

CORN TALK

December 2013 / January 2014 A Publication for North Dakota Corn Growers Association Members

NORTH DAKOTA
**CORN
GROWERS**
ASSOCIATION



CORNVENTION 2014:

FUELING THE FUTURE

FROM THE FIELDS TO THE PUMPS



**AMERICAN
ETHANOL**

PRE-REGISTER FOR 2014 CORNVENTION AND AUTOMATICALLY BE ENTERED FOR
A TRIP FOR TWO TO 2014 NASCAR

CORNVENTION 2014 • FEBRUARY 19-20 — TURN THE PAGE FOR COMPLETE DETAILS

**PRE-REGISTER & AUTOMATICALLY
GET ENTERED FOR
GRAND PRIZE DRAWING**

Space is limited to the first 350 people,
please register with Kristen,
kristen@ndcorn.org

■ 2014 CORNVENATION

February 19 • Holiday Inn • Fargo, ND

FEBRUARY 18, 2014

6:00 – 11:30 PM

Enjoy a night of socializing the evening of February 18th at Holiday Inn Poolside Rooms. This social is hosted jointly with the ND Soybean Growers.

FEBRUARY 19, 2014

7:00 – 8:00 AM

Enjoy breakfast and visit with vendors

8:00 – 8:15 AM

Welcome – Mark Mayfield

8:15 – 9:15 AM

Market Update- Ray Grabanski, Progressive Ag

9:15 – 10:15 AM

Vendor recognition and visit vendors

10:15 – 11:45 AM

PANEL DISCUSSION FUTURE OF ETHANOL & E-15

- Pam Keck, National Corn Growers Director of Biofuels

- Automotive Industry Expert TBD

- Ron Lamberty, American Coalition of Ethanol

- Kent Satrang, CEO Petro Serve USA

11:45 – 1:15 PM

LUNCH

- Introduction of 2013 State yield contest winners

- Introduction of NDCGA scholarship recipients

- Annual Corn Growers Meeting

1:15 – 2:00 PM

Visit Vendors

2:00 – 5:00 PM

Gaining Yield Advantage through your planter settings – Kevin Kimberley

5:30 – 6:30 PM

Social Hour with Cash Bar

**DRAWING FOR GRAND PRIZE: TWO PLANE TICKETS,
LODGING AND TWO RACE TICKETS TO 2014 NASCAR RACE
(TBD) VALUE = \$3,000**

-PRE-REGISTRATION REQUIRED—NEED TO BE PRESENT TO WIN!

6:30 PM

Banquet featuring Mark Mayfield

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GRAND PRIZE DRAWING**

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2014 CORNKNOWLEDGE

February 20 • Holiday Inn • Fargo, ND

7:00 – 8:00 AM	Enjoy breakfast in Harvest Hall
8:00 – 8:15 AM	WELCOME — Greg LaPlante , Director of Research NDCorn
8:15 – 10:00 AM	RESIDUE MANAGEMENT: HARVESTING TO SPRING TILLAGE – Kevin Kimberley
10:00 – 10:15 AM	Break
9:45 – 12:15 AM	TILLAGE MANAGEMENT: <i>Don't treat your soil like Dirt!</i> —Kevin Kimberley
12:15 – 1:00 PM	LUNCH - Special Recognitions
1:00 – 2:00 PM	CURRENT STATE OF REALITY IN SATELLITE; UAV AND FIELD SENSOR TECHNOLOGY: John Nowatzki NDSU/Kris Paulson
2:00 – 3:00 PM	PANEL DISCUSSION: WORLD OF NITROGEN: - Corn Nitrogen Recommendations: Dave Franzen NDSU - Nitrogen Loss Research: Joel Ransom NDSU
3:00 – 3:30 PM	Break
3:30 – 4:00 PM	MAJOR LONG TERM RESEARCH PROJECT: <i>NDSU SHARE FARM: Abbey Wick NDSU Soil Science</i>
4:00 - 4:15 PM	NDSU PLANT SCIENCES MOBILE APP. <i>Angela Kazmierczak: NDSU Weed Science</i>
4:15 - 4:30 PM	NDSU CORN GROWERS PRODUCTION SURVEY <i>Andrew Friskop : NDSU Plant Pathologist</i>
	DRAWING FOR GRAND PRIZE- PRE-REGISTRATION REQUIRED—NEED TO BE PRESENT TO WIN!
	GRAND PRIZE—KEVIN KIMBERLEY PLANTER TUNE UP VALUE: \$2,500.00

