at the 40,000-ppa level nearly fourfold. The older varieties performed best at 28,000 ppa, but today’s hybrid still achieved more than double the bushels.

It’s the changes in architecture of the plant that often cause growers to have flashbacks. Hybrids of the past tend to have larger tassels and wider leaves. “Those hybrids were bred to perform in wider row spacings and spread out to capture the sun,” Coziahr points out. “Modern-day hybrids have a much more vertical leaf orientation because they are bred to live closer together.”

**TIME LINES.** One of Coziahr’s favorite show-and-tell plots on the Monmouth research farm is of his

**The amount of land it takes to produce a bushel of corn has decreased substantially, as shown here in this biological bar chart planted at the Monsanto Learning Center, Monmouth, Ill. PHOTO: COURTESY OF MONSANTO**

own design. The biological bar chart (above) shows how much land was required to grow a bushel of corn in a given time period. For example, corn yielding 250 bushels per acre today would require a 10- x 17.5-foot parcel of land compared to the 10- x 44-foot area for a circa-1980 average U.S. yield of 100 bushels per acre.

“You can do the same thing to show how much water it’s taking to make a bushel or nitrogen to make a bushel,” Coziahr says. “It’s a great way to show how we really are doing more with less. Agriculture is becoming much more efficient, and the key message there is sustainability.

“The legacy plots aren’t necessarily about data. They are more about education and outreach,” he adds. “We have a great story to tell.” ●





# **Thank You for Making the National Corn Yield Contest a Success for Half a Century!**

For 50 years, U.S. corn growers have been setting new standards of success in American agriculture. We celebrate your hard work, your ingenuity and your support over the decades.

**May your next crop be your best crop!**