CALENDAR OF EVENTS

DECEMBER 18, 2013

Value Added Research Summit, Holiday Inn,
Fargo

JANUARY 6, 2014

ND Corn Scholarship Application Deadline

JANUARY 21-22, 2014

NDSU Feedlot School, Carrington Research
Extension Center

JANUARY 29, 2014

Research Summit, Northern Crops Institute

JANUARY 30, 2014

Research Summit Grading, Expressway Inn &
Suites, Fargo

FEBRUARY 18, 2014

CornVention Social, Holiday Inn Fargo

FEBRUARY 19, 2014

CornVention, Holiday Inn Fargo

FEBRUARY 20, 2014

Corn Knowledge, Holiday Inn Fargo

FEBRUARY 27- MARCH 1, 2014

March 1 Commodity Classic, San Antonio, TX

MEET THE 2014 CORNVENTION FEATURED SPEAKERS

MARK MAYFIELD, EMCEE

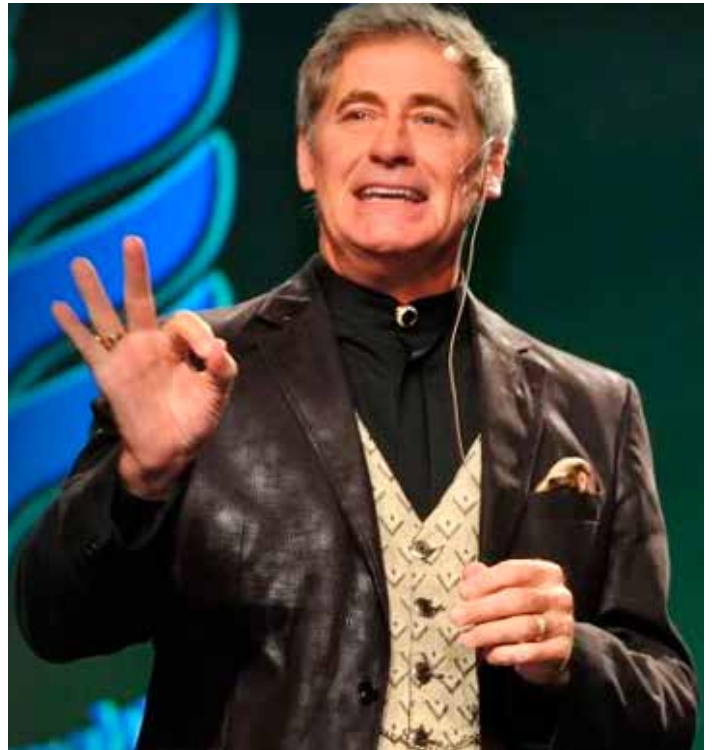
The North Dakota Corn Growers are excited to announce Mark Mayfield will emcee 2014 CornVention. It's seldom that you find a really funny, clean comedian and it's seldom that you find a really good, captivating speaker. It's nearly impossible to find one who is both. Mark Mayfield is one of the rare individuals in the world who is equally accomplished at performing comedy shows or delivering high content keynote speeches.

Known as "The Corporate Comedian", he has merged together his corporate background as a lobbyist and his comedy background as a nightclub performer to create an extremely unique and comedic presentation style. He has received rave reviews sharing the stage with a wide variety of celebrities like Paul Newman, Peter Frampton, Colin Powell, and Bob Newhart and has introduced the President of the United States on a live, nationwide television broadcast.

Raised on a farm in Caney, Kansas, he received two degrees from Kansas State University and served as National President of the Future Farmers of America. He has spent time as a high school teacher, a corporate lobbyist, was partner of an innovative golf instruction facility, was a professional model and spokesperson in print and television commercials, and owned a top rated nightclub. He obviously struggled with holding down a job.

Mark is author of the popular book, Mom's Rules, a comedic yet poignant look at those things Mom said to us as kids, and he makes nearly 100 presentations annually to a wide variety of corporations, conventions, and trade associations. He has received two degrees magna cum laude from Kansas State University and is a recipient of the "Certified Speaking Professional" designation from the National Speakers Association. He has also been inducted into their "Speaker Hall of Fame".

He is happily married to Terry, Grandpa to Delaney, Archer, Reid, and Everett, and the proud father of two amazing daughters, Leah and Lindsay. His hobbies are golf, basketball, and music and he was voted one of the top five funniest people in his family.



From comedy shows to seminars, Mark's philosophy is simple.....say it with humor and people will take the message home.

A national convention planner recently called Mark "one of the very few, really funny, inspiring men in America today". Mark's mom also said that once after a small bribe.

Mayfield will also be the featured speaker at the 6:30pm banquet.

KEVIN KIMBERLEY



The North Dakota Corn Growers are happy to bring Kevin Kimberley, Owner/President of Kimberley Ag Consulting, to 2014 CornVention. Kevin's presentation kicks off 2pm and the second half of his presentation will be featured at Corn Knowledge on February 20th. Kimberley is a highly successful ag-producer

with a long and rich history in the agricultural field. As a producer for 37 years, he owned, operated, and managed up to 3,500 acres in the Heartland of America. He now devotes full-time to presenting professional seminars to the agri-business market. Kevin travels throughout the Midwest, delivering lively, interactive presentations on a myriad of ag-related topics while sharing results of comparative studies, side-by-side trials and research through professional, hands-on experience. His presentations focus on the specialty areas of:

- Plantability, Tillage, Strip Till, No Till, Nitrogen Placement and Emergence
- Attachments; Ground Preparation; Root Mass Development; Hard Pans
- Yield Loss (with spacing, emergence, tillage, preparation, etc.)
- Regions and Soil Types; Seed Treatments; Corn-on-Corn; Row Widths
- Side-by-side trials on tillage equipment, disk rippers, inline rippers, strip till, no till.
- Side-by-side trials on planters such as Case 1200, Kinze, John Deere on all soil types,
- tillage and planter attachments, e.g. coulters, trash wheels, and press wheel brackets.

-CONTINUED ON PAGE 6-

2013 CORPORATE SPONSORS

Thank you to our sponsors!

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A promotional graphic for Conservis. On the left is a large, stylized graphic of a corn cob with leaves, rendered in shades of blue and grey. To the right of this graphic is the Conservis logo, which consists of a blue circular icon with a white 'C' inside, followed by the word "conservis" in a lowercase, sans-serif font. Below the logo is the name "Noah Butler" in a blue, sans-serif font. Underneath the name is the email address "nbutler@conserviscorp.com" and the phone number "612-325-1831". At the bottom of the graphic, on a blue background, is the website "GrowWithConservis.com" in a white, sans-serif font.

With an extensive background and lifelong contributions in the areas of farm management/operations, state-of-the-art farming practices, consulting, on-farm visits, and troubleshooting, he possesses a solid grasp of the challenges, changes, and trends facing the agri-business market. His knowledge of strategies and systems to produce higher yields and generate improved annual profits is shared with producers and companies from coast-to-coast.

Kevin has built strong working relationships with equipment manufacturers, agronomists, producers, and design engineers. He has been featured in numerous agricultural publications such as Successful Farming, Top Producer, Iowa Farmer Today, and is a patent holder of an anhydrous tube. Kevin was invited to serve as a member of the Ag Innovation Group, an annual symposium comprised of the nation's top producers who share ideas with leading researchers and executives from five major agri-business firms. Additional career achievements:

- Featured multiple times in national and regional publications such as Successful Farming,
- Top Producer, and Iowa Farmer Today.
- Selected to serve as a member of the Environmental Group in Washington, D.C.
- Secured a patent in 2000 for "Accu-Flow" nozzle for anhydrous knives.
- Featured guest on the Public Radio program.

Kevin is frequently recruited by corporate-sponsors as a professional speaker at local, regional, and national seminars, with participants including producers, agronomists, and engineers from around the country. He has facilitated presentations for area John Deere dealers, conducted seminars for Case I-H and collaborated with company engineers and agronomists. He has also served as Regional Instructor for Syngenta (formerly Novartis) in training dealers to deliver the TruPlant™ system. Since 2003, Kevin has planned, organized, and hosted "Field Days" held on-site at his Maxwell, Iowa premises. This annual event, approved for CEU credit, has gained national prominence and support from manufacturers and agri-business leaders alike.

E-15 ROLLOUT



On September 23, 2013, the North Dakota Corn Growers Association, along with the North Dakota Ethanol Council, announced that E15 would be made available in North Dakota for the first time at six different Petro Serve USA locations in Bismarck, Mandan, West Fargo, and Fargo. North Dakota is just the ninth state to offer E15 to motorists since its approval in 2011. North Dakota Governor Jack Dalrymple attended the press event in Bismarck, along with Tom Lilja, executive director of the North Dakota Corn Growers, Jeff Zueger, general manager of Blue Flint Ethanol and chairman of the North Dakota Ethanol Council, and Kent Satrang, CEO of Petro Serve USA.

"Ethanol blends are the perfect partnership between North Dakota's corn fields and oil fields. E15 provides a very cost-effective option for our consumer," Satrang said.

E15 is composed of 15 percent ethanol and 85 percent gasoline and has been approved by the United States Environmental Protection Agency for all 2001 and newer cars and light-duty vehicles, as well as flex fuel vehicles. These vehicles make up 75 percent of the light duty vehicles on the road today, representing more than 85 percent of the unleaded fuel sold in the nation.

"E15 underwent more testing than any automotive fuel previously introduced into commerce, so it is certainly a safe option for 2001 and newer vehicles," says Zueger. "Ethanol burns cleaner and cooler in engines, which helps the performance level of the vehicle. It also can extend the life of the engine."

"NASCAR has driven more than four million miles on Sunoco Green E15. This speaks volumes to the performance level of the proven fuel," says Lilja. "North Dakota is lucky to be one of the few states offering E15. Ethanol blends are good for the economy, environment and energy independence."

E-15 FACTS

WHAT IS E15?

-E15 is 85 percent gasoline, 15 percent ethanol.

WHICH VEHICLES CAN USE E15?

-The U.S. Environmental Protection Agency has approved E15 for all 2001 and newer cars and light-duty vehicles, as well as flex-fuel vehicles.

-These vehicles make up 75 percent of the light duty vehicles on the road today, representing more than 85 percent of the unleaded fuel sold in the nation.

WHAT MAKES E15 AN ECONOMICAL FUELING OPTION?

-E15 is available for 3% to 5% less than unleaded fuel.

-There is a mileage loss of less than 2% for E15 when compared to other gasoline blends in the marketplace. For a vehicle getting 30 mpg, this would equate to a drop to around 29.4 mpg or about the loss of miles to the gallon when vehicle tires are improperly inflated.

-Driving habits, such as quick starts and stops, rate of speed, tire pressure, etc., are factors that affect fuel economy much more than a driver's choice of fuel.

IS E15 A PROVEN FUEL?

-E15 underwent more testing than any automotive fuel previously introduced into commerce prior to its approval.

-Tests have included vehicle durability, catalyst durability, fuel pumps and sealing units, outboard diagnostic systems and automotive fuel system components.

-NASCAR drivers have driven more than 4 million miles on E15 over the past three season as Sunoco Green E15 is the official fuel of NASCAR.

Sources: American Coalition for Ethanol, Growth Energy, Renewable Fuels Association, North Dakota Department of Transportation

PROFITABLE SHEEP FARMING: FACT OR FICTION

By Reid Redden, NDSU Extension Sheep Specialist

It is undeniable that the current sheep industry is only a fragment of what it once was. Prior to World War II, there were 50 million sheep in the US; whereas, there are around 5 million today. A person could write a book on why this occurred. However I'd rather focus on the positive aspects of the industry. The US sheep industry could have a very bright future but we need a new generation of shepherds that have an entrepreneurial spirit. It appears that Mid-Westerners are in a better position than most of the nation to expand its sheep flocks because of our access to cheaper feed resources.

When thinking about a business, first start with supply and demand. **SUPPLY:** In the US, we only supply half of domestic demand for lamb and we import lamb from Australia (65%) and New Zealand (35%) to fill the void. Domestic production of lamb is concentrated in the Western states by large operations. They represent only 2% of the sheep producers; however, they produce greater than 50% of the lambs. Western operations are facing hardships that will likely cause more retraction in the industry. These hardships include but are not limited to: land prices exceeding realistic agricultural revenues, predation from protected species, strong desire by activists to remove public land grazing permits, and limited interest by the next generation of ranch owners to raise sheep. **DEMAND:** Internationally, demand for lamb is increasing with the growing population growth and increasing demand for proteins in developing

countries. Demand in the US for traditionally produced lamb products has declined in the last 5 years, in part due to a lack luster national economy. However, the nontraditional lamb market has been a very stable industry during the last ten years. In 2008, it was estimated that 58% of total US lamb supply (including imports) were consumed by minority populations (35% of US population). By 2050, minority populations are expected to rise to greater than 50% of the US population. Lamb demand should follow this change in demographics. Moreover the demand for locally-sourced foods has doubled in the last ten years.

In North Dakota, commercial sheep farming can be divided into two segments. Range-based management practices which rely on large amounts of land typically not suitable for crop farming. This industry has been declining. Whereas, farm flock-based systems that require much less acreage have been increasing in popularity. With adequate facilities 300 to 1,000 ewes can be managed on a small acreage farm. In this scenario, ewes are managed on inexpensive feedstuffs (often by-products) most of the year. Just prior to lambing (45 days), higher quality feed is provided to ewes, typically alfalfa hay and **CORN**. Ewes remain on this ration through weaning (60 days). Lambs have access to creep feed (**CORN** and soybean meal) shortly after birth through weaning. Thereafter, lambs are kept on self-fed rations consisting primarily of whole **CORN** and a protein pellet. Lambs managed in this system are efficient (5:1) and reach



2013

NDCGA Board of Directors

District 1 – Carson Klosterman: Wyndmere (Vice President)
 District 1 – Andrew Braaten: Barney
 District 2 – Randy Melvin: Buffalo
 District 2 – James Aarsvold: Blanchard
 District 3 – Jay Nissen: Larimore
 District 3 – Kim Swenson: Lakota (President)
 District 4 – Darin Anderson: Valley City (Secretary/Treasurer)
 District 4 – Ryan Wanzek: Jamestown
 District 5 – Jerome Freeberg: Lisbon
 District 5 – Joe Breker: Havana
 District 6 – Chris Erlandson: Oakes
 District 6 – Bart Schott: Kulm
 District 7 – Anthony Mock: Kintyre
 District 7 – Clark Price: Hensler

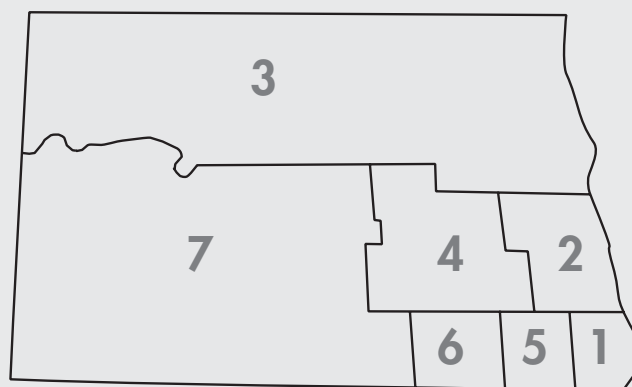
Director-at-large – Mike Clemens: Wimbledon
 Director-at-large – Jeff Enger: Marion
 Director-at-large – Wallie Hardie: Fairmount
 Director-at-large – Larry Hoffmann: Wheatland

NDCGA Industry Directors

Tom Haahr – Farmers Union Oil Co., Devils Lake, ND
 Eric Berge – Gavilon Grain, New Rockford, ND
 Howard Huebner – Rabo AgriFinance, Fargo, ND
 Bradley Mosher – Hankinson, ND

ND Corn Utilization Council

District 1 – Arnie Anderson: Hankinson
 District 2 – Kevin Skunes: Arthur
 District 3 – Paul Belzer: Cando (Chairman)
 District 4 – Dave Swanson: New Rockford
 District 5 – Dan Qual: Lisbon (Secretary/ Treasurer)
 District 6 – Scott German: Oaks
 District 7 – Paul R. Anderson: Coleharbor (Vice Chairman)



market weight (140 lb) quickly. After weaning, ewes are typically turned out to graze on available pasture or crop aftermath. Currently, market lambs are worth \$225. If an operation markets a 150% lamb crop, keeps ewe overhead costs at \$75 per year, and feeds each lamb for \$75; then they can net ~\$150 per ewe. This type of operation requires labor, equipment, facilities, and expertise; however, the majority of labor needs are concentrated during the winter. If managed well, sheep farming can be an additional source of revenue for a farming operation and diversify risk.

Although half the sheep industry operates small hobby farms, it is a fact that sheep farming can be a viable livestock enterprise that services a domestic food and fiber demand. For existing or new operation to function properly they must invest time and effort to develop a sound flock management plan. We (NDSU Extension) are here to help farmers develop and refine production systems to fit your goals. The future looks bright for the US sheep industry but the next generation of sheep farmers are needed to produce the lamb and wool products.
Eat Lamb. Wear Wool.





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KEEP NITROGEN TOP OF MIND NEXT SPRING

Bruce Due, Mycogen Seeds customer agronomist



The extremely wet fall throughout North Dakota sparked concerns about nitrogen (N) availability in the soil next spring. Given this concern, it's important to understand N loss. Successful management of N will help to maximize yield potential and profitability on your acres next season.

KNOW THE NITRIFICATION PROCESS

N sources applied as ammonium (NH_4^+) are converted to nitrite (NO_2^-) and then to nitrate (NO_3^-) via the nitrification process. Because soil bacteria are responsible for nitrification, rate of nitrification depends heavily on soil temperature and moisture. Nitrification typically begins when soil temperatures reach 50 F. Once soil temperature exceeds 50 F, nitrification rates increase with temperatures. Under ideal conditions, the process occurs in as little as two weeks.

HOW N LOSS OCCURS

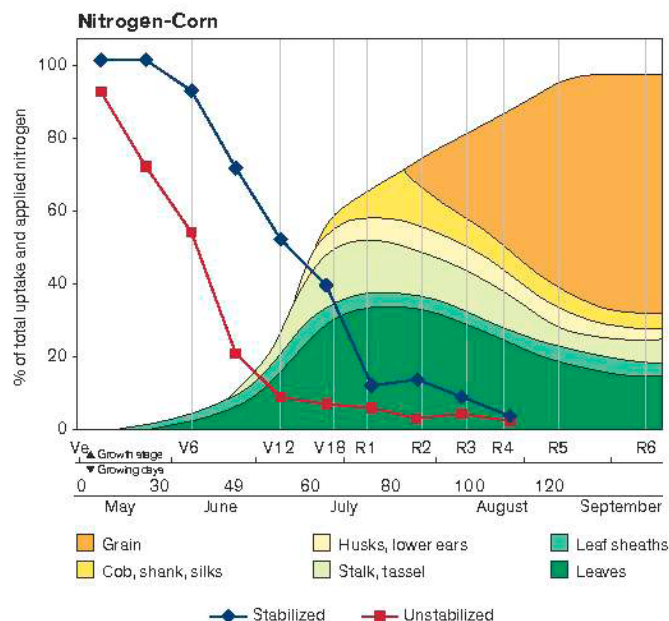
Because NH_4^+ carries a positive charge, it binds to the negatively charged soil. N losses, such as leaching and denitrification, occur when fertilizer N is converted to the negatively charged NO_3^- form. Fertilizer N in the NO_3^- form is subject to significant loss.

- Leaching is caused by a negative charge. NO_3^- moves with water through the soil profile and subsequently out of the root zone.
- Denitrification is the microbial process of converting NO_3^- to gaseous forms of N due to saturated soil conditions.

WHEN N LOSS OCCURS

Fields lose N with moderate to high rainfall at any point in the season. The greatest risk is in the spring, when soils tend to be cool and wet before rapid crop growth. Another critical time for N losses is May to July, or up to 75 days after crop emergence.

This chart shows how corn uses N during the season. Corn has the highest N needs after the V8 stage as it moves into the reproductive stages. A lack of N during this time restricts yield potential.



KEEP N IN THE ROOT ZONE

As plants mature, fields can lose applied fertilizer N through leaching or denitrification. Adding Instinct® nitrogen stabilizer to urea, UAN and liquid manure and adding N-Serve® nitrogen stabilizer to anhydrous ammonia help keep N in the preferred NH_4^+ form, ensuring N is available in the root zone between the V8 and VT stages, when the plant needs it most.

This fall, most growers were not able to get into fields to apply N. Get next season's corn crop off to a good start with a spring N application as well as corrective action during the season. Contact your local Mycogen Seeds customer agronomist for more information about managing nitrogen on your operation.

Want more agronomy tips? Visit www.Mycogen.com/Agronomy for expert advice that can help you make the most of your acres.

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WHY JOIN THE NORTH DAKOTA CORN GROWERS ASSOCIATION

GROWER MEMBERS REALIZE NEW OPPORTUNITIES THROUGH:



PROMOTION
CONSUMPTION AND USAGE
OF CORN PRODUCTS



SUPPORT FOR
RESEARCH ON
CORN HYBRIDS
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IN OUR NORTHERN CLIMATE

INFORMATION
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LOUD POLITICAL VOICE
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40,000 CORN GROWERS



YOU MAY ALREADY QUALIFY FOR A FREE ND CORN GROWERS MEMBERSHIP:

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FOR MORE INFORMATION ABOUT MEMBERSHIPS:

EMAIL INFO@NDCORN.ORG FOR MEMBERSHIP INFORMATION OR SEE NEXT PAGE FOR MEMBERSHIP FORM.



MEMBERSHIP FORM

1411 32nd St South, Ste 2
Fargo, ND 58103
P: 701.364.2250 F: 701.298.7810

Membership also includes agribusiness, corn researchers or any person promoting the profitability of the corn industry. To join complete the following and mail to the address above.

Name: _____ Farm/Company _____
Address: _____ I want membership in Farm/Company _____
County: _____ City/State/Zip _____
Phone Number (Home) _____ Email: _____
Spouse's Name _____ Phone Number _____
Recruiter Name _____

- ☐ I have paid the promotional check-off for at least 12,000 bushels of corn entitling me to a free 1-year membership.
☐ I have paid the promotional check-off for at least 24,000 bushels of corn entitling me to a free 3-year membership.
☐ I have not paid the minimum promotional check-off on corn, but wish to become a member.

(Circle one) 1 Year= \$35 3 Years= \$85

New Membership _____ Renewal _____

By signing below, I certify that I have sold and checked off the above numbers of bushels of corn within one year of this date. I authorize and assign payment of the above checked dollars for a membership in the North Dakota Corn Growers Association

Signature _____ Date _____

**Reminder: In order to receive a Membership Jacket and \$85 Check is required.
The three year Promotional Check off does not make you eligible for a jacket**

SIZE REQUIRED: Please Circle Your Size

S M L XL XXL OTHER: _____



NDCGA BOASTS AMERICAN ETHANOL AT NASCAR

The weekend of November 1-3, corn growers from four states were at the Dallas Motor Speedway to spread the good word about American Ethanol to more than 100,000 fans in attendance.

North Dakota Corn Grower's executive director Tom Lilja was joined by ND Corn Board member Anthony Mock, and grower members Roger Triebold, Paul Lacina, and Matt Danuser, all of whom had the opportunity to work alongside NASCAR driver and American Ethanol spokesman Kenny Wallace, who answered questions about E15 ethanol and signed autographs for fans.

Throughout the weekend, corn grower members from North Dakota, Minnesota, Nebraska, and Texas handed out nearly 3,000 American Ethanol green starter flags, which could be seen flying high in the track midway and in the campground surrounding the track. Roving teams also handed out prizes to those flying their flags.

American Ethanol's associate sponsorship on Austin Dillon's No. 3 car in the Nationwide race was a central part of the weekend and was further augmented by a dozen large ethanol banners near track entrances and a large digital sign on the driver scoring tower.



I've always been a proponent of ethanol, but after this weekend, the knowledge I gained and having the opportunity to see NASCAR succeed using E15, I think more people need to know about the positive impact ethanol is having as a motor fuel.

-Roger Triebold

2013 CornVention Grand Prize Winner

A mobile biofuels trailer was also set up on the midway, crowded with fans throughout the weekend. The exhibit included a lot of visual educational material related to ethanol's many benefits and provided a great opportunity for fans to talk to the people who grow the corn that is instrumental to their lives as food, fuel and fiber.

Triebold, the ND Corn Growers NASCAR giveaway winner from the 2013 CornVention, came away impressed by the weekend. "I've always been a proponent of ethanol, but after this weekend, the knowledge I gained and having the opportunity to see NASCAR succeed using E15, I think more people need to know about the positive impact ethanol is having as a motor fuel," Triebold said.

A group of VIPs attending an educational seminar in Ft. Worth joined the corn grower group for the Sprint Cup race on Sunday and got to see E15 ethanol in action on the track. The group, which included representatives from Texas A & M University, Texas Department of Agriculture and congressional staff, met with farmers and had the opportunity to visit with Dillon and race team owner Richard Childress.

The event marked the largest and the last major activation for the American Ethanol brand in 2013. Building general awareness of E15's introduction into the sport and its success on the track amongst the NASCAR fan base is a high priority of the American Ethanol program. However, we are now well into the next phase, which includes more detailed education of all the economic, environmental and energy security benefits of ethanol.

Brad Keselowski won the Nationwide Series O'Reilly Auto Parts 300 on Saturday afternoon November 2nd. Jimmie Johnson won the Sprint Cup Series AAA Texas 500 on Sunday afternoon November 3rd.



**NATIONAL BRAND COMMITTED
TO LOCAL SUCCESS.**

Dyna-Gro®
SEED

The logo for Dyna-Gro SEED features the brand name in a bold, black, sans-serif font. Below the name are four thick, green, curved swooshes that sweep upwards from left to right, resembling stylized corn leaves or a rising sun. The word "SEED" is written in a smaller, bold, black, sans-serif font to the left of the main brand name.

FEEDING THE 400

Peterson Farms Seeds

As a self-proclaimed “corn guy”, Mike Larson is always looking for fun and innovative ways to help our region’s growers advance their corn crop.

Last spring, Mike developed an experiment to explore the genetic potential of three Peterson Farms Seed corn hybrids: 55S96, 38L90, and 98E84. If you’re a friend of Mike’s (and who isn’t?!), you’ve no doubt heard rumblings of the 400 Bushel Project over the past few months. His goal for this experiment was to maximize yield potential while monitoring all factors of growth within his control.



The three hybrids were planted by hand in early May using a homemade equidistance plywood planter. Each plant had one square foot in which to live, which equates to a final plant population of 43,560 plants per acre. The experiment was conducted on 20 foot tiled ground.

The PFS team designed an irrigation system to provide the hybrids with all of the nutrients and water needed to produce a stellar yield. They set a “pie-in-the-sky” goal of 400 bushels per acre – and hence, the “400 Bushel Project” was born. Mike and his sidekick, Devan Hafner, fed the plot throughout the summer using a 30 gallon poly drum and 1 inch PVC pipe with 1/8 inch holes. The plot was fed weekly, and received over 200 extra units of Nitrogen per acre, 90 units of potash, 10 pounds of sulfur, a few pounds of zinc, and eight additional inches of water.



The plot was initially hand-harvested and shelled out using a hand-sheller. When this process became tedious, Mike recruited the PFS staff to help. Harvest was completed using an antique corn-sheller, teamwork, and muscle!



The plot endured nature’s challenges throughout the growing season, including being under water on two occasions in June, and being hit with hail and strong winds. Through it all, it had Mike’s tender care. Despite the low-tech nature of the project, results and findings were significant, bringing up conversations about precision planting and the impact of planting high populations. When all was said and done, the yields did not quite reach 400 bushels.

400 Bushel Project			
Hybrid	Test Weight (in lbs.)	Moisture	Yield
98E84	55.9	19.5%	333.33 bu/a
38L90	52.8	21.7%	366.18 bu/a
55S96	53.6	24.5%	362.00 bu/a
55S96 untreated*	52.4	25.8%	326.97 bu/a

In an age of high-tech agricultural advances, Mike went back to the basics. From the equidistance planter to the special irrigation fertilizer system to the process of harvesting, this project was seriously low-tech.

What began as a fun experiment became a great learning experience. The project created a lot of grower interest, and Mike plans to expand it next year. This fall, he will be improving soil health in preparation for next spring.

As Mike said, “I don’t know if this was cutting edge, but it’s sure been a lot of fun”.

ABOUT THE AUTHOR



Mike Larson is the Sales Manager with Peterson Farms Seed in Prosper, ND. He thrives on helping the growers in our region achieve success on their farms. Mike is a former North Dakota Corn Growers Association board member. To learn more about Mike's projects, including the

400 Bushel Project, contact him at 701-282-7476 or at mike@petersonfarmsseed.com.

ABOUT THE COMPANY

Peterson Farms Seed is serious about agronomy. From genetics to the technology that protects those genetics...from soil health to plant fertility...from planting and harvesting practices to educational opportunities like Peterson University, Plus20 Agronomy Club, and Groundbreaker Field Day... At Peterson Farms Seed, it is our mission to help regional farmers improve their yields.

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DEVELOPMENT OF THE NDSU PEST MANAGEMENT APP

Contributor: Angela Kazmierczak, NDSU

As technology advances, information delivery can be enhanced. NDSU Extension Specialists update and print the Weed Control, Fungicide, and Insecticide Guides on an annual basis. In the next couple of months, the printed versions will not be the only place this information will be found. For the past year, the NDSU Pest Management app for mobile devices is being developed. The app will consist of selected information found in the Guides, but in a dynamic and searchable format. The app was designed for ease of use to provide growers with another tool as they make decisions in the field. The North Dakota Corn Growers were the first to support the project by funding the platform of the app then several other commodity groups followed by funding other features of the app or the input of information for their respective crop.

The app will provide several benefits to the user compared to the print version. The app can be updated throughout the year and as opposed to on an annual basis. The app will be searchable within each category which will allow users a quick way to find a pest or management aid quickly and efficiently. General information from the guides and resources that may be helpful for producers will also be included as supplemental information. There will also be special tools specifically designed for the weeds section of the app that provide herbicide efficacy ratings on specific weeds and crop rotational restrictions for herbicides with residual properties.

**THE ANTICIPATED ROLE OUT
WILL BE JANUARY 21, 2014
AT THE NDSU WIDE WORLD
OF WEEDS AND AVAILABLE IN
APP STORES AFTER
THAT DATE.**



■ 2013 SURVEY: IDENTIFYING CORN PRODUCTION PROBLEMS

Working collaboratively with the North Dakota Corn Growers Association, North Dakota State University Extension Specialists are organizing a corn production survey that invites growers to help identify production problems in North Dakota.

The mission of this survey is to more efficiently understand the needs and problems facing corn growers. The survey is designed to cover several scientific disciplines including agronomy, weed science, soil science, entomology, and plant pathology. The information obtained will help develop and advance research efforts at NDSU. However, this effort is only as good as the input we receive.

**PLEASE CONTACT ANDREW FRISKOP,
ANDREW.J.FRISKOP@NDSU.EDU, FOR ANY
QUESTIONS.**

We cordially encourage growers to fill out the 10-15 minute survey. Please visit the North Dakota Corn Growers Association website and click on the survey link on the home page.

Preliminary results of the 2013-2014 survey will be presented at CornKnowledge occurring on February 20, 2014.

■ ND CORN GROWERS ASSOCIATION SCHOLARSHIPS

The North Dakota Corn Growers Association will offer ten (10) \$1,000 scholarships to senior high school graduates and college students of ND Corn Growers members. Winners will be recognized at the noon luncheon at CornVention held February 19, 2014 at the Fargo Holiday Inn. There will be one winner from each of the seven grower districts as well as three overall winners from all scholarship applicants.

Winners will be selected based on three main criteria:

- School transcript
- Activity participation
- Being a child of a ND Corn Grower member

Applications available from website at www.ndcorn.org

Application deadline is January 6, 2014



GOOD LUCK!

2013 PHOTO CONTEST

We are looking for your photos for the 2013 Photo Contest

We are excited to once again ask you to share the wonderful pictures that you may have taken or will take that depict the corn industry within North Dakota. The entries submitted in the past have truly been amazing and we are certain the trend will continue with this year's entries. Photos must not be from a professional photographer.

From time to time we use submitted pictures in marketing and promotional pieces or forward on to others requesting photos of our industry.

To enter your pictures in our photo contest, please email your photos to kristen@ndcorn.org

DEADLINE JANUARY 15, 2014



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25 TOTAL SUNFLOWER • 20 TOTAL CANOLA(2)



PRO LEVEL

DEWALT 4 TOOL SET + 1/2" IMPACT WRENCH

3 VARIETIES OF THE SAME CROP
400 TOTAL SOYBEAN • 150 TOTAL CORN
45 TOTAL SUNFLOWER • 25 TOTAL CANOLA(2)



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■ TELL WASHINGTON: DON'T GUT THE RFS!

NCGA CALLS FOR ACTION ON EPA PROPOSAL TO CUT CORN ETHANOL

For 2014, the U.S. Environmental Protection Agency has proposed a 1.4 billion gallon reduction in how much corn ethanol will be required under the Renewable Fuel Standard, the federal law that helps get domestic, renewable, cleaner-burning corn ethanol blended in the nation's fuel supply. This will reduce already-low corn prices and negatively affect planting decisions in 2014.

We need your help today. The EPA is going to be accepting comments on the proposal for a period of 60 days, and corn growers and their allies are asked to visit the NCGA website to learn more about this issue and to tell the EPA it needs to maintain the current regulation.



**NATIONAL
CORN GROWERS
ASSOCIATION**

WHY DOES THIS MATTER?

American farmers have produced a record corn crop of 14 billion bushels, according to USDA estimates, and corn prices are falling and currently stand close to where they were when the RFS was enacted in its current form in 2007. While corn prices have returned to previous levels, the cost of producing the crop has continued to increase and for many growers the price of corn is below the break-even point, and falling further.

If this proposal comes to pass, corn prices will continue to fall below the cost of production. To put this into perspective, if corn prices dropped to \$3.50 a bushel farmers, the rural economy would lose over \$10 billion.

We're growing more than enough corn to meet all needs. There's no need to change something that works well. It has reduced greenhouse gas emissions, decreased our reliance on foreign oil, lowered gasoline prices for consumers, increased economic stability in rural America and spurred innovation in advanced and cellulosic biofuels.



**FOR MORE INFORMATION GO TO
WWW.NCGA.COM/RFS**



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